

Monthly Report January 2017

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Abbreviations and symbols

- e Estimated
- **p** Provisional
- pe Partly estimated
- **r** Revised
- ... Data available at a later date
- . Data unknown, not to be published or not meaningful
- 0 Less than 0.5 but more than nil
- Nil

Discrepancies in the totals are due to rounding.

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Commentaries

Economic conditions

Underlying trends

German economy gathers pace significantly towards end of year Germany's economic growth is likely to have gathered pace significantly in the final quarter of 2016. Both domestic and external factors played a part, with German enterprises' goods exports recently recording a steep rise. In tandem with very strong industrial orders, this led to a clear increase in industrial production. The construction sector, too, shrugged off its thirdquarter lethargy and saw a resurgence of growth. Here, sentiment indicators are breaking one record after the next, and also in other sectors, enterprises rate their business situation as very favourable. To round out the list, private consumption appears to have continued to provide positive stimuli.

Economic growth in 2016 sustained by domestic activity

According to provisional calculations by the Federal Statistical Office, real gross domestic product (GDP) expanded by 1.9% (1.8% after calendar adjustment) in 2016. This means that the increase in aggregate output was somewhat stronger than in 2015 (+1.7%). GDP growth was sustained mainly by healthy domestic demand. Private consumption benefited from the favourable situation in the labour market and the strong growth in real disposable incomes spurred by depressed inflation. Construction investment received additional support from favourable financing conditions and there was strong growth in refugee-related government consumption at the beginning of the year in particular. By contrast, export growth was dampened by weak global trade. German enterprises' exports to non-euro-area countries, in particular, were muted.

Industry

In November 2016, industrial production in Germany increased slightly by 1/4% on the

month in seasonally adjusted terms. On an average of October and November, it was up significantly from the third quarter (+¾%). Substantial output growth was recorded mainly by German manufacturers of machinery and equipment, while motor vehicle manufacturers suffered clear losses. The output of capital goods showed a steep 1% expansion overall, however. Producers of intermediate goods increased their output to a similar extent. By contrast, there was only a slight uptick in the production of consumer goods (+¼%).

Following the exceptionally strong growth in October, new industrial orders in November recorded a steep seasonally adjusted decline of 21/2% on the month. However, on an average of October and November, the volume of new orders was still showing a strong upward trend (+3¾%) compared with the third quarter. Disregarding large-scale orders, growth was even more dynamic at 5%. Against this backdrop, the outlook for German industry is favourable. The buoyant inflow of orders was mainly attributable to domestic orders (+41/4%) and orders from countries outside the euro area (+53/4%). By contrast, there were fewer orders from euro-area countries (-1/2%). However, this was mainly due to the extremely weak placement of orders for other transport equipment, where the proportion of large contracts is very high. If this area is excluded, euro-area countries also placed significantly more orders compared with the average for the third quarter.

After seasonal adjustment, industrial sales in November increased clearly by 1% on the month. On an average of October and November, they were up by a steep 1½% from the third quarter. Producers of intermediate and capital goods recorded a similarly strong increase in sales (+1½%). Sales of consumer goods also showed a distinct ¾% rise in growth, however. With regard to the regional development of sales, German industrial enter-

Industrial production clearly on growth path

Strong momentum in new orders

Clear rise in industrial sales, strong growth of exports

Economic conditions in Germany*

Seasonal	lv ad	iustec
Jeasonai	iy uu	jusice

,	-)				
	Orders received (volume); 2010 = 100				
	Industry				
		of which			
	T . 1		-	Main con-	
Period	Total	Domestic	Foreign	struction	
2016 Q1	110.9	104.9	115.8	129.1	
Q2 Q3	110.5 111.2	106.0 103.9	114.2 117.1	129.0 121.9	
Sep	111.2	105.5	117.0	121.3	
Oct	116.8	104.0	122.4	122.5	
Nov	113.9	109.9	122.4	154.0	
		0 100			
	Output; 201	0 = 100			
	Industry				
		of which			
		Inter-			
	Tetel	mediate	Capital	Con-	
	Total	goods	goods	struction	
2016 Q1 Q2	112.2 111.5	107.6 106.9	120.2 119.2	109.5 105.4	
Q2 Q3	111.5	106.9	119.2	105.4	
Sep	111.8	107.5	119.5	105.5	
Oct	112.3	107.4	120.7	106.7	
Nov	112.7	108.4	120.6	108.3	
	Foreign trad	e: £ hillion		Memo	
	roleigii tiau	e, e billion		item	
				Current	
				account	
	Exports	Imports	Balance	balance in € billion	
2016 Q1	297.89	236.37	61.52	75.15	
Q2	299.17	233.56	65.61	70.99	
Q3	298.83	236.83	62.00	64.72	
Sep	100.14	79.03	21.11	20.47	
Oct	100.64	79.98	20.66	21.36	
Nov	104.52	82.80	21.72	21.25	
	Labour market				
	Employ-	Vacan-	Un- employ-	Un-	
	ment	cies1	ment	employ-	
	Number in thousands			ment rate in %	
2016 Q2	43,484	647	2,700	6.1	
Q3	43,496	664	2,678	6.1	
Q4		681	2,651	6.0	
Oct	43,526	676	2,661	6.0	
Nov	43,560	679	2,655	6.0	
Dec		687	2,638	6.0	
Prices; 2010 = 100					
		Producer			
	Import	prices of industrial	Con- struction	Con- sumer	
	Import prices	products	prices ²	prices	
2016 Q2	97.0	101.6	113.1	107.3	
Q3	97.8	101.0	113.7	107.6	
Q4		103.1	114.1	108.2	
Oct	99.0	102.7		108.0	
Nov	99.7	103.1		108.0	
Dec		103.5		108.5	

* For explanatory notes, see Statistical Section, XI, and Statistical Supplement, Seasonally adjusted business statistics. 1 Excluding government-assisted forms of employment and seasonal jobs. 2 Not seasonally adjusted.

Deutsche Bundesbank

prises profited in particular from the brisk demand in non-euro-area countries. In line with this, nominal exports of goods in November showed a steep rise on the month $(+3^{3}/4^{3})$. Average exports for the October-November period were also up significantly from their third-quarter level (+3%). In spite of rising export prices, a substantial increase of 21/4% was also posted in real terms. In November, nominal goods imports were likewise up considerably on the month (+31/2%). The average of October and November, at 3%, also represented a steep increase from their third-quarter level. Owing to the guite dynamic development of import prices, however, the growth of goods imports was only nearly half as high in real terms (+11/2%).

Construction

Construction output continued its ascent in Construction November 2016, posting a steep month-onmonth increase of 11/2% in seasonally adjusted terms. The average of October and November showed a significant increase of just over 11/2% from the third quarter. This was due chiefly to the substantial expansion in the main construction sector (+31/2%), in particular in building construction. The finishing trades posted a slight decline (-1/2%), however. The outlook for the construction sector overall remains very favourable. Both new orders and building permits in October - the most recent period for which statistics are available - are up considerably on their third-quarter level. Furthermore, according to the Ifo Institute, the business expectations of German construction firms are approaching the record level attained shortly after reunification.

Labour market

Following a few weaker months, employment Somewhat recorded a somewhat stronger rise again in November 2016. The seasonally adjusted number of persons in work in Germany increased

sector still on

expansionary

course

stronger rise in employment again in November

by 34,000 on the month, compared with +15,000 in October. However, growth was lower than one year earlier; the year-on-year increase declined further to 297,000 persons or +0.7%. According to the provisional disaggregated estimate provided by the Federal Employment Agency up until October, the primary reason why employment growth was relatively subdued in the third guarter and stretching into October is that the number of jobs subject to social security contributions went up only moderately; in addition, there continued to be a slightly negative trend in exclusively low-paid part-time employment. However, the leading labour market indicators, in particular the Ifo employment barometer and the Federal Employment Agency's BA-X job index, are still exceptionally favourable, implying that the recent stronger job growth might continue.

Further fall in registered unemployment

Seasonally adjusted unemployment in December fell significantly on the month. 2.64 million persons were registered as unemployed with the Federal Employment Agency, 17,000 fewer than in November. The unemployment rate remained at 6.0%. Compared with the same month one year earlier, 113,000 fewer persons were out of work, and the unemployment rate was 0.3 percentage point lower. Total underemployment (excluding short-time work), which also includes persons taking part in labour market policy measures, rose only marginally in December. This was preceded by a clear rise in underemployment using the Federal Employment Agency's definition in connection with measures to integrate refugees into the German labour market. According to the IAB labour market barometer, official unemployment could continue to fall slightly over the next few months.

Brent crude on a monthly average. This represents a month-on-month increase of more than 15%. Owing to the distinct decline in prices in December 2015, the annual percentage growth even shot up from 4% to more than 40%. As this report went to press, the price of a barrel of Brent crude oil stood at US\$55. The premium on crude oil futures was US\$2 for deliveries six months ahead and only slightly higher for deliveries 12 months ahead.

Import and producer prices continued their ascent at the end of the year. Although energy prices were up only marginally up until November,¹ the prices of other goods rose sharply, notably at the import level. Overall, prices were up on the year. Import prices were up by +0.3%on the year in November and industrial producer prices by 1.0% in December (November +0.1%).

Consumer prices recorded a steep rise of 0.5% in December in seasonally adjusted terms according to the national consumer price index (CPI). Prices for mineral oil products went up very significantly on the back of rising crude oil prices. Prices of services showed a clear increase on the month owing to a notable hike in prices for package holidays. Rents, by contrast, increased only moderately, and prices for food and other goods remained virtually unchanged. Overall, year-on-year inflation increased from +0.8% as measured by the national CPI and from +0.7% as defined by the Harmonised Index of Consumer Prices (HICP) to +1.7% in each case. This was also due to the marked decline in prices in December 2015. Inflation was still muted (CPI +0.5% and HICP +0.4%) on average for 2016. Given the recent clear rise in daily average prices for mineral oil products, inflation could climb to just over +2% in January.

Prices

Clear increase in crude oil prices

After OPEC and other countries had agreed to cut oil production, crude oil prices rose considerably at the beginning of December 2016 and reached a level of just over US\$55 per barrel of Sharp increase in import and producer prices excluding energy

Steep rise in consumer prices

¹ At the import level, data are currently only available for November, a month in which crude oil prices had not yet increased. Data are already available for December at the industrial producer level, but the recent price surge only had a limited impact on account of the low weighting of oil.

Public finances²

Local government finances

Further budget deterioration in Q3 amidst clear revenue growth ... Local government core budgets and off-budget entities ran a small cash surplus in the third quarter of 2016, having posted a surplus of just over €1 billion a year earlier. Revenue continued to rise considerably (by 51/2%, or just over €3 billion). Tax receipts increased by 3% (€1/2 billion), driven primarily by growth of just over 5% in revenue from local business tax (after deducting the shares accruing to other government levels). However, as in the previous quarter, the rise in transfers from state government - not least in connection with support for refugees - was still far stronger and more influential (91/2%, or €2 billion). Also noteworthy was the rise of 9% (€1/2 billion) in receipts from fees, which was largely due to a special effect in North Rhine-Westphalia.³

... due to even stronger rise in expenditure At just over 71⁄2%, or €41⁄2 billion, growth in expenditure was much stronger than that in revenue. Once again, the large increase in spending on social benefits made a particularly strong impact (11%, or €1½ billion). Given the substantial drop in refugee migration in 2016 and progress made in processing asylum applications,⁴ outlays on benefits for asylum seekers fell somewhat on the quarter but were still up by a sizeable 75% ($\in \frac{1}{2}$ billion) on the year. Spending on assistance for young people housed in welfare facilities, which notably includes benefits for unaccompanied refugee minors, grew by one-quarter (just under €1/2 billion). In addition, outlays on social assistance rose considerably (by 5½%, or just under €½ billion), whilst expenditure on accommodation for recipients of unemployment benefit II remained more or less stagnant. Other operating expenditure increased by 61/2% (almost €1 billion). The impetus from refugee migration appeared to abate here too. At just below 61/2% (€1 billion), year-on-year growth in personnel expenses was much stronger than in the previous guarters. The effects of the agreed 21/2% increase in negotiated rates of pay were probably markedly augmented by back payments for the preceding months. At 5½% (just under €½ billion), the rise in fixed asset formation had slowed down but remained significant.

In the first three quarters combined, local government's budget balance thus deteriorated by €3 billion compared with the same period a year earlier. However, this downward trend may have come to an end in the final quarter for two reasons: first, the budgetary burdens associated with refugee migration were already relatively large a year earlier and, second, central and state government's cost assumption measures were probably making a greater impact by then. However, tax refunds due to previous court rulings were expected to curtail tax revenue in the final quarter. Nonetheless, local government may still have achieved a broadly balanced budget for 2016 as a whole.

As things stand, budgetary burdens resulting from refugee migration are likely to decline in 2017. Irrespective of this, financial assistance from central government will be increased by a further $\leq 11/2$ billion. From 2018 onwards, the funds granted since 2015 will be replaced by the permanent financial relief package for local government (\leq 5 billion), which has now been adopted and will result in an additional $\leq 21/2$ billion net for local government compared with 2017. Consequently, a marked improvement in local government finances is expected from this year onwards, with a return to perceptible surpluses. In addition, the relief measures

After deterioration in 2016, ...

... outlook much brighter

² In the short commentaries on public finances, the emphasis is on recent outturns. The quarterly editions of the Monthly Report (published in February, May, August and November), by contrast, contain a detailed description of public finance developments during the preceding quarter. For detailed data on budgetary developments and public debt, see the statistical section of this report. A more detailed analysis of the longer-term development of local government finances can be found in Deutsche Bundesbank, Local government finances: Development and selected aspects, Monthly Report, October 2016, pp 13-36.

³ New entities were evidently added to the reporting group in this state. For the same reason, there is likely to have been a marked acceleration in expenditure growth too.

⁴ Once asylum has been granted, expenditure on refugees is largely covered by central government (basic allowance).

Increase in the public sector's

capital market

debt

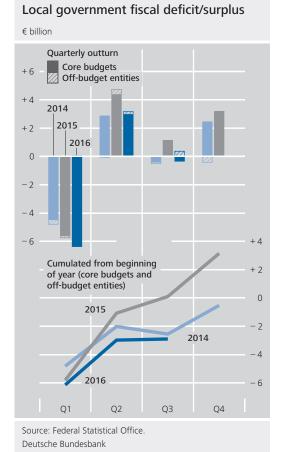
should also result in greater fixed asset formation by local government. The fund to promote municipal investment, which is set to increase by a further $\leq 3\frac{1}{2}$ billion, should also contribute to this.

Debt rose slightly in Q3 In the reformed debt statistics,⁵ local government (including its off-budget entities) recorded a debt level of €150 billion⁶ at the end of the third guarter of 2016. While the amount of cash advances outstanding (€511/2 billion)7 fell slightly, other liabilities grew by just under €1 billion. However, there might have been mere shifts between the debt categories, as was evidently the case with past local government bond issuances in North Rhine-Westphalia. For some years now, Saarland, Rhineland-Palatinate, North Rhine-Westphalia and Hesse have recorded particularly large local government cash advances for their municipalities on aggregate. A marked easing of the situation, although desirable, was not yet in sight in the third quarter - indeed, Saarland actually reported another perceptible increase in this type of debt.

Securities markets

Bond market

Low net sales in the German bond market In November 2016, gross issuance in the German bond market stood at \in 75.5 billion, lagging behind the previous month's figure of \notin 97.5 billion. Nonetheless, after taking account of redemptions, which were also down (\notin 71.5 billion), and changes in issuers' holdings of their own debt securities, the outstanding volume of domestic bonds rose slightly by a net \notin 2.4 billion, after having contracted by \notin 6.4 billion in October. By contrast, the outstanding volume of foreign debt securities in the German market fell by \notin 2.3 billion, which meant that the outstanding volume of domestic and foreign debt securities in Germany increased by just \notin 0.1 billion on balance.



The public sector issued own bonds totalling €8.0 billion net in the reporting month, with central government increasing its capital market debt by €6.7 billion on balance. It issued mainly ten-year Federal bonds (Bunds) and two-year Federal Treasury notes (Schätze) in the amount of €4.7 billion and €4.6 billion respectively. It also sold five-year Federal notes (Bobls) to the tune of €0.6 billion, while redeeming 30-year bonds worth €0.3 billion net. State governments issued bonds with a net value of €1.3 billion.

German credit institutions reduced their capital market debt by €5.2 billion in November. Most

⁵ The Federal Statistical Office's press release of 28 September 2016 states that the reporting group in the quarterly statistics was aligned to that in the annual statistics from 2016 onwards. The new quarterly results are also marked as provisional.

⁶ Debts owed to third parties, ie all public and non-public sector lenders apart from other municipalities and municipal special-purpose associations.

⁷ According to the new statistics, this includes just under €2 billion from the public sector.

Sales and purchases of debt securities

£	hill	lion
て	DII	IIUII

	2015	2016	
	2015	2016	
Item	November	October	November
Sales			
Domestic debt securities ¹ of which	- 2.2	- 6.4	2.4
Bank debt securities Public debt securities	– 14.3 13.9	0.6 – 10.3	- 5.2 8.0
Foreign debt securities ²	1.3	- 2.7	- 2.3
Purchases			
Residents Credit institutions ³ Deutsche	5.8 3.3	10.7 - 7.6	14.4 - 2.5
Bundesbank Other sectors ⁴ of which Domestic debt	12.8 - 10.3	17.3 1.1	18.7 - 1.8
securities	- 6.2	0.0	1.7
Non-residents ²	- 6.6	- 19.8	- 14.2
Total sales/purchases	- 0.8	- 9.0	0.1

1 Net sales at market values plus/minus changes in issuers' holdings of their own debt securities. 2 Transaction values. 3 Book values, statistically adjusted. 4 Residual. Deutsche Bundesbank

Net redemptions by credit institutions notably, the outstanding volume of debt securities issued by specialised credit institutions (which include public promotional banks, for example) fell by \in 3.4 billion on balance. There were also net redemptions of public Pfandbriefe as well as other bank debt securities that can be structured flexibly (\notin 1.8 billion and \notin 1.1 billion respectively). By contrast, mortgage Pfandbriefe worth \notin 1.1 billion net were issued.

Minor reduction in enterprises' capital market debt Domestic enterprises also scaled back their capital market debt in November (by €0.4 billion). On balance, this decrease is mainly due to net redemptions of commercial paper.

Purchases of debt securities

The Bundesbank was ultimately the sole buyer of debt securities in November, acquiring bonds in the amount of ≤ 18.7 billion net under the Eurosystem's asset purchase programmes, amongst other things. The main sellers of debt securities were foreign investors, who disposed of a net ≤ 14.2 billion worth of such instruments. However, German credit institutions and domestic non-banks likewise offloaded debt securities worth €2.5 billion and €1.8 billion net respectively. While the credit institutions chiefly parted with German securities, the non-banks exclusively sold foreign securities.

Equity market

In the month under review, new shares totalling $\in 0.7$ billion net were issued in the German equity market, the majority of which emanated from listed enterprises. Sales of foreign shares in Germany amounted to $\in 3.2$ billion in the same period. Domestic non-banks dominated the buyers' side of the market, adding shares worth $\in 3.2$ billion net to their portfolios. Resident credit institutions acquired equities in the amount of $\notin 0.7$ billion net, whereas nonresident investors sold domestic shares worth $\notin 0.1$ billion.

Mutual funds

Domestic mutual funds recorded inflows of €11.1 billion in November. Specialised funds reserved for institutional investors were the main beneficiaries (€9.0 billion). Of the various asset classes, mixed securities funds attracted the most investment (€5.6 billion). Funds of funds, real estate funds and equity funds also sold shares (€1.9 billion, €1.7 billion and €1.5 billion respectively). Meanwhile, foreign mutual funds recorded redemptions of €0.8 billion net in the German market. On balance, domestic nonbanks were the sole purchasers of mutual fund shares in the reporting month (\in 12.8 billion). German credit institutions redeemed shares for €0.6 billion net, and foreign investors offloaded mutual fund shares worth €1.1 billion net.

Balance of payments

Germany's current account recorded a surplus of €24.6 billion in November 2016, putting it €5.2 billion above the October level. This was Net issuance in the German equity market

German mutual funds record inflows

Rise in current account surplus partly driven by an increase in the goods account surplus and a boosted invisible current transactions balance comprising services as well as primary and secondary income.

Higher goods account surplus In November, the surplus on the goods account was up on the month by \in 3.2 billion to \in 24.3 billion, with exports rising more strongly than imports.

Improved balance of invisible current transactions Invisible current transactions recorded a modest $\in 0.3$ billion surplus in November, compared with a deficit of $\in 1.7$ billion one month earlier. This turnaround was mainly due to a halving of the services account deficit by $\in 1.8$ billion to $\in 1.8$ billion, which in turn was principally attributable to the downturn in travel expenditure typical for this time of year. Moreover, net receipts in the primary income item saw a slight rise of $\in 0.4$ billion to $\in 6.1$ billion, whereas the secondary income deficit went up marginally by $\in 0.2$ billion to $\notin 4.0$ billion.

Foreign investors drive capital exports in portfolio investment In November, events on the international financial markets were dominated by the outcome of the US elections as well as expectations that the US Federal Reserve would raise rates in December, which is indeed what happened. All in all, German cross-border portfolio investment generated net capital exports of €14.9 billion, mainly on account of further disposals of German securities by foreign holders (€15.5 billion in November after €16.2 billion in October). These investors chiefly sold German money market paper worth €13.6 billion in net terms. They also parted with mutual fund shares (€1.1 billion) and bonds (€0.7 billion). By contrast, resident investors shed only a small amount of foreign securities from their portfolios (€0.6 billion). They sold debt securities (€2.3 billion) and mutual fund shares (€0.8 billion), while bolstering their holdings of foreign shares by €2.5 billion.

Capital exports also recorded for direct investment ... Direct investment continued to record net capital exports in November, though down on the month from ≤ 16.0 billion to ≤ 2.3 billion. In the main, these outflows arose from intensified for-

Major items of the balance of payments

€ billion

€ billion				
	2015	2016		
Item	Nov	Oct	Novp	
I Current account 1 Goods ¹ Exports (fob) Imports (fob) <i>Memo item</i>	+ 24.9 + 22.2 101.5 79.3	+ 19.4 + 21.1 100.7 79.6	+ 24.6 + 24.3 108.1 83.8	
Foreign trade ² Exports (fob) Imports (cif) 2 Services ³ Receipts Expenditure 3 Primary income Receipts Expenditure 4 Secondary income	+ 20.5 102.7 82.2 - 1.7 19.3 21.1 + 6.9 15.5 8.6 - 2.5	+ 19.4 101.6 82.2 - 3.7 20.7 24.4 + 5.7 14.7 9.0 - 3.8	+ 22.6 108.5 85.8 - 1.8 20.6 22.5 + 6.1 15.0 8.9 - 4.0	
II Capital account	+ 0.2	- 0.2	- 0.1	
III Financial account (increase: +) 1 Direct investment Domestic investment abroad	+ 20.1 + 14.8 + 20.1	+ 28.2 + 16.0 + 9.4	+ 30.5 + 2.3 + 9.1	
Foreign investment in the reporting country 2 Portfolio investment Domestic investment	+ 5.3 + 10.9	- 6.6 + 21.7	+ 6.8 + 14.9	
in foreign securities Shares ⁴ Investment fund	+ 6.6 + 4.2	+ 5.5 + 1.6	- 0.6 + 2.5	
shares ⁵ Long-term debt	+ 1.1	+ 6.5	- 0.8	
securities ⁶ Short-term debt	+ 0.1	- 1.6	- 1.9	
securities ⁷ Foreign investment	+ 1.2	- 1.1	- 0.5	
in domestic securities Shares 4	- 4.2 + 3.3	- 16.2 + 3.4	- 15.5 - 0.1	
Investment fund shares	+ 3.3 - 0.9	+ 0.1	- 1.1	
Long-term debt securities ⁶ Short-term debt	+ 4.0	- 12.9	- 0.7	
securities ⁷	- 10.6	- 6.8	- 13.6	
 Financial derivatives⁸ Other investment⁹ 	+ 4.2 - 9.1	+ 4.4 - 13.8	+ 5.2 + 8.0	
Monetary financial institutions ¹⁰	- 25.4	+ 4.4	- 25.3	
<i>of which</i> Short-term Enterprises and	- 13.7	- 1.3	- 36.4	
households11 General government Bundesbank	- 0.4 + 3.5 + 13.2	- 9.4 - 5.9 - 2.8	+ 2.4 - 3.9 + 34.8	
5 Reserve assets ¹²	- 0.5	- 0.1	+ 0.1	
IV Errors and omissions ¹³	- 4.9	+ 8.9	+ 6.0	

1 Excluding freight and insurance costs of foreign trade, 2 Special trade according to the official foreign trade statistics (source: Federal Statistical Office). 3 Including freight and insurance costs of foreign trade. 4 Including participation certificates. 5 Including reinvestment of earnings. 6 Long-term: original maturity of more than one year or unlimited. 7 Short-term: original maturity of up to one year. 8 Balance of transactions arising from options and financial futures contracts as well as employee stock options. 9 Includes in particular loans and trade credits as well as currency and deposits. 10 Excluding the Bundesbank. 11 Includes the following sectors: financial corporations (excluding monetary financial institutions) as well as non-financial corporations, households and non-profit institutions serving households. 12 Excluding allocation of special drawing rights and excluding changes due to value adjustments. 13 Statistical errors and omissions, resulting from the difference between the balance on the financial account and the balances on the current account and the capital account. Deutsche Bundesbank

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> eign investment on the part of domestic companies (€9.1 billion), with around two-thirds of this outlay being spent to boost equity capital abroad. These firms also channelled funds to their foreign subsidiaries through intra-group lending, relying almost exclusively on trade credits to do so. Conversely, there was a trend reversal in foreign enterprises' funding of their affiliates in Germany inasmuch as these nonresident firms provided their affiliates with funds to the tune of €6.8 billion, after having reduced such funding by roughly the same amount one month previously. The bulk of these funds were distributed using intra-group loans (€6.1 billion), primarily in the form of financial loans from fellow affiliated companies.

Ultimately, net capital exports (€8.0 billion) ... and other investment were also recorded for other statistically recorded investment, comprising loans and trade credits (where these do not constitute direct investment) as well as bank deposits and other investments. However, non-banks recorded net inflows of funds (€1.5 billion). Capital imports recorded by general government (€3.9 billion) contrasted with capital exports on the part of enterprises and households (€2.4 billion). In contrast to this, monetary financial institutions (including the Bundesbank) recorded net capital outflows (€9.5 billion), not least thanks to the €34.8 billion rise in the Bundesbank's net claims on non-residents. This in turn was mainly the result of an increase in claims within its large-value payment system TARGET2 (+€46.0 billion), the highest increase since January 2015. By contrast, there was an upturn in the volume of other central banks' sight deposits held with the Bundesbank (€11.3 billion). Conversely, banks' transactions, notably steps taken to whittle down their deposits with foreign counterparties, led to net capital imports (€25.3 billion net).

The Bundesbank's reserve assets went up Reserve assets slightly – at transaction values – by €0.1 billion in November.

The Eurosystem's bond purchases and the exchange rate of the euro

In January 2015, the Governing Council of the ECB announced an expanded asset purchase programme (APP) and thereafter twice extended its duration besides increasing the monthly volume of purchases. The aim of the programme is to bring inflation in the euro area back up to rates that are below, but close to, 2% over the medium term. Theoretical considerations suggest that there are a number of mechanisms through which asset purchases should be instrumental in achieving the desired effect. These mechanisms are aimed directly at investors' portfolio decisions and market players' monetary policy expectations; the relevant adjustments may also indirectly involve a depreciation of the euro.

Against this background, the present article is concerned with the impact of the Eurosystem's bond purchases on the euro's exchange rate. To this end, we first look at how the exchange rate responded on the dates on which the Governing Council of the ECB took its decisions on the asset purchase programme. In this context, the considerable depreciation of the euro on the day the APP was adopted is particularly striking; a larger daily fall in the euro's effective exchange rate had been recorded only once previously.

This is all the more notable considering that market expectations about such measures had already led to the euro depreciating in the preceding weeks. There are, however, numerous inherent difficulties in quantifying the effects that changes in expectations about the APP had on the euro's exchange rate. For example, a depreciation of the euro tends to reflect not only the quantitative easing of the Eurosystem, but also its standard policy measures as well as the gradual tightening of the monetary policy stance in the United States during the same period. A study conducted at the Bundesbank attempts to take into account the aspects raised as far as possible; this identifies a 4.7% depreciation in the nominal effective exchange rate of the euro and a 6.5% depreciation of the euro against the US dollar since 2014 as the aggregate effect of direct and expectation formation-related market reactions to the decisions taken by the ECB Governing Council on purchasing government bonds.

Besides the effects of the decisions to buy assets and related expectations, this article considers the potential exchange rate effects of the Eurosystem's actual purchase operations. To do this, the report presents two alternative empirical studies. Both are consistent in concluding that the Eurosystem's asset purchases themselves have not achieved any significant additional exchange rate effects beyond the cited announcement effects and corresponding expectations.

The Eurosystem's asset purchase programmes since autumn 2014

Buying asset-backed securities and covered bonds

Given repeated negative surprises with regard to the rate of inflation and declining inflation expectations in the euro area, in September 2014 the Governing Council of the ECB began taking step-by-step measures that can be summarised under the heading of "quantitative easing".1 First, it announced the asset-backed securities purchase programme (ABPSPP) and the third covered bond purchase programme (CBPP3).² The net volumes of the securities acquired by the Eurosystem on the basis of these two programmes were still relatively small with monthly totals of between €1.1 billion and €13.6 billion.

Expanded asset purchase programme (APP)

In January 2015, the Governing Council of the ECB adopted the expanded asset purchase programme (APP), which comprised the public sector purchase programme (PSPP) in addition to CBPP3 and ABSPP. Given the large volume and the liquidity of the outstanding sovereign bonds, the PSPP allowed the Eurosystem to greatly expand its purchases of securities. It was initially planned that purchases under the APP would have a monthly volume of €60 billion. The programme was originally scheduled to last until September 2016 with purchases totalling €1,140 billion; in December 2015, the period was extended until March 2017, raising the intended overall volume of the programme by €360 billion. In March 2016, the monthly purchases were raised to €80 billion, which expanded the overall volume of the programme by a further €240 billion. Besides the asset classes that were already eligible, the programme now also made provision for buying bonds issued by non-bank corporations. Finally, in December 2016, a further extension of the programme's duration with monthly purchases of €60 billion between April and December 2017 was announced. This represented an additional increase of €540 billion in the intended volume of purchases.

Transmission channels of quantitative easing via the exchange rate

Impact of the

price stability

programmes on

also contingent on the reaction

of the exchange

Portfolio rebalancing channel

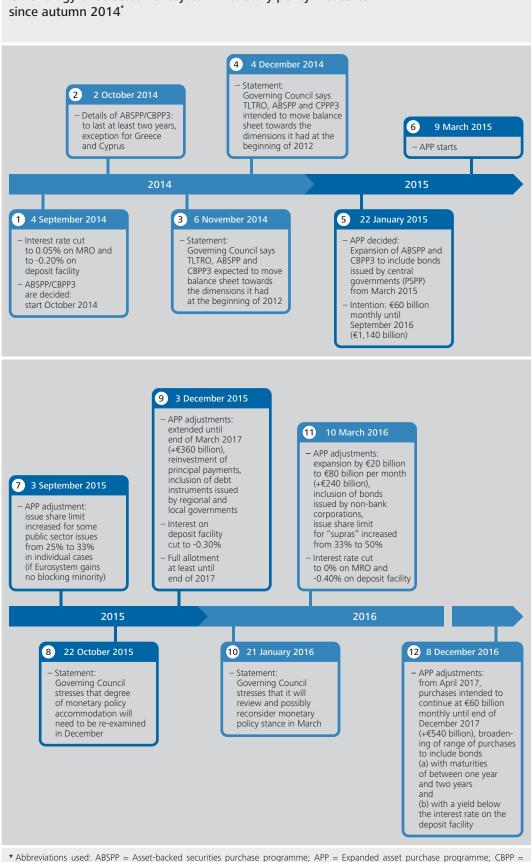
rate

The Eurosystem's asset purchase programmes cited above were adopted with the aim of bringing price developments in the euro area into line with the Governing Council's definition of price stability. How far this goal is achieved depends in part, however, on how and how strongly the euro's exchange rate reacts to the measures taken; this is because a depreciation of the euro increases the prices of imported goods, thus placing upward pressure on prices in the euro area, whereas an appreciation of the euro tends to dampen domestic inflationary pressure. Theoretically, there are various conceivable mechanisms through which quantitative easing by the Eurosystem can influence the euro's exchange rate.

One of these mechanisms is the portfolio rebalancing channel. This posits that domestic and foreign securities are not regarded as being entirely identical (substitutable) in the eyes of investors in terms of their risk content, say, or their liquidity. Under this assumption, a bond purchase by a country's home central bank leads not only to a reduction in the bonds held in the domestic private sector, but also to an increase in the price/decline in the yield of these securities. This will prompt investors to adjust their portfolios by acquiring inter alia foreign bonds, thereby generating net outflows

¹ A more detailed description of the Eurosystem's nonstandard measures since mid-2014 is provided by Deutsche Bundesbank, The macroeconomic impact of quantitative easing in the euro area, Monthly Report, June 2016, pp 29-53

² There had already been various Eurosystem asset purchase programmes in earlier years as part of the monetary policy response in coping with the financial, economic and sovereign debt crisis, but their volumes were comparatively small. These include covered bond purchase programmes 1 and 2 (CBPP1 und CBPP2) as well as the securities markets programme (SMP).



Chronology of selected Eurosystem monetary policy measures

* Abbreviations used: ABSPP = Asset-backed securities purchase programme; APP = Expanded asset purchase programme; CBPP = Covered bond purchase programme; MRO = Main refinancing operation; PSPP = Public sector purchase programme; TLTRO = Targeted longer-term refinancing operations.

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of capital which, in turn, bring about a depreciation of the domestic currency.³

Any issuing activity weakens exchange rate effect The described sequence of events makes it clear that the portfolio adjustment in question and the resulting depreciation of the domestic currency is initiated only if there is sufficient scope for a corresponding reduction in the yield. Declining yields, in turn, set incentives for the issuers to expand their debt and borrow additional funds through new issues. If such a reaction occurs,⁴ the decline in the yield and, therefore, the effect on the exchange rate is weakened.

The signalling channel is a further mechanism Signalling channel through which asset purchases can impact on the exchange rate. This channel operates in such a way that market players could construe the announcement of guantitative easing as a signal that the monetary policy stance is going to remain expansionary for longer than previously expected and that future money market rates, too, will therefore stay low for longer. This, in turn, would bring current capital market rates under pressure. Much like with the portfolio rebalancing channel, such developments would tend to provoke net outflows of capital and a depreciation of the domestic currency.

Besides the two channels already mentioned, a Other channels further mechanism is occasionally cited, which is also known as the "confidence channel".5 This posits that the central bank's announcement of asset purchases can also have an impact on investors' attitude towards risk. As a result of such an announcement, for example, the view that the outlook for growth at home is less favourable than hitherto supposed might gain ground among market participants.⁶ This would lead to a rise in risk premiums. Conversely, in a setting where heightened uncertainty already exists, the central bank's measures might strengthen investors' confidence, thus lowering the risk premium. This lastnamed effect could, all other things being equal, provoke inflows of capital, thus weakening the depreciation of the domestic currency induced through the other channels.

For quantitative easing actually to lead to the theoretically expected depreciation of the domestic currency, it is necessary for the trading partners also to allow a corresponding appreciation of the partner currencies. They might try to neutralise the expected capital inflows with their own expansionary – standard or nonstandard – monetary policy measures or even introduce or strengthen capital controls. De-

Monetary policy measures by partner countries can reduce exchange rate reactions

4 In actual fact, the Eurosystem's eligible assets database shows, for instance, that the outstanding volume of bonds issued by central governments in the euro area showed a net rise of €405 billion between the end of 2014 and mid-2016. More than €300 billion of this was due to net issuance by Italy, France and Spain. This contrasts with a volume of government bonds purchased under the PSPP in the total cumulative amount of €885 billion over the same period. This suggests that the programme's foreseeable effects on the yield and the exchange rate as a result of portfolio adjustments would have been perceptibly greater without this net issuance. In this connection, the German Council of Economic Experts writes in its annual report (Jahresgutachten) 2016, p 212, "Bei niedrigen Zinsen ergibt sich ein Anreiz, den Konsolidierungsprozess aufzuschieben. So könnten die bisherigen Zinssenkungen bereits zu höher als geplanten staatlichen Ausgaben beigetragen haben ... ["With low interest rates, there is an incentive to postpone the consolidation process. The interest rate cuts so far could already have contributed to public expenditure being higher than planned ...".] The ECB Financial Stability Review, November 2016, p 31, states: " ... fiscal reform efforts appear to have lost momentum as urgency has dwindled amid low sovereign financial market stress.

5 See M Fratzscher, M Lo Duca and R Straub (2013), On the international spillovers of US quantitative easing, ECB Working Paper 1557, as well as M Fratzscher, M Lo Duca und R Straub (2016), ECB unconventional monetary policy: market impact and international spillovers, IMF Economic Review 64, pp 36-74.

6 Such a reaction is discussed, for example, in connection with the US Federal Reserve's first asset purchase programme in 2008 and 2009, but is found not to be substantiated. See C J Neely (2011), The large-scale asset purchases had large international effects, Federal Reserve Bank of St. Louis Working Paper 2010-018C.

³ The Governing Council of the ECB was also quick to point out such portfolio rebalancing effects having an impact on the exchange rate; as, for instance, ECB President Draghi said at the Frankfurt European Banking Congress on 21 November 2014, "Substitution of assets can also take place across jurisdictions, which would take the form of investors rebalancing portfolios away from eurodenominated assets towards other jurisdictions and currencies providing higher yields. For example, there is evidence that both the various Large Scale Asset Purchase programmes of the Fed as well as the Bank of Japan's Quantitative and Qualitative Easing programme led to a significant depreciation of their respective exchange rates, even in a situation in which long-term yields were already very low, as in Japan."

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fensive measures of this kind are often motivated by the worry that the appreciation of their currency could impair their economy's price competitiveness or exert a deflationary impulse. If the partner currency is pegged to the euro by a fixed exchange rate, the foreign central bank is bound - on institutional grounds alone - to undertake foreign exchange interventions in order to prevent an appreciation of its currency. Monetary easing measures in partner countries that are adopted in the same period as the Eurosystem's asset purchase programmes do not necessarily have to be understood as a response to them. Global developments such as a fall in oil prices which - via second-round effects - lead to the outlook for inflation deviating worldwide from the intended target, may make expansionary policy measures seem advisable in different currency areas independently of each other.

Exchange rate reactions on the day the Eurosystem decides on the public sector asset purchase programme

Effective exchange rate of the euro based on euro foreign exchange reference rates As information that has a bearing on exchange rates can be processed quite rapidly on the foreign exchange markets, it is to be expected that Governing Council decisions on purchasing assets are reflected in marked exchange rate movements almost as soon as they are announced. To measure this effect, the rate of change in the nominal effective exchange rate of the euro over a period of one day is often used; this is calculated as a trade-weighted average of nominal bilateral rates between the euro and a large number of other currencies. The European Central Bank fixes the euro foreign exchange reference rates on every trading day based on a point-in-time snapshot at 14.15 CET. When the decisions of the Governing Council are made public at the press conference, which starts at 14.30 following the Governing Council meeting, the time until the reference rate is determined on the next day therefore spans a period of almost 24 hours.

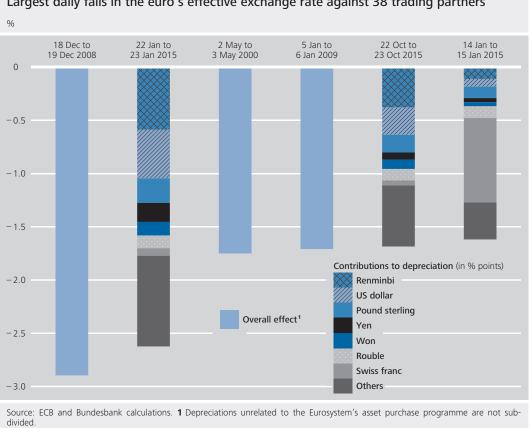
A comparison of the daily rates of change in the euro's effective exchange rate does indeed suggest that information connected with the Eurosystem's asset purchase programme can quite obviously trigger substantial exchange rate reactions over the short term. This is evident alone from the fact that, of the six largest daily falls in the euro's effective exchange rate against the currencies of 38 trading partners since the euro was launched in 1999, three are closely related to the APP.⁷ For example, the euro's effective exchange rate fell by 1.7% between 22 October 2015 and the following day after the Governing Council announced that the degree of monetary policy accommodation would need to be re-examined at the December monetary policy meeting. This announcement was construed in the markets as hinting at a forthcoming monetary policy easing, perhaps also by means of marked expansion of the purchase programme. The effective exchange rate of the euro underwent a fall of a similar magnitude of 1.6% between 14 and 15 January 2015 when the Swiss National Bank discontinued the minimum rate of the Swiss franc against the euro in anticipation of the ECB Governing Council initiating a large-scale asset purchase programme.

However, the euro's effective exchange rate sustained a very heavy loss – of 2.6%, its second-largest loss ever – on the day the Governing Council announced the APP, ie between 22 and 23 January 2015. This strong depreciation of the euro's effective exchange rate resulted from broadly based losses against a large number of partner currencies. The currencies which have the highest weight in calculating the effective exchange rate of the euro are largely identical with those that played the largest part in the depreciation. This suggests that events outside the euro are hardly likely to have

7 Two further falls, including the largest ever effective daily decline in the history of the euro at 2.9%, occurred at the height of the global financial and economic crisis in late 2008 and early 2009; finally, a further fall can be noted during the period of widespread scepticism about what was then still the new euro currency in spring 2000.

Of the six largest daily falls in the euro's effective exchange rate since 1999, three are closely related to the APP

Broad-based euro depreciation on the day of the APP decision ...



Largest daily falls in the euro's effective exchange rate against 38 trading partners

Deutsche Bundesbank

contributed to the fall in the effective exchange rate.

... was particularly pronounced against non-European currencies ...

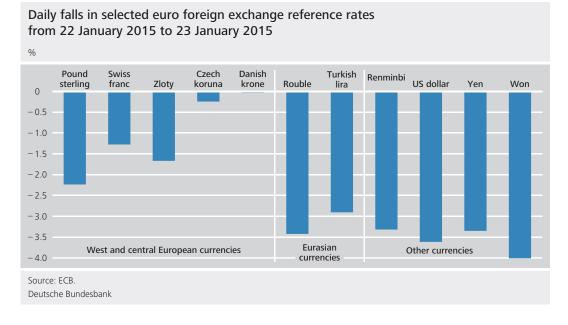
Even so, the euro by no means depreciated uniformly against different currencies. The euro's daily loss against the US dollar amounted to 3.6%, for example, which means that 22 to 23 January 2015 also saw the euro's secondlargest daily depreciation in its bilateral exchange rate against the US dollar since the single currency was introduced. Against the currencies of other major trading partners from outside Europe and Eurasia (China, Japan, Russia, South Korea and Turkey), the euro likewise depreciated by between 2.9% and 4.0%.

... but disproportionately small against west and central European currencies

Against west and central European currencies (the euro area's most important trading partners: the Czech Republic, Denmark, Poland, Switzerland and the United Kingdom), by contrast, the depreciation was consistently weaker. This was partly due to the fact that some European countries, such as Denmark, as members of ERMII, peg their currencies to the euro and allow only very narrow fluctuations against it. The authorities of other countries intervened in the foreign exchange markets on a more or less discretionary basis against their own currencies, thus preventing them from appreciating against the euro. Finally, the high degree of economic integration within Europe may be accompanied by a stronger co-movement of the currencies concerned. This can be explained, say, by economic cycles within Europe being more synchronised than they are globally or by the national monetary policies of other European countries following the lead set by Eurosystem monetary policy.

The extremely sharp depreciation of the euro on the day when the APP was announced, when set in the context of other times, can be compared with the exchange rate reactions when asset purchase programmes are adopted in other major currency areas. Both the Federal Reserve and the Bank of England initiated pro-

Similar exchange rate reactions to decisions on government bond purchases in other currency areas

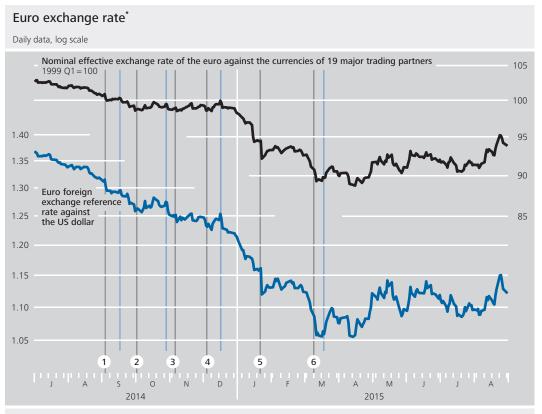


grammes to make large-scale purchases of assets for the first time in March 2009.⁸ The US dollar's effective exchange rate fell by 2.3% on 18 March 2009, the day the decision was announced.⁹ As early as 5 March 2009, the Bank of England announced its decision to use the asset purchase facility. In this instance, too, there was a marked depreciation, ie a fall of 2.5% in the pound sterling's effective exchange rate, albeit only with the rate of change from the following day onwards.¹⁰ Thus, the depreciation of the euro following the APP decision is within the range also observed in other currency areas in connection with decisions to purchase assets.

How the euro reacted to decisions to expand asset purchases Since asset purchases under the APP commenced on 9 March 2015, the programme has been expanded considerably on three occasions, as mentioned above. The corresponding decisions were taken at the Governing Council meetings dated 3 December 2015, 10 March 2016 and 8 December 2016. The first two decisions concerned packages of measures which, besides expanding the APP, comprised a further cut in policy rates as well as additional nonstandard measures. Nevertheless, the effective exchange rate of the euro was markedly higher one day after each of these decisions (by 1.6% and 1.5% respectively), whereas it was down by 1.2% one day after the Governing Council meeting in December 2016. However, for the March date, it should be borne in mind that the Governing Council's monetary policy deci-

⁸ As early as November 2008, however, the Fed had taken a decision to initiate a programme to purchase large volumes of mortgage-backed securities and direct obligations of housing-related government-sponsored enterprises. 9 In order to improve comparability, the effective exchange rate of the US dollar is calculated here against the same broad range of currencies that is used to determine the effective exchange rate of the euro. As the decisions of the Federal Open Market Committee have generally been released, since March 2013, at 14.00 Eastern Standard Time (Eastern Daylight Time), which corresponds to 20.00 Central European Time (Central European Summer Time), the observation period of just under 24 hours is reduced by roughly one-quarter when using euro foreign exchange reference rates. On the financial market effects of the first US asset purchase programme, see, for example, J Gagnon, M Raskin, J Remache and B Sack (2011), The financial market effects of the Federal Reserve's large-scale asset purchases, International Journal of Central Banking 7(1), pp 3-43; the exchange rate reactions are analysed inter alia in CJ Neely (2015), Unconventional monetary policy had large international effects, Journal of Banking and Finance 52, pp 101-111.

¹⁰ The rate of change amounting to -2.5% is calculated in turn from the effective exchange rates of the pound sterling against the same basket of currencies on Friday 6 March and on Monday, 9 March 2009. From 5 March to 6 March, a 0.3% appreciation of the pound sterling was recorded. Even if the depreciation of the pound sterling up to 9 March was due entirely to the Bank of England's monetary policy decisions on 5 March, a qualification that has to be borne in mind is that, simultaneously with the decision on the asset purchase facility, there was a 1/2 percentage point cut in the Bank of England's base rate. A detailed account of the financial market effects of quantitative easing in the United Kingdom may be found, for example, in MAS Joyce, A Lasaosa, I Stevens and M Tong (2011), The financial market impact of quantitative easing, International Journal of Central Banking 7(3), pp 113-161.



Source for the time series: ECB. * The vertical grey lines indicate selected days on which monetary policy easing measures by the Eurosystem were recorded (see chart on p 15). The vertical light blue lines indicate selected days on which monetary policy tightening measures by the Federal Reserve Board were recorded. Deutsche Bundesbank

sions regarding the asset purchase programme - unlike in the past - had already been made public in a press release at 13.45, ie before the euro foreign exchange reference rates were determined at 14.15.11 In the intervening halfhour, ie as an immediate response to the press release, the euro depreciated against major currencies. Yet even for the rate of change over two days (from 9 to 11 March 2016) there was still a 0.6% appreciation in the euro's effective exchange rate.12 What would appear, at first glance, to be a counter-intuitive response by the exchange rate to quantitative easing can be explained, at least in part, by the fact that market participants had already been expecting expansionary measures from the Governing Council, with the impact on the euro being dictated by how far the actual measures taken differed from the previously-held expectations.

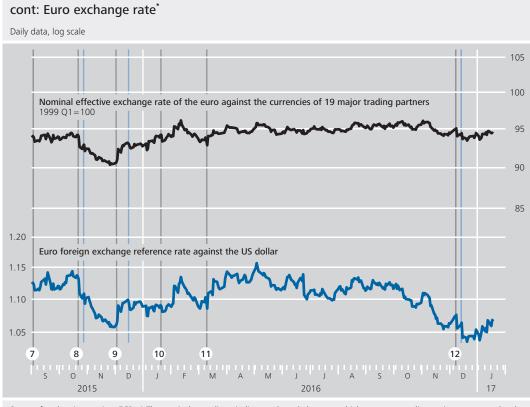
Expectation and announcement effects

Neither the decision on the APP dated 22 January 2015 nor the three aforementioned decisions to expand the programme came as a complete surprise to foreign exchange market participants. Indeed, comments by Governing Council members in the weeks leading up to said dates, in particular, induced market participants to expect a more or less substantial eas-

Expectation effects need to be considered when determining the APP's overall impact on the euro

¹¹ Previous to this date, the substance of press releases had been confined to policy rate decisions by the Governing Council. Press releases thus contained no information on non-standard monetary policy measures. Similarly, the decision dated 8 December 2016 to extend the programme had been made public earlier (at 13.45) in a press release. Here, too, it makes sense to measure from 7 to 9 December to determine the exchange rate reaction. Over this period, the effective exchange rate of the euro depreciated by 1.0%.

¹² Now proceeding to analyse the exchange rate reaction from 9 to 10 March on account of the press release would have the disadvantage of disregarding the impact on the euro of the ECB press conference on 10 March (scheduled for the usual time of 14.30), which provided further background on the decisions regarding the APP.



Source for the time series: ECB. * The vertical grey lines indicate selected days on which monetary policy easing measures by the Eurosystem were recorded (see chart on p 15). The vertical light blue lines indicate selected days on which monetary policy tightening measures by the Federal Reserve Board were recorded. Deutsche Bundesbank

ing of monetary policy. If such expectations are formed or if, in the eyes of market participants, the probability of an expected easing measure increases, this ought to be directly reflected in a depreciation of the euro.¹³ On the day of the decision itself, then, the euro should have responded only to the extent that the measures taken deviate from those expected on average. This makes the euro's strong reaction on 22 January 2015 all the more remarkable. By contrast, to determine the overall impact of the asset purchase programme on the euro exchange rate, it would then be necessary, however, to consider not just the reaction to the decisions themselves, but also the exchange rate effects attributable to news from the period before the decision which had a major bearing on the formation of expectations surrounding any potential forthcoming quantitative easing measures.

Against this backdrop, it is useful to begin by considering euro exchange rate developments

in the months leading up to the introduction of quantitative easing and the period since then. A corresponding time series reveals, for instance, that the euro experienced a perceptible and rather steady loss in value against the US dollar between mid-2014 and 23 January 2015, which is one day after the decision to launch the APP was taken. The euro dwindled from just under US\$1.37 on 30 June 2014 to as little as US\$1.12 on 23 January 2015. On balance, this equates to a depreciation of the euro by 18.0%. Although the euro suffered further marked losses in value at times (including in the first half of March 2015), the subsequent quarters saw the EUR/USD rate moved sideways, fluctuating within a range of between US\$1.05 and US\$1.16. The single currency came under pressure after the presidential elections in the

Developments in the EUR/USD exchange rate ...

¹³ See, for example, TG Andersen, T Bollerslev, FX Diebold and C Vega (2003), Micro effects of macro announcements: real-time price discovery in foreign exchange, American Economic Review Vol 93, pp 38-62.

United States in November 2016 and was trading at US\$1.07 as this report went to press.

... and the effective exchange rate of the euro since March 2014 Developments in the nominal effective exchange rate of the euro¹⁴ followed a similar pattern, with the euro depreciating by 10.4% against the currencies of 19 major partner countries between 30 June 2014 and 23 January 2015. However, this exchange rate did not move as smoothly as the bilateral EUR/USD rate during this period. Thus, the effective exchange rate of the euro remained almost static on balance between mid-September and mid-December 2014, before suffering a particularly substantial loss in value up to 23 January 2015. Although the effective euro rate likewise depreciated again in the first half of March 2015, it has tended to creep up again ever since, but especially from the beginning of December 2015 onwards, with the result that the effective exchange rate of the euro of late was up by 2.6% compared with 23 January 2015.

Quantifying expectation effects difficult for several reasons The next question concerns the extent to which developments in the euro's exchange rate during this period, in particular its sharp depreciation in the months running up to the APP decision dated 22 January 2015, can be attributed to mounting expectations in foreign exchange markets, driven by new information, that quantitative easing measures were increasingly likely in the euro area. However, quantifying the corresponding impact is extremely difficult on several counts and generally fraught with considerable uncertainty.¹⁵

First challenge: hard to distinguish from standard monetary policy The quantification process quickly comes up against its first challenge because ECB press conferences or speeches by members of the Governing Council containing remarks on asset purchases normally also address standard monetary policy and, in some cases, other nonstandard measures as well. Moreover, decisions on quantitative easing were, in some instances, combined with other non-standard and standard monetary policy measures. A similar situation arises when the wording of a speech points to an increase in the degree of monetary policy accommodation without indicating whether standard or non-standard policy measures are being considered. In all these cases, it is unclear whether it was really the remarks or decisions on the APP which triggered a potentially observable depreciation in the euro.

Two instances of standard and non-standard policy measures being jointly adopted were the Governing Council decisions on the expansion of the APP dated 3 December 2015 and 10 March 2016, which - as previously mentioned – also included a cut in the deposit facility rate. In the press conferences held after the respective preceding monetary policy meetings of the Governing Council on 22 October 2015 and 21 January 2016, ECB President Mario Draghi's introductory statement already contained remarks which could be interpreted as hinting at the possibility of forthcoming monetary easing measures. In his introductory statement on 21 January 2016, ECB President Draghi said the following. "It will therefore be necessary to review and possibly reconsider our monetary policy stance at our next meeting in early March [...]. In the meantime, work will be carried out to ensure that all the technical conditions are in place to make the full range of policy options available for implementation, if needed." Remarks of a similar nature were also

Examples: decisions to expand APP and corresponding market expectations ...

¹⁴ Unlike the previous section, which focused on achieving the broadest-possible geographical coverage on individual days and therefore used the nominal effective exchange rate of the euro against a broad group of 38 currencies (EER-38), the section below is based on the nominal effective exchange rate of the euro against 19 partner currencies (EER-19). This is because the official EER-38 is not available on several days owing to public holidays, which makes it unsuitable for conducting a time series analysis based on daily data. The differences between the two effective exchange rates of the euro on the individual days mentioned in the last section are minimal. The depreciation of the euro from 22 to 23 January 2015 came to 2.5% according to EER-19 (instead of 2.6% based on EER-38); the appreciation from 3 to 4 December 2015 amounted to 1.4% (instead of 1.6%), the appreciation from 9 to 11 March 2016 in both cases was measured at 0.6%, and the depreciation from 7 to 9 December 2016 was 0.9% (instead of 1.0%). 15 This is also highlighted in SD'Amico (2016), Discussion of "The financial and macroeconomic effects of the OMT announcements", International Journal of Central Banking, 12 (3), pp 59-68, for cases where expectation effects play a maior role.

made on 22 October 2015.¹⁶ That kind of wording obviously encompasses both standard and non-standard measures, with the result that any exchange rate reaction cannot be unambiguously pinned on the APP.

In response to these statements, the euro did indeed depreciate markedly – both in effective terms and bilaterally against the US dollar – from 22 to 23 October 2015 and from 21 to 22 January 2016. In effective terms against 38 major trading partners, the first of these exchange rate movements even saw the fifthheaviest daily loss ever, as stated above. An appreciation of the euro on the dates of subsequent monetary policy meetings at which the expansionary measures were actually decided can be interpreted as a disappointment of some market participants' ambitious expectations.

... as well as decisions on ABSPP and CBPP3 in the light of high frequency data

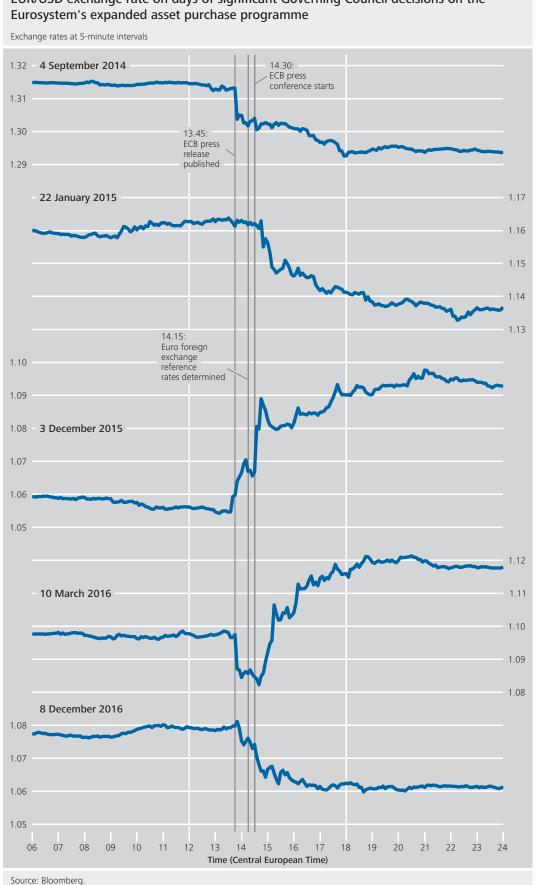
High frequency data can sometimes provide further insight, albeit to a limited extent, into the exchange rate effects of individual measures. One example of this can be seen on 4 September 2014, when the Governing Council decided to purchase asset-backed securities and covered bonds, but also to cut policy rates by 10 basis points. This policy rate cut had already been made public at 13.45 in the form of a press release; however, the decision on the asset purchases was not announced until the press conference, which started at 14.30. The press release caused a severe exchange rate reaction. In the five minutes following its publication, the euro shed almost 1 US cent (a loss of 0.72%) against the US dollar, and there was no correction of any note in this movement by the time the press conference began. Five minutes into the press conference, the reaction was a great deal more subdued (-0.27%) and the exchange rate bounced back by half within the quarter of an hour that followed. Only after 16.30 did the euro resume a more sustained downward movement. The intra-day exchange rate movement thus implies that the euro's exchange rate over the course of 4 September 2014 was probably driven less by the Eurosystem's adoption of quantitative easing, but mainly by the cut in policy rates.¹⁷

Another challenge when it comes to quantifying expectation and announcement effects lies in determining the point in time at which the foreign exchange market received new information about future quantitative easing measures and which statements can even be classified as new information. Amongst other things, this concerns interviews and speeches by members of the Governing Council that only relate to quantitative easing in as far as they reiterate the substance and, in many cases, the exact wording of what has already been said else-

Second challenge: relevance of new information

¹⁶ It was worded as follows. "In this context, the degree of monetary policy accommodation will need to be reexamined at our December monetary policy meeting [...]. The Governing Council is willing and able to act by using all the instruments available within its mandate if warranted in order to maintain an appropriate degree of monetary accommodation."

¹⁷ While the fixing of the euro foreign exchange reference rate at 14.15 may, on the face of it, appear to be an appropriate point in time to separate the two events, the rate of change in the euro's exchange rate from 3 to 4 September 2014 contained barely half an hour's reaction to the press release, whereas the rate of change from 4 to 5 September 2014 encompassed a reaction to the press conference of almost 24 hours. In addition, it is completely unclear whether the depreciation of the euro late in the afternoon of 4 September 2014, which had a bearing on the rate of change from 4 to 5 September 2014, can be traced back to the press conference or the press release. A situation similar to that on 4 September 2014 existed in principle on 3 December 2015, when the cut in the deposit facility rate had already been made public in the press release at 13.45, but the expansion of asset purchases was not revealed until the press conference which started at 14.30. However, the above-mentioned rate of change in the foreign exchange reference rate of the euro against the US dollar from 3 to 4 December 2015 was more obviously driven by the direct exchange rate reaction at the beginning of the press conference.



EUR/USD exchange rate on days of significant Governing Council decisions on the

Deutsche Bundesbank

where, mainly at ECB press conferences.¹⁸ In this context, information can only really be assumed to be new for the markets if market participants were expecting a different statement. In any case, it appears problematic to attribute movements in the euro's exchange rate on the corresponding days to the expectation effects of quantitative easing.¹⁹

Third challenge: assumptions about the window during which new information affects the euro exchange rate There is also disagreement over the window in which it can be assumed that the observed exchange rate movement is determined exclusively or largely by the new information. On the one hand, asset prices such as exchange rates ought to respond swiftly to new information in a highly liquid market. On the other, market participants need to be granted a certain amount of time to process indications of quantitative easing or an expansion thereof, as such information will in many cases have no comparable precedents and hardly be standardised. There is no doubt that the length of this window can have quite a substantial bearing indeed on the measured overall effect of the purchase programme on the exchange rate. In the present case, this is mainly true for the period until March 2015, when the euro depreciated relatively continuously over several weeks. In event studies conducted on the impact of nonstandard monetary policy measures on the exchange rate, the chosen window ranges between half an hour²⁰ and two days²¹ in length.

Fourth challenge: impact of macroeconomic data releases ... There is a possibility, especially in cases where a longer window is used to measure how the exchange rate reacts to the announcement, that new macroeconomic data will be released during that window which also have an impact on the exchange rate. In this case, the two effects would overlap, thus distorting the estimated impact of the purchase programme. Added to this is the fact that the released data are sometimes factored into the decision-making process on monetary policy measures. This makes it even more difficult to isolate the individual effects on the exchange rate. The literature applies two alternative strategies to minimise any distortions this might cause in the results. The first of these – as mentioned above – is to measure the exchange rate reaction in just a very short window. However, this might result in the market reaction being understated by far. For instance, movements in the euro's exchange rate over the course of the days on which the most important APP-related decisions were made do not give the impression that the response process was already over 15

18 One example of this is an interview which Europe 1 conducted with ECB President Mario Draghi on the morning of 24 September 2014 in which Mr Draghi, when asked about additional stimulus measures, made the following remarks. "... I can say that the Governing Council is unanimous in its commitment to use the available instruments within its mandate to bring inflation back to close to but below 2%." No further remarks concerning non-standard monetary policy were made in the interview. However, President Draghi's introductory statement to the ECB press conference on 4 September 2014 already contained the statement that "... in line with our aim of maintaining inflation rates below, but close to, 2%. ... Should it become necessary to further address risks of too prolonged a period of low inflation, the Governing Council is unanimous in its commitment to using additional unconventional instruments within its mandate." From 23 to 24 September 2014, the euro depreciated by 0.5% against the US dollar. It appears doubtful whether - with reference to the interview - this depreciation can be traced back solely to a suspected increase in market participants being convinced that potential additional quantitative easing measures would be introduced in the future.

19 To get a better idea of the extent to which announcements of quantitative easing come as a surprise to market participants, some studies look at the immediate response of long-term government bond futures. Given that such measures aim at lowering long-term government bond yields, an unexpected statement in this regard – one which fuels expectations of a swift adoption of government bond purchases, say - can be expected to drive up the prices of futures of this kind. Studies which use this procedure to determine the exchange rate effects of asset purchase programmes include the following. R Glick and S Leduc (2013), The effects of unconventional and conventional U.S. monetary policy on the dollar, Federal Reserve Bank of San Francisco Working Paper 2013-11; JH Rogers, C Scotti and JH Wright (2014), Evaluating asset-market effects of unconventional monetary policy: a multi-country review, Economic Policy 29, pp 751-799; and JH Wright (2012), What does monetary policy do to long-term interest rates at the zero lower bound?, Economic Journal 122, pp F447-F466. 20 In these studies, changes in the exchange rate are measured from ten minutes before a spoken remark or publication to 20 minutes after, or from a guarter of an hour before to a quarter of an hour after such an event. See the narrow windows used in Glick and Leduc (2013), op cit, Rogers et al (2014), op cit, or ET Swanson (2015), Measuring the effects of unconventional monetary policy on asset prices, NBER Working Paper No 21816.

21 See, for example, the broad window used in Altavilla et al (2015), op cit, or Joyce et al (2011), op cit, who even use a three-day window for control purposes, amongst other things.

... and ways of eliminating this effect or 30 minutes after these decisions were made public.²²

The second strategy for preventing macroeconomic data releases from distorting results is to explicitly factor them into estimates. Since forex market participants form expectations in advance not only over information on the monetary policy stance but also over macroeconomic data, only the surprise component of the release should be used here.²³ But this kind of approach will not necessarily eliminate the above-mentioned distortions in their entirety either because it cannot be taken for granted that the effect of macroeconomic surprises will remain constant over time,²⁴ and that effect might also hinge on the central bank's monetary policy stance. The response shown by the euro's exchange rate to an unexpectedly low rate of consumer price inflation, for example, might be more pronounced if the market already has the impression that the Eurosystem is considering quantitative easing measures. The chart discussed above showing the euro's heaviest daily losses, however, puts the importance of such reasoning into perspective insofar as - at least in the past few years - it was seemingly not so much macroeconomic data releases as monetary policy decisions which drove the biggest changes in the euro's exchange rate.

Fifth challenge: impact of US monetary policy One final, materially important aspect to consider when quantifying the overall effect of quantitative easing decisions has to do with an exchange rate's function as a relative price between currencies. As such, it is determined, by its very nature, not only by the monetary policy stance in the domestic economy, but in a similar fashion by monetary policy developments abroad as well. On this score, monetary policy developments in the United States are of utmost importance, not just for the bilateral EUR/USD exchange rate but also for the effective exchange rate of the euro. The period since mid-2014, which was marked by the decisions to successively increase the degree of monetary accommodation in the Eurosystem, has seen

the US Federal Reserve gradually tighten its monetary policy. Taken by itself, this, too, acted to drive down the value of the euro, just like the Eurosystem's easing measures, with the result that the effects tended to overlap. While this is counteracted by the fact that the most important pieces of news about adjustments to the Fed's monetary policy path were not made public on the same days as those of the Governing Council, there is nonetheless a degree of risk, especially in the months leading up to March 2015, of wrongly identifying expectations regarding the Eurosystem's quantitative easing measures (rather than US monetary policy) as a significant contributor to the euro's quite steady depreciation observed at that time. That risk is intensified especially when movements in the euro's exchange rate over a comparatively long window are attributed to individual Eurosystem announcements and when very large numbers of at times relatively insignificant announcements are used to explain them.

The reasoning set out above illustrates that it is almost impossible to precisely determine the overall effect of the Governing Council's decisions regarding quantitative easing on the euro's exchange rate in a way that also takes into account the formation of expectations in foreign exchange markets. Hence, any estimate made in this regard will be fraught with a high degree of uncertainty. A study conducted at the Bundesbank which attempts to incorporate

For all the uncertainty, a drop of around 41/2% in the effective exchange rate of the euro can be identified as a response to the APP decisions and earlier APP-related information

²² For that to have been the case, the euro's exchange rate ideally ought to have levelled off once those 15 or 30 minutes had elapsed. Yet in every single instance, the exchange rate movement observed during this window instead continued beyond the window, albeit subject to some volatility.

²³ Technically, this is done by deducting the median response to a survey conducted among financial market experts shortly prior to the data release from the value that is actually released, so that a surprise component remains. **24** ET Swanson and JC Williams (2014), Measuring the effect of the zero lower bound on yields and exchange rates in the U.K. and Germany, Journal of International Economics, Vol 92, pp S2-S21, therefore estimate a time-varying reaction of exchange rates to macroeconomic data releases.

Expectation and announcement effects of the expanded asset purchase programme on the euro's exchange rate: an event study

It is never easy to measure how monetary policy measures affect financial market prices with any degree of precision because market players are continually forming expectations about the future path of monetary policy, and any changes in their expectations impact directly on those prices. Analysts looking to gauge how far financial market prices have been influenced by expectation and announcement effects surrounding the expanded asset purchase programme (APP) therefore need to investigate how market expectations about the purchase programme - for example, the likelihood of it being implemented, as well as its design, possible launch date and volume have evolved over time.

These expectations are not readily observable in practice, so analysts tend to use event studies to measure the overall effect of a policy measure on financial market variables. Event studies identify what are known as "event windows" - periods in which market opinion about a particular purchase programme might have changed. In the present case, suitable events would appear to be information made public by the ECB on the topic of the APP. Pages 22 to 26 of the main article explain why the analysis presented below is confined to ECB press conferences and press releases that follow Governing Council meetings on monetary policy matters which are very likely to have a bearing on the euro's exchange rate. Event windows are each one day long, not only to mitigate the risk of data being "contaminated" by other factors, but also to give market players enough time to react to the information made public by the ECB.

Once the relevant events have been identified, the rate of change shown by the observed variables – in this case the euro's exchange rate – between the beginning and the end of the defined event window is measured. Assuming that the information made public on the purchase programme was the sole factor influencing the exchange rate during the event window, the measured change in the exchange rate can be attributed in full to the APP. By extension, it is possible to quantify the programme's overall effect on the euro's exchange rate by adding together the changes across all the event windows.

One criticism that can be levelled at this procedure used in classic event studies is the possibility that economic metrics (concerning the unemployment rate, say, or industrial production) were made public on the same day as the events. If such information had an independent effect on the euro's exchange rate, a classic event study will deliver distorted results.

In their estimation of the effects of the Eurosystem's purchase programme on financial market variables, Altavilla, Carboni and Motto (2015) include the surprise component of a host of macroeconomic releases from the euro area and the United States in an effort to segregate that component's influence from that of the asset purchases.¹ Specifically, this approach – an event study which "controls" for macroeconomic releases – estimates the following regression for each time series under observation:

$$\Delta y_t = \sum_{i=1}^k \alpha_i D_{i,t} + \sum_{j=1}^m \gamma_j News_{j,t} + \epsilon_t$$

¹ See C Altavilla, G Carboni and R Motto (2015), Asset purchase programmes and financial markets: lessons from the euro area, ECB Working Paper No 1864.

where

 $\Delta y_t = ln \ (y_t) - ln \ (y_{t-1})$ is the one-day change in the log exchange rate of the euro;

 D_i is a dummy variable which takes the value 1 on the i = 1, ..., k identified event days and otherwise 0;

 $News_j$ is a measure for the surprise component of j = 1, ..., m = 40 macroeconomic metrics for Germany, France, Italy, Spain, the euro area as a whole and the United States.²

The overall effect of the purchase programme on the euro's exchange rate is then calculated as the sum of the estimated effects, transformed into a growth rate, $\hat{\alpha}_{ii}$ on the event days – ie as $exp\left(\sum_{i=1}^{k} \hat{\alpha}_{i}\right) - 1$.

We will now outline the results of a study that follows the approach used by Altavilla et al (2015) but with an observation period that extends into December 2016.³ The regression equation shown above is estimated for the euro's nominal effective exchange rate⁴ and, as an alternative, for its exchange rate against the US dollar.

An event study approach will inevitably have a degree of leeway in the choice of relevant events. The present analysis makes a distinction between two phases comprising nine APP-related events in all, shown in the chart on page 15 under numbers 3-5 and 7-12. The first phase covers the APP decision on 22 January 2015 as well as two earlier press conferences in which references were made to the Governing Council's intention to take measures that would have a sizeable impact on the balance sheet (6 November 2014 and 4 December 2014). The second phase, meanwhile, encompasses press releases and press conferences for Governing Council meetings that were associated with programme adjustments

which provided additional expansionary stimulus. These comprised, first, the press conferences on 3 September 2015, 22 October 2015 and 3 December 2015, which resulted in the term of the programme being extended; second, the press conferences and press releases on 21 January 2016 and 10 March 2016, which ultimately led, *inter alia*, to the monthly asset purchase volume being increased; and, third, the press conference and press release on 8 December 2016 announcing the decision to extend the programme by nine months.⁵

Altogether, the nine monetary policy events mentioned above were associated with a considerable same-day fall in the value of the euro, even after eliminating the influence of possible macroeconomic surprises on the event days. After controlling for this influence, the estimated overall effect thus

² The time series were obtained from the data provider Bloomberg and express the difference between the value made public and the median analyst forecast value, divided by the standard deviation of the underlying projections. The macroeconomic metrics notably comprise releases on industrial production, the labour market and price developments.

³ The regression analysis is thus based on an observation period from 2 January 2014 to 15 December 2016. This approach differs again from Altavilla et al (2015), op cit, in that it uses a far more restrictive selection of events considered relevant, particularly in the period prior to the decision to launch the APP on 22 January 2015 and also because it explicitly takes account of the influence of US monetary policy on the euro's exchange rate. Both studies use daily data and the same series of macroeconomic surprises in their estimations.

⁴ The nominal effective euro rate against the currencies of 19 major trading partners of the euro area, which is calculated on the basis of the euro foreign exchange reference rates, is used here.

⁵ If the press conferences on 4 September 2014, 2 October 2014, 8 September 2016 and 20 October 2016 had also been factored into the analysis, they would have had relatively little bearing on the results. The estimated fall in the nominal effective euro rate would have been 0.3 percentage point larger and that of the EUR/USD rate 1.6 percentage point larger. A problem of a more fundamental nature, however, is the fact that some event days saw the announcement of other monetary policy measures unrelated to the APP. As a case in point, three-quarters of an hour before the press conference on 4 September 2014 a press release announced a 10 bp reduction in the ECB's three main policy rates.

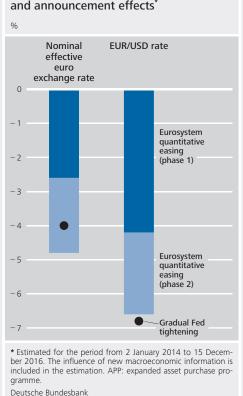
comes in at -4.7% for the nominal effective euro exchange rate against the currencies of 19 major trading partners and at -6.5% for the euro's exchange rate against the US dollar. F tests conducted on the results indicate that both effects are significant at the 5% level.

As the adjacent chart shows, the first phase of the Eurosystem's quantitative easing measures in particular – up to and including the APP announcement - saw a distinct fall in the euro's value. Later announcements extending the term of the APP and increasing the monthly purchase volume tended to have weaker effects on the whole.6

These results should, however, be viewed in light of the fact that the observation period also saw the euro depreciate discernibly on days other than the event days analysed here, with the euro's effective exchange rate falling by 9.6% on balance and its ex-

7 An exchange rate trend like the one seen primarily in the first phase observed here could be better captured by an event study, eg by also factoring a host of less obviously relevant events into the regression analysis. For instance, Altavilla et al (2015), op cit, identify 17, rather than just three, relevant events for this first phase alone. The overall effect they calculate for the first phase - a 5% euro depreciation against the US dollar - is nevertheless barely higher than the figure we come to for the same phase. But they do also report results for a two-day event window (ie exchange rate movements on two consecutive days are assigned to each of the 17 events), which means that they achieve even broader trend coverage and thus conclude that the overall effect for the first phase alone is a 12% euro depreciation against the US dollar which can be attributed to the APP.

8 While there is a series for this in the set of macroeconomic surprises, it does not contain a single surprise for the entire observation period.



Estimated controlled APP expectation and announcement effects*

change rate against the US dollar losing as much as 24.5%. This raises the question of whether what is, potentially, a substantial portion of this development might be explained by gradually mounting market expectations about the introduction and, subsequently, about the expansion of quantitative easing measures by the Eurosystem, but without necessarily being able to pin this on specific events in the shape of new information made public.7

However, any such considerations need to allow for the fact that the monetary policy actions of the US Federal Reserve, and not just monetary policy developments in the euro area, are likely to have had a considerable impact on the euro's exchange rate against the US dollar in particular.⁸ There were mounting signs during the observation period that US monetary policy was returning to normal, culminating, first, in the tapering of and exit from asset purchases and finally, from the end of 2015, in two

⁶ The purchase volume of the three decisions to increase the volume and extend the term of the APP totalled €1,140 billion overall, which was exactly the same volume as that of the original APP decision; however, the effect measured for the second phase is smaller than that of the first. Added to this, of the six events from the second phase, only one (on 8 December 2016) was not also connected with a standard easing of monetary policy. Thus, since the effect measured for the second phase can be traced back to a combination of policy rate cuts and quantitative easing, it must be assumed that the undeterminable, hypothetical effect of the quantitative easing alone was smaller than indicated in the estimate.

Selected press releases by the Federal Reserve

Date	Substance of the Fed press release	
17 September 2014	FOMC decides to slow the pace of monthly asset purchases and expects, based on its projections, the federal funds rate to be raised earlier on average in the USA.	
29 October 2014	FOMC announces that the asset purchase programme will end that month.	
17 December 2014	FOMC replaces the wording that it intends to maintain the federal funds rate for a considerable time after the asset purchase programme ends with the phrase that it can be patient in beginning to normalise the stance of monetary policy.	
18 March 2015	First FOMC press release that does not contain the wording that it can be patient in beginning to normalise the stance of monetary policy.	
28 October 2015	FOMC mentions its next meeting as a possible date for raising the federal funds rate.	
16 December 2015	FOMC raises the federal funds rate.	
14 December 2016	FOMC raises the federal funds rate.	
Deutsche Bundesb	ank	

policy rate hikes. Much like the Eurosystem's easing measures, a gradual tightening of the monetary reins in the United States will tend to push down the value of the euro.

The estimation seeks to model monetary policy symmetrically in the two foremost currency areas by also incorporating seven selected press releases from the US Federal Reserve which contained new information on the path of monetary policy. These releases are listed in the table above. Evidently, making this information public also sent the euro sharply lower in value. The estimated overall effect of this slight tightening of US monetary policy across both phases was a 4.0% drop in the euro's nominal effective exchange rate and a 6.8% fall in the euro's value against the US dollar (both effects being significant at the 5% level). This suggests that while events related to the Eurosystem's asset purchase

programme had a major bearing on the euro's exchange rate, under no circumstances should other factors – first and foremost monetary policy in the United States – be ignored. It is therefore possible to measure this effect more accurately by confining events to those most obviously relevant to the APP and by not being overly generous in setting the length of the event window.

As a caveat, it is worth noting that the results generated with the aid of event studies of this kind should be interpreted with some caution. One reason for this was mentioned above - the fact that it is virtually impossible to clearly and unambiguously identify events relevant to the APP. Another is that the high degree of exchange rate volatility on event days makes events very sensitive to the underlying event window. The length of the event window, in particular, has a major bearing, but even if a different daily rate were used - that is, if the event window were shifted but remained 24 hours in length – the results of the estimation might be substantially different. The results presented here, for instance, are based on euro exchange rates measured at 14.15 Central European Time (CET). If rates at 23.00 CET are used instead, for example, the estimated effect of the APP on the euro's exchange rate against the US dollar is a mere -2.2% (rather than -6.5%). One possible reason for this is that these daily rates capture an exchange rate reaction over just 81/2 hours (rather than almost 24 hours when euro foreign exchange reference rates are used) from the start of each ECB press conference.

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the issues raised as extensively as possible²⁵ finds that the overall effect since 2014 of the direct and expectation formation-related market reactions to the decisions taken to date by the Governing Council on government bond purchases has been a 4.7% depreciation in the nominal effective exchange rate of the euro and a 6.5% depreciation of the euro against the US dollar.26

APP decision triggers large effects, programme expansions smaller ones

Much of this effect, relatively speaking (2.6 percentage points in the effective exchange rate of the euro and 4.2 percentage points bilaterally against the US dollar), is accounted for by the period up to the end of January 2015 - aspell in which market participants were increasingly anticipating government bond purchases and the APP decision was passed. The measures which expanded the programme, on the other hand, tended to have less of an impact on the euro's exchange rate. In addition, it is presumably not even possible to pin all these estimated smaller depreciation effects on the expansion of the APP as there is no way of distinguishing them from the effect of cuts in the deposit facility rate that were occasionally decided at the same time.

Gradual tightening of US monetary policy more or less a factor of similar magnitude in euro depreciation as APP measures

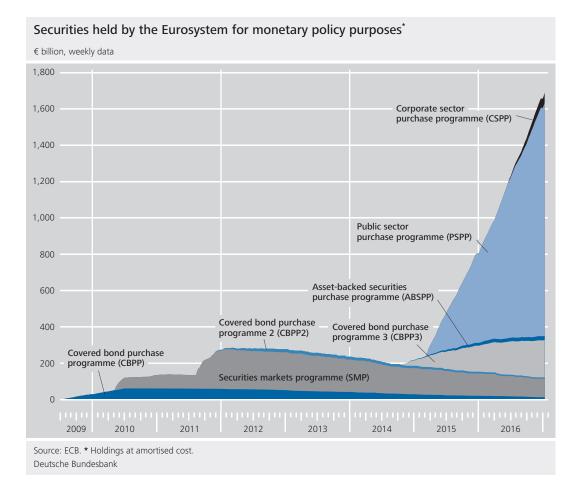
On the other hand, it cannot be ruled out that the actual exchange rate effect up until the APP decision in January 2015 was slightly larger than estimated because, as mentioned above, the study took into account only the most important pieces of new information relating to potential asset purchases. The study does, however, suggest that - compared with this lack of clarity - other factors had more of a bearing on the path followed by the euro's exchange rate. One notable such factor was US monetary policy, which was gradually tightened throughout the observation period and caused the euro to depreciate by an estimated 6.8% against the US dollar (and by 4.0% in effective terms). In terms of magnitude, this is comparable to the estimated effects of the quantitative easing in the euro area.

When assessing the estimated announcement Analysis says and expectation effects of the APP on the exchange rate of the euro, it should be noted that the present analysis does not allow any conclusions to be drawn with regard to the

nothing about the persistence of effects

25 Following the reasoning outlined here, the change in the euro's exchange rate over the course of a trading day is attributed to a new piece of information about the APP (from the daily fixing of the euro foreign exchange reference rate prior to the announcement up to the one thereafter). All in all, this study takes nine APP-related announcements into account. As a rule, these are ECB press conferences, partly in conjunction with ECB press releases, and three of these took place in the period before the government bond purchases began in March 2015. The influence of macroeconomic data releases and US monetary policy is factored into the calculation of the effects. A detailed description of the estimation can be found in the box on pp 27-30.

26 The result is not materially different (5.0% depreciation in the effective exchange rate of the euro and 8.0% bilaterally against the US dollar) when four additional ECB press conferences, and thus inter alia all the dates listed on p 15 up until 22 January 2015, are included in the estimate. That said, even the number of nine "event days" originally selected to cover the APP decision and APP expansions appears to be rather high compared with similar studies. For example, Neely (2015), op cit, uses five event days to capture the exchange rate reaction to the adoption and expansion of the first US asset purchase programme; Joyce et al (2011), op cit, base their estimate of the effects of the first UK purchase programme, including expansions, on six event days. The overall effects we identified are considerably smaller than those cited in European Central Bank, The transmission of the ECB's recent non-standard monetary policy measures, Economic Bulletin, Issue 7/2015, pp 32-51, with reference to Altavilla et al (2015), op cit, for the period from 4 September 2014 to 5 March 2015 alone - that is to say, the period up to the beginning of the government bond purchase operations. According to that study, the APP's overall effect until that time already came to an 8% depreciation of the euro in effective terms and a 12% bilateral fall in value against the US dollar. Those findings mainly differ from the results presented here because that estimate is based on as many as 17 event days just for that short phase and because developments in the euro's exchange rate in a window as long as two days are attributed to the respective events. The study by Altavilla et al (2015), op cit, though, also presents results of an estimation based on only a window of one day for the euro's exchange rate reaction. Under this assumption, it arrives at a result which, in terms of magnitude - a 5% depreciation of the euro against the US dollar - is similar to the study presented here for the corresponding period. Another finding made in the Bundesbank study shows how far the length of the window used to measure the reaction of the euro's exchange rate influences the estimated overall effect. Using daily euro rates fixed at 23.00 instead of those at 14.15 (which implies that the period from the start of the ECB press conference at 14.30 up to the fixing of the exchange rate is distinctly shorter) results in the euro depreciating by only 2.2% overall against the US dollar, rather than by 6.5%, although the duration of the exchange rate reaction attributed to each event remains unchanged at one trading day.



persistence of the effects identified.²⁷ Thus, the estimated 4.7% nominal effective depreciation of the euro may persist on a lasting basis, but it might just as well have unwound within a short space of time. This makes it more difficult to determine, for example, the extent to which a measured change in the euro's exchange rate over a given period can be attributed to the effect in question.

Effects of the asset purchase operations

Eurosystem holdings originating from purchase programmes The expectation and announcement effects of the APP, which also include the immediate exchange rate reactions on the day of APP-related decisions by the Governing Council, need to be distinguished from the effects of putting those decisions into practice, ie those stemming from the asset purchases themselves. Government bond purchases under the APP started on 9 March 2015, while purchases of covered bonds and asset-backed securities, which likewise form part of the broader APP programme, began back in October and November 2014 respectively. However, there is a longer observation period available to analyse the effects of asset purchase operations in the euro area, given that the Eurosystem had already conducted purchases of covered bonds and government bonds between 2009 and 2012, albeit with the primary objective back then of safeguarding the functioning of the monetary policy transmission process. Even though the Eurosystem's holdings which originated from these earlier purchase programmes are gradually receding, they still amounted to a combined total of around €185 billion at the end of 2014.²⁸

²⁷ This point has already been stressed by Wright (2012), op cit, and also by Rogers et al (2014), op cit, with regard to the effects of quantitative easing on interest rates. 28 Purchases under the securities markets programme (SMP), which was adopted in May 2010, accounted for €144 billion of this total. Assets acquired under this programme are held to maturity, which means the holdings gradually diminish over time.

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The onset of government bond purchases under the PSPP, especially, sent the Eurosystem's holdings of securities for monetary policy purposes sharply higher to ≤ 1.7 trillion, all told, by mid-January 2016.

Causes of potential exchange rate effects arising from asset purchase operations There are some studies in the literature which assume that it is not only expectation and announcement effects, but also the actual purchases themselves, that influence variables such as the exchange rate.²⁹ They argue that the supply of government bonds available to private investors only decreases once the actual purchases are made, so while market participants may have been informed in advance about the point in time and volume of the intended purchases, it is entirely possible for their expectations regarding the effectiveness of these central bank operations to be fraught with uncertainty and error. Equally uncertain is the extent to which private investors reinvest the proceeds from the sale of bonds to the central bank in the alternative assets available in each case.

Distinct net sales of PSPP-eligible bonds by non-euro-area residents The European securities holdings statistics by sector³⁰ can be used to gain a clearer picture of whether purchase operations under the APP triggered a portfolio shift into foreign asset holdings via the portfolio rebalancing channel, as would be expected in theory, and thus generated any downward pressure on the euro. A breakdown of the corresponding holdings shows that the holdings of euro-denominated bonds in the portfolios of investors excluding the Eurosystem declined in the one-and-a-half years between the end of 2014 and mid-2016. The statistics reveal that it was particularly noneuro-area residents which engaged in considerable net sales of PSPP-eligible bonds during this period. Sellers were chiefly private investors from the United States and the United Kingdom, the majority of whom are presumably financial sector participants. Furthermore, China's public sector (central bank and general government) decreased its holdings significantly. Assuming the proceeds from these sales were invested in non-euro-denominated assets,

this should, in itself, have exerted downward pressure on the euro. Analysis of the aggregate bond holdings which non-euro-area residents hold in custody within the euro area indicates that this may well have been the case.³¹ Their holdings of euro-denominated bonds did indeed decrease sharply from the beginning of 2015 to mid-2016, while bond holdings denominated in other currencies increased markedly.

Since actual purchase operations under asset purchase programmes in other currency areas have been shown to have a marked impact on the exchange rate, and because the Eurosystem's securities holdings data point to the possibility of an APP-induced shift into foreign currency bonds, the Bundesbank conducted similar analyses of Eurosystem bond purchases in an effort to measure their effect. These analyses generally take into account not just APP asset purchases but those carried out under earlier Eurosystem purchase programmes (CBPP, CBPP2 and SMP) as well. Two alternative econometric methods were used in these analyses.

The first of these is a Bayesian vector autoregression (BVAR) model. The analysis (see the box on pages 34 to 36) uses sign restrictions to identify quantitative easing measures. It concludes, however, that these accommodative measures did not significantly affect the nominal effective exchange rate of the euro during the observation period. But since this finding was achieved using monthly data, it would not

No evidence of significant exchange rate effects of Eurosystem purchase operations identified by a BVAR model, ...

Indications of shifts out of eurodenominated bonds into other ones

Two alternative methods used

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²⁹ Fratzscher et al (2013), op cit, in particular, deem the relationship between these effects to be a significant factor. They examine the Fed's first two purchase programmes and identify a distinct depreciation of the US dollar in response to the actual government bond purchases. However, they also find that the purchases of mortgage-backed securities caused the US dollar to appreciate markedly. **30** The European securities holdings statistics by sector

⁽SHSS) comprise a sector-specific listing of all securities held in custody in the euro area. They do not capture securities held in portfolios outside the euro area.

³¹ However, this again is subject to the caveat mentioned above: namely, that securities which are not held in custody in the euro area are not captured by the European securities holdings statistics by sector.

Securities acquisitions within the Eurosystem's purchase programmes: a BVAR estimation of the effects on the euro exchange rate

The following analysis uses a Bayesian vector autoregression model (BVAR) to determine the quantitative effects of securities purchases by the Eurosystem on the euro's nominal exchange rate. In doing so, it essentially builds on the methodological approach used by Boeckx et al (2014), who identify a monetary policy shock predominantly by an expansion in the central bank balance sheet.¹ However, in order to isolate the effects of the purchasing programmes as precisely as possible in accordance with the initial question, our analysis modifies this approach by concentrating on the development of those balance sheet items which are determined by the purchase and redemption of securities.²

The VAR model used to estimate the effects of non-standard monetary policy shocks on the exchange rate of the euro can be written in reduced form as follows

$$x_t = c + \sum_{j=1}^p B_j x_{t-j} + u_t$$
 with $t = 1, ..., T$.

 x_t represents an (Nx1) vector with endogenous variables as described below; c denotes an (Nx1) constant and B_j an (NxN) coefficient matrix for the vector of endogenous variables lagged by j periods x_{t-j} . The (Nx1) vector u_t contains the error terms of the VAR model with $E(u_t) = 0$ and covariance matrix $E(u_tu_t') = \Omega$. As in the literature, the number of lags is set to p = 2.3

In this VAR model, the vector of endogenous variables is specified as

 $x_t = [euro_t \ asset_t \ lend_t \ mro_t \ y_t \ p_t \ vstoxx_t]',$

where $euro_t$ represents the effective exchange rate of the euro against 19 major trading partners, $asset_t$ the Eurosystem's securities holdings for monetary policy purposes, $lend_t$ the Eurosystem's liquidity provision for monetary policy purposes, mro_t the Eurosystem's main refinancing rate, y_t the euro area's industrial production, p_t the euro area's Harmonised Index of Consumer Prices (HICP), and $vstoxx_t$ the volatility index of the stock market index Euro Stoxx 50 (VSTOXX).⁴

All the variables enter the model as logarithmic levels, with the exception of the main refinancing rate, which is modelled as a percentage. Since the Eurosystem lowered

¹ See J Boeckx, M Dossche and G Peersman (2014), Effectiveness and transmission of the ECB's balance sheet policies, CESifo Working Paper 4907.

² The variable examined by Boeckx et al (2014), op cit, also contains balance sheet movements resulting from refinancing operations.

³ See Boeckx et al (2014), op cit and L Gambacorta, B Hofmann and G Peersman (2014), The effectiveness of unconventional monetary policy at the zero lower bound: a cross-country analysis, Journal of Money, Credit and Banking 46, pp 615-642.

⁴ Thus, the dataset is broadly the same as in the studies by G Peersman (2011), Macroeconomic effects of unconventional monetary policy in the euro area, CEPR Discussion Paper 8348, Gambacorta et al (2014), op cit, and Boeckx et al (2014), op cit. In contrast to these studies, however, instead of modelling the Eurosystem's overall balance sheet, the two balance sheet items "Lending to euro area credit institutions related to monetary policy operations denominated in euro" and "Securities held for monetary policy purposes" are modelled separately. The former comprises all monetary policy refinancing operations, while the latter shows the liquidity provision resulting from all the purchasing programmes. It should be noted here that the securities holdings for monetary policy purposes listed on the Eurosystem balance sheet are reported at amortised cost, and therefore only represent an approximation of the actual purchases. In order to identify a policy shock as precisely as possible, market interest rates, which may be influenced by other factors, are excluded. The data used were obtained from Datastream, Haver and the ECB's statistical data warehouse.

the deposit facility interest rate to zero in July 2012, monthly data are used for the period from July 2012 to June 2016, so that the estimations deliberately cover the period in which the zero lower bound on interest rates was significant for monetary policy. The model is estimated using Bayesian methods, with the aid of a "dummy observations prior".⁵

In order to identify a structural shock, the model is written out in structural form as

$$A_0 x_t = a + \sum_{j=1}^{p} A_j x_{t-j} + \varepsilon_t$$
 with $t = 1, ..., T$

 A_0 represents an (NxN) matrix, where $A_j = A_0 B_{j'}$ $a = A_0 c$ and $\varepsilon_t = A_0 u_t$. Here, $\varepsilon_t \sim N(0, I_N)$ with I_N representing a unit matrix and $E(u_t u_t') = (A'_0 A_0)^{-1} = \Omega$.

In order to identify a shock caused by quantitative easing by the Eurosystem, ie a QE shock, A_0 is chosen in accordance with Arias et al (2014)⁶ in such a way that the shock generates impulse response functions which comply with particular zero and sign restrictions over a given time horizon (see chart opposite).⁷ The restrictions chosen enable the shock to be attributed plausibly, and on sound economic foundations, to exogenous quantitative easing, thus separating it as clearly as possible from other shocks.

The bond purchases cause an increase in the balance sheet item "Securities held for monetary policy purposes", which is why a positive sign restriction is imposed here. In order to separate bond purchases from refinancing operations with banks⁸, it is assumed that the Eurosystem's liquidity provision for monetary policy purposes does not change in the event of a QE shock. In addition, the shock is separated from conventional monetary policy shocks by assuming

Restrictions assumed to identify a QE shock

Variable	Restriction	Time horizon
$euro_t \\ asset_t \\ lend_t \\ mro_t \\ y_t \\ p_t \\ vstoxx_t$	* 0 0 0 0 0 0	0-1 0 0 0 0 0-1

Restrictions: 0 = The given variable does not initially change as a result of the shock. + (-) = The given variable increases (decreases). * = No restriction is imposed. Time horizon: 0 = The restriction only applies contemporaneously, ie for the month in which the shock occurs. 0-1 = The given restriction is imposed not only contemporaneously but also for the following month. Deutsche Bundesbank

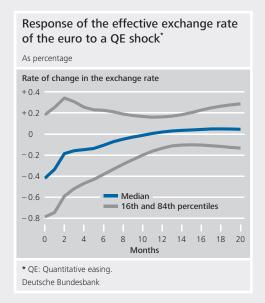
that the main refinancing rate does not change contemporaneously. Since the estimation is based on monthly data, it is also assumed that there are no contemporaneous changes in industrial production or prices. This approach conforms to the view that these two variables only react to a monetary policy shock with a time lag. The negative sign restriction for the VSTOXX is intended to exclude the possibility that the shock might reflect an endogenous reaction

⁵ The dummy observations prior used is based on the Minnesota prior and expands the dataset with artificial data (dummy observations) containing the prior probability. In this case, the prior for the autoregressive coefficient is set to 1, since non-stationary data are used. The parameters for overall tightness, lag decay and exogenous variable tightness are set to 0.1, 1 and 100 respectively, in line with the usual values given in the literature. For more information, see M Bańbura, D Giannone and L Reichlin (2010), Large Bayesian vector auto regressions, Journal of Applied Econometrics 25, pp 71-92.

⁶ See JE Arias, JF Rubio-Ramírez and DF Waggoner (2014), Inference based on SVARs identified with sign and zero restrictions: theory and applications, International Finance Discussion Paper 1100, Board of Governors of the Federal Reserve System.

⁷ A total of 5,000 draws are used, following 5,000 rejected draws (burn-in).

⁸ This includes euro-denominated claims on credit institutions in the euro area resulting from monetary policy operations, such as, for example, main refinancing operations and longer-term refinancing operations.



by the central bank to increased financial market stress.⁹

Since this report concerns the exchange rate effects of quantitative easing, only the reaction of the exchange rate will be shown here. The chart above shows the impulse response function of the exchange rate as a result of a QE shock which expands the balance sheet item "Securities held for monetary policy purposes" by an initial 1%.¹⁰ The impulse response function gives the rate of change in the exchange rate, with the blue line representing the median reaction and the grey lines representing the 16th and 84th percentiles of the posterior distributions.

Although the impulse response function indicates that the effective exchange rate of the euro against 19 major trading partners might depreciate as a result of the identified QE shock, this effect is not significant. Our analysis, therefore, reaches a different conclusion from studies such as those by, say, Boeckx et al (2014) and Wieladek and Pascual (2016); this may be attributable to the different methods used to identify shocks.¹¹ As mentioned above, Boeckx et al (2014) identify a non-standard monetary policy shock by a general expansion in the Eurosystem's balance sheet. They therefore consider a broader spectrum of monetary policy measures than securities purchase programmes alone. The fact that no significant impact was identified in our analysis, in contrast to Boeckx et al, could therefore indicate that the effects identified in the latter study are not exclusively attributable to the Eurosystem's quantitative easing measures.¹²

Wieladek and Pascual (2016), on the other hand, concentrate on announcement effects, whereas our BVAR estimation only takes into account the actual purchase operations. Therefore, the results are not directly comparable. Moreover, the present analysis covers several programmes, so that the identified effects accordingly represent an average of the various purchasing programmes implemented since 2012.

⁹ A restriction of this type is also used, for example, by Gambacorta et al (2014), op cit, as well as by P Anaya, M Hachula and C Offermanns (2015), Spillovers of U.S. unconventional monetary policy to emerging markets: the role of capital flows, School of Business & Economics Discussion Paper 2015/35, Freie Universität Berlin. In the study by Boeckx et al (2014), op cit, the ECB's CISS indicator is used instead; however, this also reflects stress in foreign exchange markets. Since the present study concentrates particularly on exchange rate effects, the VSTOXX is therefore preferred. The results presented below do not change if no sign restriction is imposed on the VSTOXX.

¹⁰ This corresponds to an average growth of \in 3 billion.

¹¹ For more information, see J Boeckx et al (2014), op cit, as well as T Wieladek and AG Pascual (2016), The European Central Bank's QE: a new hope, CEPR Discussion Paper 11309.

¹² If the identification method used in the present study is unable to completely isolate the effects of purchasing operations from announcement effects, the estimated exchange rate reaction, which is already low, might even be overstated.

be possible to use this method to identify short-term exchange rate responses to bond purchases that subsided again over the course of a month.

... or by a regression analysis approach, ... The second econometric method used to determine the exchange rate effects of actual asset purchase operations by the Eurosystem is a regression analysis approach. This method had previously been applied in a similar fashion to analyse asset purchases carried out by the US Federal Reserve, where it provided evidence of distinct reactions in the US dollar's exchange rate.³² One advantage of this approach is its exclusive use of financial market variables available at a high frequency, which allows it to capture short-term exchange rate reactions as well. However, when applied to the Eurosystem's asset purchase operations, this approach was likewise unable to identify a statistically significant effect on the euro's effective exchange rate (see the box on pages 38 and 39), especially when the analysis is confined to the period of government bond purchases under the PSPP.³³

... that might have something to do with the euro's sharp depreciation before purchases started This finding raises the question as to what factors might be driving these observations. It is conceivable, for instance, that the euro's depreciation in the period leading up to March 2015 (which saw the start of the particularly large-volume government bond purchases), a movement which is sure to have been related to expectation and announcement effects associated with the purchase programme, already included all the effects of the programme on the euro's exchange rate, including future ones, or even that it represented an overshooting on the part of the euro's exchange rate. Council announced the APP, when the euro's effective exchange rate sustained its secondlargest fall on the day since the single currency was introduced. This is all the more remarkable given that market participants' expectations in this regard had already helped send the euro's exchange rate lower in the preceding weeks. However, it is extremely difficult to quantify the relevant effects, and thus a distinct margin of uncertainty remains.

The decisions passed by the Governing Council in December 2015, March 2016 and December 2016 to expand the asset purchases tended to exert less downward pressure on the euro, even after factoring in the exchange rate response to the formation of expectations in the market. Furthermore, there are indications that non-euro-area residents had markedly reduced their holdings of PSPP-eligible bonds on balance by mid-2016, and that they had shifted their entire asset holdings held in custody in the euro area out of euro-denominated assets into other assets. All other things being equal, this ought to have broadly put a strain on the euro. Two alternative analyses, however, suggest that the Eurosystem's actual purchase operations had no significant additional effects on the effective exchange rate of the euro.

Conclusion

Theoretical reasoning suggests that Eurosystem asset purchases ought to depress the value of the euro, and that was indeed the case on 23 January 2015, one day after the Governing

³² See Fratzscher et al (2013), op cit. **33** The estimated impact on the EUR/USD exchange rate was also insignificant.

Securities purchases under the Eurosystem's asset purchase programmes: a linear regression analysis of the euro's exchange rate

This article uses a regression analysis approach inspired by Fratzscher et al (2016)¹ to estimate the effects of the Eurosystem's actual purchasing operations on the effective exchange rate of the euro against 19 major trading partners. Its methodology differs from that of the study described on pages 34 to 36. One difference is that, in order to identify the effects of the Eurosystem's securities purchases, the following regression equation is estimated:

 $\Delta y_t = c + \alpha \, \Delta A S_t + \beta \Delta K_{t-1} + \varepsilon_t.$

Let Δy_t represent the percentage change in the euro's exchange rate as a response variable. Positive values reflect an appreciation of the euro. This is regressed on a constant (*c*) as well as on concurrent net bond purchases (ΔAS_t) and the first difference of control variables of the preceding period ($\Delta K_{t,1}$). The regression coefficients α and β describe the relationship between the bond purchases (or the control variables) and the euro's exchange rate; ε_t designates a disturbance term.

A second significant difference between this approach and the BVAR approach is that the current analysis is based solely on higher-

Control variables			
Variable	Description		
VSTOXX	First differences of the VSTOXX volatility index (in percentage points). Source: Datastream		
Yields on ten-year bonds (euro area)	First differences of yields on ten-year government bonds in the euro area (benchmark: GDP- weighted average of issuing countries; in percentage points). Source: Bundesbank		
Short-term interest rates (euro area)	First differences of a three-month OIS swap rate. Source: Bloomberg		
Euro Stoxx 50	First differences of logs of the Euro Stoxx 50 index (percentage rates of change). Source: Datastream		
Deutsche Bundesbank	(

frequency financial market data, meaning that it can also capture shorter-term exchange rate effects of Eurosystem bond purchases. To this end, either the daily or weekly data for the period July 2009 to June 2016 are used for the estimation. This means that the beginning of the time horizon for the analysis coincides with the beginning of the purchases of assets held by the Eurosystem for monetary policy purposes. The period is divided into several sections in order to analyse the robustness of the estimated results. Firstly, the entire period taken into account in this study is analysed. Secondly, the period during which the interest rate on the deposit facility stood at 0% or below (July 2012 to June 2016) is studied. Thirdly, the estimation is based on the period during which the Eurosystem purchased government bonds within the framework of the Public Sector Purchase Programme (PSPP), which ran from March 2015 to June 2016.

The time series for executed bond purchases is based on the holdings of securities for monetary policy purposes, which are published by the ECB in its weekly financial statements (in trillions of euro).² The weekly inflows and outflows are used directly for estimations made on a weekly basis. Alternatively, they are distributed evenly over the trading days in a week, as in Fratzscher et al (2013), to obtain corresponding daily data through interpolation.³

As the time series is virtually linear in some places (see chart on page 32), an additional indicator variable is generated for asset pur-

¹ See M Fratzscher, M Lo Duca and R Straub (2016), ECB unconventional monetary policy: market impact and international spillovers, IMF Economic Review 64, pp 36-74.

² The portfolios in the Eurosystem's balance sheet are valued at amortised cost.

³ See M Fratzscher, M Lo Duca and R Straub (2013), On the international spillovers of US quantitative easing, ECB Working Paper 1557.

	Daily data		Weekly data	
Estimation period	Regressor:	Regressor:	Regressor:	Regressor:
	original time series	indicator variable	original time series	indicator variable
July 2009 to June 2016	0.0234	-0.0001*	-0.0009	-0.0006
	(0.3591)	(-1.6577)	(-0.0177)	(-1.5562)
July 2012 to June 2016	0.0292	-0.0001	0.0057	-0.0006
	(0.4649)	(-1.4659)	(0.1099)	(-1.6204)
March 2015 to June 2016	0.1984	0.0005	0.2127	-0.0009
	(0.7540)	(1.0948)	(0.9646)	(-0.2578)

Estimated values for α using alternative estimations

* = significant at the 10% level; t-statistics in brackets.

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chases. It takes the value of "1" in weeks of net asset purchases, "-1" in weeks of net reductions of bond holdings, and "0" otherwise. This series is used as an alternative to the actual time series for asset purchases.

To prevent potential endogeneity problems, only lagged values of the control variables listed in the table on page 38 are used. The control variables have the following functions within the regression analysis: VSTOXX and stock market indices cover the influence of uncertainty (market risk) on the exchange rate. Additionally, the stock price indices and the long-term interest rates can monitor expectations with regard to future economic developments. Exchange rate effects of conventional monetary policy are covered by shortterm interest rates.

As financial market data time series often suffer from heteroscedasticity, the regressions for daily data are carried out with the aid of a heteroscedasticity and autocorrelation consistent estimation procedure (HAC estimator), which results in a consistent estimation of standard errors even if the assumptions of the classical regression model are violated. The OLS method is used for weekly data estimations.⁴

The results of the influence of Eurosystem asset purchases on the effective exchange rate of the euro against 19 trading partners (see table above) reveal that the relevant coefficient is generally insignificant, regardless of the selected estimation period, the data frequency (daily or weekly data) or the regressor (asset purchase volumes or indicator variable). Slight indications of a significant influence appear at the 10% level if the maximum estimation period and daily data are used when applying an indicator variable. In such cases, the regression coefficient of asset purchases is negative, which corresponds to an effective depreciation of the euro in response to an expansion of bond holdings. On the other hand, if observation is restricted to the period since the beginning of PSPP asset purchases, the results are consistently positive, apart from dummy series for weekly data, and are by no means statistically significant.

On balance, the estimations cannot prove that the Eurosystem's actual asset purchase operations have affected the exchange rate of the euro.⁵ However, the differing signs of the estimated coefficients for alternative estimation periods could suggest that the lack of significance is attributable to the inconclusive response of the euro to purchase operations over time.

⁴ Such series of tests for heteroscedasticity (eg those of Breusch-Pagan-Godfrey and Harvey) advocate a different approach for handling daily and weekly data. 5 Estimations for which the euro-US dollar exchange rate is used as the response variable instead of the effective exchange rate of the euro present a similar picture. For this estimation, the percentage change in the S&P 500 as well as the first differences of the three-month swap rate on the US OIS rate and the yield on ten-year US Treasuries are used as control variables.

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Recent developments in the indebtedness of the private non-financial sector in selected euro-area countries

In the 2000s, against the backdrop of optimistic income expectations and favourable financing conditions, there was a marked rise in the debt levels of non-financial corporations and house-holds in some euro-area countries. In the wake of the financial and economic crisis and the European debt crisis, the income situation was reassessed and the financing conditions were tight-ened. The balance sheet mismatches that this uncovered revealed the need for balance sheet adjustments via a deleveraging process in the private non-financial sector.

While deleveraging did not make much headway in the first few years after the onset of the crisis, it has accelerated considerably since 2012. Although there is a certain heterogeneity in the adjustment progress from country to country and sector to sector, a significant portion of the pre-crisis rise in debt ratios has, for the most part, already been corrected. However, the deleveraging process has not yet been fully completed. The decline in debt has been driven primarily by the active repayment of debt from current income. By contrast, stock-flow adjustments in the form of writedowns have, with few exceptions, played only a minor role. This is currently reflected in the levels of non-performing loans on the books of the national banking systems, which for the most part remain high.

Historical examples suggest that the deleveraging process is faster where active deleveraging is accompanied by stock-flow adjustments. Economic developments in the euro area in recent years, which have been weak by international standards, are therefore likely to be at least partly attributable to the pronounced active repayment of debt from current income and the feedback effects this causes. However, stock-flow adjustments can also be accompanied by the misallocation of financial resources as a result of adverse incentives, as well as by heightened risks to financial stability. Insolvency frameworks are a prerequisite for a swift reduction in unsustainable debt via stock-flow adjustments. As these frameworks have undergone significant reform in recent years in most of the countries concerned, what matters now is their consistent application. An insolvency framework-induced reduction in debt levels, which are still high in some cases, could provide the deleveraging process with additional impetus. At the same time, this would encourage the reallocation of resources and thereby support potential growth, provided institutional reforms are carried out in a manner consistent with the protection of legitimate expectations and legal certainty.

Introduction

Sharp rise in pre-crisis debt levels of private non-financial sector in some euro-area countries In the years prior to the onset of the financial and economic crisis there was an unsustainable rise in the debt levels of the private nonfinancial sector in some euro-area countries. In the wake of the crisis, a reassessment of income prospects and asset valuations in all countries caught up in the European debt crisis revealed an extensive need for balance sheet adjustments in some cases. Households and non-financial corporations reacted to these balance sheet mismatches by reducing their debt levels.¹

Deleveraging can impact real economic development for a long period and weaken monetary policy measures Deleveraging is of relevance for economic policy makers in general and for monetary policy makers in particular, above all because of the possible negative repercussions on the real economy and thus also on price developments. For example, historical studies show that recessions accompanied by a necessary reduction in debt overhang are, on average, more prolonged and associated with markedly weaker economic activity.² In this adjustment phase, debtors in the private non-financial sector use their income to a greater extent to reduce their debt. Even if this only results in a redistribution of funds from debtors to creditors, the likely effect is to curb macroeconomic consumption and investment, as creditors generally have a lower propensity to spend than debtors.³ In monetary policy terms, this means that expansionary monetary policy measures to stimulate aggregate demand for goods via consumption and investment can, in such an environment requiring adjustment processes, have a comparatively weak effect or work comparatively more slowly, as long as balance sheet constraints impede demand from the private nonfinancial sector. In addition to the negative effects on economic activity, the reallocation of the capital stock to more productive valueadded areas can be negatively affected by low investment, which in turn could lead to lower potential growth.

Previous analyses of the debt situation of the private non-financial sector in the euro area concluded that the deleveraging process in the countries concerned following the onset of the financial crisis was rather weak in comparison to the typical path of previous deleveraging phases.⁴ Against this backdrop, this article documents how far the reduction in the debt overhang has progressed since 2012 and the adjustment channels through which it has occurred. It also sets out potential implications of deleveraging for the real economy and draws conclusions for economic policy-making.

Assessment of the private non-financial sector debt situation

Debt ratio over time

The debt ratio usually serves as the key indicator for assessing the debt situation of the private non-financial sector – not least because of the good data availability and the high international comparability. It places sectoral debt – calculated on the basis of the financial accounts and in the following defined as the sum of loans, debt securities, insurance technical reserves, trade credits and advances – in relation to an income stream such as gross domes-

Debt ratio key indicator for assessing the debt situation

¹ See Deutsche Bundesbank, Private debt – status quo, need for adjustment and policy implications, Monthly Report, January 2014, pp 53-65.

² See O Jordà, M Schularik and AM Taylor (2013), When credit bites back, Journal of Money, Credit & Banking, 45(2), pp 3-28; and Deutsche Bundesbank (2014), op cit. 3 See, for example, M Goretti and M Souto (2012), Macro financial implications of corporate (de)leveraging in the euro area periphery, IMF Working Paper No 154; A Mian, K Rao and A Sufi (2013), Household balance sheets, consumption, and the economic slump, Quarterly Journal of Economics, pp 1687-1726; B Albuquerque and G Krustev (2015), Debt overhang and deleveraging in the US household sector: gauging the impact on consumption, ECB Working Paper Series, No 1843; A Mian, A Sufi and E Verner (2015), Household debt and business cycles worldwide, mimeo.

⁴ See Deutsche Bundesbank (2014), op cit.

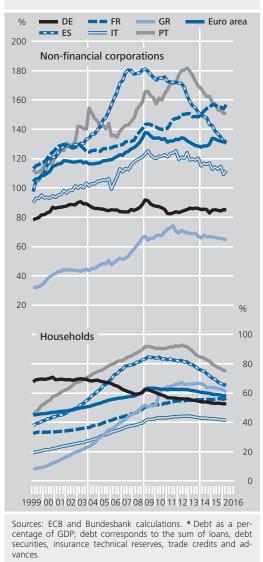
tic product (GDP).⁵ As debt is often repaid from current income, this indicator aims to show the long-term economic sustainability of the debt. A low debt ratio implies that the debt stock of a sector stands in relation to a relatively high income that can be used to repay the debt. The sectoral aggregate data used here therefore do not take into account possible distribution effects relating to debt and assets within the individual sectors.

Strong increase in the 2000s, particularly in Portugal and Spain The adjacent chart shows the development of debt ratios for non-financial corporations and households in countries heavily affected by the European debt crisis, namely Greece, Italy, Spain and Portugal, as well as in the two largest euro-area countries, Germany and France.⁶ The development of the euro-area aggregate is additionally shown as a benchmark. There was a strong rise in debt in the 2000s, particularly for non-financial corporations and households in Spain and Portugal. Fairly strong upward momentum could also be seen for households in Greece until 2012, albeit starting from an extremely low level. By contrast, non-financial corporations and households in Italy were characterised by a somewhat more modest development and a low debt level compared to other countries. On the other hand, German households, which were still the most indebted

5 In earlier publications the debt definition included only loans, debt securities and insurance technical reserves. Since the change-over from the European System of Accounts (ESA) 1995 to ESA 2010, it is now also possible to statistically isolate trade credits and advances, which are also debt instruments. For an account of the change-over to ESA 2010, see Deutsche Bundesbank, Methodological changes in the financial accounts - background, approach and selected results, Monthly Report, October 2014, pp 13-26. The data are taken on an unconsolidated basis and thus include intra-sectoral liabilities such as loans between non-financial corporations. Ideally, the intra-sectoral liabilities should be corrected to exclude intra-group liabilities, as these do not represent a payment obligation in the stricter sense. However, as these cannot be distinguished from the remaining intra-sectoral loans on the basis of existing data sources, the debt level as relevant from an economic perspective tends to be overstated.

6 The debt data are taken from the financial accounts compiled according to ESA 2010, as provided by the European Central Bank or the respective national central banks. For Italy, the backdata prior to 2012 are based on ESA 1995. The development in Ireland is not shown here because, in the case of non-financial corporations, it is distorted by the presence of international enterprises.

Debt ratios*



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when the monetary union was founded, have gradually reduced their liabilities.

During the European debt crisis between 2010 and 2013, the debt ratios of the private nonfinancial sector began to fall, particularly in Spain and Portugal. This process has accelerated markedly since mid-2012. Compared to the respective peaks, there has been a substantial reduction in the debt ratios among nonfinancial corporations of just over 50 percentage points in Spain and around 30 percentage points in Portugal. Household debt ratios have fallen in each case by nearly 20 percentage points. Thus, in both countries, approximately

Marked decline in Portugal and Spain since mid-2012 half of the increase in debt ratios recorded between the beginning of 2000 and the respective peaks has since been cut back.

Sideways movement in Germany, Italy and Greece; sliaht but persistent rise in France

By contrast, the debt ratios of the private nonfinancial sectors in Germany, Italy and Greece, which have rather low debt levels by international standards, as well as in the euro area as a whole have shown a persistent sideways movement in recent years. Only in France has there been a continuation of the slight, but persistent, upward trend. At the current end of the data, non-financial corporations in France have the highest debt ratio among all of the countries considered here.7 The sideways trend at the level of the euro area in recent years stands in contrast in part to the developments in other large economies (see box on pages 45 and 46).

Determinants of the change in the debt ratio

Change in the debt ratio ...

In order to be able to draw conclusions on the type of deleveraging process, the change in the debt ratio is broken down into the contributions of its sub-components. The denominator of the debt ratio - GDP - is broken down into the contributions of real GDP and of the GDP deflator, ie an indicator of macroeconomic price developments; the change in the level of debt - the numerator in the debt ratio - is subdivided into three components: transactions, write-downs and other changes.

... attributable to various factors

Transactions correspond to active increases or reductions in debt. Stock-flow adjustments made in the form of write-downs are reductions in the nominal amount of existing liabilities and take place, for example, as a result of loan renegotiations in the case of payment difficulties or outright defaults in the case of insolvency. As write-downs are not listed separately in the financial accounts, the data from the monthly balance sheet statistics of the monetary financial institutions (MFIs) are also taken into account. The information on write-

downs thus relates only to bank loans. However, as these usually make up a large portion of the aggregate indebtedness of the private non-financial sector, a significant share of all write-downs should therefore be covered by this.8 Other changes thus encompass all other factors that influence the debt level, except transactions and write-downs. These include market price or exchange rate fluctuations, statistical changes to the debt level, and writedowns on debt instruments other than bank loans. The chart on page 47 shows the contributions to the change in the debt ratio since the deleveraging process began to accelerate in mid-2012.

In all of the countries considered here, except Economic Greece and Italy, both real GDP growth and the increase in the GDP deflator contributed to a reduction in the debt ratios. This means that the deleveraging process was supported by *countries* both economic developments and the increase in the price level. In Italy, by contrast, real economic growth did not make any contribution to the fall in the debt ratio, as the economic recovery there has thus far been very weak. In Spain, where, alongside Portugal, the debt ratio of the private non-financial sector has decreased the most over the last few years, a substantial part of the reduction in the debt ratio was due, in addition to active deleveraging, to write-downs on bank loans. This was particularly true for non-financial corporations, and, to a somewhat lesser extent, for households, too. The major importance of write-downs in Spain

growth and

almost all

debt repayments

contribute to a reduction in

⁷ As intrasectoral loans are of major significance in the cross-country comparison and consist at least in part of intra-group liabilities that are of no consequence to debt sustainability, the unconsolidated debt shown here should paint a somewhat too negative picture of the debt situation of non-financial corporations in France. However, even after adjusting the debt ratio to exclude intrasectoral loans, a steady upward trend can still be observed and, at the current end of the data, France posts the secondhighest value (after Portugal) of all countries under consideration here

⁸ In the MFI balance sheet statistics, other adjustments are comprised of write-downs and changes to the nominal value. As loans are not subject to market price fluctuations, other adjustments can be equated to write-downs. See Manual on MFI balance sheet statistics, Chapter 1, ECB, April 2012.

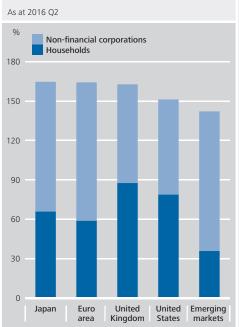
Debt - an international comparison

While debt¹ accumulated in the euro area in the 2000s, the United States as well as several major emerging market economies also saw an increase in debt levels, which, in 2008, culminated both in the real estate crisis in the United States and the global financial crisis. However, the euro area, the United States, the United Kingdom, Japan and the group of emerging market economies have experienced very different developments in the wake of the crisis, particularly in recent years.

Debt in the United States accumulated at a similar pace to that in the euro area. However, after peaking in 2008 at a debt ratio of 169%, this trend gave way - earlier than in the euro area - to a phase of deleveraging, which lasted until 2012. In contrast to the situation in the euro area, this deleveraging - like the accumulation of debt before it – was driven mainly by households. Since then, the debt ratio of the private non-financial sector in the United States has remained largely constant, which can, as in the euro area, be attributed to the fact that nominal gross domestic product (GDP) has grown roughly in line with debt. However, back in 2012, the US debt ratio, at just under 150%, was already lower than the current level in the euro area (where it stood at 164% in the second quarter of 2016).

Developments in debt in the United Kingdom were similar to those in the United States, only more pronounced, on the whole. Households and non-financial corporations in the United Kingdom contributed in roughly equal parts to both the accumulation and the reduction of debt. Somewhat later than in the United States, 2010 saw the beginning of an intensive phase of deleveraging, which started at a debt ratio of 192% and has persisted up to the current end (in the second quarter of 2016, the ratio was 163%). This can be attributed to strong GDP growth and, at times, active deleveraging. Household debt, in particular, is currently still high by international standards, however.

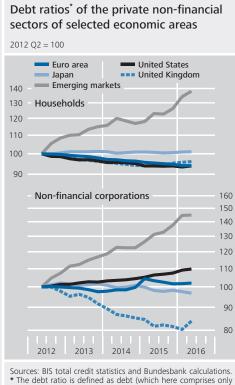
Developments in Japan and in the group of emerging market economies were strikingly different. In Japan, the private non-financial sector, predominantly the part consisting of



Debt ratios^{*} of the private non-financial sectors of selected economic areas

¹ For the purposes of this international comparison, debt is defined only as loans and debt securities and, therefore, excludes pension provisions and trade credits. This facilitates the international comparability of the data, which are taken from the Bank for International Settlements' total credit statistics. Consequently, the debt ratio cited here is lower than elsewhere in this article.

Sources: BIS total credit statistics and Bundesbank calculations. * The debt ratio is defined as debt (which here comprises only loans and debt securities due to limited data availability) as a percentage of GDP. Deutsche Bundesbank



* The debt ratio is defined as debt (which here comprises only loans and debt securities due to limited data availability) as a percentage of GDP. Deutsche Bundesbank

non-financial corporations, was very heavily indebted, with debt ratios of up to 220% in the 1980s and 1990s. In the mid-1990s, an adjustment process was set in train, in which the private non-financial sector underwent significant deleveraging, while government debt inversely started to grow and, as a percentage of GDP, currently exceeds other industrial countries' levels. This development meant that Japan, unlike many other countries, experienced a decline in the debt ratio of the private nonfinancial sector in the run-up to the financial and economic crisis. Even after the onset of the financial crisis, which in Japan was accompanied by a slight increase in debt, a sideways movement started, with debt even, at times, declining somewhat. This was the result of broadly similar developments in debt and GDP. At 165%, the debt ratio of the private non-financial sector in Japan in mid-2016 was, however, still very high by international standards, which was attributable mainly to non-financial corporations.

Developments in the emerging market economies also diverged significantly from those in the United States, the United Kingdom and the euro-area countries. Whereas debt levels in the private non-financial sector were still very low in the years leading up to the financial crisis and grew relatively slowly, a sharp increase started in 2008, bringing the debt ratio (currently 142%) close to that of the other countries under review. The muted GDP growth experienced in many emerging economies, particularly since 2015, was unable to keep up with the active accumulation of debt. The rise in debt was propelled mainly by nonfinancial corporations, whose current-end debt ratio, at 106%, has even exceeded that of non-financial corporations in the euro area. Given low interest rates in the industrial countries, large volumes of liabilities denominated in foreign currency were established, thus increasing vulnerability to exchange rate fluctuations and changes in commodity prices. Among the emerging economies, China in particular drove the build-up of debt, with the debt ratio of the private non-financial sector rising from 115% in 2008 to values in excess of 200% at the current end - here, too, driven principally by non-financial corporations. Conversely, the ratios of other large emerging economies, such as Brazil, Russia, India or South Africa, are currently significantly smaller – at less than 75% each – although Russia and Brazil have also experienced a substantial rise in debt from a low level since 2008.

is closely linked to the SAREB bad bank, which took on a substantial volume of non-performing assets from Spanish banks, with significant haircuts on the nominal value, and liquidated them in a value-preserving manner. It therefore contributed to a comprehensive balance sheet restructuring in the Spanish banking sector and, mirroring this, provided relief for the balance sheets of the private non-financial sector.⁹ In Portugal, Italy and Greece, by contrast, write-downs played only a minor role. Here, developments were driven to a greater extent by active deleveraging.

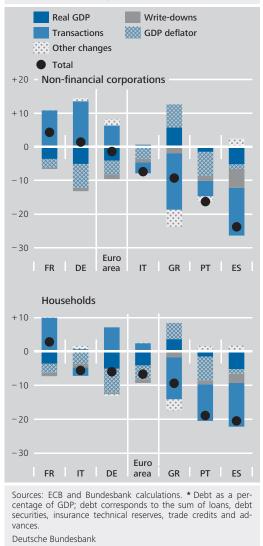
Alternative indicators for assessing the debt situation

Debt service ratio measures the portion of income used to service debt

In addition to the importance of current income in the long term, debt sustainability can also be influenced by other factors in the short term. For example, the actual interest burden associated with servicing the debt can vary temporarily. This is especially the case when the interest payment obligations are variable and linked to a benchmark interest rate that, in turn, is influenced by monetary policy. One indicator that takes this circumstance into account is the debt service ratio. This places the sum of the interest and redemption payments made in a single period in relation to aggregate income in the same period. Unlike the debt ratio, where a stock variable, ie indebtedness, is placed in relation to a flow variable, ie income, in this case the numerator is therefore also a flow variable. The indicator thus measures the share of income that must be used to service debt, ie for interest and redemption payments. All other things being equal, a given debt level will be more sustainable and, in the short term, require fewer balance sheet adjustments in the form of foregoing consumption or scaling back investment when the interest and repayment burden relative to income is low. For a given debt level, this can be the result of low interest rates - for example, owing to an expansionary monetary policy – or of a long borrowing term in which the redemption pay-

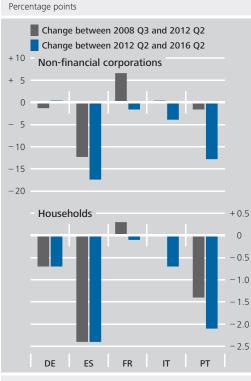
Change in the debt ratio^{*} and contributions made by its components

Percentage change between 2012 Q2 and 2016 Q2 and contributions in percentage points



ments in each period are correspondingly low. The chart on page 48 shows the change in debt service ratios between the second quarter of 2012 (when the deleveraging process began to intensify) and the current end of the data (second quarter of 2016). For the purposes of comparison, the change between the third quarter of 2008 (the onset of the global finan-

⁹ For more information, see Fund for Orderly Bank Restructuring, Asset Management Company for Assets Arising from the Bank Restructuring, 16 November 2012.



Change in debt service ratios*

Sources: BIS and Bundesbank calculations. * The debt service ratio presents the sum of interest and redemption payments in relation to sectoral income. Deutsche Bundesbank

cial and economic crisis) and mid-2012 is also shown.¹⁰

Debt service ratio falling in Spain and Portugal even prior to start of deleveraging process In the case of non-financial corporations and households in Spain and Portugal, which were particularly highly indebted prior to the onset of the crisis, the debt service ratio had already started to fall in the wake of key interest rate cuts by the Eurosystem in the second half of 2008, meaning that it decreased much sooner and to a considerably greater extent than the debt ratio. As the share of income needed for interest payments was subsequently lower, balance sheet constraints were eased in the private non-financial sector and, when viewed in isolation, the decline in consumption and investment via this channel was mitigated.¹¹ This development may be partly due to the fact that loans subject to variable interest rates that move in line with a money market yield are more common in these two countries than in other euro-area countries.¹² By contrast, the

debt service ratios and debt ratios of the remaining countries under review here, in which loans are usually granted on a fixed-rate basis, followed a fairly similar pattern.¹³

While short-term payment obligations are better captured by the debt service ratio than the debt ratio, the former takes no account of the fact that debt can be reduced by selling existing assets to free up funds. Since liquidating the real assets of households (residential properties, in particular) and of non-financial corporations (fixed assets, in particular) as well as certain components of long-term financial assets in times of crisis is usually either difficult Selling liquid assets can free up funds to service debt

10 The data are based on BIS calculations. See M Drehmann, A Illes, M Juselius and M Santos (2015), How much income is used for debt payments? A new database for debt service ratios, BIS Quarterly Review. The authors assume here that on the macroeconomic level, aggregate interest and amortisations are paid in approximately equal amounts in each period, similarly to an instalment loan. The debt service ratio (DSR) at time t is thus calculated using the following formula: $DSR_t = (i_t * D_t) / ((1 + (1 + 1)))$ $(+ i_t)^{-st}$) * $Y_{t^{\prime}}$ where i_t corresponds to the average interest that has to be paid on the debt, D_t is the amount of debt, s_t is the average remaining maturity and Y_t is gross disposable income. As no time series are available for Greece, it is excluded from the analysis. Given the assumption for the debt service ratio that the remaining maturity of the debt is constant over time and across countries, all the differences between the debt service ratio and the debt ratio are attributable to divergent developments in interest payments. 11 In addition to having a stabilising effect, this development simultaneously creates incentives to only gradually address the actual issue of excessive indebtedness, which could, all in all, go as far as to render the economy more vulnerable to future shocks.

12 For information on interest rate characteristics for nonfinancial corporations, see Eurosystem Working Group (2013), Corporate finance and economic activity in the euro area, ECB Occasional Paper, No 151. For households, see ECB (2009), Housing finance in the euro area, Structural Issues Report, p 26.

13 Using the Bank's econometric estimates, the extent to which interest rate changes prompted by monetary policy are passed through to the interest rate on the outstanding debt of households and non-financial corporations was examined. In the context of the global financial crisis and the sovereign debt crisis in the euro area, such an analysis comes with various caveats. For instance, the effects arising from possible changes in financing patterns or in the transmission mechanism can only be approximately estimated at the current juncture. That said, the findings tend to suggest that monetary policy stimulus has, first and foremost, a greater and swifter impact on the debt servicing of households and non-financial corporations in Portugal, Spain and – albeit to a lesser extent – Italy than those in Germany or France. With respect to possible changes in the interest rate pass-through, see Deutsche Bundesbank, The interest rate pass-through in the crisis, Monthly Report, September 2015, p 33.

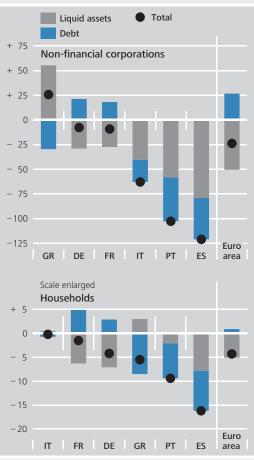
or entails heavy markdowns, making them unlikely to be readily available to service debt, this article focuses solely on liquid financial assets. These are assets in the form of cash, deposits, shares, investment funds and debt securities that can be liquidated or sold without incurring significant costs.¹⁴ Debt and liquid financial assets therefore serve as two stock variables that can be compared in a ratio. A low ratio of debt to liquid financial assets means that, all other things being equal, the debt is set against sizeable assets that could be used to service the debt, irrespective of current income. The adjacent chart shows the change in this indicator for non-financial corporations and households between mid-2012 and the current end of the data, with the overall change also broken down into the contributions made by debt and liquid assets.

Ratio of debt to liquid assets down in most countries and sectors under review

With the exception of non-financial corporations in Greece, all countries and sectors under review have recorded a fall in the ratio of debt to liquid assets since mid-2012. In both sub-sectors of the private non-financial sector in Spain and Portugal, as well as in the case of non-financial corporations in Italy, this development was attributable to both active debt reduction and a rise in liquid assets. Debt reduction therefore goes hand in hand with a higher volume of assets that can be liquidated at short notice, which ought to increase resilience to any negative income and asset price shocks. There was a disproportionately sharp rise in liquid assets in the case of the private nonfinancial sectors in Germany and France, which led to the ratio dwindling despite an accumulation of debt over the past few years.¹⁵ By contrast, liquid assets - particularly deposits - held by non-financial corporations and households in Greece fell. Based on this development, it can be assumed that the private non-financial sector has temporarily used its liquid assets here for debt-servicing purposes. While this has reduced the debt burden, it has also lessened the private non-financial sector's ability to absorb any future adverse income and asset price

Change in the ratio of debt to liquid assets and contributions made by its components^{*}

Percentage change between 2012 Q2 and 2016 Q2 and contributions in percentage points



Sources: ECB and Bundesbank calculations. * Debt corresponds to the sum of loans, debt securities, insurance technical reserves, trade credits and advances. Liquid assets comprise the sum of cash, deposits, shares, investment funds and debt securities.

Deutsche Bundesbank

14 Other, illiquid assets, such as claims against insurance corporations and pension funds or unlisted equity instruments, can usually only be converted into cash at great expense and are therefore poorly suited to mobilisation at short notice. In qualitative terms, the results discussed in this article would be virtually identical if a narrow definition of liquid (current) assets limited to cash, deposits, short-term loans and debt securities were chosen.

15 Looking at the level of, rather than change in, the ratio of debt to liquid assets, it differs significantly from the debt ratio with respect to relative positioning in the case of non-financial corporations in France. While, according to the latest data available, their debt ratio rose steadily to become the highest debt ratio among the countries and sectors under review, debt was at the second-lowest level relative to liquid assets and has remained more or less constant, both over the longer term and in recent years. The high debt levels are thus accompanied by sizeable liquid financial assets.

Indicators for assessing the debt situation of the private non-financial sector*

Change between 2012 Q2 and 2016 Q2 in percentage points

Item	Germany	Spain	France	Italy	Greece	Portugal
Debt ratio						
Non-financial corporations	1.2	- 40.8	6.5	- 9.0	- 6.6	- 29.3
Households	- 3.3	- 16.9	1.5	- 2.5	- 6.3	- 17.6
Debt service ratio						
Non-financial corporations	0.4	- 17.4	- 1.6	- 3.9	-	- 12.8
Households	- 0.7	- 2.4	- 0.1	- 0.7	-	- 2.1
Ratio of debt to liquid assets						
Non-financial corporations	- 18.1	- 171.3	- 10.3	- 60.8	29.6	- 124.1
Households	- 5.4	- 19.0	- 2.4	- 1.4	- 7.5	- 11.8

Sources: BIS, ECB and Bundesbank calculations. * The debt ratio presents debt (sum of loans, debt securities, insurance technical reserves, trade credits and advances) as a percentage of GDP. The debt service ratio presents the sum of interest and redemption payments as a per-centage of sectoral income. Liquid assets comprise the sum of cash, deposits, shares, investment fund shares and debt securities. Deutsche Bundesbank

shocks.¹⁶ The table above summarises the change in the three indicators under review.

Banks' nonperforming loans as a mirror image of debt situation in private nonfinancial sector The ability to service debt is mirrored in creditors' balance sheets. Creditors are almost exclusively from the domestic banking sector in the case of households and largely from said sector in the case of non-financial corporations. The share of non-performing loans as a percentage of banks' total loans provides insight into whether borrowers are making their interest and redemption payments as contractually agreed. A high percentage of delinquent loans may be deemed indicative of an unsustainable level of indebtedness on the part of the private non-financial sector.

High and rising share of nonperforming loans indicative of problems servicing debt in Greece, Italy and Portugal ... Particularly in Greece, but also in Italy and Portugal, the high and rising share of nonperforming loans as a percentage of total loans is a sign that, as a result of weak income growth, it remains difficult for many borrowers in the private non-financial sector to service their debt. The Spanish banking system was likewise initially weighed down by a sharp rise in non-performing loans in the wake of the crisis. However, the volume of non-performing loans has dropped discernibly since the transfer of legacy loan portfolios to a resolution agency at the turn of 2012-13 and the country's significant economic recovery.¹⁷ In Germany and France, non-performing loans are at a moderate and stable level and testify to the high credit quality of borrowers from the private non-financial sector.

The volume of non-performing loans may also restrict banks' credit supply. As loan impairments are recognised in banks' profit or loss, they have a negative impact on their earnings and hinder their efforts to build up capital internally. This, in turn, may increase their funding costs and limit their access to funding. These two factors did indeed deteriorate significantly against the backdrop of strains on the European banking sector during the acute phase of the European debt crisis; together with the necessary balance sheet adjustments in the private non-financial sector, they contributed to a sharp drop in loan dynamics, to which the Eurosystem responded with a series of non-standard monetary policy measures.¹⁸

18 See Deutsche Bundesbank (2015), op cit.

... and may lead to banks imposing restrictions on lending

¹⁶ To a certain extent, the decline in deposits is likely also attributable to withdrawals in the wake of the uncertainties surrounding negotiations concerning the third Greek bailout package.

¹⁷ See Deutsche Bundesbank, Recent developments in loans to euro-area non-financial corporations, Monthly Report, September 2015, pp 15-39.

Final assessment of the debt situation

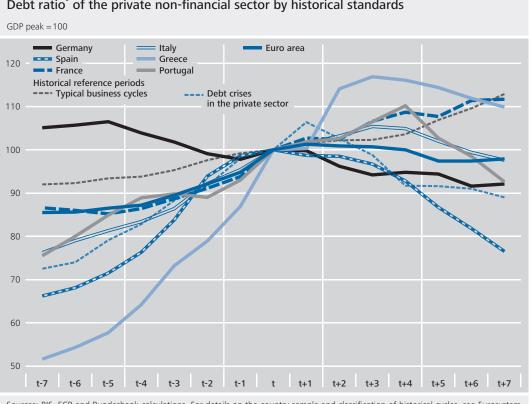
Mapping developments in historical context In the following, debt reduction in the countries affected by the crisis is compared with several typical developments that have been observed in the past, with the aim of making it possible to assess changes in the private nonfinancial sector's debt situation. To this end, the chart on page 52 shows the course of the debt ratio for the private non-financial sector as a whole before and after the GDP peak was reached at the end of 2008 for the countries under review here compared with two historical scenarios cited in the relevant literature: a typical business cycle and a typical private sector debt crisis. The classification of each business cycle is based on a dataset of 15 industrial countries between 1960 and 2012: Australia, Canada, Denmark, Finland, France, Germany, Italy, Japan, the Netherlands, Norway, Spain, Sweden, Switzerland, the United Kingdom and the United States. All in all, 40 typical business cycles and five debt crises (Spain in 1978, Norway in 1987, Finland in 1991, Sweden in 1991 and Japan in 1992) can be identified in the dataset.¹⁹ Private sector debt crises differ from typical business cycles in that they are preceded by a sharp rise in the debt ratio that, once the GDP peak has been reached, decreases just as clearly again in the medium term. Typical business cycles are characterised by a weak but persistent upward movement of the debt ratio both before and after the GDP peak has been reached.

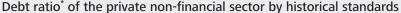
Deleveraging process in Spain already appears to be well underway While the rise in the debt ratio for the private non-financial sector in Spain and Greece was considerably more dynamic than in comparable periods that culminated in a private sector debt crisis, developments in Italy and Portugal, on the other hand, were very similar to those arising during a typical debt crisis. With respect to the debt ratio's period of decline, it is evident that, in Spain, this set in significantly more quickly than in previous private sector debt crises and the decline was much more extensive. Even taking into account the somewhat stronger momentum during the debt build-up phase, it can therefore be concluded that the deleveraging process in Spain already appears to be well underway. While the debt ratio initially fell with a considerable time lag in Portugal, it has now reached a level that corresponds to developments in comparable historical periods. In each of these countries, this process is underpinned by a decline in the debt service ratio that is disproportionately large in comparison with the debt ratio. Resilience to negative shocks has also risen recently as a result of holdings of liquid assets being expanded relative to debt levels. However, the comparatively rapid adjustment of lending rates to move in line with money market developments is also likely to make the non-financial sectors of these countries more vulnerable to any normalisation of the monetary policy stance.

By contrast, the decline in the debt ratio for the private non-financial sector in Italy, and particularly in Greece, is lagging behind what would typically be expected. In Greece's case, this is primarily on account of the sharp fall in economic output in the wake of the Greek sovereign debt crisis. In Italy's case, weak economic performance - which has been persisting for years now - is also hampering a more significant fall in the debt ratio. To put matters into perspective, however, it may be concluded for both countries that, in a cross-country comparison, their debt ratios are rather low, meaning that the need for deleveraging could accordingly be lower than indicated by developments prior to the crisis. Strain is placed on non-financial corporations in Italy, however, due to the buffer of liquid assets being rather low, leaving them with only limited opportunities to service their debt by selling assets in the event of adverse shocks. Households in Italy,

Sluggish economic performance hampering deleveraging process in Greece and Italy

¹⁹ The data pool comprises data from the BIS, ECB and M Schularik and AM Taylor (2012), Credit booms gone bust: monetary policy, leverage cycles and financial crises: 1870-2008, American Economic Review, 102(2), pp 1029-1061. For details on the country sample and classification of historical cycles, see Eurosystem Working Group (2013), Corporate finance and economic activity in the euro area, ECB Occasional Paper, No 151.





on the other hand, find themselves in a relatively comfortable position with respect to liquid assets. The private non-financial sector in Greece has increasingly used liquid assets over the past few years to service its debt, thereby depleting existing reserves. That said, from a cross-country perspective, the ratio of debt to liquid assets remains at a high level, particularly in the case of non-financial corporations.

Developments in France most closely represent typical business cvcle: stable debt situation in Germany

With respect to the private non-financial sector in France, it may be concluded that the persistent, but only moderate, increase in the debt ratio most closely represents developments during a typical business cycle and therefore marks a significant departure from the strong growth recorded in the countries affected by the crisis. While, according to the latest data available, non-financial corporations in France have a relatively high debt ratio, this is put into perspective by the fact that the ratio of debt to liquid assets is very low compared with that of other countries. Germany is the only country under review here in which there was no phase of marked upward movement for the private non-financial sector's debt ratio during the observation period in the case of both nonfinancial corporations and households. This phase of debt reduction can, in part, be interpreted as a countermovement to the debt overhang of the 1990s. Growing profitability was another factor that helped non-financial corporations, as it facilitated a shift towards internal financing.²⁰ The course of the debt ratio over recent years and decades therefore attests to the fact that developments in Germany have diverged greatly from those in other euro-area member states and can, at the same time, be taken as evidence of a now relatively stable debt situation.

Sources: BIS, ECB and Bundesbank calculations. For details on the country sample and classification of historical cycles, see Eurosystem Working Group, Corporate finance and economic activity in the euro area, ECB Occasional Paper 151, August 2013. * Debt as a percentage of GDP; debt corresponds to the sum of loans, debt securities, insurance technical reserves, trade credits and advances. Deutsche Bundesbank

²⁰ For non-financial corporations, see Deutsche Bundesbank, Long-term developments in corporate financing in Germany - evidence based on the financial accounts, Monthly Report, January 2012, pp 13-27.

Developments also need to be viewed with euro-area circumstances in mind The hitherto sluggish pace of adjustment in some countries must, however, also be assessed against the backdrop of the economic situation in the euro area. Compared with the average course of a private sector debt crisis, developments in the euro area were also shaped, inter alia, by balance of payments problems, the lack of private capital flows, the fact that price competitiveness can no longer be improved by making nominal exchange rate adjustments, and strained public finances. It cannot be ruled out that the private and/or public sector would not have been capable of fully bearing the financial burden of broader stock-flow adjustments, with the result that long-lasting active debt repayments came to the fore.

Macroeconomic implications of debt reduction

Debt reduction is of relevance to economic pol-

Debt reduction can have a negative impact on economic developments

icy makers in general and monetary policy makers in particular, above all because of the possible negative repercussions for the real economy. A particularly adverse scenario that can arise as a result of the deleveraging process is known as debt deflation.²¹ This occurs when the private non-financial sector, finding itself in a state of overindebtedness, reduces its liabilities. As a result of highly pronounced negative feedback loops in the real economy, however, this scenario gives rise to a disproportionately large reduction in real income and prices, which runs counter to debt reduction and culminates in the debt ratio going up. Despite actively reducing debt, balance sheet constraints are tightened in such an extreme scenario.

Successful deleveraging in Greece, Italy, Portugal and Spain The chart on page 54 shows that this adverse scenario has not occurred in any of the countries under review here.²² Debt deflation occurs when debt is reduced in a country but the debt ratio increases (upper left quadrant). The private non-financial sectors in Greece, Italy, Portugal and Spain can be found in the lower left quadrant of the successful debt reduction scenario. This is characterised by the fact that the

active debt reduction was accompanied by a reduction in the debt ratio and, as a result, balance sheet constraints were removed. The debt ratio fell even in Greece despite a decline in its real GDP and price level. This implies that nominal income fell in the wake of the deleveraging process, albeit to a lesser extent than the debt.

One reason for the comparatively weak impact of deleveraging on the (domestic) economic performance of these countries could be that the reduction in debt was reflected, at least in part, in a decline in imports, which is having a dampening effect on the decline in domestic demand.²³ At the same time, the deleveraging process in the private non-financial sector was reflected, at least in part, by an increase in public debt resulting from the crisis-related measures taken to stabilise the financial sector and to stimulate economic developments.²⁴ However, it can be said for most of the countries hit by the European debt crisis that even the total debt ratios of non-financial sectors – thus in-

24 See L Buttiglione, P Lane, L Reichlin and V Reinhart (2014), Deleveraging, what deleveraging?, The 16th Geneva Report on the World Economy.

Debt ratios in most countries under review below 2014 peak

²¹ The idea of debt deflation dates back to the work of Irving Fisher. See I Fisher (1933), The debt-deflation theory of great depressions, Econometrica 1, pp 337-357. The approach has been further developed by Hyman Minsky and Richard Koo, among others. See H P Minsky (1981), Debt deflation processes in today's institutional environment, Hyman P Minsky Archive, Paper No 299, and R Koo (2009), The holy grail of macroeconomics – lessons from Japan's great recession, Wiley, Singapore. A formalised version of these approaches can be found in G B Eggertsson and P Krugman (2012), Debt, deleveraging, and the liquidity trap: a Fisher-Minsky-Koo approach, The Quarterly Journal of Economics 127(3), pp 1469-1513.

²² The chart is based on a graph in European Commission, Private sector deleveraging: where do we stand?, Quarterly report on the euro area, Vol 13 (3), October 2014. The calculations focus on changes in recent years because most of the active deleveraging only took place over this period. With the exception of Greece, the results are almost identical if the starting point for the review period is pushed further back into the past. The case of Greece shows that active deleveraging causes an increase in the debt ratio. However, the sharp decline in economic activity should not be attributed primarily to active deleveraging in the private non-financial sector but rather to the Greek sovereign debt crisis

²³ Empirical studies show that changes in the private nonfinancial sector's level of debt had a significant impact on the current accounts of the countries affected by the crisis. See R Unger (2017), Asymmetric credit growth and current account imbalances in the euro area, Journal of International Money and Finance, forthcoming.



Active debt build-up and reduction as well as change in the debt ratio^{*}

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cluding the public sector - have now fallen below their record highs, most of which were reached towards the end of 2014. This macroeconomic deleveraging was, in turn, reflected in lower net external liabilities, thus reducing dependence on cross-border funding.

Despite active leveraging, the debt ratio decreased for the private non-financial sector in Germany and across the euro area as a whole. This is because income rose more sharply in the wake of the credit expansion (lower right quadrant). In France, on the other hand, the active build-up of debt ended in a slight increase in the debt ratio (upper right quadrant).

Developments in the real economy during the deleveraging period in crisis countries significantly weaker than in historical reference periods

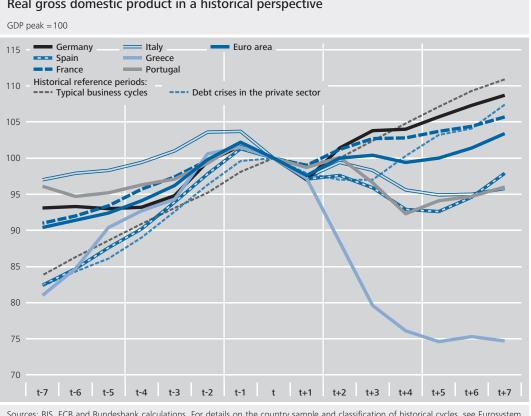
When comparing developments in the real economy with the course of the reference scenarios defined above, however, it becomes apparent that real GDP recovery was significantly weaker in the countries most affected by the European debt crisis, namely in Italy, Spain and Portugal, and especially in Greece (see

chart on page 55). By contrast, previous debt crises in the private sector were characterised by the fact that a strong economic recovery took hold around three years after reaching peak GDP.

Policy implications

Classification of the deleveraging process

As the previous comments showed, the deleveraging process in the private non-financial sector has now picked up speed and in some cases it is at an advanced stage. While the deleveraging process has not ended in dangerous debt deflation in any of the countries under review, economic recovery in the euro area as a whole and especially in the countries affected by the crisis has been relatively weak, however, by international standards.



Real gross domestic product in a historical perspective

Comparatively weak economic development in the absence of stock-flow adjustments

This development is likely due, among other things, to the high importance of active deleveraging. Historical experience shows that a phase of debt reduction goes faster if the active debt reduction is accompanied by stockflow adjustments.²⁵ On the one hand, this is due to the fact that, when there are stock-flow adjustments, debtors have to use a lower share of their income to service the debt. As a result, balance sheet constraints on debtors are eased and there is a correspondingly lower strain on aggregate demand. On the other hand, creditors experience an immediate restructuring of their balance sheets. In principle, this will encourage lending and will thus prompt structural adjustments in the wake of a reallocation of resources within the economy.²⁶

Need to avoid moral hazard and destabilisation following stock-flow adjustments

It should be noted, however, that stock-flow adjustments in the private non-financial sector are also passed on to their creditors' balance sheets. Further financial turmoil may occur as a result of contagion effects, which could, for instance, make it necessary to take recapitalisation measures or to wind up ailing financial institutions. Moreover, moral hazard such as taking on excessive risk when granting loans or misuse of funds should be avoided to ensure that real resources are handled responsibly.

With the exception of Spain, stock-flow adjustments did not play a significant role in any of the countries heavily affected by the debt crisis. Developments in the euro area therefore stand in contrast to those in the United States, where

Sources: BIS, ECB and Bundesbank calculations. For details on the country sample and classification of historical cycles, see Eurosystem Working Group, Corporate finance and economic activity in the euro area, ECB Occasional Paper, No 151, August 2013. Deutsche Bundesbank

²⁵ A classic example of successful deleveraging is the Nordic countries at the end of the 1980s and the beginning of the 1990s. After the debt-financed house price bubbles burst, unsustainable debt in the private non-financial sector was guickly written off and the banking systems were subsequently recapitalised. See Deutsche Bundesbank (2014), op cit, pp 63-64 and the literature cited there.

²⁶ Without stock-flow adjustments, on the other hand, there is the danger that insolvent enterprises will be kept alive artificially, tying up real resources and preventing the emergence of new productive enterprises. See R Caballero, T Hoshi and A Kashyap (2008), Zombie lending and depressed restructuring in Japan, American Economic Review, 98(5), pp 1943-1977.

the debt level of households in particular fell following defaults on real estate loans.²⁷ While this directly triggered losses for the banks, they were recapitalised early on and were therefore able to accommodate a renewed increase in demand for credit once the economy recovered.²⁸

Minor importance of stockflow adjustments reflected in high stocks of non-performing loans A reflection of the comparatively low importance of stock-flow adjustments in the euro area is the continuing high stocks of nonperforming loans on the balance sheets of most countries' banks. While the comprehensive assessment of the European Single Supervisory Mechanism (SSM) provided greater clarity regarding the volume of exposures in default, so far this has not led to a significant reduction in most countries. On the one hand, write-downs on the stocks of non-performing loans would accelerate the private non-financial sector's deleveraging process. On the other hand, the rehabilitation of banks' balance sheets and the improved opportunities to find funding on the market would encourage lending and thereby enable the reallocation of resources. In the event that individual credit institutions might be unable to meet the regulatory capital requirements as a result of these writedowns, the "bail-in" provisions in force since 1 January 2016 facilitate the institutions' proper recovery or resolution while minimising the impact on the real economy and public finances.²⁹

The importance of effective insolvency frameworks

Effective insolvency frameworks facilitate the reduction of bad debts, support the reallocation of real resources ... The manner in which insolvent debtors and the associated reduction of debt are handled depends on how the insolvency framework is structured, including, in particular, the conditions under which insolvency proceedings are initiated, the rights and obligations of the lenders and borrowers and the role of jurisdiction.³⁰ The costs and time frame of the proceedings are also relevant in this context. Insolvency proceedings primarily regulate how recoverable receivables are repaid and unrecoverable debts

are settled. Unlike solutions that are negotiated ad hoc, insolvency proceedings ensure lower friction losses and promote the efficient allocation of resources from a macroeconomic perspective. In the case of enterprises, insolvency proceedings generally aim to maintain as far as possible the value of the productive part of a business and, if need be, to liquidate it in a manner that preserves its value. For personal insolvency, the realisation of collateral such as real estate is standard practice and is supported, if necessary, by debt renegotiations or restructuring.

Structuring an insolvency framework appropriately is very complex because many factors and influences play a role. For example, the presence of an insolvency framework already affects the willingness of the private sector to borrow and lend even before any insolvency proceedings are initiated. Comprehensive creditor protection may also help best protect the interests of creditors in the event of a borrower's insolvency. Nevertheless, it should not go so far as to encourage creditors to take on excessive risk. At the same time, clear liability principles for borrowers mean that investment risks are sufficiently taken into account, thereby avoiding the risk of the funds provided being misused (moral hazard). Borrowers should not,

... and affect the willingness

of private sec-

tors to borrow and lend

²⁷ See Banco de España, Private-sector deleveraging channels: an international comparison, Economic Bulletin, November 2013, pp 19-29.

²⁸ Since the securitised real estate loans of US households were held by investors worldwide, a significant proportion of the losses due to write-offs was able to be "exported" abroad, thereby reducing the US banking system's need to be recapitalised. By contrast, exposures to the private non-financial sector in the euro-area countries worst affected by the crisis were primarily held by their domestic banking sectors, which in turn obtained funding from banks in European core countries. This led to a concentration of losses at the national level which, when viewed in isolation, made balance sheet restructuring more difficult in the banking sector.

²⁹ See Directive 2014/59/EU of the European Parliament and of the Council of 15 May 2014 establishing a framework for the recovery and resolution of credit institutions and investment firms.

³⁰ For an overview of the economic importance of insolvency frameworks, see, for example, J-C Bricongne, M Demertzis, P Pontuch and A Turrini (2016), Macroeconomic relevance of insolvency frameworks in a high-debt context: an EU perspective, European Commission Discussion Paper No 32.

however, be barred from profitable investment projects from the outset. In addition to these effects, which could arise even before insolvency occurs, insolvency frameworks that avoid placing an excessive and prolonged burden on borrowers may also give them the incentive to continue their business activities even after insolvency. All in all, suitable insolvency frameworks can thus help bring unproductive activities to an end and redirect the resources that are freed up to an efficient use.

Insolvency frameworks in the euro area heterogeneous despite recent reforms Individual countries in the euro area display a high degree of heterogeneity in the structure of their existing insolvency frameworks. For example, Germany's insolvency framework is characterised by a comparatively varied set of measures, for both businesses and households. In France, the insolvency framework aims especially at maintaining business activities and retaining jobs. However, the situation in countries heavily affected by the crisis is rather different. For example, most insolvent companies in Spain are traditionally wound up. Recently, however, restructuring programmes and personal insolvency have been made increasingly easier. While Greece has relatively welldeveloped insolvency legislation, which has been reformed several times since 2010, the structural nature of the debt and the comparatively lengthy processes involved in institutional implementation mean that the reduction of non-performing business loans has so far been sluggish. Similarly, non-performing loans rose sharply in Italy in the wake of the crisis, prompting the initiation of previously lacking legal and institutional reforms to increase the effectiveness of the insolvency framework.

This heterogeneity in insolvency frameworks can also be seen in the data from the World Bank's Doing Business report, which includes an indicator of the general quality of various countries' insolvency frameworks.³¹ According to this comprehensive indicator, Germany and Portugal have especially effective insolvency frameworks compared to the rest of the euro area, while Spain and France are just above average. While the indicator for France has greatly improved in recent years, the value for Greece remains at a very low level. Italy's insolvency framework stands out due to the fact that the costs of settling non-performing loans are very high by global standards. The related reforms, which have been initiated multiple times since 2012, could soon make any necessary stock-flow adjustments in this regard easier – provided these reforms target inadequate provisions and increase confidence in the legal framework – and thus contribute to a quicker reduction in non-performing loans.

In this context, however, it should generally be noted that changes to insolvency frameworks do represent an encroachment on existing debtor-creditor relationships. These should be carried out carefully so as not to damage trust in the underlying conditions and to avoid causing ultimately avoidable risk premiums with their corresponding feedback effects on macroeconomic demand.

Conclusion

On the whole, it can be said that noticeable progress has been achieved in recent years with regard to the deleveraging process in the private non-financial sector in countries especially hit by the crisis. Compared to historical reference periods, the reduction of debt has been heavily driven by debt repayment – stockflow adjustments played only a minor role in most countries. Only in Spain were the comparatively extensive write-downs accompanied by government takeovers and the valuepreserving resolution of commercial banks' distressed assets, contributing to balance sheet restructuring in the private financial and non-

Significant progress in the reduction of debt, reduction of nonperforming loans still needed

³¹ The World Bank's Doing Business project develops measures of various aspects of regulation and general conditions regarding the business activities of small and medium-sized enterprises in 190 countries. Sources of information especially include relevant legislation, World Bank surveys, the respective government authorities and World Bank employees. See World Bank, Doing Business 2017: equal opportunity for all, report, October 2016.

financial sector. The lesser importance of stockflow adjustments in the remaining countries is likely to have contributed to the sluggishness of the economic recovery, however.

It is expected that the adjustment processes in the private sector's sectoral balance sheets will continue. In this context, stock-flow adjustments addressing the stocks of non-performing loans, which are still high in some cases, in the banking systems concerned could provide considerable support to the deleveraging process. However, it must be ensured that the macroeconomic burden of stock-flow adjustments can be borne in principle. To take into account liability principles, funding should be provided by the private sector as far as possible. Reform measures regarding insolvency frameworks and consolidation efforts in euro-area countries should especially be considered in this context.

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I Key economic data for the euro area

1 Monetary developments and interest rates

	Money stock in various definitions 1,2									
	Money stock in v	various definitions	1,2		Determinants of	the money stock	1	Interest rates		
			M 3 3			MELLondine to				Malal an Front
	M1	M2		3-month moving average (centred)	MFI lending, total	MFI lending to enterprises and households	Monetary capital formation 4	Eonia 5,7	3-month Euribor 6,7	Yield on Euro- pean govern- ment bonds outstanding 8
Period	Annual percenta	ge change						% Annual percer	ntage as a monthl	y average
2015 Mar	9.5	4.3	4.3	4.5	0.5	- 0.1	- 2.6	- 0.05	0.03	0.8
Apr May June	10.4 11.0 11.2	4.8 4.8 4.9	5.2 4.8 4.7	4.8 4.9 4.8	0.9 1.3 1.3	0.1 0.5 0.2	- 2.9 - 3.0 - 3.0	- 0.07 - 0.11 - 0.12	0.00 - 0.01 - 0.01	0.8 1.3 1.6
July Aug Sep	11.6 11.3 11.3	5.2 5.0 5.0	4.9 4.8 4.7	4.8 4.8 4.9	1.8 2.2 2.2	0.7 1.0 0.7	- 3.0 - 3.2 - 3.4	- 0.12 - 0.12 - 0.14	- 0.02 - 0.03 - 0.04	
Oct Nov Dec	11.5 10.8 10.6	5.4 5.1 5.3	5.2 4.9 4.7	5.0 5.0 4.9	2.3 2.6 2.2	0.9 1.1 0.6	- 3.4 - 3.3 - 3.1	- 0.14 - 0.13 - 0.20	- 0.05 - 0.09 - 0.13	
2016 Jan Feb Mar	10.4 10.3 10.2	5.5 5.5 5.6	5.1 5.0 5.2	5.0 5.1 5.0	2.7 3.2 3.1	1.1 1.2 1.1	- 3.4 - 3.4 - 3.3	- 0.24 - 0.24 - 0.29	- 0.15 - 0.18 - 0.23	1.1 1.0 0.9
Apr May June	9.7 9.1 8.8	5.2 5.1 5.1	4.8 4.9 5.1	5.0 4.9 5.1	3.4 3.6 3.8	1.3 1.4 1.5	- 2.8 - 2.5 - 2.3	- 0.34 - 0.34 - 0.33	- 0.25 - 0.26 - 0.27	0.9 0.8 0.7
July Aug Sep	8.6 8.7 8.4	5.1 5.1 5.0	5.1 5.1 5.1	5.1 5.1 4.8	3.8 3.8 3.8	1.3 1.6 1.9	- 2.6 - 2.5 - 2.5	- 0.33 - 0.34 - 0.34	- 0.29 - 0.30 - 0.30	
Oct Nov Dec	8.0 8.7	4.6 4.9	4.4 4.8 	4.7 	4.1 4.2	2.2 2.2 	- 2.1 - 1.9	- 0.35 - 0.35 - 0.35	- 0.31 - 0.31 - 0.32	0.7 1.0 1.0

1 Source: ECB. **2** Seasonally adjusted. **3** Excluding money market fund shares/units, money market paper and debt securities with a maturity of up to two years held by non-euro-area residents. **4** Longer-term liabilities to euro-area non-MFIs. **5** Euro

OverNight Index Average. **6** Euro Interbank Offered Rate. **7** See also footnotes to Table VI.4, p 43•**8** GDP-weighted yield on ten-year government bonds. Countries include:DE,FR,NL,BE,AT,FI,IE,PT,ES,IT,GR,SK.

2 External transactions and positions *

	Colocted items	of the euro-area	halance of nour		Euro exchange	ratas 1					
	Selected items	or the euro-area							Euro exchange		
	Current accour	it	Financial accou	nt						Effective exch	ange rate 3
	Balance	<i>of which</i> Goods	Balance	Direct investment	Portfolio investment	Financial derivatives 2	Other investment	Reserve assets	Dollar rate	Nominal	Real
Period	€ million								1 EUR = USD	Q1 1999 = 10	00
2015 Mar	+ 32,539	+ 29,698	+ 41,319	+ 102,796	- 70,562	+ 10,635	- 1,841	+ 291	1.0838	90.6	86.9
Apr May June	+ 24,556 + 5,617 + 35,316	+ 26,483	- 15,944 + 54,744 + 43,464	+ 15,420 + 5,252 - 5,518	+ 24,203 + 40,435 + 32,875	+ 4,510 + 4,794 - 5,602	- 56,282 + 5,937 + 18,615	- 3,795 - 1,674 + 3,093	1.0779 1.1150 1.1213	89.7 91.6 92.3	86.1 87.8 88.5
July Aug Sep	+ 39,320 + 20,424 + 34,955	+ 19,392	+ 31,405 + 13,732 + 49,124	+ 6,278 + 9,996 - 455	+ 75,561 + 22,184 + 22,322	+ 10,958 - 6,862 - 4,851	- 54,393 - 12,975 + 23,825	- 7,000 + 1,390 + 8,282	1.0996 1.1139 1.1221	91.3 93.0 93.8	87.5 88.9 89.6
Oct Nov Dec	+ 34,955 + 3 + 30,300 + 3 + 30,977 + 3 + 41,382 + 3		+ 112,822 - 34,645 + 78,235	+ 38,618 - 73,413 + 55,333	+ 37,886 + 17,916 + 67,028	+ 12,468 + 21,426 + 21,758	+ 29,858 - 3,037 - 74,010	- 6,009 + 2,462 + 8,126	1.1235 1.0736 1.0877	93.6 91.1 92.5	89.6 87.1 88.3
2016 Jan Feb Mar	+ 8,607 + 14,431 + 36,478	+ 13,713 + 27,486 + 39,231	- 15,112 - 17,151 + 36,866	- 19,623 + 42,519 + 16,100	+ 71,724 + 22,529 - 707	+ 15,117 + 13,156 – 942	- 81,176 - 96,416 + 21,351	- 1,155 + 1,061 + 1,064	1.0860 1.1093 1.1100	93.6 94.7 94.1	89.1 90.0 89.5
Apr May June	+ 35,309 + 15,523 + 37,242	+ 32,604	+ 21,012 + 11,444 + 29,799	- 8,526 + 21,888 - 51,467	+ 123,736 + 5,245 + 27,570	- 21,344 - 12,989 - 10,273	- 71,237 - 5,810 + 63,274	- 1,618 + 3,109 + 695	1.1339 1.1311 1.1229	94.8 95.1 94.7	90.1 90.5 90.2
July Aug Sep	+ 36,053 + 23,718 + 33,951		+ 24,385 + 51,851 + 89,485	+ 31,871 + 42,180 + 51,183	+ 58,822 + 70,365 + 38,633	+ 14,718 + 6,742 + 4,563	- 80,148 - 69,248 - 11,697	- 877 + 1,812 + 6,802	1.1069 1.1212 1.1212	94.9 95.2 95.4	90.4 90.6 90.6
Oct Nov Dec	+ 32,756				- 3,495 	+ 8,952	– 81,890 	– 3,913 	1.1026 1.0799 1.0543	95.5 95.0 94.2	p 90.8 p 90.1 p 89.3

 * Source: ECB, according to the international standards of the Balance of Payments Manual in the 6th edition of the International Monetary Fund. ${\bf 1}$ See also Tables

XII.10 and 12, pp 81–82* ${\bf 2}$ Including employee stock options. ${\bf 3}$ Vis-à-vis the currencies of The-EER-19 group.

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I Key economic data for the euro area

3 General economic indicators

		1				1				
Period	Euro area	Belgium	Germany	Estonia	Finland	France	Greece	Ireland	Italy	Latvia
	Real gross d	lomestic pro	duct ^{1,2}							
2014 2015	1.2			2.8	- 0.7		0.4	8.5 26.3	0.1	2.1 2.7
2016 2015 Q2	2.0	1.8	1.9 1.8	 1.9	0.6		 0.6	 24.3	 0.9	 2.8
Q3 Q4 2016 Q1	1.9 2.0 1.7	1.6	1.8 2.1 1.5	1.9 0.8 1.5	- 0.1 0.8 1.7	1.1 1.3 1.3	- 2.3 0.9 - 0.8	24.4 28.4 3.9	0.6 1.0 0.9	3.5 2.7 2.1
Q2 Q3	1.7	1.3	3.1	0.7	1.6	1.7	- 0.4	3.1	1.1	2.1 2.0 0.3
	Industrial pr	oduction 1,3								
2013 2014 2015	- 0.7 0.9 2.0	0.9	0.2	4.2 4.3 - 2.4	– 3.2 – 1.9 – 1.0	- 0.9	- 3.2 - 2.0 1.0	- 2.2 20.9 36.9	- 0.7	- 0.7 - 0.9
2015 Q2 Q3	1.9	- 1.7	1.6 1.6	- 2.4 - 1.7 - 4.0	- 1.0 - 1.1 - 0.1	1.6 1.7 1.2	- 2.8	26.8 38.5	1.1 1.1 2.1	3.6 5.7 3.8
Q4 2016 Q1	1.8	1.3 4.7	- 0.3	- 5.5	0.0 - 0.4	2.0	2.6	36.6 - 0.2	1.3 1.7	3.0 3.8
Q2 Q3	1.1		r 0.6	– 1.8 3.1	2.9 2.8		5.0 1.7	0.7 - 0.8	0.0 1.6	4.4 1.4
	Capacity uti	lisation in in	-							
2014 2015 2016	80.4 81.3 81.8	79.7	83.9 84.5 85.0	73.0 71.4 73.6	79.0 79.2 78.0	82.7	67.7 66.2 67.6		73.7 75.5 76.3	72.2 71.5 72.6
2015 Q3 Q4	81.2 81.6	80.0	84.0 84.6	72.7 71.0	79.0 80.1	1	63.5 64.2	-	75.5 75.9	71.4 71.0
2016 Q1 Q2	81.9 81.5	79.3	85.0 84.6	72.5 73.8	79.5 78.0	82.8	65.5 67.8	=	77.1 76.5	72.3 73.0
Q3 Q4	81.6 82.3		84.8 85.7	73.0 75.0	73.8 80.6		67.8 69.3	=	76.0 75.7	71.8 73.1
		d unemployr								
2014 2015 2016	11.6 10.9	8.5	5.0 4.6	7.4 6.2	8.7 9.4		26.5 24.9	11.3 9.4 8.0	12.7 11.9	10.8 9.9
2016 July Aug	10.0 10.0	7.9	4.2 4.2	7.0 7.6	8.8 8.7	10.2	23.3 23.3	8.0 7.9	11.6 11.5	9.9 9.8
Sep Oct Nov	9.9 9.8 9.8	7.6	4.0 4.1 3.9	7.2	8.7 8.7 8.8	9.9 9.7 9.5	23.1 23.0	7.7 7.5 7.3	11.8 11.8 11.9	9.7 9.6 9.6
Dec										
2014			nsumer Price		12		1 14			0.71
2014 2015 2016	6 0.4 7 0.0 0.2	0.6	0.1		1.2 - 0.2 0.4	0.1		0.3 0.0 p - 0.2		0.7 0.2 0.1
2016 July Aug	0.2	2.0	0.3	0.8	0.5 0.5	0.4	0.2	0.1	- 0.2 - 0.1	0.1 - 0.1
Oct	0.5	1.9	0.7	1.0	0.6	0.5	0.6	- 0.4	- 0.1	0.5 1.1 1.2
Dec	1.1	2.2	1.7	2.4						
2012					1 26	1 40	l 12.2	1 57	27	- 0.9
2013 2014 2015	- 2.6	- 3.1	0.3	0.7	- 3.2	- 4.0	- 3.6	- 3.7	- 3.0	- 1.6
	General gov	ernment det	ot ⁸							
2013 2014 2015	91.3 92.0 90.4	106.5	74.9	10.7	60.2	95.3	179.7	105.2	131.9	40.7
Aug Sep Oct Nov Dec 2013 2014 2015 2013 2014	0.2 0.2 0.4 0.5 0.6 0.6 1.1 General gov - 3.0 - 2.6 - 2.1 General gov 91.3 92.0	2.0 2.0 1.8 1.9 1.7 2.2 remment fina - 3.0 - 3.1 - 2.5 remment dek 105.4 105.4	0.4 0.3 0.5 0.7 1.7 ancial balance 0.2 0.3 0.7 bt ⁸ 77.5 74.9 71.2	0.8 1.1 1.7 1.0 2.8 - 0.2 0.7 0.1 - 0.2 0.7 0.1 10.2 10.7 10.1	0.5 0.5 0.6 0.6 1.1 1.1 - 2.6 - 3.2 - 2.8 56.5 60.2 63.6	0.4 0.4 0.5 0.5 0.7 0.7 0.8 0.7 0.8 0.7 0.8 0.7 0.8 0.7 0.8 0.7 0.8 0.7 0.8 0.5 0.7 0.8 0.5 0.7 0.7 0.8 0.5 0.5 0.7 0.7 0.7 0.5 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	0.4 - 0.1 0.6 - 0.2 0.3 - 13.2 - 3.6 - 7.5 177.4	0.1 - 0.4 - 0.3 - 0.4 - 0.2 P - 0.2 P - 0.2 P - 1.9 119.5 105.2 78.6	$\begin{vmatrix} - & 0.2 \\ - & 0.1 \\ 0.1 \\ - & 0.1 \\ 0.1 \\ 0.5 \\ \end{vmatrix}$	<u>-</u> -

Sources: National data, European Commission, Eurostat, European Central Bank. Latest data are partly based on press reports and are provisional. 1 Annual percentage change. 2 GDP of the euro-area aggregate calculated from seasonally adjusted data. 3 Manufacturing, mining and energy; adjusted for working-day variations. **4** Manufacturing, in %; seasonally adjusted; data are collected in January, April, July and October. **5** As a percentage of the civilian labour force; seasonally adjusted. Standardised unemployment rate of Germany: calculation based on unadjusted data from the Federal Statistical Office.

I Key economic data for the euro area

Lithuania		Luxembourg	Malta	Netherlands	Austria	Portugal	Slovakia	Slovenia	Spain	Cyprus	Period
								Real gro	ss domestic	product ^{1,2}	
	3.5 1.8 	4.7 3.5		1.4 2.0	0.6 1.0 	0.9 1.6 	2.6 3.8 	3.1 2.3 	1.4 3.2 	– 1.5 1.7	2014 2015 2016
	1.6 1.8	4.9 1.6	7.7	1.9 2.0	0.5 1.4	1.5 1.6	3.6 3.9	2.0 2.0	3.2 3.5	2.0 2.1	2015 Q2 Q3
	2.1	3.2 3.5	5.5	1.4	1.1 1.6	1.5 0.9	4.6	2.8	3.3 3.6	2.6 2.6	Q4 2016 Q1
	1.9 1.7	5.0 4.6		2.3 2.4	1.2 1.2	1.0 1.4	3.8 3.0				Q2 Q3
	2.21								ndustrial pro		2012
	3.2 0.3 4.5	- 3.0 4.4 1.1	- 5.7	0.5 - 2.9 - 3.4	0.8 0.9 2.1	0.5 1.8 1.7	3.9 8.6 7.0	- 0.9 1.7 5.1	– 1.7 1.3 3.4	- 13.5 - 0.7 3.4	2013 2014 2015
	4.5 4.0	1.4 0.5	7.3	- 4.8 - 5.4	1.0 3.1	1.9 2.4	5.0 6.1	5.6 5.3	3.2 4.2	2.6 4.6	2015 Q2 Q3
	5.3 5.7 0.9	1.1 1.5 – 0.6	- 5.2	– 4.5 – 2.9 2.7	2.4 1.2 2.2	2.2 0.9 0.8	5.1 2.3 6.2	3.7 5.7 5.7	4.8 3.0 1.4	6.2 9.9 8.4	Q4 2016 Q1
	2.6					0.6		7.0	0.9	5.8	Q2 Q3
	74.9	66.2	78.1	80.2	84.3	78.4	80.7	Capacity 80.3	utilisation ir	n industry 4	2014
	74.2 75.9	68.3 76.9	78.6	81.8 81.7	84.0 84.3	80.4 80.2	82.4 84.5	83.6 83.5	77.8	58.2 59.8	2015 2016
	73.6 74.3	69.0 72.2	77.9	82.2 82.2	84.4 83.4	80.1 80.4	86.2 83.4	83.6 82.3	77.6 78.1	56.4 61.1	2015 Q3 Q4
	75.9 76.1 75.5	72.4 76.1 77.6	78.9	81.4 81.7 81.5	85.0 84.0 83.2	80.0 80.8 79.6	85.4 83.0 84.3	83.2 83.1 83.7	79.0 77.8 78.4	56.9 63.9 58.7	2016 Q1 Q2 Q3
	76.0					80.3		84.1	79.1	59.6	Q4
I .	10.7	6.0	5.8	7.4	5.6	14.1	13.2	Standardise 9.7	d unemployi	ment rate 3	2014
	9.1 	6.5 	5.4	6.9 	5.7	12.6 	11.5 	9.0 	22.1	15.0 	2015 2016
	7.8 7.6 7.6	6.3 6.3 6.3		6.0 5.8 5.7	6.2 6.2 6.0	10.9 10.9 10.9	9.7 9.6 9.4	7.8 7.8 7.7	19.5 19.4 19.3	12.9 13.1 13.5	2016 July Aug Sep
	7.6 7.9	6.3 6.2	5.0	5.6 5.6	5.8 5.8	10.6 10.5	9.2 9.0	7.6 7.6	19.2 19.2	13.8 14.2	Oct Nov
I		l	I	I	I			 nonised Inde	I ex of Consun		Dec
I	0.2					- 0.2 0.5		0.4	- 0.2	- 0.3	2014
-	0.7	0.1	0.9	0.2	0.8	0.6	- 0.5	- 0.2	- 0.3	- 1.2	2016
	0.0 0.5 0.6	- 0.4 - 0.2 0.3	1.0	- 0.6 0.1 - 0.1	0.6 0.6 1.1	0.7 0.8 0.7	- 0.9 - 0.8 - 0.5	- 0.1 - 0.2 0.2	- 0.7 - 0.3 0.0	- 0.4 - 0.6 - 0.4	2016 July Aug Sep
	0.7	0.7 0.6	0.8		1.4 1.5	1.1 0.5	- 0.3 - 0.2	0.7	0.5 0.5	- 1.0 - 0.8	Oct Nov
I	2.0	1.6	1.0	0.7	1.6	0.9			1.4 nent financia	-	Dec
	2.6 0.7	1.0	– 2.6 – 2.1	- 2.3	- 1.4 - 2.7	- 4.8 - 7.2 - 4.4		L _ 15.0	- 7.0	- 4.9	2013 2014
-	0.2					- 4.4	- 2.7	- 2.7	- 5.1	- 1.1	2015
I	38.7	23.5	68.4	67.7	81.3	129.0	54.7	Gen 71.0	eral governn 95.4		2013
4	40.5 42.7	22.7	67.0	67.9	84.4	130.6 129.0	53.6	80.9	100.4	107.1	2014 2015

 ${\bf 6}$ Including Latvia from 2014 onwards. ${\bf 7}$ Including Lithuania from 2015 onwards. ${\bf 8}$ As a percentage of GDP (Maastricht Treaty definition). Euro-area aggregate: European Central Bank, regularly updated. Member states excluding Germany:

latest data publication under the excessive deficit procedure (Eurostat). Germany: current data according to the Federal Statistical Office and Bundesbank calculations.

1 The money stock and its counterparts * (a) Euro area

€ billion

	I Lending to n in the euro ar		n-MFIs)			ll Net o non-eu			ents			capital forma itutions (MFIs			
		Enterprises and househe	olds	General government										Debt	
Period			<i>of which</i> Securities	of which Total Securities		Total		Claim on no euro- reside	on- area	Liabil- ities to non-euro- area residents	Total	Deposits with an agreed maturity of over 2 years	Deposits at agreed notice of over 3 months	securities with maturities of over 2 years (net) 2	Capital and reserves 3
2015 Apr May June	53.1 33.3 10.9	16.3 16.9 – 12.3		36.8 16.4 23.3	32.5 31.2 24.5	-	57.6 25.1 57.4	-	38.7 55.1 88.0	96.3 - 80.2 - 145.3	- 46.2 - 21.6 - 21.5	- 18.9 - 8.3 - 13.9	- 2.1 - 1.7 - 1.2	- 15.9 - 23.9 - 13.4	12.3
July Aug Sep	54.7 18.6 32.9	50.9 - 20.1 - 6.5	51.5 6.1 – 8.8	3.8 38.7 39.4	4.1 47.6 45.8	- - -	66.4 23.1 7.9	-	0.0 10.5 94.9	66.4 33.5 – 87.0		11.2 - 3.3 - 3.2	- 0.9 - 1.4 - 0.7	- 21.8 - 9.1 - 26.1	6.5 2.3 9.2
Oct Nov Dec	22.9 88.2 - 110.1	0.8 49.1 – 71.2	- 15.3 2.0 - 2.0	22.1 39.1 – 38.9	18.6 47.1 – 33.7	-	9.7 4.4 10.5		22.7 15.3 197.4	13.0 – 19.6 – 186.9	- 39.8 - 5.5 - 8.9	- 25.7 - 13.6 4.1	- 1.1 - 1.7 - 0.6	- 17.3 - 4.4 - 27.0	14.1
2016 Jan Feb Mar	156.2 86.4 62.8	45.9 45.1 22.2	6.0 - 0.5 - 5.6	110.3 41.3 40.6	95.2 50.1 41.3	-	45.0 82.0 21.6	_	129.0 32.0 86.1	174.0 114.0 – 107.7		- 8.1 11.2 - 6.5	- 0.4 - 1.2 - 0.9	- 18.1 - 23.8 - 1.4	- 0.3 - 1.5 - 8.7
Apr May June	93.9 67.9 52.0	47.7 20.5 4.7	27.7 12.9 – 7.2	46.2 47.3 47.3	41.1 53.6 58.9	-	62.0 0.3 23.5	_	119.0 62.3 31.5	181.0 62.6 – 55.0	1.0	- 3.7 - 5.0 - 20.8	- 1.3 - 0.5 - 0.8	- 0.5 0.3 - 10.2	
July Aug Sep	51.3 15.0 38.0	29.7 16.6 26.3		21.6 - 1.7 11.7	20.7 6.9 15.9	- - -	84.9 39.7 20.8	_	62.0 7.5 72.5	146.9 47.2 – 51.7	- 27.0 - 0.2 - 26.1	- 7.1 - 4.9 - 12.2	- 0.5 - 0.6 - 0.6	- 23.7 - 0.3 - 19.5	4.3 5.6 6.2
Oct Nov	81.3 100.4	37.8 51.9		43.5 48.5	41.0 60.8	-	54.3 7.7		144.4 19.9	198.6 – 27.6		- 3.3 0.9	- 0.6 - 0.7	- 8.0 - 1.0	

(b) German contribution

	I Lendi in the e		on-ban ea	ks (noi	n-MFIs)					II Net o non-eu	claims c iro-area		nts							tion at r) in the (
			Enterp and ho		olds		Genera goverr											Depos				Debt _			
Period	Total		Total		<i>of whi</i> Securit		Total of which					Claims on no euro-a reside	n- area	ities to non-e area			Total		n d ity	Deposi at agre notice over 3 mont	ed of	securit with matur of ove 2 year (net) 2	ities r s	Capita and reserve	
2015 Apr May June	-	17.3 3.5 0.9	_	3.3 4.5 2.7	-	0.7 4.8 5.7	_	14.0 8.0 1.7	4.9 4.4 5.1		7.7 1.1 16.2	-	33.9 11.7 25.0	-	26.2 12.8 41.1	-	13.2 14.6 0.4		10.0 1.6 3.8		2.2 1.6 1.4	-	0.6 11.7 1.8	-	0.4 0.4 3.7
July Aug Sep		31.5 12.9 11.5		22.9 7.2 4.1		21.3 1.5 2.6		8.6 5.7 7.3	6.4 9.0 8.7	-	27.6 20.7 15.9	- - -	8.7 0.9 2.0	_	19.0 19.9 17.9	-	12.5 6.5 11.7	_	16.5 0.5 2.5		1.5 1.5 1.4	- - -	0.6 4.5 7.4		1.9 1.0 0.4
Oct Nov Dec	_	3.4 27.3 19.9	-	3.8 21.3 11.6	-	9.4 7.8 5.8	_	7.1 6.0 8.2	3.5 10.6 – 2.8	-	8.5 13.0 5.2	- - -	13.1 35.7 52.1		4.6 22.7 57.3		10.7 12.8 24.0	- -	9.0 3.6 3.9	- - -	1.3 1.2 0.9	-	0.7 3.9 22.1		1.1 4.1 2.9
2016 Jan Feb Mar		19.7 15.6 12.3		5.7 10.9 4.4		3.0 4.2 0.6		14.0 4.7 7.8	10.4 4.8 8.2	-	21.1 29.2 7.3	-	24.7 7.3 22.6	_	45.8 36.5 29.8	-	1.2 11.8 0.9		1.5 1.8 0.0		1.3 1.3 1.1	-	2.8 7.7 2.4		1.2 1.0 0.4
Apr May June		22.8 22.0 2.5		12.3 16.2 1.7		0.7 4.9 0.5		10.6 5.8 0.8	5.9 9.1 6.5	-	40.1 1.7 2.9		13.5 1.2 23.9	-	53.7 0.5 26.8	-	2.3 4.8 5.7	-	3.3 0.8 1.5		1.1 1.0 0.7	_	1.7 5.0 7.3	-	0.4 0.0 3.8
July Aug Sep		25.7 9.0 20.9		13.2 8.8 13.0		1.4 1.4 3.3		12.5 0.2 7.9	9.5 2.0 9.1	- - -	18.5 16.5 37.2	-	7.0 2.5 11.1		25.5 19.0 26.1		10.5 0.1 10.8	- -	0.8 1.8 1.1		0.9 0.8 0.7	-	5.1 4.0 6.2		3.7 1.6 2.8
Oct Nov		18.3 25.8		11.7 18.4		2.5 4.3		6.6 7.4		-	3.5 22.7	_	42.2 25.6		45.7 2.9		3.6 17.3		2.2 9.8	-	0.8 0.5		6.0 9.6		3.8 1.6

* The data in this table are based on the consolidated balance sheet of monetary financial institutions (MFIs) (Table II.2); statistical breaks have been eliminated from the flow figures (see also the "Notes on the figures" in the "Explanatory notes" in the Statistical Supplement to the Monthly Report 1, p 30°). 1 Source: ECB. 2 Excluding

MFIs' portfolios. **3** After deduction of inter-MFI participations. **4** Including the counter-parts of monetary liabilities of central governments. **5** Including the monetary liabilities of central governments (Post Office, Treasury). **6** In Germany, only savings deposits. **7** Paper held by residents outside the euro area has been eliminated.

(a) Euro area

		V Ot	her fac	tors	VI Money s	tock N	VI3 (balan	ce I plus	II less	s III less IV les	is V)										
						Mo	ney stock	M2											Debt see		
				<i>of which</i> Intra-				Money	stock	M1									ities wit maturiti	es	
cen	De- its of tral gov- ments	Total	4	Eurosystem liability/ claim related to banknote issue	Total	Tota	al	Total		Currency in circu- lation	Overnight deposits 5	Depo with agre matu of u 2 yea	an ed urity o to	Deposits at agreed notice of up to 3 months 5,6	Repo trans tions	ac-	Mon mark fund share (net)	et s	of up to 2 years (incl mo market paper) (net) 2,7	ney	Period
-		-	28.6	-	113.		78.5		91.8	8.8	83.0	-	15.1	1.8		17.0		21.5			2015 Apr
	44.1 14.0		5.2 66.4	-	30. 9.		64.7 39.3		94.7 63.5	6.7 10.7	88.0 52.8		34.8 24.2	4.8 0.0		5.9 18.7		9.0 15.4	-	6.9 8.2	May June
		_	28.5	_	65.		45.1		43.1	14.2	28.9		2.5	- 0.6	1	11.1		22.7	_	12.2	July
-	14.8		2.2	-	19.	7	11.8		13.2	- 1.9	15.1	-	4.9	3.6		4.5		11.1	-	4.6	Aug
	28.6		30.5	-	- 13.		7.0		23.2	- 2.8	26.0	-	7.7	- 8.5	1	0.9	-	15.6	-	0.8	Sep
	32.9 · 17.0	-	64.0 60.8	-	103. 54.		67.9 55.7		82.9 58.5	2.2 5.7	80.7 52.8		10.2 0.7	- 4.8		7.1 3.4		21.9 15.9		1.4 0.6	Oct Nov
-		-	44.2	-	4.		54.1		44.2	14.4	29.7		9.0	0.9		28.3	-	22.6	-	10.8	Dec
-	87.7 14.1 31.8	-	19.7 0.1 31.6		70. 33. 38.	7	38.2 15.2 55.9		36.3 21.7 42.6	– 11.1 1.2 3.7	47.4 20.5 39.0	-	8.4 11.7 11.0	10.4 5.2 2.3		21.8 44.5 6.2		11.0 1.3 11.9		8.1 6.9 1.4	2016 Jan Feb Mar
-	- 35.9 20.1 60.5	-	29.5 12.8 6.4	-	100. 33. 19.	7	75.3 35.1 31.3		92.7 47.5 34.6	4.6 2.3 8.4	88.2 45.3 26.2	- - -	17.2 20.2 1.9	- 0.3 7.8 - 1.4	-	4.5 9.5 2.5	-	17.1 0.1 9.4	-	2.4 2.0 6.3	Apr May June
-		-	75.2 41.0 38.2		97. - 10. 2.	9 -	73.6 - 9.0 18.6	-	67.1 5.1 23.9	10.1 - 3.5 2.2	57.0 - 1.6 21.7	-	6.1 4.5 1.5	0.5 0.7 - 6.7		22.7 2.4 4.8	_	16.0 0.7 1.7		5.5 2.6 6.5	July Aug Sep
-	- 3.0 3.8		7.5 11.2		27. 88.		14.2 85.6		54.6 96.3	2.8 1.7	51.7 94.6	-	34.2 8.9	- 6.2 - 1.8		17.0 1.9		17.0 9.9	_	0.5 3.3	Oct Nov

(b) German contribution

		V Othe	r factors	5			VI Mone	ey stock	M3 (balance I	plus II les	s III les	s IV less V)	10]
				of which					Components of	of the mor	ney sto	ck								
IV De- posits central ernme	gov-	Total		Intra- Eurosystem liability/ claim related to banknote issue 9,11	Currency in circu- lation		Total		Overnight deposits	Deposits with an agreed maturity of up to 2 years		Deposits at agreed notice of up to 3 months 6		Repo transac- tions		Money market fund shares (net) 7,8		Debt securit with maturities of up to 2 y (incl money market paper)(net)	ears	Period
-	2.7		5.0	2.2		1.8		35.9	29.6		1.2	-	0.2		3.8	-	0.1			2015 Apr
	1.4 2.2	-	4.8 12.7	2.4 0.9		1.1 3.5		15.5 0.1	28.1 5.6		3.3 3.5		0.2 0.3	-	6.4 1.6		0.1 0.1	-	3.1 0.3	May June
						I	_			1		-		-				-		
	3.2 0.3		18.6 13.1	4.7		3.3 0.5		13.1 12.1	12.9 14.7		0.0 3.8	-	0.4 0.3		1.2 2.0		0.0 0.1	-	0.6 1.2	July Aug
	1.8		16.8	2.8		0.8		20.5	14.4		3.4		0.8		0.5		0.5		7.8	Sep
-	0.6 1.2	-	25.3 15.2	3.0 2.0		0.3 1.8		31.4 43.4	30.7 34.3		3.8 6.8		1.3 0.9	-	0.5 0.5	-	0.0 0.1		3.7 2.1	Oct Nov
-	10.3		15.2	2.0		2.3	-	16.2	- 21.3		6.3		3.0	-	3.6	-	0.1	-	0.2	Dec
-	0.8 7.1	-	24.2 24.1	- 0.7		1.9 0.4		24.7 15.3	27.8 13.3		5.5 1.9		0.9 1.6		0.3 1.4		0.3 0.1		0.9 1.0	
	21.0	-	24.1 3.1	2.1		0.4	_	5.5	- 12.5		10.9	-	1.6 0.8	-	1.4 0.9	-	0.1	-	2.0	Mar
-	17.4	-	20.6	1.2		1.0		23.1	24.1	-	1.1	-	0.7		0.5	-	0.5		0.7	Apr
	18.7	-	19.6	2.9		0.5		19.9	21.5		0.3	-	0.6	-	0.2	-	0.4	-	0.7	May
	13.0	-	7.9	4.2		1.5		0.2	2.0	1	0.7	-	0.4	-	1.0		0.0		0.4	June
-	31.8 8.8	_	25.0 22.3	3.7 2.3		2.1 0.8		24.5 6.2	12.3 11.3		4.0 1.6	-	0.1 0.1	_	0.9 0.2	-	0.2 0.1	_	7.6 3.4	July Aug
	8.6		22.5	4.7		0.8		7.2	3.0		5.5	-	0.6	-	0.2	-	0.0	-	0.5	Sep
-	8.8		18.7	3.2		0.5		1.4	12.0		10.2		0.2		0.3	-	0.1	-	0.8	Oct
	6.9	-	58.9	1.9	(0.3		37.9	37.0	1	3.4		0.1	_	0.2		0.0	_	2.4	Nov

8 Less German MFIs' holdings of paper issued by euro-area MFIs. **9** Including national banknotes still in circulation. **10** The German contributions to the Euro-system's monetary aggregates should on no account be interpreted as national monetary aggregates and are therefore not comparable with the erstwhile German

money stocks M1, M2 or M3. **11** The difference between the volume of euro banknotes actually issued by the Bundesbank and the amount disclosed in accordance with the accounting regime chosen by the Eurosystem (see also footnote 2 on banknote circulation in Table III.2).

2 Consolidated balance sheet of monetary financial institutions (MFIs) *

		Assets									
		Lending to non	-banks (non-MFI	s) in the euro ar	ea						
			Enterprises and	households			General govern	ment	1		
										1	
	Total					Shares and				Claims on non-	
End of year/month	assets or liabilities	Total	Total	Loans	Debt securities 2	other equities	Total	Loans	Debt securities 3	euro-area residents	Other assets
	Euro area	(€ billion) ¹									·
2014 Oct	25,677.5	16,174.0	12,646.8	10,556.0	1,290.2	800.5	3,527.2	1,106.5	2,420.7	4,969.1	4,534.4
Nov	26,010.6	16,221.2	12,675.7	10,573.1	1,296.8	805.9	3,545.5	1,109.7	2,435.8	5,040.3	4,749.1
Dec	25,873.2	16,227.8	12,671.7	10,633.1	1,271.8	766.8	3,556.1	1,132.4	2,423.6	4,972.7	4,672.7
2015 Jan Feb	26,851.3 26,794.9	16,310.0 16,337.4	12,666.0 12,697.9	10,615.7 10,637.4	1,274.4 1,276.5	775.9 784.0	3,644.0 3,639.5	1,158.9 1,144.2	2,485.1 2,495.3	5,407.3 5,402.4	5,134.0 5,055.2
Mar	27,171.3	16,427.5	12,747.6	10,680.2	1,275.9	791.5	3,679.9	1,148.8	2,531.1	5,476.3	5,267.4
Apr	26,839.2	16,451.5	12,745.8	10,663.6	1,274.8	807.4	3,705.7	1,152.9	2,552.8	5,415.3	4,972.5
May June	26,684.6 26,126.8	16,471.5 16,434.6	12,762.3 12,727.8	10,681.3 10,683.3	1,276.3 1,254.0	804.8 790.5	3,709.2 3,706.8	1,138.4 1,136.8	2,570.8 2,570.1	5,410.4 5,269.7	4,802.8 4,422.5
July	26,346.2	16,514.0	12,784.9	10,682.2	1,301.0	801.7	3,729.1	1,135.4	2,593.7	5,290.6	4,541.7
Aug Sep	26,195.9 26,144.4	16,493.4 16,525.4	12,735.0 12,713.6	10,645.4 10,639.2	1,302.6 1,303.0	786.9 771.4	3,758.4 3,811.8	1,126.5 1,121.0	2,631.9 2,690.7	5,242.0 5,158.6	4,460.5 4,460.4
Oct	26,336.6	16,575.4	12,732.0	10,661.2	1,288.0	782.7	3,843.4	1,125.0	2,718.5	5,245.2	4,516.0
Nov	26,652.8	16,691.1	12,802.9	10,715.9	1,295.5	791.5	3,888.3	1,117.1	2,771.2	5,308.1	4,653.6
Dec	25,851.2	16,541.4	12,703.0	10,627.4	1,296.3	779.3	3,838.4	1,110.2	2,728.2	5,022.3	4,287.5
2016 Jan Feb	26,415.1 26,749.7	16,689.5 16,774.6	12,731.2 12,771.5	10,656.8 10,700.6	1,306.9 1,313.1	767.5 757.8	3,958.2 4,003.1	1,127.1 1,118.6	2,831.2 2,884.5	5,137.5 5,216.0	4,588.1 4,759.1
Mar	26,407.4	16,825.5	12,776.3	10,709.9	1,312.0	754.4	4,049.1	1,117.9	2,931.3	5,019.0	4,563.0
Apr May	26,558.2 26,807.5	16,909.0 16,993.8	12,815.8 12,842.4	10,721.4 10,733.3	1,325.7 1,341.3	768.7 767.8	4,093.2 4,151.4	1,127.9 1,121.7	2,965.3 3,029.6	5,162.2 5,258.3	4,487.0 4,555.4
June	27,073.1	17,041.0	12,828.9	10,732.0	1,344.2	752.7	4,212.1	1,110.6	3,101.4	5,261.1	4,771.0
July	27,140.6	17,093.6	12,852.5	10,736.8	1,360.4	755.3	4,241.0	1,111.6	3,129.5	5,314.8	4,732.3
Aug Sep	27,042.9 26,976.7	17,105.3 17,147.0	12,866.3 12,892.1	10,722.2 10,755.7	1,365.8 1,359.9	778.3	4,239.0 4,254.9	1,102.9 1,098.8	3,136.1 3,156.1	5,309.2 5,244.8	4,628.4 4,584.8
Oct	27,039.2	17,206.2	12,927.7	10,786.6	1,364.2	776.9	4,278.5	1,101.2	3,177.3	5,398.2	4,434.8
Nov	27,157.1	17,296.3	12,984.7	10,832.5	1,380.3	771.9	4,311.6	1,088.9	3,222.8	5,427.6	4,433.2
	German co	ontribution	(€ billion)								
2014 Oct	5,864.9	3,695.6	2,922.0	2,528.3	141.7	251.9	773.6	366.9	406.8	1,192.8	976.5
Nov	5,960.0	3,711.2	2,938.5	2,537.3	145.5	255.7	772.6	363.9	408.7	1,225.3	1,023.5
Dec	5,973.4	3,696.4	2,931.4	2,527.7	143.6	260.1	764.9	364.1	400.8	1,209.1	1,068.0
2015 Jan Feb	6,233.3 6,174.3	3,728.3 3,739.4	2,948.0 2,953.8	2,536.5 2,542.4	142.2 142.3	269.2 269.1	780.4 785.5	372.4 375.5	408.0 410.0	1,313.5 1,301.2	1,191.4 1,133.7
Mar	6,272.2	3,758.2	2,967.1	2,546.4	144.1	276.5	791.2	374.0	417.2	1,306.4	1,207.5
Apr May	6,202.9 6,140.5	3,772.6 3,770.8	2,966.9 2,972.2	2,546.0 2,555.9	135.6 135.0	285.3 281.3	805.7 798.6	382.9 370.7	422.8 427.9	1,317.1 1,317.8	1,113.2 1,052.0
June	5,995.7	3,767.1	2,967.3	2,557.3	133.3	276.7	799.9	367.0	432.9		949.4
July	6,058.3	3,803.0	2,993.0	2,561.0	153.8	278.2	810.0	368.0	442.0	1,274.1	981.2
Aug Sep	6,026.6 6,041.7	3,813.0 3,824.0	2,996.1 2,996.1	2,567.6 2,572.5	155.4 157.2	273.1 266.4	816.9 827.9	364.9 364.5	452.0 463.4	1,260.5 1,257.0	953.1 960.7
Oct	6,041.6	3,832.0	2,994.6	2,578.6	150.5	265.6	837.4	368.4	469.0	1,257.1	952.5
Nov Dec	6,104.5 5,924.8	3,864.8 3,839.8	3,019.5 3,003.6	2,594.8 2,586.5	153.5 155.7	271.2 261.3	845.3 836.3	363.9 358.3	481.3 477.9	1,236.6 1,166.4	1,003.2 918.6
2016 Jan	6,057.5	3,858.0	3,003.0	2,500.5	154.8	257.3	853.1	362.0	491.2	1,100.4	1,008.3
Feb	6,155.1	3,874.6	3,014.0	2,607.0	151.1	255.9	860.6	362.0	498.6	1,209.7	1,070.8
Mar	6,060.3	3,885.2	3,015.6	2,607.8	151.8	256.0	869.6	361.6	508.0	1,163.7	1,011.4
Apr May	6,049.9 6,090.9	3,908.1 3,934.4	3,026.3 3,043.0	2,617.8 2,629.7	152.2 153.3	256.3 260.0	881.8 891.4	366.1 362.8	515.7 528.6	1,181.7 1,187.1	960.2 969.4
June	6,220.9	3,939.5	3,042.5	2,629.1	152.9	260.5	897.0	357.3	539.7	1,221.3	1,060.1
July	6,245.3	3,968.2	3,054.3	2,639.3	155.3	259.7	913.9	360.3	553.6	1,228.3	1,048.8
Aug Sep	6,218.7 6,201.9	3,977.6 4,001.6	3,062.7 3,075.1	2,646.2 2,655.3	155.3 157.6	261.2 262.1	914.8 926.5	358.5 357.2	556.4 569.3	1,226.9 1,215.0	1,014.2 985.4
Oct	6,207.5	4,018.7	3,087.3	2,664.9	161.9	260.5	931.4	360.3	571.1	1,259.9	928.9
Nov	6,184.8		3,107.0 s (MFIs) compris			261.7		355.5 ing Transum bi			896.2 paper issued by

* Monetary financial institutions (MFIs) comprise banks (including building and loan associations), money market funds, and the European Central Bank and national central banks (the Eurosystem). 1 Source: ECB. 2 Including money market paper of

enterprises. **3** Including Treasury bills and other money market paper issued by general government. **4** Euro currency in circulation (see also footnote 8 on p 12•) Excluding MFIs' cash in hand (in euro). The German contribution includes the volume

abilities										
	Deposits of non-	banks (non-MFIs)	in the euro area							
			Enterprises and	households						
					With agreed maturities of			At agreed notice of 6		
urrency						over 1 year and				
rculation 4	Total	of which in euro 5	Total	Overnight	up to 1 year	up to 2 years	over 2 years	up to 3 months	over 3 months	End yea
								Euro area	(€ billion) ¹	
950.6 956.8	11,109.7	10,402.5 10,480.5	10,465.5 10,532.6	4,637.2	1,109.4 1,099.7	415.2 407.6	2,213.2	2,084.5 2,088.7	86.5 86.1	201
980.6	11,155.3	10,549.3	10,627.7	4,728.8	1,089.3	399.5	2,217.4	2,105.6	87.0	201
979.1 983.2	11,229.8 11,213.4	10,515.0 10,523.0	10,619.4 10,622.2	4,847.7	1,069.1 1,034.8	379.6 379.6	2,162.7	2,109.9 2,110.3	88.4 87.2	201
990.9	11,280.6	10,557.1	10,669.0		1,036.3	375.2	2,153.5	2,118.2	85.9	
999.8 1,006.4 1,017.1	11,275.5 11,372.2 11,392.1	10,603.0 10,646.1 10,647.3	10,703.7 10,744.0 10,748.5	4,972.1 5,049.9 5,096.4	1,027.3 998.8 975.7	369.2 364.6 361.0	2,131.8 2,124.5 2,110.1	2,119.4 2,123.9 2,124.1	83.9 82.3 81.2	
1,031.3 1,029.4 1,026.5	11,393.2 11,377.1 11,411.9	10,683.0 10,679.6 10,695.8	10,798.2 10,789.6 10,797.6	5,137.0	982.3 980.8 976.7	358.9 353.8 350.6	2,119.8 2,114.8 2,110.9	2,121.8 2,124.1 2,118.6	80.4 79.1 78.3	
1,028.8 1,034.5	11,499.8 11,525.4	10,740.7 10,775.4	10,849.7 10,871.1	5,244.5 5,288.4	972.3 970.1	349.1 343.9	2,092.0 2,081.4	2,114.5 2,111.6	77.3 75.7	
1,048.9 1,037.7	11,488.5 11,613.5	10,815.7 10,854.2	10,924.5 10,955.0	5,325.7 5,365.0	981.5 973.3	343.8 344.1	2,083.3 2,074.6	2,114.9 2,123.8	75.2	201
1,037.7 1,038.9 1,042.5	11,622.8 11,688.2	10,873.7 10,918.6	10,935.0 10,977.8 11,009.0		967.8 973.3	340.6 339.8	2,085.3	2,123.8 2,126.0 2,128.7	73.1	201
1,047.1 1,049.3 1,057.7	11,717.4 11,768.7 11,830.9	10,980.0 11,007.8 11,003.1	11,074.7 11,094.3 11,091.0	5,504.2 5,545.0 5,565.0	963.0 945.2 944.9	337.5 331.9 330.2	2,071.0 2,066.3 2,046.5	2,128.5 2,135.9 2,135.1	70.5 70.0 69.3	
1,067.8 1,064.3 1,066.5	11,851.3 11,785.2 11,790.8	11,055.5 11,039.5 11,034.3	11,135.4 11,122.6 11,132.4	5,611.2	952.1 952.5 960.1	325.6 320.7 315.0	2,039.3 2,034.0 2,021.8	2,134.8 2,136.0 2,131.1	68.8 68.1 67.4	
1,069.3 1,071.1	11,799.2	11,049.7	11,136.5	5,684.0	932.6	307.2	2,019.7	2,125.7	67.2	
							German	contribution	n (€ billion)	
223.6 224.8 229.7	3,199.5 3,222.7 3,207.5	3,133.6 3,157.5 3,142.6	3,020.0 3,038.6 3,019.1		189.9 186.7 191.8	32.5 33.4 32.3	682.2	527.9 527.4 531.0		2014
228.9 229.7	3,233.6 3,249.6	3,156.6 3,172.0	3,045.0 3,062.0	1,541.7 1,562.7	188.3 187.1	31.3 31.0	677.5 675.4	528.8 529.6	77.4 76.1	201
232.0 233.8 234.9	3,253.1 3,265.4 3,289.4	3,175.8 3,191.1 3,214.1	3,062.6 3,080.3 3,094.6	1,598.9 1,620.0	187.1 187.3 183.7	31.4 31.7 31.9	661.3 659.5	528.7 528.5 528.5	74.8 72.7 71.1	
238.3	3,287.5	3,208.9	3,090.0	1	178.9		1	528.3	1	
241.6 241.2 240.3	3,312.5 3,321.2 3,330.8	3,236.6 3,246.0 3,253.8	3,120.9 3,123.4 3,131.7		179.8 175.8 172.0	32.4 32.2 31.7		527.9 528.2 529.0	68.2 66.7 65.3	
240.1 241.9 244.2	3,349.1 3,386.8 3,379.0	3,271.6 3,309.9 3,293.1	3,154.0 3,182.3 3,168.8	1,732.8	170.8 168.6 176.9	32.9 33.2 34.4	653.8	530.3 531.1 534.1	64.0 62.8 61.9	
242.2 242.7	3,398.2 3,412.8	3,312.7 3,319.7	3,191.1 3,197.4	1,739.2 1,747.9	172.6 172.1	35.6 35.8	647.9 645.5	535.1 536.7	60.7 59.4	201
243.3	3,428.4	3,315.7	3,188.8	1	176.5	37.5	1	535.9	58.3	
244.2 243.7 245.2	3,429.1 3,469.8 3,481.5	3,334.3 3,356.2 3,352.9	3,208.5 3,222.9 3,218.7	1,759.1 1,779.2 1,779.1	178.5 175.2 173.1	38.3 37.3 38.3	640.6	535.1 534.4 533.9	57.2 56.2 55.4	
247.4 246.5 245.9	3,464.1 3,480.0 3,494.5	3,368.1 3,376.0 3,380.7	3,233.1 3,238.3 3,247.0	1,793.5 1,803.0 1,807.9	174.7 173.4 179.4	38.2 38.2 38.3	636.2	533.8 533.8 533.3	54.6 53.8 53.1	
245.4 245.7	3,489.6	3,386.4	3,254.0	1,821.1	172.1	37.8	637.3	533.5	52.3	

of euro banknotes put into circulation by the Bundesbank in accordance with the accounting regime chosen by the Eurosystem (see also footnote 2 on banknote circulation in Table III.2). The volume of currency actually put into circulation by the

Bundesbank can be calculated by adding to this total the item "Intra-Eurosystem liability/claim related to banknote issue" (see "Other liability items"). **5** Excluding central governments' deposits. **6** In Germany, only savings deposits.

2 Consolidated balance sheet of monetary financial institutions (MFIs) (cont'd) *

	Liabilities (co	nt'd)											
	Deposits of r	ion-banks (no	n-MFIs) in the	euro area (co	ont'd)								
	General gove	ernment							Repo transad with non-ba			Debt securities	
		Other genera	al government						in the euro a				
				With agreed maturities of			At agreed notice of 2				Money		
	Central govern- ments	Total	Overnight	up to 1 year	over 1 year and up to 2 years	over 2 years	up to 3 months	over 3 months	Total	of which Enterprises and households	market fund shares (net) 3	Total	of whic denom- inated in euro
ľ	Euro are	a (€ billio	n) ¹										
	236.2 262.2 216.7	303.1 315.0 310.9	133.1 142.1 138.0	95.0 97.0 100.5	9.3 10.1 11.5	45.1 44.9 39.5	15.5 15.8 16.4	5.1	313.2 310.5 297.0	302.7 301.4 290.7	428.9 434.4 414.2	2,489.0 2,474.9 2,479.0	1,8 1,8 1,8
	300.7 272.1 294.7	309.7 319.1 316.9	134.9 142.1 139.7	99.3 99.8 100.2	11.3 11.6 12.7	39.9 40.0 39.2	18.8 20.2 19.9	5.4 5.3 5.3	314.8 352.4 354.1	304.7 342.3 347.9	438.3 447.3 437.3	2,509.3 2,506.4 2,496.3	1,8 1,7 1,7
	251.4 295.5 309.5	320.4 332.7 334.1	144.8 157.0 157.1	97.9 97.0 97.6	12.8 13.1 13.1	39.5 39.9 40.9	20.3 20.7 20.5	5.1 5.0 4.9	336.7 331.0 312.2	329.0 324.4 308.7	458.8 449.8 434.4	2,464.9 2,446.1 2,433.8	1,7 1,7 1,7
	266.4 251.6 280.6	328.6 335.9 333.7	149.2 155.2 153.5	100.3 100.4 101.4	13.3 13.3 13.2	38.8 38.8 39.4	22.3 23.4 21.5	4.9 4.8 4.8	301.3 305.4 304.5	298.1 300.3 296.9	457.1 455.7 449.9	2,405.5 2,374.3 2,344.0	1,6 1,6 1,6
	315.5 298.5 227.4	334.6 355.7 336.6	157.4 168.0 154.4	98.6 108.4 104.6	13.2 13.0 13.7	39.6 39.7 39.7	20.9 21.9 19.5	4.7 4.7 4.7	297.6 301.4 272.8	288.1 296.2 270.9	471.8 487.7 465.2	2,337.7 2,367.3 2,318.9	1,6 1,6 1,6
	315.1 301.0 333.3	343.4 344.0 345.9	160.9 162.6 159.5	102.3 98.1 102.0	14.3 14.4 15.1	39.7 39.9 40.8	21.0 24.0 23.6	5.2 5.1 5.0	294.5 339.1 332.3	292.9 335.1 329.1	475.6 474.3 462.9	2,301.4 2,287.9 2,265.5	1,6 1,5 1,5
	297.6 317.7 378.3	345.2 356.6 361.6	161.9 167.0 171.3	97.2 102.1 102.4	15.4 15.5 15.9	42.2 43.1 43.7	23.5 24.0 23.5	4.9 4.9 4.8	327.9 318.7 321.3	323.1 312.8 318.0	480.3 480.4 471.1	2,269.4 2,277.6 2,275.2	1,5 1,5 1,5
	349.2 294.6 297.4	366.7 368.1 361.0	174.1 175.7 170.5	101.6 100.8 99.5	18.2 18.7 19.4	43.8 44.3 44.4	24.2 23.8 22.3	4.8 4.9 5.0	298.6 301.0 286.5	297.4 299.9 285.7	486.6 487.5 485.7	2,252.0 2,246.9 2,220.2	1,5 1,5 1,5
	295.3 299.1				19.8 21.2	44.7 44.2	21.3 21.6	5.3 5.2	266.4 264.8	265.7 264.1	502.7 512.6	2,221.2 2,234.2	1,! 1,!
			ion (€ bill									540.2	
	12.6 12.4 11.3	171.7 177.1	44.0 50.7	79.2 82.3	6.4 7.6	38.7 32.8	2.8 3.0	0.6 0.7	9.6 3.4	8.4 9.0 3.1	3.4 3.3	549.3 550.5 547.3	
	18.7 12.0 14.7	170.0 175.7 175.8	44.7 47.5 47.7	81.2 82.9 82.3	7.5 8.1 9.2	32.9 33.5 32.8	3.1 3.1 3.1	0.7 0.7 0.7	6.8 8.0 7.6	4.7 5.6 5.2	3.3 3.3 3.3	566.9 573.3 573.0	
	12.0 13.4 15.6	173.1 181.4 181.8	46.9 54.6 53.2	80.2 80.0 80.8	9.3 9.7 9.7	33.0 33.3 34.4	3.1 3.2 3.1	0.7 0.6 0.6	11.4 5.0 3.3	8.7 3.8 2.2	3.2 3.3 3.4	567.3 557.3 555.5	2
	12.4 12.1 14.0	179.3 185.7 185.1	49.8 56.0 54.4	83.6 83.8 84.5	9.8 9.8 9.7	32.3 32.5 32.8	3.1 3.1 3.1	0.6 0.6 0.6	4.5 6.6 7.0	3.3 4.6 4.9	3.4 3.5 4.0	558.4 547.0 547.0	2
	13.4 12.3 22.6		54.1 55.6 54.3	80.9 90.2 86.0	9.8 9.5 10.2	33.1 33.2 33.4	3.1 3.1 3.1	0.6 0.6 0.5	6.6 6.1 2.5	5.0 4.5 2.0	3.9 3.8 3.4	555.3 562.5 533.4	2
	21.8 28.9 49.3		54.5 59.1 57.4	83.2 79.7 84.1	10.5 10.5 10.8	33.4 33.7 34.3	3.1 3.1 3.1	0.5 0.5 0.5	2.8 4.2 3.2	2.7 3.7 2.0	3.7 3.6 3.4	534.8 527.9 518.7	2
	31.9 50.6 63.6	188.7 196.3 199.2	58.2 60.4 62.2	80.3 84.9 85.0	10.9 11.1 11.5	35.6 36.2 36.6	3.2 3.3 3.3	0.5 0.5 0.5	3.7 3.5 2.5	2.4 2.4 2.3	3.0 2.5 2.6	521.8 530.9 523.0	22
	31.9 40.6 49.3	199.1 201.0 198.3	59.9 61.7 59.7	85.2 84.6 83.5	13.3 13.6 14.0	36.8 37.2 37.2	3.3 3.4 3.4	1	3.4 3.2 2.9	3.2 3.2 2.9	2.4 2.3 2.4	524.2 524.4 516.7	
	40.5 47.4	195.1 201.0	58.8 59.5	80.4 84.2		37.2 37.3	3.4 3.3		3.2 3.0	3.2 3.0	2.3 2.3	526.0 541.2	

* Monetary financial institutions (MFIs) comprise banks (including building and loan associations), money market funds, and the European Central Bank and national central banks (the Eurosystem). 1 Source: ECB. 2 In Germany, only savings deposits. 3 Excluding holdings of MFIs; for the German contribution, excluding German MFIs' portfolios of securities issued by MFIs in the euro area. 4 In Germany, bank debt securities with maturities of up to one year are classed as money market

paper. **5** Excluding liabilities arising from securities issued. **6** After deduction of inter-MFI participations. **7** The German contributions to the Eurosystem's monetary aggregates should on no account be interpreted as national monetary aggregates and are therefore not comparable with the erstwhile German money stocks M1, M2 or M3. **8** including DM banknotes still in circulation (see also footnote 4 on p 10°) **9** For the German contribution, the difference between the volume of

								Memo item						
issued (net) ³					Other liabilit	y items		gregates 7 German conti rency in circul						
With matur			1								1			
up to 1 year 4	over 1 year and up to 2 years	over 2 years	Liabilities to non- euro-area residents 5	Capital and reserves 6	Excess of inter-MFI liabilities	Total 8	of which Intra- Eurosystem- liability/ claim related to banknote issue 9	M1 10	M2 11	M3 12	Monetary capital forma- tion 13	Monetary liabilities of central govern- ments (Post Office, Treasury) 14	End of year/month	
	Euro area (€ billion) ¹													
30.8 29.7 61.6	7 38.8		3,563.2 3,573.4 3,561.6	2,491.2 2,504.1 2,459.6	- 83.4 - 68.5 - 45.1	4,520.1 4,715.3 4,570.9		5,726.9 5,827.3 5,938.9	9,478.2 9,568.3 9,682.5	10,104.8 10,197.2 10,313.4	7,261.3 7,259.8 7,183.3	107.8 113.3 112.3	2014 Oct Nov Dec	
58.8 59.3 53.6	3 43.4	2,408.1 2,403.7 2,398.4	3,915.5 3,942.8 3,974.6	2,552.3 2,545.2 2,574.2	- 101.7 - 115.3 - 68.7	5,013.8 4,919.6 5,132.0		6,030.9 6,061.3 6,119.4	9,739.9 9,738.4 9,802.4	10,388.9 10,410.7 10,452.9	7,239.3 7,244.0 7,256.5	110.6 109.1 109.5	2015 Jan Feb Mar	
57. ⁻ 54. ⁻ 58	1 42.3	2,361.9 2,349.8 2,330.3	4,002.6 3,960.1 3,789.6	2,541.5 2,549.9 2,532.2	- 78.5 - 67.3 - 59.5	4,838.1 4,636.4 4,274.9	-	6,203.6 6,302.5 6,361.2	9,871.1 9,941.4 9,974.9	10,555.3 10,592.0 10,594.4	7,163.8 7,151.4 7,099.7	107.6 110.0 112.4	Apr May June	
46.0 35.7 32.7	7 47.4	2,314.4 2,291.3 2,264.9	3,888.7 3,883.4 3,808.9	2,531.2 2,529.7 2,533.7	- 67.0 - 65.9 - 52.7	4,405.0 4,306.7 4,317.7	-	6,408.3 6,416.1 6,438.2	10,029.0 10,033.7 10,041.6	10,668.5 10,664.8 10,659.1	7,089.5 7,058.5 7,032.0	114.8 116.3 117.3	July Aug Sep	
32.6 31.7 22.9	1 49.2	2,257.9 2,286.9 2,248.2	3,861.9 3,915.4 3,662.8	2,559.8 2,565.1 2,548.9	- 75.9 - 77.2 - 49.3	4,355.2 4,533.2 4,094.4	-	6,525.3 6,592.2 6,631.5	10,115.1 10,181.7 10,230.1	10,767.6 10,833.1 10,832.5	7,031.4 7,053.5 7,000.0	115.7 121.9 123.0	Oct Nov Dec	
29.2 33.0 37.2	6 54.3	2,221.3 2,199.9 2,176.4	3,809.9 3,922.0 3,739.2	2,572.8 2,609.7 2,592.2	- 76.5 - 98.0 - 93.9	4,386.2 4,553.1 4,378.3	-	6,665.8 6,688.2 6,721.4	10,265.9 10,280.1 10,324.4	10,900.7 10,934.5 10,961.5	6,987.8 7,013.0 6,962.9	123.6 122.8 121.3	2016 Jan Feb Mar	
41.4 39.7 49.8	7 49.1	2,178.1 2,188.9 2,178.2	3,927.3 4,033.3 3,955.3	2,604.1 2,600.6 2,664.7	- 98.8 - 82.9 - 62.0	4,283.4 4,361.8 4,558.8		6,815.2 6,867.4 6,901.2	10,400.9 10,442.6 10,473.7	11,063.2 11,103.3 11,124.7	6,971.0 6,973.8 7,007.2	122.7 126.6 127.7	Apr May June	
54.9 54.3 48.7	9 48.1 3 46.3	2,149.1 2,146.3	4,091.2 4,132.9 4,088.3	2,678.4 2,676.0 2,698.1	- 105.0 - 84.9 - 46.5	4,519.7 4,434.1 4,387.0	-	6,967.5 6,961.8 6,984.5	10,544.7 10,535.1 10,552.7	11,219.6 11,208.5 11,210.4	6,984.1 6,973.5 6,962.2	131.5 131.4 131.3	July Aug Sep	
53.0 50.2	0 43.5	2,124.6	4,292.4	2,683.8	- 31.1	4,235.3	=	7,046.6 7,149.9	10,568.2	11,240.8	6,945.3	131.8	Oct Nov	
									Gerr	nan conti	ribution (€	billion)		
11.3 10.4 10.3	4 7.9	530.2 532.2 529.4	636.4 654.2 633.4	529.7 532.9 535.7	- 620.1 - 621.3 - 605.7	1,557.6 1,608.0 1,648.7	261.8 264.4 267.9	1,575.2	2,384.5 2,411.1 2,405.7	2,416.2 2,442.4 2,430.3	1,862.2 1,864.4 1,855.6	-	2014 Oct Nov Dec	
11.8 14.3 14.9	3 7.9	546.9 551.0 549.6	763.4 751.7 755.9	553.3 550.7 557.2	- 674.0 - 678.0 - 670.7	1,780.3 1,715.9 1,793.0	270.3 272.4 274.7		2,426.5 2,452.0 2,458.5	2,456.5 2,485.5 2,492.8	1,888.6 1,887.4 1,886.7		2015 Jan Feb Mar	
18.9 18.0 18.1	6 5.6	540.2 533.1 531.7	770.7 764.2 718.1	553.7 556.8 555.8	- 666.9 - 676.8 - 670.9	1,698.4 1,641.5 1,543.2	276.9 279.3 280.2		2,485.8 2,511.5 2,512.5	2,527.5 2,544.0 2,543.1	1,861.4 1,854.4 1,846.8		Apr May June	
18.2 16.2 21.9	2 5.9	535.1 524.9 517.2	742.1 754.9 736.7	552.4 552.8 553.5	- 692.2 - 711.7 - 709.5	1,577.2 1,552.8 1,572.5	284.9 287.3 290.1		2,529.7 2,539.8 2,551.4	2,561.0 2,571.9 2,592.3	1,857.9 1,847.1 1,836.0		July Aug Sep	
25.8 26.4 26.3	4 9.6	521.7 526.5	737.2 724.9 659.6	558.6 553.7 552.5	- 754.5	1,566.6 1,621.4 1,537.4	293.1 295.2	1,752.7 1,788.4	2,580.5 2,624.1 2,610.8	2,624.6 2,670.0 2,652.3	1,835.4 1,830.6		Oct Nov Dec	
25.2 25.2 24.0	2 11.2 5 11.8	498.4 490.7	702.8 739.6 699.0	560.8 574.8 569.9	- 766.0 - 790.7	1,620.7 1,683.0 1,622.4	297.1 297.7	1,793.6 1,807.0	2,633.8 2,644.8 2,641.1	2,676.6 2,689.9 2,682.7			2016 Jan Feb Mar	
23.9 22.8 23.8	9 11.7 8 12.3	486.1 495.8	753.1 758.5 783.3	575.6 571.4 592.6	- 803.0 - 823.1	1,566.8 1,577.5 1,670.0	300.9 303.9	1,817.3 1,839.6	2,663.6 2,685.7 2,686.4	2,705.9 2,726.9 2,727.1	1,795.3 1,800.7 1,811.5		Apr May June	
30.5 27.4 26.4	5 12.6 4 12.5	481.1 484.5	807.8 826.1 851.2	595.1 589.2 594.2	- 824.9 - 846.9	1,673.4 1,640.6 1,616.7	311.7	1,853.4 1,864.6	2,702.0 2,711.7 2,719.5	2,750.9 2,757.1 2,764.2	1,806.5 1,801.3 1,797.3		July Aug Sep	
25.3 22.0	3 13.4	487.3 504.7	899.9 906.7	585.3 578.0	- 863.2 - 928.9	1,564.6 1,534.8	322.0	1,879.9 1,918.0	2,721.9 2,763.8	2,766.1 2,805.7	1,799.8 1,819.3		Oct Nov	

euro banknotes actually issued by the Bundesbank and the amount disclosed in accordance with the accounting regime chosen by the Eurosystem (see also footnote 2 on banknote circulation in Table III.2). **10** Overnight deposits (excluding central governments' deposits), and (for the euro area) currency in circulation, central governments' overnight monetary liabilities, which are not included in the consolidated balance sheet. **11** M1 plus deposits with agreed maturities of up to 2

years and at agreed notice of up to 3 months (excluding central governments' deposits) and (for the euro area) central governments' monetary liabilities with such maturities. **12** M2 plus repo transactions, money market fund shares, money market paper and debt securities up to 2 years. **13** Deposits with agreed maturities of over 2 years, and at agreed notice of over 3 months, debt securities with maturities of over 2 years, capital and reserves. **14** Non-existent in Germany.

II Overall monetary survey in the euro area

3 Banking system's liquidity position * Stocks

€ billion; period averages of daily positions

	Liquidity-prov		ually positions			Liquidity-abs	orbing factors						
	Monetary policy operations of the Eurosystem					Elquidity ubs	orbing factors						
		wonctary poi		of the Eurosys							Credit		
Reserve maintenance period	Net assets in gold and foreign currency	Main refinancing operations	Longer- term refinancing operations	Marginal lending facility	Other liquidity- providing operations 3	Deposit facility	Other liquidity- absorbing operations 4	Banknotes in circulation 5	Central government deposits	Other factors (net) 6	institutions' current account balances (including minimum reserves) 7	Base money 8	
ending in 1	Eurosystem 2												
2014 July Aug Sep	540.0 547.6 547.8	111.7 106.6 114.7	460.1 414.7 387.4	0.1 0.3 0.2	209.0 202.2 196.3	23.9 24.6 25.2	27.2 0.0 0.0	958.1 967.6 971.8	110.0 92.4 66.2	- 12.5 - 23.6 - 27.0	214.3 210.2 210.1	1 196.3 1 202.5 1 207.1	
Oct Nov Dec	552.0 562.0 564.3	98.9 95.2 103.3	398.2 412.5 396.1	0.2 0.3 0.2	194.7 193.3 202.0	24.3 31.0 27.3	0.0 0.0 0.0	971.3 973.6 979.8	78.4 76.1 71.7	- 22.6 - 5.7 1.8	192.6 188.3 185.4	1 188.2 1 192.8 1 192.5	
2015 Jan Feb	576.4	119.0	454.4	0.5	217.9	50.2	0.0	1 005.5	66.3	9.8	236.3	1 292.1	
Mar Apr	589.2 625.9	142.6 118.9	375.0 386.1	0.4 0.2	230.8 290.6	42.4 68.6	0.0 0.0	1 005.4 1 015.9	62.1 70.2	2.7 5.1	225.3 261.8	1 273.1 1 346.4	
May June	655.7	95.9 97.4	406.Ġ	0.1	383.1	99.7	0.Ö	1 027.4	76.5	34.5	303.4	1 430.5	
July Aug	642.9	82.4	443.2	0.3	471.8	103.1	0.0	1 042.7	96.3	17.2	381.4	1 527.2	
Sep Oct	627.4 619.1	72.4 70.2	462.2 462.1	0.6 0.1	550.8 643.2	148.0 152.8	0.0 0.0	1 055.3 1 052.4	63.4 95.2	18.1 28.9	428.4 465.3	1 631.8 1 670.5	
Nov Dec	612.2	. 66.1	459.3	0.1	730.7	173.1	0.0	1 056.5	93.5	51.5	493.8	1 723.4	
2016 Jan	611.6	71.6	466.9	0.1	811.8	196.6	0.0	1 072.8	82.5	53.2	557.1	1 826.5	
Feb Mar	607.8	62.9	461.7	0.İ	907.6	230.5	0.Ò	1 063.4	115.6	73.9	556.5	1 850.4	
Apr May	627.3	58.1	460.8	0.2	1 000.1	262.0	0.0	1 069.3	147.4	97.7	570.0	1 901.3	
June	640.3	53.9	456.3	0.2	1 105.3	309.0	0.0	1 076.6	123.9	122.8	623.8	2 009.4	
July Aug	666.1	47.6	471.6	0.1	1 227.1	323.1	0.0	1 087.1	175.5	169.4	657.5	2 067.7	
Sep Oct	685.0 687.8	43.5 37.4	483.7 503.5	0.0 0.1	1 339.7 1 447.0	355.1 387.3	0.0 0.0	1 096.2 1 094.7	137.8 168.3	214.0 248.0	748.8 777.4	2 200.2 2 259.4	
Nov Dec	687.4	34.0	511.8	0.1 0.2	1 570.2	439.4	0.0 0.0		159.7		823.9	2 366.3	
bee		Bundesba	-	0.2	1 57 6.2		0.0	1 105.11	155.7	277.0	02515	2 300.5	
2014 July	136.9			0.1	48.9	8.4	9.0	228.1	1.6	- 99.6	64.6	301.0	
Aug Sep	138.8	10.0 6.2 4.1	11.3	0.1 0.0 0.1	48.9 47.4 45.9	6.8 8.7	0.0 0.0	230.5 231.1	0.9 1.0	- 99.0 - 96.7 - 103.5	62.3 61.5	299.5 301.2	
Oct Nov	139.4 141.0	5.6 8.0	12.2 14.9	0.0 0.1	45.5 45.5	9.0 9.0	0.0 0.0	231.7 231.4	1.2 0.9	- 102.2 - 89.5	63.1 57.6	303.8 298.0	
Dec 2015 Jan	140.8 141.9	6.6 13.4	16.6 30.7	0.0 0.0	47.3 50.4	9.3 14.9	0.0 0.0	232.4 237.3	0.9 1.2	- 86.7 - 92.3	55.5 75.3	297.2 327.5	
Feb Mar	143.2	6.6	30.9	0.0	52.4	12.4	.0.0	237.0	1.5	- 92.6	74.7	324.1	
Apr	151.5	5.6	29.5	0.1	64.8	21.2	0.0	239.9	1.1	- 100.3	89.4	350.5	
May June	159.2	3.6	28.8	0.Ö	83.9	28.6	0.Ö	242.5	2.Ò	– 100.4	102.8	373.9 [.]	
July Aug	155.4	2.1	36.4	0.0	102.5	25.5	0.0	246.2	3.4	- 101.4	122.8	394.4	
Sep	151.2	1.8	40.0	0.0	119.1	42.4	0.0	249.5	2.9	- 118.3	135.9	427.7	
Oct Nov	148.4	2.8	40.8	0.0	138.2	40.8	0.0	248.8	5.2	- 115.9	151.2	440.9	
Dec 2016 Jan	146.1 144.8	3.2 3.6	43.3 48.4	0.0 0.1	156.3 174.0	56.1 50.0	0.0 0.0	249.1 252.4	9.3 18.0	- 116.3 - 124.0	150.7 174.4	455.9 476.8	
Feb													
Mar Apr	143.7 152.2	1.9 3.1	46.3 45.0	0.0 0.0	193.9 214.1	59.8 67.6	0.0 0.0	250.4 252.1	26.1 37.3	- 113.3 - 105.1	162.9 162.4	473.1 482.1	
May June	156.4	3.3	45.3	0.0	237.2	87.3	0.0	254.7	41.1	- 127.2	186.5	528.4	
July	163.3	2.7	44.7	0.0	263.4	89.8	0.0	257.4	47.2	- 117.0	196.6	543.9	
Aug Sep	168.3	1.9	44.0	0.0	288.2	90.8	0.0	258.7	36.2	– 112.6	229.3	578.9	
Oct Nov	168.7	1.5	50.6	0.0	311.9	105.2	0.0	258.6	50.5	- 125.2	243.6	607.4	
Dec	167.7	0.9	54.0	0.0	339.2	129.7	0.0	260.3	43.7	– 141.9	270.0	660.0	

Discrepancies may arise from rounding. * The banking system's liquidity position is defined as the current account holdings in euro of euro-area credit institutions with the Eurosystem. Amounts are derived from the consolidated financial statement of the Eurosystem and the financial statement of the Bundesbank. 1 Figures are daily averages for the reserve maintenance period ending in the month indicated. Following the changeover in the frequency of Governing Council monetary policy meetings to a six-week cycle, a reserve maintenance period no longer ends in every month. No

figures are available in such cases. **2** Source: ECB. **3** Includes liquidity provided under the Eurosystem's securities purchase programmes. **4** From Aug. 2009, includes liquidity absorbed as a result of the Eurosystem's foreign exchange swap operations. **5** From 2002, euro banknotes and other banknotes which have been issued by the na-tional central banks of the Eurosystem and which are still in circulation. In ac-cordance with the accounting procedure chosen by the Eurosystem for the issue of euro banknotes, 8% of the total value of the euro banknotes in circulation are

II Overall monetary survey in the euro area

Flows

Liquidi	ty-prov	iding fa	ctors							Liquidi	ty-abs	orbing fa	ictors											
		Monet	ary pol	icy opera	ations	of the E	urosys	stem]										
Net as: in gold and fo current	reign	Main refinan operat		Longer term refinan operati	cing	Margin lending facility		Other liquidity providii operatio	ng	Deposi facility		Other liquidity absorbir operatic	ng	Bankno in circulat		Central governm deposits	nent	Other factors (net) 6		Credit institutic current account balances (includin minimur reserves	s ng n) 7	Base money OSYSTE		Reserve maintenance period ending in 1
+	3.2	-	36.4	-	47.7	+	0.0	-	6.9	-	4.4	-	98.8	+	7.1	I -	1.6	-	12.0	+	22.0	USYSIE +	24.7	2014 July
+++++	7.6 0.2	-+	5.1	=	45.4 27.3	+	0.2	-	6.8 5.9	++	0.7	- ±	27.2 0.0	+++++	9.5 4.2	-	17.6 26.2		11.1 3.4	-	4.1 0.1	+++++++++++++++++++++++++++++++++++++++	6.2 4.6	Aug Sep
++++	4.2 10.0	-	15.8 3.7	++++	10.8 14.3	± +	0.0 0.1	-	1.6 1.4	-+	0.9 6.7	±±	0.0 0.0	- +	0.5 2.3	+ _	12.2 2.3	++++	4.4 16.9	-	17.5 4.3	- +	18.9 4.6	Oct Nov
+	2.3 12.1	+++++	8.1 15.7	- +	16.4 58.3	- +	0.1 0.3	+++++++++++++++++++++++++++++++++++++++	8.7 15.9	-	3.7 22.9		0.0 0.0	++++	6.2 25.7	-	4.4 5.4	++++	7.5 8.0	-+	2.9 50.9	- +	0.3 99.6	Dec 2015 Jan
+	12.1	+	23.6	_	79.4	<u>-</u>	0.1	+	12.9	_	7.8		0.0 0.0	. _	0.1	-	4.2	_	7.1	_	11.0	-	19.0	Feb Mar
+	36.7	-	23.7	+	11.1	-	0.2	+	59.8	+	26.2	±	0.0	+	10.5	+	8.1	+	2.4	+	36.5	+	73.3	Apr May
+	29.8 12.8	-	23.0 13.5	++++	20.5 36.6	- +	0.1 0.2	+++++++++++++++++++++++++++++++++++++++	92.5 88.7	+++++++++++++++++++++++++++++++++++++++	31.1 3.4	± ±	0.0 0.0	++++	11.5 15.3	++++	6.3 19.8		29.4 17.3	++++	41.6 78.0	++++	84.1 96.7	June July
-	15.5	-	10.0	+	19.0	· +	0.2 0.3	+	79.0		 44.9		0.0 0.0	+	12.6	_	32.9	+	0.9	+	47.0	+	104.6	Aug Sep
-	8.3	-	2.2	-	0.1	-	0.5	+	92.4	+	4.8	±	0.0	-	2.9	+	31.8	+	10.8	+	36.9	+	38.7	Oct Nov
	6.9 0.6	-+	4.1 5.5	- +	2.8 7.6	- +	0.0 0.1	++++	87.5 81.1		20.3 23.5	± ±	0.0 0.0	++++	4.1 16.3	-	1.7 11.0	++++	22.6 1.7	++++	28.5 63.3	++++	52.9 103.1	Dec 2016 Jan
-	3.8	· -	8.7		5.2	_	0.1	+	95.8		33.9		0.0	- I	. 0.5 9.4	+	33.1		20.7	_	0.6	+	23.9	Feb
+	19.5	-	4.8	-	0.9	+	0.1	+	92.5	+	31.5	±	0.0	+	5.9	+	31.8	+	23.8	+	13.5	+	50.9	Apr May
+	13.0 25.8	-	4.2 6.3	- +	4.5 15.3	± _	0.0 0.1	+++++++++++++++++++++++++++++++++++++++	105.2 121.8		47.0 14.1	± ±	0.0 0.0	+++++	7.3 10.5	- +	23.5 51.6		25.1 46.6	++++	53.8 33.7	++++	108.1 58.3	June July
+	18.9	-	4.1	+	12.1	-	0.1	+	1121.0 112.6		32.0		0.0 0.0	+	9.1	_	37.7		44.6	+	91.3	+	132.5	Aug Sep
+	2.8	-	6.1	+	19.8	+	0.1	+	107.3	+	32.2	±	0.0	-	1.5	+	30.5	+	34.0	+	28.6	+	59.2	Oct Nov
-	0.4	- 1	3.4	+	8.3	+	0.1	+	123.2	+	52.1	l ±	0.0	+	8.4	-	8.6	+	29.6	+	46.5	-	106.9	Dec
	0.7		10.4		2.0		0.1		17		0.7		22.0		2 1		0.2			eutsch				2014 July
++	0.7 1.9 0.2		18.4 3.8 2.0	-	2.0 4.8 1.3	+ - +	0.1 0.1 0.1	-	1.7 1.5 1.6	+ - +	0.7 1.6 1.9	- - ±	32.9 9.0 0.0	+++++++++++++++++++++++++++++++++++++++	2.1 2.4 0.6	+ - +	0.2 0.6 0.1	+	0.6 2.9 6.8	+	9.1 2.3 0.7	+ - +	11.9 1.5 1.7	Aug Sep
+	0.8 1.5	+	1.5 2.4	+	2.2 2.7	- +	0.0 0.1	-	0.4 0.1	+	0.4	±	0.0	+	0.6 0.3	+	0.2	+	1.3 12.7	+	1.6 5.5	+	2.5 5.8	Oct Nov
+ -	0.1	+ -	1.4	+	1.7	-	0.1	+	1.8	++	0.3	± ±	0.0	+	1.0	-	0.0	+	2.8	-	2.0	-	0.8	Dec
+	1.1 1.2	+	6.7 6.7	+++++++++++++++++++++++++++++++++++++++	14.1 0.2	- +	0.0 0.0	+++++++++++++++++++++++++++++++++++++++	3.1 2.0	+	5.6 2.5		0.0 0.0	+	4.9 0.3	+++++++++++++++++++++++++++++++++++++++	0.3 0.3	-	5.7 0.2	+	19.8 0.7	+	30.4 3.5	2015 Jan Feb Mar
+	8.3	-	1.1	-	1.4	+	0.0	+	12.4	+	8.8	±	0.0	+	3.0	-	0.4	-	7.8	+	14.7	+	26.4	Apr May
+	7.7	-	2.0	-	0.7 7.6	-	0.0 0.0	+	19.2	+	7.4	±	0.0 0.0	+	2.6 3.7	+	0.8	-	0.0	+	13.5	+	23.4	June
	3.8 4.1		1.5 0.3	+++++++++++++++++++++++++++++++++++++++	7.6 3.7	- +	0.0 0.0	+++++++++++++++++++++++++++++++++++++++	18.6 16.6	-	3.1 16.9	± ±	0.0 0.0	+++++++++++++++++++++++++++++++++++++++	3.7 3.2	+	1.4 0.4	-	1.0 17.0	+++	19.9 13.1	+++++++++++++++++++++++++++++++++++++++	20.5 33.2	July Aug Sep
-	2.9	+	0.9	+	0.8	-	0.0	+	19.1	-	1.5	±	0.0	-	0.6	+	2.3	+	2.4	+	15.4	+	13.2	Oct
-	2.3	+	0.4	+	2.5	-	0.0	+	18.1		15.2	±	0.0	+	0.3	+	4.1	-	0.4	-	0.6	+	15.0	Nov Dec
	1.3 1.0	+	0.5 1.7	+	5.1 2.1	+	0.1 0.0	+	17.7 19.9	- +	6.0 9.8	± ±	0.0 0.0	+	3.3 2.1	+++++++++++++++++++++++++++++++++++++++	8.7 8.1	- +	7.6 10.7	+	23.7 11.5	+	21.0 3.8	2016 Jan Feb Mar
+	8.4	+	1.1	-	1.3	+	0.0	+	20.3	+	7.8	±	0.0	+	1.7	+	11.3	+	8.2	-	0.4	+	9.0	Apr
+	4.3	+	0.3	+	0.4	-	0.Ö	+	23.1		19.7	±	0.0	+	2.6	+	3.8		22.1	+	24.1	+	46.3	May June
+	6.9 5.1		0.6 0.8		0.6 0.7	-	0.0 0.0	+++++++++++++++++++++++++++++++++++++++	26.2 24.8	+++++++++++++++++++++++++++++++++++++++	2.6 1.0		0.0 0.0	+	2.8 1.3	+	6.1 11.0	+++	10.2 4.4	+++	10.1 32.7	+++++++++++++++++++++++++++++++++++++++	15.4 35.0	July Aug Sep
+	0.4	-	0.8	+	6.6	+	0.0	+	24.8 23.7		14.4	+ +	0.0	-	0.1	+	14.3		4.4 12.6	+	14.2	+	28.5	Oct
- 1	0.9	_	0.5	+	3.3	+	0.Ò	+	27.3	+	24.4	±	0.Ö	+	1.7	-	6.8	- 1	16.7	+	26.5	+	52.6	Nov Dec

allocated on a monthly basis to the ECB. The counterpart of this adjustment is shown under "Other factors". The remaining 92% of the value of the euro banknotes in circulation is allocated, likewise on a monthly basis, to the NCBs, with each NCB showing in its balance sheet the percentage of the euro banknotes in circulation that corresponds to its paid-up share in the ECB's capital. The difference between the value of the euro banknotes allocated to an NCB and the value of the euro banknotes which that NCB has put into circulation is likewise shown under

"Other factors". From 2003 euro banknotes only. **6** Remaining items in the consolidated financial statement of the Eurosystem and the financial statement of the Bundesbank. **7** Equal to the difference between the sum of liquidity-providing factors and the sum of liquidity-absorbing factors. **8** Calculated as the sum of the "deposit facility", "banknotes in circulation" and "credit institutions' current account holdings".

1 Assets *

		€ billion								
				Claims on non-eur	o area residents de	enominated		Claims on non-euro a residents denomination		
On reporting date/ End of month 1		Total assets	Gold and gold receivables	Total	Receivables from the IMF	Balances with banks, security investments, external loans and other external assets	Claims on euro area residents denominated in foreign currency	Total	Balances with banks, security investments and loans	Claims arising from the credit facility under ERM II
		Eurosystem	2							
2016 May	6 13 20 27	3,017.8 3,032.8 3,054.1 3,067.5	377.3 377.3 377.3 377.3 377.3	298.2 298.7 297.6 299.0	77.0 77.0 76.8 76.8	221.1 221.8 220.8 222.2	29.0 29.7 30.9 30.4	17.5 17.6 18.0 18.4	17.5 17.6 18.0 18.4	- - - -
June	3 10 17 24	3,078.6 3,093.9 3,109.6 3,131.1	377.3 377.3 377.3 377.3 377.3	300.6 300.0 298.0 299.6	76.8 76.6 76.6 76.6	223.7 223.4 221.4 223.1	30.1 30.3 31.1 30.1	18.6 18.8 17.8 18.3	18.6 18.8 17.8 18.3	- - - -
July	1 8 15 22 29	3,232.6 3,237.9 3,249.2 3,265.8 3,284.3	413.1 413.1 413.1 413.1 413.1 413.1	309.0 307.8 305.9 308.6 307.6	77.6 77.6 77.6 77.6 77.6 77.4	231.3 230.1 228.3 231.0 230.1	33.2 34.7 33.9 30.6 33.2	18.3 18.4 17.9 17.3 17.5	18.3 18.4 17.9 17.3 17.5	
Aug	5 12 19 26	3,286.1 3,296.6 3,313.3 3,330.5	413.1 413.1 413.1 413.1 413.1	308.4 307.3 308.9 310.1	77.2 77.2 77.2 77.2 77.2	231.2 230.1 231.6 232.8	32.9 33.6 32.2 32.6	16.6 17.1 17.2 17.2	16.6 17.1 17.2 17.2	
Sep	2 9 16 23 30	3,341.8 3,358.7 3,372.4 3,391.4 3,438.1	413.1 413.1 413.1 413.1 413.1 412.6	311.3 311.6 312.3 314.5 315.2	77.3 77.3 77.3 77.3 77.3 77.8	234.0 234.3 235.0 237.3 237.4	30.5 30.4 29.9 29.6 33.9	17.3 17.2 17.0 17.8 19.6	17.3 17.2 17.0 17.8 19.6	- - - -
2016 Oct	7 14 21 28	3,451.4 3,469.3 3,494.9 3,507.4	412.6 412.6 412.6 412.6	313.7 313.0 313.1 311.5	77.8 77.8 77.8 78.3	235.8 235.2 235.3 233.1	32.5 33.3 35.3 36.1	19.0 18.2 18.5 17.9	19.0 18.2 18.5 17.9	
Nov	4 11 18 25	3,518.5 3,534.3 3,553.4 3,566.2	412.6 412.6 412.6 412.6	312.9 314.3 314.6 314.1	78.2 78.2 78.2 77.4	234.7 236.1 236.4 236.6	36.1 32.4 32.5 32.3	17.6 17.1 18.3 18.2	17.6 17.1 18.3 18.2	- - - -
Dec	2 9 16 23 30	3,587.4 3,609.8 3,630.7 3,685.7 3,662.9	412.6 412.6 412.6 412.6 382.1	314.4 316.5 319.5 317.8 327.9	77.4 77.5 77.5 77.1 78.8	237.0 239.1 242.0 240.6 249.1	34.0 36.1 36.9 35.5 30.7	17.4 17.9 18.1 18.3 19.1	17.4 17.9 18.1 18.3 19.1	
2017 Jan	6	3,672.6	382.1	326.6	78.7	247.8	31.9	18.5	18.5	_
		Deutsche Bu								
2015 Feb Mar		800.2 847.9	107.5 120.0	51.9 56.9	20.3 21.3	35.7		-		-
Apr May June July		856.5 860.3 880.1 903.5	120.0 120.0 113.8 113.8	56.9 56.8 54.5 53.3	21.2 21.1 20.6 19.9	35.6 35.7 33.8 33.4	0.0 0.0 -			
Aug Sep Oct		930.8 936.9 956.3	113.8 109.0 109.0	53.1 53.0 53.1	20.2 20.1 20.1	32.9 32.8 33.0				
Nov Dec 2016 Jan		1 002.6 1 011.5 1 018.5	109.0 105.8 105.8	52.6 53.7 53.6	20.0 20.3 20.4	32.6 33.4 33.2	0.0 - 0.0	0.0	0.0	-
Feb Mar Apr		1 043.7 1 077.6 1 112.7	105.8 105.8 117.8 117.8	55.0 53.4 54.1	22.0 22.0 21.5 21.5	33.0 32.0 32.7	0.0	- - 0.0		-
May June July		1 159.5 1 214.0 1 209.4	117.8 129.0 129.0	54.9 55.7 56.0	21.5 21.5 21.5 21.5	33.4 34.1 34.5	0.0 0.7 0.2	-	-	-
Aug Sep Oct		1 239.2 1 305.3 1 312.2	129.0 128.8 128.8	56.1 55.0 54.9	21.4 21.3 21.3	34.7 33.7 33.6	0.3 2.3	- 0.4 0.3	- 0.4 0.3	
Nov Dec		1 376.5 1 392.7	128.8 119.3	55.0 56.5	21.1 21.5	33.9	0.1	0.4 0.4	0.4	

 * The consolidated financial statement of the Eurosystem comprises the financial statement of the European Central Bank (ECB) and the financial statements of the

national central banks of the euro area member states (NCBs). The balance sheet items for foreign currency, securities, gold and financial instruments are valued at the

Lending to e		dit institutions	related to m	onetary poli	cy operation:	5		Securities of e	euro area reside	ents				
Total	Main re- financing opera- tions	Longer- term re- financing opera- tions	Fine- tuning reverse opera- tions	Structural reverse opera- tions	Marginal lending facility	Credits related to margin calls	Other claims on euro area credit institutions denomi- nated in euro	Total	Securities held for monetary policy purposes	Other securities	General government debt deno- minated in euro	Other assets	On reporting date/ End of month 1	
											Euro	system ²		
512.4 510.1 508.6 511.7	51.4	458.5 458.5 458.5 451.2			0.3 0.1 0.1 0.3		117.6 114.4 117.3 108.1	1 425.4 1 443.0 1 460.7 1 480.9	1 096.0 1 113.8	347.7 347.0 346.9 347.1	27.0 27.0 27.0 27.0 27.0	213.5 215.2 216.8 214.8	2016 May	6 13 20 27
503.2 502.1 500.4 501.2	51.9 50.8 49.1 49.9	451.2 451.2 451.2 451.2			0.1 0.1 0.1 0.1		108.3 107.4 107.7 103.5	1 499.4 1 517.3 1 537.0 1 559.0	1 171.3 1 191.4	347.0 346.1 345.6 346.1	27.0 27.0 27.0 27.0	214.2 213.7 213.4 215.1	June	3 10 17 24
540.0 531.2 529.3 530.6 533.6	44.1 42.5 43.6	486.8 486.8 486.8 486.8 486.8 484.0	- - - -	- - - - -	0.2 0.3 0.0 0.2 0.0	- - - -	96.5 95.3 95.8 94.4 94.0	1 573.4 1 589.0 1 605.9 1 623.7 1 639.4	1 243.7 1 263.6 1 281.4	347.8 345.3 342.3 342.3 340.6	26.5 26.5 26.5 26.5 26.5 26.5	222.5 221.9 220.8 221.1 219.5	July	1 8 15 22 29
527.1 525.6 525.7 526.8	43.0 41.6 41.7 42.8	484.0 484.0 484.0 484.0			0.1 		93.1 92.2 93.8 95.7	1 650.0 1 663.2 1 676.5 1 689.0	1 325.6 1 339.3	337.6 337.6 337.2 337.2	26.5 26.5 26.5 26.5	218.4 217.9 219.5 219.5	Aug	5 12 19 26
526.5 524.5 524.4 526.0 552.6		482.7 482.7 482.7 482.7 513.8	- - - -		0.0 0.0 0.1 0.0		96.3 94.8 93.9 90.0 83.4	1 702.2 1 721.4 1 734.8 1 751.6 1 764.1	1 385.2 1 402.2 1 420.3	336.6 336.2 332.7 331.3 329.3	26.5 26.5 26.5 26.5 26.5 26.4	218.0 219.2 220.5 222.4 230.4	Sep	2 9 16 23 30
548.2 546.8 547.3 548.3	34.4 32.9 33.4 36.0	513.8 513.8 513.8 513.8 512.2			0.1 0.1 0.0 0.1		90.0 88.9 91.7 93.9	1 784.5 1 805.1 1 822.0 1 840.4	1 475.7 1 492.7	329.6 329.4 329.3 327.5	26.4 26.4 26.4 26.4 26.4	224.6 225.0 228.0 220.1	2016 Oct	7 14 21 28
545.1 543.7 544.9 546.1	32.7 31.4 32.6 33.7	512.2 512.2 512.2 512.2 512.2			0.2 0.1 0.0 0.2		91.8 91.4 87.5 83.8	1 856.6 1 875.6 1 895.5 1 913.9	1 551.1 1 572.3	325.1 324.5 323.3 323.8	26.4 26.4 26.4 26.4 26.4	219.3 220.6 221.0 218.7	Nov	4 11 18 25
546.6 546.5 547.4 589.8 595.9	35.8 36.8 32.9	510.5 510.5 510.5 556.6 556.6	- - - -		0.2 0.2 0.1 0.4 0.2		83.1 81.7 79.8 71.7 69.1	1 932.3 1 950.6 1 967.1 1 982.3 1 974.9	1 626.5 1 644.0 1 659.5	324.2 324.1 323.1 322.9 320.9	26.4 26.4 26.4 26.4 26.5	220.6 221.4 222.9 231.3 236.8	Dec	2 9 16 23 30
	34.0	556.6	-	-	0.2	-	70.9	1 987.0	1 666.1	320.9	26.5	238.5	2017 Jan	6
37.3		28.7			0.0		1 10	52.9	52.9	Deu	itsche Bun 4.4		2015 Feb	
37.2	7.3	29.7	-	-	0.0	-	4.6 3.6	65.7	65.7	-	4.4	560.0	Mar	
33.7 31.0 43.3 42.2	2.5	29.1 27.6 40.7 40.0			0.0 0.1 0.1		4.2 3.7 3.3 5.1	77.1 90.3 102.1 114.6	102.1	-	4.4 4.4 4.4 4.4	560.2 554.2 558.7 570.1	Apr May June July	
41.6 46.3	1.8 4.1	39.7 42.2	-	-	0.1 0.0	=	4.6 4.2	124.4 136.8	124.4 136.8	=	4.4 4.4	588.9 583.2	Aug Sep	
45.8 50.2 58.1	3.1 9.1	41.7 47.1 48.6	-	-	0.0 0.0 0.3		3.8 3.5 3.5	149.1 161.7 172.3	161.7 172.3		4.4 4.4 4.4	591.2 621.2 613.7	Oct Nov Dec	
51.2 44.9 49.7	1.9 3.7	48.5 43.0 46.0	-	-	0.0 0.0 0.0		2.8 2.3 3.4	185.0 197.6 210.4	197.6 210.4		4.4 4.4 4.4	615.7 633.6 638.4	2016 Jan Feb Mar	
49.7 48.8 47.3 46.4	3.8 2.8	45.5 45.0 44.5 44.1			0.0 0.0 0.0 0.0	-	4.3 4.3 5.2 5.5	227.3 244.8 261.8 279.9	244.8 261.8	-	4.4 4.4 4.4 4.4	655.0 684.4 710.0 688.0	Apr May June	
46.4 46.3 55.3 55.5	2.3 1.3	44.1 44.1 54.0 53.9	-	-	0.0	-	5.5 5.7 5.4	279.9 292.6 309.3 326.7	292.6 309.3	-	4.4 4.4 4.4 4.4	705.0 744.1 736.2	July Aug Sep	
55.5 55.2 65.5	1.0	53.9	-		0.7	-	5.4 4.8 3.0	345.4	345.4		4.4 4.4 4.4	782.3	Oct Nov Dec	

end of the quarter. ${\bf 1}$ For the Eurosystem: financial statements for specific weekly dates; for the Bundesbank: end of month financial statement. ${\bf 2}$ Source: ECB.

2 Liabilities *

€ billion

		€ billion												
						redit instituti ons denomin						Liabilities to other euro and		
On reporting date/ End of month 1		Total liabilities	Banknotes in circu- lation 2	Total	Current accounts (covering the minimum reserve system)	Deposit facility	Fixed- term deposits	Fine- tuning reverse opera- tions	Deposits related to margin calls	Other liabilities to euro- area credit institutions deno- minated in euro	Debt certifi- cates issued	denominated	General govern- ment	Other liabilities
		Eurosyste	m 4											
2016 May	6 13 20 27	3,017.8 3,032.8 3,054.1 3,067.5	1,077.7 1,078.0 1,075.5 1,076.4	949.2 944.8 911.9 920.8	633.4 635.4 604.1 611.8	309.2 307.6 308.8		-	0.2 0.2 0.2 0.2	3.8 4.0 4.2 4.2		182.0 200.0 247.5 262.7	85.1 102.7 150.8 167.6	96.9 97.3 96.7 95.1
June	3 10 17 24	3,078.6 3,093.9 3,109.6 3,131.1	1,081.3 1,081.8 1,081.7 1,082.2	968.5 984.3 932.6 911.0	620.8 643.8 611.2 613.1	347.5 340.3 321.2 297.6			0.3 0.2 0.2 0.3	3.9 3.9 4.0 3.8		223.3 220.9 287.4 332.3	122.6 117.9 183.7 233.0	100.7 103.1 103.7 99.3
July	1 8 15 22 29	3,232.6 3,237.9 3,249.2 3,265.8 3,284.3	1,088.5 1,092.1 1,093.8 1,093.5 1,097.0	1,023.4 1,030.7 1,008.0 985.5 1,029.7	693.0 688.5 674.6 664.9 698.4	330.3 342.1 333.3 320.6 331.2	- - - -		0.0 0.1 0.0 0.0 0.0	3.8 3.6 3.6 3.6 3.6 3.6	- - - -	251.2 237.1 275.2 309.5 277.0	154.2 140.9 177.8 213.3 179.4	97.0 96.3 97.4 96.2 97.7
Aug	5 12 19 26	3,286.1 3,296.6 3,313.3 3,330.5	1,099.2 1,100.4 1,096.8 1,093.1	1,094.4 1,097.3 1,099.6 1,086.5	753.7 742.5 740.9 740.0	340.8 354.8 358.7 346.4		-	0.0 0.0 0.0 0.0	3.6 3.9 3.9 4.2	- - -	208.9 225.0 240.9 270.2	111.2 126.4 142.7 171.6	97.7 98.6 98.2 98.6
Sep	2 9 16 23 30	3,341.8 3,358.7 3,372.4 3,391.4 3,438.1	1,095.5 1,095.6 1,094.3 1,092.2 1,096.3	1,143.0 1,163.4 1,133.6 1,127.2 1,157.9	764.0 777.5 767.9 764.4 759.8	378.9 385.9 365.7 362.8 398.0	- - - -		0.1 0.0 0.0 0.0 0.1	4.1 3.9 3.9 3.9 3.8	- - - -	217.0 227.8 258.9 273.6 261.0	118.2 128.6 157.3 171.0 155.4	98.8 99.2 101.6 102.5 105.6
2016 Oct	7 14 21 28	3,451.4 3,469.3 3,494.9 3,507.4	1,097.2 1,096.2 1,095.1 1,100.3	1,186.9 1,195.0 1,178.3 1,197.2	777.4 793.5 781.2 812.8	409.4 401.5 397.0 384.4			0.1 0.0 0.0 0.0	3.8 3.5 3.6 3.4		264.2 276.9 304.0 290.5	158.0 171.4 192.8 186.2	106.2 105.5 111.3 104.3
Nov	4 11 18 25	3,518.5 3,534.3 3,553.4 3,566.2	1,102.5 1,100.7 1,099.3 1,099.8	1,256.7 1,260.2 1,261.5 1,249.2	801.1 800.3 802.5 820.4	455.6 459.7 459.0 428.8		-	0.0 0.1 0.0 0.0	3.5 3.8 3.8 3.5	- - - -	241.6 258.8 270.6 290.2	136.3 150.7 164.1 184.7	105.3 108.1 106.6 105.5
Dec	2 9 16 23 30	3,587.4 3,609.8 3,630.7 3,685.7 3,662.9	1,108.4 1,114.3 1,117.4 1,126.7 1,126.2	1,301.3 1,321.0 1,298.1 1,353.8 1,313.3	849.7 869.0 879.7 930.9 889.0	451.6 451.9 418.4 422.9 424.2		-	0.0 0.1 0.0 0.0 0.1	3.6 3.4 4.9 8.8 9.4		253.8 249.0 271.8 238.0 220.8	147.0 144.9 168.9 133.1 114.9	106.8 104.1 102.9 104.9 105.9
2017 Jan	6	3,672.6	1,122.2	1,369.2	928.6	440.5	-	-	0.0	8.9		213.8	110.2	103.6
		Deutsche	Bundesba	ink										
2015 Feb Mar		800.2 847.9	236.8 239.0	77.3	71.0 99.5	6.2 16.0	-		-	-	-	28.8 35.1	1.1 1.7	27.7 33.4
Apr May June		856.5 860.3 880.1	241.4 242.7 245.1	120.1 122.3 141.6	93.5 97.6 115.5	26.6 24.7 26.1		-	0.0			38.6 42.0 45.9	1.3 0.7 3.2	37.3 41.2 42.7
July Aug Sep Oct		903.5 930.8 936.9 956.3	248.6 248.0 247.5 247.9	155.8 185.8 173.5 184.3	118.0 135.3 139.4 140.9	37.8 50.6 34.1 43.3		-	0.0			44.3 42.2 56.8 65.5	2.3 1.9 2.3 2.8	42.0 40.3 54.5 62.7
Nov Dec		1 002.6 1 011.5	249.0 254.8	212.4 208.7	154.3 155.1	58.0 53.6		-	0.0	-		79.3 71.9	2.9 11.6	76.4 60.2
2016 Jan Feb Mar		1 018.5 1 043.7 1 077.6	249.9 250.1 251.9	228.7 231.5 227.3	172.7 165.9 167.8	56.0 65.6 59.6		-				75.6 88.2 108.8	10.7 18.7 39.9	64.8 69.5 69.0
Apr May June July		1 112.7 1 159.5 1 214.0 1 209.4	252.5 253.4 255.6 258.0	272.4 293.2 299.7 320.7	180.8 200.0 214.4 235.4	91.6 93.2 85.3 85.4	- - -	-	0.0			96.3 121.2 130.6 101.4	24.2 41.8 56.5 25.3	72.1 79.4 74.1 76.1
Aug Sep Oct		1 239.2 1 305.3 1 312.2	257.1 257.9 259.2	334.5 362.6 380.0	242.3 244.7 260.5	92.2 117.9 119.5		-	0.0	0.0 0.1 0.3		110.4 122.4 110.8	33.5 43.9 35.6	76.9 78.6 75.3
Nov Dec		1 376.5 1 392.7	259.5 264.9	428.0 411.4	293.1 284.9	134.9 126.4		-	-	0.3 0.5		116.6 105.8	40.0 32.5	76.6 73.4

* The consolidated financial statement of the Eurosystem comprises the financial statement of the European Central Bank (ECB) and the financial statements of the national central banks of the euro area member states (NCBs). The balance sheet items for foreign currency, securities, gold and financial instruments are valued at market rates at the end of the quarter. **1** For Eurosystem: financial statements for

specific weekly dates; for the Bundesbank: end-of-month financial statements. **2** According to the accounting regime chosen by the Eurosystem on the issue of euro banknotes, a share of 8% of the total value of the euro banknotes in circulation is allocated to the ECB on a monthly basis. The counterpart of this adjustment is disclosed as an "Intra-Eurosystem liability related to euro banknote issue". The

		Liabilities to nor residents denon foreign currency	ninated in								
Liabilities to non-euro area residents denominated in euro	Liabilities to euro area residents in foreign currency	Total	Deposits, balances and other liabilities	Liabilities arising from the credit facility under ERM II	Counterpart of special drawing rights allocated by the IMF	Other liabilities 3	Intra- Eurosystem liability related to euro banknote issue 2	Revaluation accounts	Capital and reserves urosystem ⁴	On reporting date/ End of month 1	
57.0	2.8	1 42	1 42	1		I 208 Г				2016 May	c
59.0 62.2 58.5	2.8 3.3 2.9	4.2 4.9 5.1 5.7	4.2 4.9 5.1 5.7	-	57.5 57.5 57.5 57.5	208.5 206.7 211.9 203.9		376.0 376.0 376.0 376.0	99.0 99.1 99.0 99.0	2010 May	13 20 27
56.1 58.2 59.7 56.6	3.2 3.3 2.9 3.1	6.3 6.0 5.0 4.5	6.3 6.0 5.0 4.5		57.5 57.5 57.5 57.5 57.5	203.5 202.9 203.8 203.3		376.0 376.0 376.0 376.0 376.0	99.0 99.0 99.0 100.8	June	3 10 17 24
70.9 79.2 72.8 79.0	3.0	5.2 5.5 6.2 6.4	5.2 5.5 6.2 6.4		58.5 58.5 58.5 58.5 58.5	206.3 206.0 205.8 205.0		420.9 420.9 420.9 420.9 420.9	100.8 100.8 100.8 100.8	July	1 8 15 22
83.0 83.8	3.1 3.2	7.4 7.9	7.4 7.9		58.5 58.5	203.3 204.8		420.9 420.9	100.8 100.8	Aug	29 5
76.1 77.4 81.2	3.1	7.8 7.8 8.1 8.6	7.8 7.8 8.1 8.6	-	58.5 58.5 58.5	204.8 202.7 203.4 203.4		420.9 420.9 420.9 420.9	100.8 100.8 100.8 100.8	Aug	12 19 26
85.6 72.6 84.0 93.4 122.8	3.2 3.1 3.0 2.9 2.8	8.6 8.2 8.7 8.8 8.8	8.6 8.2 8.7 8.8 8.8	- - - -	58.5 58.5 58.5 58.5 58.5 58.1	204.5 204.0 205.8 209.2 207.3		420.9 420.9 420.9 420.9 420.9 418.5	100.8 100.8 100.8 100.8 100.8 100.8	Sep	2 9 16 23 30
101.7 97.7 106.1 108.2	4.2 5.6 4.6 5.5	8.8 9.3 9.6 9.7	8.8 9.3 9.6 9.7		58.1 58.1 58.1 58.1 58.1	207.1 207.6 216.2 215.1		418.5 418.5 418.5 418.5 418.5	100.8 100.8 100.8 100.8 100.8	2016 Oct	7 14 21 28
103.8 101.5 109.9 117.4	4.0 3.8 4.4 2.8	12.5 10.6 10.0 10.5	12.5 10.6 10.0 10.5		58.1 58.1 58.1 58.1 58.1	216.3 217.4 216.4 215.2		418.5 418.5 418.5 418.5 418.5	100.8 100.8 100.8 100.8	Nov	4 11 18 25
113.2 112.0 127.3 145.7	3.8 6.2 7.1 7.0	10.9 12.2 12.2 10.4	10.9 12.2 12.2 10.4	- - -	58.1 58.1 58.1 58.1	214.7 215.4 215.6 219.0	-	418.5 418.5 418.5 418.5 418.5	100.8 99.5 99.5 99.5	Dec	2 9 16 23
205.7 167.4	3.6 5.7	9.3 10.7	9.3 10.7	-	59.3 59.3	221.4 221.3		394.4 394.4	99.5 99.8	2017 Jan	30 6
1				I	1			Deutsche I	' Bundesbank		
33.9	0.0	1.9 2.1	1.9 2.1		14.4	25.2 23.0	272.4	104.5 121.0	5.0 5.0	2015 Feb Mar	
12.9 7.2 9.2	0.0 0.0	2.1 2.2 1.3	2.1 2.2 1.3		15.5 15.5 15.2	23.1 23.2 23.5	276.9 279.3 280.2	121.0 121.0 121.0 113.1	5.0 5.0 5.0 5.0	Apr May June	
12.1 10.0 16.2		0.9 0.5 0.5	0.9 0.5 0.5		15.2 15.2 15.1	23.6 23.7 24.0	284.9 287.3 290.1	113.1 113.1 108.2	5.0 5.0 5.0	July Aug Sep	
12.4 13.9 27.2	0.0 0.0	0.8 0.4 0.6	0.8 0.4 0.6		15.1 15.1 15.3	24.1 24.2 24.4	1	108.2 108.2 105.7	5.0 5.0 5.0	Oct Nov Dec	
16.0 28.0 30.5 30.7	0.0 0.0	0.1 0.2 0.3 0.8	0.1 0.2 0.3 0.8		15.3 15.3 14.9 14.9	25.0 22.0 22.8 22.9	297.1 297.7 299.8 300.9	105.7 105.7 116.2 116.2	5.0 5.0 5.0 5.0	2016 Jan Feb Mar	
27.2 47.0 43.8	0.0 0.0	0.8 1.4 1.0 1.4	0.8 1.4 1.0 1.4		14.9 14.9 15.2 15.2	23.1 23.4 23.6	303.9	116.2 116.2 128.5 128.5	5.0 5.0 5.0 5.0	Apr May June July	
48.9 70.3 66.5	0.0 0.0 0.0	1.7 1.1 1.0	1.7 1.1 1.0		15.2 15.1 15.1	23.7 24.0 24.3	314.1 318.8 322.0	128.5 128.0 128.0	5.0 5.0 5.0	Aug Sep Oct	
74.7 117.0	0.0	1.0 1.2	1.0 1.2		15.1 15.4	24.4	323.9	128.0 119.7	5.0 5.0	Nov Dec	

remaining 92 % of the value of the euro banknote in circulation is also allocated to the NCBs on a monthly basis, and each NCB shows in its balance sheet the share of the euro banknotes issued which corresponds to its paid-up share in the ECB's capital. The difference between the value of the euro banknotes allocated to the NCB

according to the aforementioned accounting regime and the value of euro banknotes put into circulation is also disclosed as an "Intra-Eurosystem claim/ liability related to banknote issue". **3** For the Deutsche Bundesbank: including DM banknotes still in circulation. **4** Source: ECB.

1 Assets and liabilities of monetary financial institutions (excluding the Bundesbank) in Germany * Assets

€ billion

	€ billion													
			Lending to b	anks (MFIs) in	the euro area	а					Lending to n	on-banks (no	n-MFIs) in the	
					he home cou		to banks in c	thar may	mbor ct	ator			s in the home	country
				to banks in t	ne nome coul	itry	to barres in c	l ner mer	nber sta	ates			s in the nome	country
													Enterprises a holds	nd house-
						Secur-				Secur-			noius	
	Balance					ities				ities				
Period	sheet total 1	Cash in hand	Total	Total	Loans	issued by banks	Total	Loans		issued by banks	Total	Total	Total	Loans
renou		in nana	rotai	lotai	Louns	5) 54116	Total	Louis		by build	rotai			
												Ena	of year o	month
2007	7,592.4		2,523.4	1,847.9	1,290.4	557.5	675.4		421.6	253.8		3,061.8	2,556.0	2,288.8
2008 2009	7,892.7 7,436.1	17.8 17.2	2,681.8	1,990.2 1,813.2	1,404.3 1,218.4	585.8 594.8	691.6 667.3		452.9 449.5	238.8 217.8	3,638.2 3,638.3	3,163.0 3,187.9	2,686.9 2,692.9	2,357.3 2,357.5
2009		17.2	2,480.5							217.8				
2010	8,304.8 8,393.3	16.5	2,361.6 2,394.4	1,787.8 1,844.5	1,276.9 1,362.2	510.9 482.2	573.9 550.0		372.8 362.3	187.7	3,724.5 3,673.5	3,303.0 3,270.5	2,669.2 2,709.4	2,354.7 2,415.1
2012	8,226.6	19.2	2,309.0	1,813.2	1,363.8	449.4	495.9		322.2	173.7	3,688.6	3,289.4	2,695.5	2,435.7
2013 2014	7,528.9 7,802.3	18.7	2,145.0 2,022.8	1,654.8 1,530.5	1,239.1 1,147.2	415.7 383.3	490.2 492.3		324.6 333.9	165.6 158.4	3,594.3 3,654.5	3,202.1 3,239.4	2,616.3 2,661.2	2,354.0 2,384.8
2015	7,665.2	19.5	2,013.6	1,523.8	1,218.0	305.8	489.8		344.9	144.9	3,719.9	3,302.5	2,727.4	2,440.0
2015 Feb	8,061.5	15.5	2,015.0	1,578.2	1,195.7	382.4	518.2		362.5	155.7	3,698.4	3,275.9	2,680.8	2,397.4
Mar	8,173.0	15.4	2,030.5	1,608.3	1,224.8	383.5	515.2		360.7	154.5	3,708.5	3,283.5	2,690.5	2,400.0
Apr	8,084.0	16.1	2,105.0	1,587.5	1,209.5	378.0	517.5		364.5	153.1	3,715.9	3,292.4	2,691.1	2,397.8
May	8,004.0	16.4	2,097.4	1,584.0	1,209.8	374.2	513.4		361.4	151.9	3,706.2	3,279.2	2,693.9	2,407.4
June	7,799.5	15.3	2,040.3	1,561.8	1,197.9	363.9	478.5		329.7	148.8	3,695.7	3,271.8	2,691.9	2,413.0
July Aug	7,867.6	15.6	2,049.3 2,059.4	1,569.4 1,574.0	1,209.5 1,220.8	359.9 353.2	479.9 485.3		332.5 340.0	147.4 145.3	3,722.3 3,726.2	3,299.7 3,301.6	2,716.2 2,716.9	2,415.5 2,421.1
Sep	7,840.0	15.8	2,033.4	1,547.5	1,200.0	347.6	494.5		348.7	145.8	3,728.0	3,301.0	2,716.5	2,426.3
Oct	7,856.5	16.5	2,082.1	1,584.2	1,240.4	343.8	497.9		352.0	145.9	3,727.4	3,302.2	2,716.0	2,431.7
Nov	7,940.1	15.9	2,106.9	1,613.7	1,275.3	338.4	493.2		347.0	146.2	3,751.3	3,319.2	2,733.8	2,446.0
Dec	7,665.2	19.5	2,013.6	1,523.8	1,218.0	305.8	489.8		344.9	144.9	3,719.9	3,302.5	2,727.4	2,440.0
2016 Jan Feb	7,823.5 7,913.1	16.5	2,057.4 2,072.2	1,562.4 1,566.4	1,257.7 1,263.3	304.8 303.1	494.9 505.8		352.3 361.1	142.6 144.7	3,727.4 3,734.6	3,307.6 3,317.1	2,729.1 2,739.2	2,443.1 2,453.8
Mar	7,783.4	17.5	2,039.2	1,547.2	1,243.5	303.7	492.0		347.9	144.1	3,736.0	3,316.8	2,742.1	2,458.5
Apr	7,806.5	17.2	2,089.1	1,594.3	1,291.0	303.3	494.8		352.8	142.0	3,747.3	3,329.8	2,753.3	2,467.1
May	7,817.2	18.7	2,070.3	1,587.2	1,284.7	302.4	483.1		342.8	140.4	3,759.2	3,334.1	2,762.8	2,476.2
June	7,920.6	19.3	2,072.8	1,592.2	1,292.9	299.3	480.6		338.2	142.4	3,745.9	3,321.4	2,759.7	2,473.7
July Aug	7,942.1 7,908.5	19.7 19.7	2,086.0 2,086.1	1,604.7 1,611.7	1,308.1 1,317.0	296.6 294.7	481.2 474.4		341.4 336.0	139.8 138.5	3,758.8 3,758.4	3,333.6 3,335.4	2,766.6 2,774.3	2,479.7 2,486.3
Sep	7,863.9	21.0	2,074.5	1,636.4	1,343.9	292.5	438.2		300.7	137.5	3,766.0	3,343.0	2,785.6	2,497.3
Oct	7,868.7	22.8	2,079.5	1,641.2	1,349.4	291.8	438.3		301.6	136.7	3,773.0	3,349.9	2,793.6	2,502.5
Nov	7,911.4	22.9	2,155.2	1,712.6	1,421.7	291.0	442.6	I	306.3	136.2	3,785.7	3,361.6	2,810.0	2,518.4
													Ch	nanges ³
2008	313.3	- 0.1	183.6	164.3	127.5	36.9	19.3	1	33.7	- 14.4	140.4	102.6		65.5
2009	- 454.5	- 0.5	- 189.0	- 166.4	- 182.2	15.8	- 22.5	-	1.8	- 20.7	17.4	38.3	17.0	6.6
2010	- 136.3	- 0.7	- 111.6	- 15.6	58.5	- 74.1	- 95.9	-	80.9	- 15.1	96.4	126.0	- 13.7	0.7
2011 2012	54.1	- 0.1 2.9	32.6	58.7 - 28.4	91.7 3.0	- 33.0 - 31.4	- 26.0 - 53.5		12.1 39.7	- 13.9 - 13.8	- 51.8 27.5	- 35.3 27.7	38.7 17.0	56.7 28.8
2013	- 703.6	- 0.5	- 257.1	- 249.2	- 216.5	- 32.7	- 7.9		1.6	- 9.5	13.6	16.6	23.6	21.6
2014	206.8	0.4	- 126.2	- 128.6	- 95.3	- 33.4	2.4		7.2	- 4.8	55.1	40.0	52.3	36.8
2015	- 179.5	0.3	- 16.0	- 11.0	66.8	- 77.8	- 5.0		7.7	- 12.7	66.4	64.9	68.8	57.3
2015 Mar	86.5	0.1	23.5	28.4	27.5	0.9	- 4.9	-	3.5	- 1.3	6.1	4.4	6.9	1.0
Apr	- 63.9	0.6	- 14.1	- 18.8	- 13.9	- 4.9	4.7		5.7	- 1.0	11.3	11.9	3.2	- 0.2
May June	- 92.5 - 191.7	0.3	- 9.5 - 55.0	- 4.5 - 20.9	- 0.5 - 11.2	- 4.0 - 9.8	- 5.0 - 34.0	-	3.9 31.0	– 1.2 – 3.0	- 10.6	- 13.4 - 5.9	2.7	9.0 6.7
July	57.5	0.3	7.3	6.7	11.1	- 4.3	0.6		2.0	- 1.4	24.8	26.9	22.3	0.8
Aug	- 8.8	- 0.1	13.0	6.1	12.3	- 6.1	6.8		8.7	- 1.9	7.9	4.4	3.3	7.2
Sep	- 7.3	0.3	- 17.3	- 26.7	- 20.8	- 5.9	9.3		8.8	0.6	4.0	1.1	2.3	6.7
Oct	25.1	0.7	39.8	36.4	40.4	- 4.0	3.4		3.3	0.1	- 2.1	0.4	- 0.9	6.1
Nov Dec	59.7	- 0.6	21.2	27.7 - 87.4	33.7 - 56.1	- 6.0 - 31.3	- 6.5 - 1.3		6.8 0.6	0.3 - 0.8	20.0	14.7 - 13.7	15.6 - 3.6	12.6 - 4.5
2016 Jan	169.4	- 3.1	45.1	39.8	39.9	- 0.1	5.3		7.3	- 2.0	12.0	7.7	4.3	4.4
Feb	94.5	- 0.3	16.6	5.2	6.3	- 1.1	11.4		9.1	2.3	8.8	10.5	11.1	11.4
Mar	- 107.0	1.3	- 29.1	- 17.2	- 18.4	1.2	- 11.8	-	11.2	- 0.6	4.5	1.7	4.7	6.7
Apr	31.0	- 0.3	49.9	47.2	47.6	- 0.4	2.7		4.8	- 2.1	13.0	14.4	12.6	9.9
May June	35.3	1.5	8.5	20.2 5.6	21.4 8.2	- 1.2 - 2.6	- 11.7 - 1.9	-	10.1 4.2	– 1.6 2.3	- 10.4	5.3	10.5	9.9
July	23.5	0.4	13.1	12.4	15.2	- 2.8	0.7		3.4	- 2.7	14.5	13.4	8.2	7.3
Aug	- 31.4	- 0.0	0.4	7.1	9.0	- 1.9	- 6.7	-	5.3	- 1.4	0.2	2.1	8.0	6.8
Sep	- 42.7	1.3	- 11.3	24.9	26.9		- 36.3	-	35.2	- 1.1	8.3	8.3	11.7	11.4
Oct Nov	- 0.4 44.0	1.8 0.1	4.8	5.2 71.4	5.6 72.3		- 0.3 4.3		0.5 4.8	- 0.9 - 0.5	6.5 13.8	7.1	7.9 16.9	5.2 16.3
		- 0.1		. ,	2.5			-						

 \star This table serves to supplement the "Overall monetary survey" in section II. Unlike the other tables in section IV, this table includes – in addition to the figures reported

by banks (including building and loan associations) – data from money market funds. ${\bf 1}$ See footnote 1 in Table IV.2. ${\bf 2}$ Including debt securities arising from the

euro area								1					Claims on non-euro-are	ea		
	General				to non-bank	s in other Enterpris househo	ies ar		General governmen	t			residents			
Secur- ties	Total	Loans	Sec		Total	Total		<i>of which</i> Loans	Total	Loans		Secur- ities	Total	<i>of which</i> Loans	Other assets 1	Period
End of y	ear or mo	nth														
267.3 329.6 335.4	5 476.1	342	2.8	145.0 133.4 160.0	425.5 475.1 450.4	34	94.6 18.1 22.2	124.9 172.1 162.9	130.9 127.0 128.3	0	26.0 27.6 23.5	104.9 99.4 104.7	1,339.5 1,279.2 1,062.6	1,008.6		2007 2008 2009
314.5 294.3 259.8 262.3 276.4	3 561.1 3 594.0 3 585.8	359 350 339	9.8).3 9.2	215.3 201.2 243.7 246.6 250.4	421.6 403.1 399.2 392.3 415.0	27 27 26	89.2 76.9 75.1 57.6 70.0	164.2 161.2 158.1 144.6 142.7	132.4 126.2 124.0 124.0 145.0	2 1 5	24.8 32.6 30.4 27.8 31.9	107.6 93.6 93.7 96.9 113.2	1,021.0 995.1 970.3 921.2 1,050.1	770.9 745.0	1,181.1 1,313.8 1,239.4 849.7 1,055.8	2010 2011 2012 2013 2014
287.4 283.4	1 595.1	324 339	9.8	250.6 255.3	417.5 422.5	27	2.8 2.8	146.4 144.8	141. 149.	7	29.4 31.3	112.1 118.4	1,006.5 1,128.8		905.6 1,122.6	2015 2015
290.5 293.3 286.6	601.3 5 585.3	341	7.6	253.9 253.7 249.0	425.0 423.5 427.0	27	76.3 75.6 78.1	146.2 148.0 148.3	148. 147. 148.	3	30.5 30.9 29.9	118.2 117.0 119.0	1,129.2 1,145.0 1,143.6	890.4 887.2	1,101.9 1,040.4	
278.9 300.7 295.8	7 583.5 3 584.7	333	3.2).3	247.4 250.3 254.4	423.9 422.6 424.6	27	75.2 76.6 78.9	144.1 145.3 146.2	148. 146.0 145.		30.0 30.4 30.1	118.7 115.6 115.5	1,110.5 1,110.7 1,097.3	854.8 843.1	937.6 969.6 941.6	נ נ נ
290.4 284.3 287.8	3 586.1 3 585.4	333 329	3.2 9.5	254.2 252.9 255.9	426.9 425.2 432.0	27	79.2 78.4 85.5	146.0 146.7 148.6	147. 146. 146.	3	30.0 30.8 30.0	117.8 116.1 116.6	1,094.7 1,090.1 1,075.0		948.8 940.4 991.0	
287.4 286.1 285.4	1 578.4 4 578.0	328	3.4 3.0	250.6 250.1 249.9	417.5 419.8 417.4	27	'6.0 '5.5 '4.6	146.4 149.5 153.0	141. 144. 142.	3	29.4 29.2 29.5	112.1 115.2 113.4	1,006.5 1,026.3 1,031.4 992.1	765.1 767.7	905.6 996.1 1,058.7	2016
283.6 286.2 286.6	2 576.5 5 571.3	33	1.6 9.5	246.9 244.8 241.9	419.2 417.6 425.1	27	'3.3 '2.8 80.0	149.1 150.4 153.3	145.9 144.8 145.1	3	29.3 30.0 28.9	116.6 114.8 116.2	1,005.6 1,012.9	750.5	998.5 947.2 956.2	
286.0 286.8 288.0	3 567.0 561.0	32 324	7.0 1.9	237.9 240.0 236.1	424.4 425.2 423.1	28	31.2 34.2 33.3	155.2 159.3 159.7	143.: 141.(139.;		28.9 28.9 29.1	114.3 112.1 110.7	1,036.4 1,041.7 1,042.6	785.1 786.2	1,046.2 1,036.0 1,001.7	
288.3 291.0 291.6	556.4	320	5.3	234.5 230.0 229.7	422.9 423.0 424.1	28	32.2 34.6 35.9	157.8 162.1 161.9	140. 138. 138.	5	29.8 29.5 29.2	110.9 108.9 109.1	1,030.5 1,077.9 1,065.1	823.1	915.5	
Changes	5 ³															
65.4 10.5	4 – 28.4		5.9 - 5.1 -	- 11.5	37.8 - 20.9		2.3	40.4	- 4.		1.6 3.9	- 6.1	- 40.3 - 182.5		29.7	2008 2009
- 14.3 - 18.0 - 11.8 2.0 15.5	3 139.7 0 - 74.0 3 10.7 0 - 7.0 5 - 12.3	83 - 59 - 10 - 10 - 19	3.4 9.1 - 0.5 0.9 5.1	26.4 56.3 - 14.9 21.2 3.9 2.9	- 29.6 - 16.6 - 0.2 - 3.0 15.1	- 3	86.4 3.8 0.7 3.4 0.4	0.2 - 5.5 - 1.5 - 9.3 - 4.0	6.3 - 2.7 0.1 0.1 14.0	3 7 5 – 5 –	3.1 8.0 2.2 2.6 0.9	3.9 3.7 - 10.7 2.7 3.1 13.8	- 74.1 - 39.5 - 15.5 - 38.8 83.6	- 61.9 - 34.9 - 17.7 - 47.2 72.0	- 46.3 112.9 - 62.2 - 420.8 194.0	2010 2011 2012 2013 2014
11.5 5.8			4.2).9 -	0.3 - 1.5	1.4 1.6		5.1 2.8	2.4 0.3	– 3.1 – 1.1	1	0.9 0.7	- 2.7	- 80.1	- 93.5	- 150.1	2015 2015
3.4 - 6.3 - 7.5	4 8.7 3 – 16.1	- 1	3.7 1.4 -	0.0 - 4.6 - 1.5	- 0.6 2.7 - 1.8	_	0.0 1.8 1.8	2.8 0.3 - 3.7	- 0.0 1.0 0.0	5 –	0.5 1.0 0.3	- 1.1 1.9 - 0.3	32.6 - 11.1 - 25.1	34.1 – 12.2	- 94.4 - 61.5 - 102.8	/
21.5 - 3.9 - 4.4	5 4.6 9 1.1		1.8 3.0 1.0 -	2.8 4.1 – 0.2	- 2.1 3.6 2.9		0.6 3.9 1.8	0.8 1.5 0.1	- 2. - 0.1	7 _	0.4 0.2 0.4	- 3.0 - 0.1 1.5		- 3.9 - 1.2		
- 7.1 3.0 0.9	1 1.4 0 – 0.9	_	2.9 - 3.8	- 1.5 2.9 - 5.2	- 2.5 5.3 - 12.8	-	1.5 5.7 8.0	0.8 0.9 - 1.3	- 1.0 - 0.4 - 4.8		0.8 0.8 0.6	- 1.8 0.4 - 4.2	- 4.9	- 7.9 - 35.3	- 8.4 50.6 - 85.4) 1 1
- 0.1 - 0.3 - 1.9	1 3.4 3 – 0.7	(3.8 -).4 -	- 0.4 - 0.2 - 2.9	4.3 - 1.6 2.8	-	1.4 0.2 0.3	4.3 3.7 – 2.8	2.9 - 1.4 3.1	9 –	0.2 0.3 0.2	3.1 - 1.8 3.3	24.8 5.8	22.8 3.0	90.5 63.5	
2.7 0.6 – 0.5	7 1.8		3.9 - 2.3 -	- 2.1 - 2.9 - 4.0	- 1.4 6.1 1.0	-	0.3 5.7 2.0	1.7 1.4 2.4	- 1. 0.4 - 1.0	4 –	0.7 1.0 0.0	- 1.8 1.4 - 1.0	12.9 1.0	13.1 3.7	- 44.4 13.0	/ ז נ
0.8 1.2 0.3	3 5.3 2 – 5.9		3.1 2.0 -	2.2 - 3.9 - 1.6	1.0 - 1.9 0.0		3.2 0.6 0.8	4.4 0.6 – 1.7	- 2.1 - 1.1 0.8	2 –	0.0 0.2 0.6	- 2.1 - 1.5 0.1	6.6 2.4	11.8 2.4	- 11.1 - 34.3	
2.8	3 – 0.9		3.5 - 4.4 -		- 0.6 1.5		1.9 1.7	4.0 - 0.2	- 2.	5 -	0.3 0.4	- 2.2	42.8	44.1	- 56.4	(

exchange of equalisation claims. ${\bf 3}$ Statistical breaks have been eliminated from the flow figures (see also footnote * in Table II.1).

1 Assets and liabilities of monetary financial institutions (excluding the Bundesbank) in Germany * Liabilities

€ billion

	THOINING €												
		Deposits of b			Deposits of r	ion-banks (no	n-MFIs) in the	euro area					
		in the euro a	rea			Deposits of r	ion-banks in t	he home cour	ntrv			Deposits of I	on-banks
						Deposits of f			iti y				
			of banks					With agreed maturities		At agreed notice			
			or burnes					matantics		notice			
	Balance sheet		in the home	in other member			Over-		of which		<i>of which</i> up to		Over-
Period	total 1	Total	country	states	Total	Total	night	Total	up to 2 years	Total	3 months	Total	night
							<u> </u>				End	of year o	r month
											LIIU	or year o	monun
2007	7,592.4	1,778.6	1,479.0	299.6	2,633.6	2,518.3	769.6	1,193.3	477.9			75.1	
2008 2009	7,892.7 7,436.1	1,827.7 1,589.7	1,583.0 1,355.6	244.7 234.0	2,798.2 2,818.0	2,687.3 2,731.3	809.5 997.8	1,342.7 1,139.1	598.7 356.4	535.2 594.4	424.8 474.4	74.2 63.9	22.4
2010	8,304.8	1,495.8	1,240.1	255.7	2,925.8	2,817.6	1,089.1	1,110.3	304.6	618.2	512.5	68.4	19.3
2011	8,393.3	1,444.8	1,210.3	234.5	3,033.4	2,915.1	1,143.3	1,155.8	362.6	616.1	515.3	78.8	25.9
2012 2013	8,226.6 7,528.9	1,371.0 1,345.4	1,135.9 1,140.3	235.1 205.1	3,091.4 3,130.5	2,985.2 3,031.5	1,294.9 1,405.3	1,072.8 1,016.2	320.0 293.7	617.6 610.1	528.4 532.4	77.3 81.3	31.2 33.8
2014	7,802.3	1,324.0	1,112.3	211.7	3,197.7	3,107.4	1,514.3	985.4	298.1	607.7	531.3	79.7	34.4
2015	7,665.2	1,267.8	1,065.9	201.9	3,307.1	3,215.1	1,670.2	948.4	291.5	596.4	534.5	80.8	35.3
2015 Feb	8,061.5	1,368.7	1,134.4	234.3	3,220.8	3,126.5	1,543.4	977.0	294.6	606.1	530.0	83.3	38.9
Mar	8,173.0	1,382.3	1,134.8	247.5	3,218.1	3,120.2	1,542.4	973.8	295.3	603.9	529.1	84.8	40.8
Apr	8,084.0	1,367.5	1,118.0	249.5	3,226.8	3,129.0	1,565.9	961.6	292.7	601.5	528.8	86.9	42.4
May June	8,004.0 7,799.5	1,343.4 1,303.2	1,103.5 1,090.5	239.9 212.7	3,247.4 3,241.5	3,148.5 3,140.1	1,592.3 1,594.8	956.2 947.1	289.1 283.6	600.0 598.3	529.0 528.6	86.1 88.9	40.9 42.0
July	7,867.6	1,294.3	1,080.0	212.7	3,268.2	3,169.4	1,608.2	964.8	288.6	596.4	528.2	88.5	42.7
Aug	7,840.0	1,281.1	1,072.9	208.1	3,279.0	3,182.1	1,625.2	961.8	286.7	595.1	528.5	86.5	41.3
Sep	7,829.3	1,281.8	1,076.3	205.5	3,274.0	3,174.2	1,624.8	954.9	283.2	594.5	529.3	87.9	41.9
Oct Nov	7,856.5	1,295.4	1,096.9	198.5	3,283.6	3,187.7	1,650.4	942.7	278.9	594.6	530.6	85.1	39.5 39.5
Dec	7,940.1 7,665.2	1,312.0 1,267.8	1,108.5 1,065.9	203.5 201.9	3,307.5 3,307.1	3,215.4 3,215.1	1,672.6 1,670.2	948.6 948.4	287.1 291.5	594.2 596.4	531.5 534.5	82.8 80.8	
2016 Jan	7,823.5	1,266.8	1,066.5	200.3	3,322.6	3,225.5	1,686.6	942.9	286.9	596.0	535.4	85.3	41.5
Feb	7,913.1	1,264.9	1,062.1	202.8	3,324.6	3,227.5	1,694.0	937.1	283.2	596.3	537.0	86.0	42.5
Mar	7,783.4	1,252.3	1,058.8	193.5	3,319.6	3,221.8	1,682.6	944.7	290.4	594.4	536.2	86.8	
Apr May	7,806.5 7,817.2	1,258.6 1,230.3	1,060.8 1,027.5	197.8 202.8	3,332.8 3,348.6	3,240.8 3,253.7	1,704.9 1,717.2	943.2 945.3	291.0 292.6	592.7 591.1	535.6 535.0	82.4 84.9	38.4 41.7
June	7,920.6	1,241.7	1,039.1	202.6	3,350.9	3,250.2	1,718.1	942.1	290.9	590.0	534.5	89.4	
July	7,942.1	1,226.7	1,023.7	203.0	3,362.7	3,267.1	1,733.1	945.0	295.2	589.1	534.5	85.5	40.7
Aug	7,908.5	1,211.5	1,016.5	195.0	3,369.5	3,274.0	1,744.5	941.2	292.8	588.4	534.6	85.5	40.4
Sep	7,863.9	1,194.8	1,029.1	165.7	3,372.1	3,274.9	1,743.8	944.0 936.0	297.4	587.1 586.6	534.0	88.0 83.7	41.4
Oct Nov	7,868.7 7,911.4	1,186.8 1,195.4	1,025.4 1,032.7	161.3 162.7	3,378.8 3,431.2	3,286.5 3,331.7	1,763.9 1,795.8	936.0	288.5 292.8	586.1	534.3 534.4	89.8	
												C	hanges ⁴
2000	212.2		1 121 7	55.0	1 1 1 2 2	172.4	- 20 7	154.6	122 5	L 20.2	L 21.2	_	-
2008 2009	313.3	65.8 - 235.4	224.6	- 55.8 - 10.8	162.3 31.9	173.1 43.9	38.7 205.0	154.6 - 220.4	123.5 - 259.3	- 20.2 59.3	- 21.2 50.3	– 7.5 – 9.6	- 0.1
2010	- 136.3	- 75.2	- 99.4	24.2	72.3	59.7	88.7	- 53.0	- 52.2	24.0	38.3	- 4.4	2.2
2011	54.1	- 48.4	- 28.8	- 19.6	102.1	97.4	52.4	47.6	58.8	- 2.6	1.3	4.8	6.5
2012 2013	- 129.2	- 68.7 - 106.2	- 70.0	1.3 - 32.3	57.8 39.1	67.1 47.8	156.1 111.5	- 90.4 - 56.3	- 50.2 - 26.6	1.5 - 7.3	14.1	- 1.4 2.6	5.4
2014	206.8	- 28.4	- 32.2	3.9	62.7	71.6	106.0	- 32.1	3.1	- 2.4	- 2.4	- 2.5	- 0.0
2015	- 179.5	- 61.1	- 49.6	- 11.5	104.9	105.5	153.7	- 36.9	- 10.0	- 11.3	4.2	- 0.2	- 0.3
2015 Mar	86.5	10.9	- 1.2	12.0	- 4.6	- 8.0	- 1.9	- 4.0	0.2	- 2.2	- 0.9	1.2	1.8
Apr	- 63.9	- 11.7	- 15.3	3.7	9.7	10.2	24.5	- 11.9	- 2.3	- 2.4	- 0.2	1.7	1.0
May	- 92.5	- 25.5	- 15.3	- 10.2	19.8	18.8	25.9	- 5.6	- 3.8	- 1.5	0.2	- 0.9	- 1.7
June	- 191.7		- 12.4	- 26.7	- 5.2	- 7.8	2.9		- 5.3	- 1.7	- 0.4	2.9	1.2
July Aug	57.5	- 9.9 - 11.6	- 11.0	1.1 - 5.5	25.9	28.6 13.6	12.9 17.7	17.6 - 2.8	1.0 - 1.8	– 1.9 – 1.3	- 0.4 0.3	- 0.5 - 1.8	0.6
Sep	- 7.3	0.8	3.6	- 2.8	- 4.9	- 7.7	- 0.4	- 6.7	- 3.3	- 0.6	0.8	1.4	0.6
Oct	25.1	13.7	20.6	- 7.0	9.5	13.5	25.6	- 12.2	- 4.3	0.1	1.3	- 2.8	- 2.5
Nov Dec	59.7	– 14.4 – 42.5	10.3 - 41.5	4.1 - 1.0	22.2	26.3 0.9	21.0	5.6 0.1	8.0 4.5	- 0.3	0.9 3.0	- 2.6 - 1.8	- 0.2
										- 0.4			
2016 Jan Feb	169.4 94.5	- 0.4 - 0.5	1.0 - 3.3	- 1.4 2.7	16.0 4.3	10.8 4.2	16.5 7.4	- 5.3 - 3.5	- 4.5	0.4	0.9 1.6	4.6 0.7	6.3 1.0
Mar	- 107.0	- 10.1	- 1.9	- 8.3	- 3.2	- 4.6	- 10.1	7.4	7.0	- 1.9	- 0.8	1.1	- 2.3
Apr	31.0	6.3	2.0	4.3	13.1	18.9	22.2	- 1.5	0.6	- 1.8	- 0.7	- 4.5	- 1.6
May June	35.3 108.2	- 1.4 13.0	- 5.7	4.2 0.6	14.8	12.0 - 3.0	11.7	1.8 - 2.9	1.4 - 1.5	- 1.5	- 0.6 - 0.4	2.4 3.9	3.2
July	23.5	- 14.9	- 15.4	0.5	11.9	17.1	15.1	2.9	4.3	- 0.9	- 0.1	- 3.9	- 4.2
Aug	- 31.4	- 15.0	- 7.0	- 7.9	7.0	7.0	11.5	- 3.8	- 2.4	- 0.7	0.1	0.1	- 0.3
Sep	- 42.7	- 16.5	12.7	- 29.2	2.7	1.0	- 0.6	2.9	4.6	- 1.2	- 0.5	2.5	1.1
Oct Nov	- 0.4 44.0	- 8.4 8.7	- 3.7 7.3	- 4.7 1.4	6.2 52.4	11.2 45.2	19.8 31.9	- 8.1 13.7	- 8.9 4.3	- 0.6 - 0.4	0.2	- 4.3 6.0	- 4.4 6.2
NUV		0.7		1.4	JZ.4	4J.Z	. 51.9	1.5.7	- 4.5	. 0.4	. 0.1	0.0	. 0.2

 \star This table serves to supplement the "Overall monetary survey" in section II. Unlike the other tables in section IV, this table includes – in addition to the figures reported

by banks (including building and loan associations) – data from money market funds. ${\bf 1}$ See footnote 1 in Table IV.2. ${\bf 2}$ Excluding deposits of central

								Debt securiti	es				
in other me	mber states 2			Deposits of				issued 3					
With agreed maturities	I	At agreed notice	1	central gove	rnments of which	Liabilities arising from	Money		of which	Liabilities			
	<i>of which</i> up to		<i>of which</i> up to		domestic central govern-	repos with non-banks in the	market fund shares		with maturities of up to	to non- euro- area	Capital and	Other	
Total	2 years	Total	3 months	Total	ments	euro area	issued 3	Total	2 years 3	residents	reserves	Liabilities 1	Period
End of y	ear or mo	nth											
53.2 49.5 43.7	24.9	2.3 2.4 2.5	1.8	40.1 36.6 22.8	38.3 34.8 22.2	26.6 61.1 80.5	28.6 16.4 11.4	1,609.9	182.3 233.3 146.3	661.0 666.3 565.6	428.2 461.7 454.8	398.2 451.5 415.6	2007 2008 2009
46.4 49.6	18.4	2.8 3.3	2.5	39.8 39.5	38.7 37.9	86.7 97.1	9.8 6.2	1,345.7	82.3 75.7	636.0 561.5	452.6 468.1	1,290.2 1,436.6	2010 2011
42.3 44.0 42.0	16.9	3.8 3.5 3.3	2.7	28.9 17.6 10.6	25.9 16.0 10.5	80.4 6.7 3.4	7.3 4.1 3.5	1,233.1 1,115.2 1,077.6	56.9 39.0 39.6	611.4 479.5 535.3	487.3 503.0 535.4	1,344.7 944.5 1,125.6	2012 2013 2014
42.0	1	3.3	1	11.3	9.6	2.5	3.5	1,017.7	48.3	535.3	569.3	971.1	2014
41.0 40.5		3.4 3.4		11.0 13.1	8.9 9.2	8.0 7.6	3.5 3.5	1,104.3 1,108.0	44.7 46.2	610.1 624.5	557.4 565.4	1,188.7 1,263.6	2015 Feb Mar
41.1 41.9 43.5		3.4 3.4 3.4	2.7	10.9 12.8 12.5	9.4 9.5 10.9	11.4 5.0 3.3	3.3 3.4 3.5	1,098.8 1,087.3 1,076.1	47.6 42.9 41.2	647.9 645.6 605.9	563.4 567.6 564.7	1,164.9 1,104.3 1,001.3	Apr May June
42.4 41.8 42.6	14.9	3.4 3.4 3.4	2.8	10.3 10.4 12.0	8.9 9.7 10.5	4.5 6.6 7.0	3.5 3.5 4.1	1,077.7 1,061.0 1,060.5	39.0 36.3 43.6	627.0 634.9 606.7	565.1 573.2 577.1	1,027.2 1,000.8 1,018.1	July Aug Sep
42.2 40.0 42.2	14.3	3.4 3.4 3.3	2.8	10.8 9.3 11.3	8.7 7.8 9.6	6.6 6.1 2.5	4.1 3.9 3.5	1,069.9 1,075.9 1,017.7	48.1 50.6 48.3	609.1 599.6 526.2	578.5 574.7 569.3	1,009.4 1,060.4 971.1	Oct Nov Dec
40.4 40.1 43.5	14.9	3.3 3.3 3.3	2.7	11.8 11.2 11.0	8.4 8.5 8.3	2.8 4.2 3.2	3.8 3.7 3.5	1,021.1 1,020.2 1,014.7	49.5 51.2 49.0	583.5 595.3 557.1	566.5 579.5 576.3	1,056.5 1,120.8 1,056.7	2016 Jan Feb Mar
40.7 40.0	17.0 15.9	3.2 3.2	2.7	9.6 10.0	7.9 8.1	3.7 3.5	3.1 2.7	1,019.3 1,029.8	50.3 49.8	606.6 611.6	583.6 583.9	998.9 1,007.0	Apr May
41.3 41.6 42.0	16.2	3.2 3.2 3.2	2.7	11.3 10.1 10.0	8.8 8.1 7.9	2.5 3.4 3.2	2.7 2.5 2.4	1,023.9 1,021.8 1,020.1	50.0 56.6 52.7	618.1 656.1 663.4	587.3 578.1 581.9	1,093.4 1,090.9 1,056.4	June July Aug
43.4 43.6	17.9 16.6	3.1 3.1	2.7 2.6	9.2 8.5	8.1 7.6	2.9 3.2	2.5 2.4	1,011.1 1,019.6	51.9 50.7	655.7 710.2	596.9 594.9	1,028.0 972.9	Sep Oct
43.4 Changes		3.1	2.6	9.7	8.2	3.0	2.4	1,034.9	47.7	711.7	592.0	940.8	Nov
- 7.5 - 5.7	0.6	0.1	- 0.0	- 3.3 - 2.4		36.1 19.4	– 12.2 – 5.0		50.2 – 87.1	– 0.1 – 95.3	39.3 - 0.3	56.1 - 65.0	2008 2009
- 6.8 - 2.2 - 7.2	1.7	0.3 0.5 0.5	0.3	17.0 - 0.1 - 7.9	16.5 - 0.7 - 9.2	6.2 10.0 – 19.6	- 1.6 - 3.7 1.2	- 106.7 - 76.9 - 107.0	- 63.2 - 6.6 - 18.6	54.4 - 80.5 54.2	- 7.1 13.7 21.0	- 78.6 137.8 - 68.5	2010 2011 2012
- 7.2 - 0.5 - 2.3	2.2	- 0.3	- 0.1	- 11.3	- 9.2 - 10.0 - 4.8	- 19.0 4.1 - 3.4	- 3.2	- 107.0	- 17.6	- 134.1 35.9	18.9	- 417.1 178.3	2012 2013 2014
- 0.0 - 0.5		0.0		- 0.4	- 1.9	- 0.9 - 0.4	- 0.0 - 0.0	- 80.5 - 6.5	9.3 1.2	- 26.6 6.4	28.0 5.4	- 143.3 75.3	2015 2015 Mar
0.7	1.1	0.0	0.0	- 2.2	0.2	- 0.4 3.8 - 6.4	- 0.2 0.1	0.4	1.7	31.8	0.6	- 98.3 - 59.4	Apr May
1.6	1.8	0.0	0.0	- 0.3		- 1.6	0.1	- 7.2	- 1.6	- 36.0	- 1.8	- 100.8 26.6	June July
- 0.5	- 2.0	- 0.0 - 0.0	0.0	0.1	0.8	2.0 0.5	0.1	- 10.3 - 0.2	- 2.6	13.0 - 27.9	9.7 4.0	- 23.6 19.9	Aug Sep
- 0.3 - 2.4 2.3	- 1.2	- 0.0 - 0.0 - 0.0	- 0.0	- 1.1 - 1.5 2.0	- 1.8 - 0.9 1.8	- 0.4 - 0.5 - 3.6	0.0 - 0.1 - 0.5	10.8 - 4.0 - 50.1	5.9 2.3 – 2.1	2.3 - 16.8 - 67.8	0.0 - 6.7 - 2.8	- 10.7 51.2 - 86.4	Oct Nov Dec
– 1.7 – 0.3	- 1.0	- 0.0 - 0.0	- 0.0	0.5 - 0.6	- 1.3	0.3 1.4	0.3		1.3	59.2 11.6	- 2.2	90.4 95.7	2016 Jan Feb
3.5 - 2.8	- 1.6	- 0.0	- 0.0 - 0.0	0.3	- 0.5	- 0.9	- 0.2 - 0.4		- 1.8	- 30.7	- 0.2	- 66.4 - 48.8	Mar Apr May
- 0.8	0.8		- 0.0	0.4	0.7	- 0.2 - 1.0 0.9	- 0.4 0.0	- 5.0	- 0.7 0.3 6.6	0.9 8.4 38.6	4.3 3.9 - 8.9	12.4 86.7 - 2.7	May June
0.3 0.4 1.5	0.8	- 0.0	- 0.0	- 1.3 - 0.1 - 0.8	- 0.2	- 0.2 - 0.3	- 0.2 - 0.1 0.0	- 1.1	- 3.8 - 0.8	7.9	- 8.9 6.6 12.0	- 2.7 - 36.6 - 25.5	July Aug Sep
0.1 - 0.2				- 0.7 1.2	- 0.5 0.6	0.3 - 0.2	- 0.1 0.1		– 1.3 – 0.6	52.6 1.5		- 53.4 - 30.9	Oct Nov

governments. ${\bf 3}$ In Germany, debt securities with maturities of up to one year are classed as money market paper; up to the January 2002 Monthly Report they were published together with money market fund shares. ${\bf 4}$ Statistical breaks have been eliminated from the flow figures (see also footnote * in Table II.1).

2 Principal assets and liabilities of banks (MFIs) in Germany, by category of banks*

	€ billion												
				Lending to b	oanks (MFIs)		Lending to r	on-banks (no	n-MFls)				
					of which			of which					
			Cash in					Loans					
			Cash in hand and										
	Number of		credit balances					for					
End of	reporting institu-	Balance sheet	with central	Total	Balances and	Securities issued by	Total	up to and including	for more than	Dille	Securities issued by	Partici- pating	Other
month	tions All cated	total 1 ories of b	banks anks	Total	loans	banks	Total	1 year	1 year	Bills	non-banks	interests	assets 1
2016 June	1,764			2,447.8	1,929.9	512.6	4,010.8	355.9	2,876.6	0.6	769.7	119.4	1,142.4
July	1,754	7,985.3	264.9	2,438.2	1,928.9	505.3	4,030.4	366.6	2,887.9	0.5	769.5	119.7	1,132.0
Aug Sep	1,749 1,734	7,951.8 7,907.1	273.2 279.9	2,429.6 2,414.9	1,923.8 1,903.3	502.0 507.9	4,031.3 4,025.2	360.2 360.3	2,900.7 2,903.4	0.5	763.4	120.0 119.4	1,097.7 1,067.8
Oct	1,720	7,911.9	293.3	2,449.5	1,940.5	505.5	4,039.1	370.5	2,912.3	0.5	749.9	118.8	1,011.2
Nov	1,711	7,955.0 cial banks		2,471.8	1,966.7	502.3	4,058.3	369.9	2,929.3	0.5	751.9	118.5	979.8
2016 Oct	262			1,030.4	943.3	86.9	1,195.7	194.6	759.7	0.3	238.0	56.3	741.1
Nov	263						1,203.6						
2016 Oct	Big bar		61.1	F70.0	L F41.0		F02 1	108.4	L 220 2	1	114.0	40.7	702.0
2016 Oct Nov	4						503.1 505.9	108.4 110.5					
	Region	al banks a	and other	commerc	ial banks								
2016 Oct Nov	156 156		56.5 65.9	230.7 240.5			617.6 620.9	63.8 63.8				5.7 5.2	30.3 31.0
	Branch	es of fore	ign banks										
2016 Oct Nov	102 103	367.1 382.9		220.8 231.6			75.0 76.8		41.0 41.6		11.2		6.9 7.0
NOV	Landesba		00.0	251.0	227.1	4.4	70.8	25.0	41.0	-	1 11.5	0.91	7.0
2016 Oct	9	924.5											
Nov	9		23.4	268.4	202.3	65.6	503.8	52.1	363.5	0.1	86.9	10.8	111.0
2016 Oct	Savings k		26.1	186.4	66.0	120.2	920.0	49.4	717.6	0.0	152.7	14.5	15.5
Nov	408												
	Credit co	operative	s										
2016 Oct	986 976						626.3 628.6						
Nov	Mortgag		15.0	171.0	c.ro	106.61	028.0	51.0	495.0	0.0	1 101.7	1 15.91	10.2
2016 Oct	15		1.1	50.2	35.4	14.5	220.8	5.4	176.2	-	39.1	0.2	9.4
Nov	15	279.6	0.7	49.4			220.1	4.9					
2016 Oct	5		associatio		40.1	16.0	152.4	1.2	1 1 2 9 1		1 22.0	0.21	4.41
Nov	20 20		1.4 0.7								22.9 23.4		4.4 4.5
						ntral support		Main (DZ Bar	ık)				
2016 Oct Nov	20 20		47.5 44.7	685.7 686.4		90.6 91.7	422.8 427.0			0.0			
			ign banks										
2016 Oct Nov	137 138	1,064.4	97.1	401.9			464.4 469.3						96.6 98.1
INUV			majority-				409.3	00.4	200.7	J 0.2		4.4	90.1 I
2016 Oct	35	697.4	33.6	181.1	142.5	38.5							
Nov	35	714.2	42.9	184.3	146.0	38.2	392.5	44.8	245.1	0.2	99.8	3.5	91.1

* Assets and liabilities of monetary financial institutions (MFIs) in Germany. The assets and liabilities of foreign branches, of money market funds (which are also classified as MFIs) and of the Bundesbank are not included. For the definitions of the respective items, see the footnotes to Table IV.3. **1** Owing to the Act Modernising Accounting Law (Gesetz zur Modernisierung des Bilanzrechts) of 25 May 2009, derivative financial instruments in the trading portfolio (trading portfolio derivatives) within the meaning of section 340e (3) sentence 1 of the German Commercial Code (Handelsgesetzbuch) read in conjunction with section 35 (1) No 1a of the Credit Institution Accounting Regulation (Verordnung über die Rechnungslegung der Kreditinstitute) are classified under "Other assets and liabilities" as of the December 2010 reporting date. Trading portfolio derivatives are listed separately in the Statistical Supplement to the Monthly Report 1, Banking statistics, in Tables I.1 to I.3. **2** For building and

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IV Banks

	Deposits of	banks (MFIs)		Deposits of	non-banks (r	ion-MFIs)							Capital		
Γ		of which			of which								including published reserves,		
						Time deposi	ts 2		Savings dep	osits 4			partici- pation		
	Fatal	Sight	Time	Tatal	Sight	for up to and including	for more than	<i>Memo</i> <i>item</i> Liabilities arising from	Tatal	<i>of which</i> At three months'	Bank savings	Bearer debt securities out-	rights capital, funds for general banking	Other liabi-	End of
Ľ	lotal	deposits	deposits	Total	deposits	1 year	1 year 2	repos 3	Total	notice	bonds		risks tegories	lities 1	month
ī	1,717.7	550.2	1,167.4	3,495.4	1,855.4	285.8	694.0	48.7	598.6	541.8	61.7	1,125.6	-	1,139.9	2016 June
	1,729.0 1,717.1 1,708.3	548.3 535.9 498.1	1,180.6 1,181.1 1,210.1	3,519.6 3,530.4 3,517.0	1,866.2 1,875.8 1,872.6	299.0 302.4 294.3	695.6 694.7 694.2	60.7 65.0 52.7	597.6 596.8 595.4	541.7 541.7 541.1	61.3 60.7 60.4	1,113.0 1,116.8 1,119.9	486.6 484.9 487.8	1,137.1 1,102.6 1,074.1	July Aug Sep
	1,717.7 1,734.8	535.7 562.6	1,182.0 1,172.1	3,561.0	1,914.2 1,938.6	294.8 305.6	697.2 696.9	70.9 74.0	594.8 594.3	541.3 541.3	60.0 59.7	1,126.4	487.8 488.1	1,019.0	Oct Nov
	.,		,	-,	.,								mmercia		
	798.1 812.0	366.3 387.1	431.8 424.8	1,381.8 1,405.5			243.4 244.2			94.4 94.1					2016 Oct Nov
													Big k	oanks ⁷	
	424.5 420.7	180.6 183.2	243.9 237.4				85.6 85.6								2016 Oct Nov
									Regi	onal ban	ks and of	ther com	mercial b	anks	
	174.3 176.4	54.7 58.7	119.5 117.7			47.2 48.6		0.0	38.1 38.3			32.4 33.4		47.1 56.2	2016 Oct Nov
											Brai	nches of	foreign b	anks	
	199.4 214.9	131.0 145.2	68.4 69.7			22.4 22.7			0.5 0.5	0.2	1.3 1.3				2016 Oct Nov
													Lande	sbanken	
	259.0 258.2	63.0 61.5	196.0 196.8												2016 Oct Nov
													Savin	gs banks	
	131.7 130.2	9.3 7.8	122.5 122.3						293.0 292.7	263.5 263.7	25.7 25.3				2016 Oct Nov
												Cr	edit coop	peratives	
	105.3 105.6	2.6 2.6	102.7 103.0	627.5 634.6	385.9 393.5	32.1 31.9	16.2 15.9		185.9 185.9	172.4 172.7	7.4				2016 Oct Nov
													Mortgag	ge banks	
	50.4 50.2		44.9 43.4	117.5 115.5		9.5 8.6	99.4 98.2		0.1			93.5 93.5	9.8 9.9		2016 Oct Nov
												ding and	loan asso	ociations	
	21.5 21.5	4.0 4.5	17.5 17.0			1.0 1.1			0.3 0.3	0.3 0.3		2.6 2.0		14.6 17.2	2016 Oct Nov
							Ban	ks with s	pecial, de	evelopme	ent and o	ther cent From July	tral supper 2016 includ	ort tasks ling DZ Bank	
	351.7 357.1						61.8 61.3	4.5 3.5	-			646.1 652.0		105.8 102.4	2016 Oct Nov
		_		_	_							no item:			
	362.3 383.9										8.5 8.6	21.7 22.5	50.7 50.7	98.1 100.1	2016 Oct Nov
_									-	: Banks					
	162.9 169.0		101.3 97.6							20.5 20.4	7.2 7.3	21.3 22.1	42.7 42.7	90.3 92.4	2016 Oct Nov

Nov. 2009), Commerzbank AG, UniCredit Bank AG (formerly Bayerische Hypo- und Vereinsbank AG) and Deutsche Postbank AG. **8** Sum of the banks majority-owned by foreign banks and included in other categories of banks and the category "Branches (with dependent legal status) of foreign banks". **9** Separate presentation of the banks majority-owned by foreign banks included in other banking categories.

loan associations: Including deposits under savings and loan contracts (see Table IV.12). **3** Included in time deposits. **4** Excluding deposits under savings and loan contracts (see also footnote 2). **5** Including subordinated negotiable bearer debt securities; excluding non-negotiable bearer debt securities: **6** Commercial banks comprise the sub-groups "Big banks", "Regional banks and other commercial banks" and "Branches of foreign banks". **7** Deutsche Bank AG, Dresdner Bank AG (up to

3 Assets and liabilities of banks (MFIs) in Germany vis-à-vis residents *

€ billion Lending to domestic banks (MFIs) Lending to domestic non-banks (non-MFIs) Treasury Cash in Negotiable bills and hand Credit negotiable money (euro-area balances market Memo money mar-Securities banknotes with the Credit Securities ket paper paper item issued and Bundesbalances issued by issued by Fiduciary issued by by non-Period coins) bank Tota and loans Bills banks banks loans Total Loans Bills non-banks banks 1 End of year or month * 2006 49.4 1,637.8 1,086.3 3,000.7 2,630.3 16.0 9.3 542.2 1.9 1.9 366.5 1,751.8 1,861.7 1,222.5 1,298.1 0.0 25.3 55.7 2.3 2.0 2007 17.5 64.6 504.0 2.975.7 2.647.9 1.6 1.5 324.7 507.8 17.4 102.6 3,071.1 2,698.9 367.9 2008 0.0 1.2 3.1 16.9 2.2 0.8 4.0 2009 78.9 1,711.5 1,138.0 31.6 541.9 3,100.1 2,691.8 403.5 2010 16.0 79.6 1,686.3 1,195.4 7.5 483.5 1.8 3,220.9 2,770.4 0.8 27.9 421.8 3,197.8 2011 15.8 93.8 1,725.6 1,267.9 7.1 450.7 2,774.6 0.8 6.4 415.9 2.1 2.4 2.2 2012 18.5 134.3 1,655.0 1.229.1 2.4 423.5 3.220.4 2.785.5 0.6 432.1 1.7 2013 18.5 85.6 1,545.6 1,153.1 0.0 390.8 2.2 3,131.6 2,692.6 0.5 1.2 437.2 0.7 2014 18.9 81.3 1,425.9 1,065.6 0.0 2.1 358.2 1.7 3,167.3 2,712.2 0.4 454.0 0.0 1.7 0.4 2015 19.2 155.0 1,346.6 1,062.6 282.2 1.7 3,233.9 2,764.0 0.4 469.0 15.1 0.0 3.3 3,200.4 0.3 2015 June 115.4 1,424.2 1,082.1 338.8 1.6 2,745.2 2.4 452.5 1,429.7 1,091.8 2,748.4 July 15.4 116.6 0.0 2.7 335.2 1.6 3,228.7 0.3 2.4 477.6 Aug 15.2 133.6 1.418.0 1.086.8 0.0 2.1 329.1 1.6 3.230.9 2.751.1 0.3 1.9 477.5 Sep 15.6 139.8 1.384.6 1.059.7 0.0 2.3 322.7 1.6 3.230.8 2.756.1 0.3 1.7 472.8 16.2 1.421.3 1,100.0 0.0 2.1 319.1 3.232.0 2.764.6 0.3 465.6 Oct 140.0 1.6 1.5 15.7 152.2 1,438.4 1,122.6 0.0 2.6 313.2 1.6 3,249.0 2,775.2 0.3 1.0 472.5 Nov Dec 19.2 155.0 1,346.6 1,062.6 0.0 1.7 282.2 1.7 3,233.9 2,764.0 0.4 0.4 469.0 2016 Jan 16.2 170.9 1,368.7 1,086.0 0.0 2.0 280.8 1.6 3,238.7 2,771.0 0.4 0.7 466.5 Feb 15.9 164.3 1,379.8 1,098.3 0.0 1.8 279.7 1.6 3,248.0 2,781.4 0.4 1.5 464.7 17.2 1.2 Mar 166.6 1.358.5 1.076.3 0.0 2.0 280.2 1.6 3.247.2 2.785.9 0.3 459.7 16.9 179.8 1.392.1 1.110.3 0.0 2.1 279.7 1.6 3.260.6 2.798.3 0.4 1.3 460.6 Apr May 18.4 1,367.7 1,086.7 0.0 1.8 1.5 3,264.8 2,805.3 0.3 1.4 197.2 279.2 457.8 19.1 213.5 1.356.7 1,078.8 0.0 1.6 276.2 1.7 3,252.1 2,797.2 0.3 1.8 452.9 June 19.4 233.0 1,349.1 1,074.3 0.0 1.3 273.4 1.7 3,264.5 2,806.4 0.3 1.7 456.1 July Aug 19.4 240.9 1.348.1 1.075.2 0.0 1.2 271.7 1.7 3,265,9 2.810.9 0.3 1.3 453.5 20.7 1,368.1 1,097.3 1.2 1.7 246.0 3,274.2 2,819.9 452.4 Sep 0.0 269.5 0.3 1.6 258.7 1.360.3 1.090.2 268.7 3.281.0 2.828.6 Oct 22.6 0.0 1.4 1.7 0.2 1.6 450.6 0.0 1.1 1.7 0.2 1.3 Nov 22.6 291.7 1.397.6 1,128.8 267.6 3,293,1 2,840.0 451.6 Changes ¹ 2007 1.5 15.2 114.8 137.6 0.0 17.0 39.8 0.4 15.9 0.3 0.5 27.2 + + 12.1 + 2008 _ 0.1 + 39.4 125.9 90.1 0.0 30.6 + 5.2 34.3 _ 0.8 0.2 + 92.0 + 47.3 _ 0.4 1.8 43.3 35.9 + + -± _ + + + 0.4 _ 157.3 0.5 _ 23.6 147.2 0.0 24.1 25.7 11.2 1.4 2009 _ _ + + _ + + 2010 0.9 0.6 19.3 61.5 24.0 56.8 _ 0.3 130.5 78.7 0.0 23.8 28.0 _ ± 0.0 _ + + + + + 2011 _ 0.2 14.2 47.3 80.5 0.4 _ 32.8 _ 0.1 30.6 3.2 0.0 21.5 5.9 + + + + 2012 + 2.7 40.5 68.6 37.5 4.6 _ 26.5 + 0.1 21.0 9.8 0.2 4.3 15.7 + + 2013 + 0.0 _ 48.8 _ 204.1 _ 170.6 0.0 0.7 _ 32.7 _ 0.2 4.4 0.3 _ 0.1 _ 0.6 4.8 _ + + ++ + 36.7 _ 119.3 87.1 + + _ 20.6 16.8 2014 + 0.4 _ 4.3 _ 0.0 0.4 32.6 0.1 + + 0.1 _ 0.6 2015 0.3 73.7 80.7 0.0 0.4 75.9 0.1 68.9 _ 0.0 0.3 15.1 + + 4.3 _ + 54.1 + _ _ _ _ _ + _ 2015 June 20.4 42.1 32.1 0.0 0.2 9.8 0.1 7.5 0.0 0.7 10.1 1.1 + _ + + _ _ _ + 1.9 _ 0.3 0.6 0.0 28.3 25.1 + 5.5 9.7 0.0 3.6 3.1 0.0 0.0 July 1.2 + + _ _ _ + + + + + _ + + Aug 0.1 17.0 12.4 5.6 0.0 0.7 6.1 0.0 2.3 2.9 0.0 0.5 0.1 + + + + 0.3 6.3 33.3 27.1 0.2 _ 6.4 _ 0.0 0.1 4.9 0.0 _ 0.3 _ 4.7 Sep + + + 0.2 0.5 Oct 0.7 0.1 36.6 40.3 0.0 3 5 0.0 8 5 0.0 0.1 7.2 + 1.2 + Nov 0.6 + 12.3 17.3 22.7 + _ 5.9 + 0.0 16.7 + 10.3 _ 0.0 _ 0.5 + 6.9 + + + 91.8 0.9 2.8 59.9 _ 31.0 0.1 15.1 + 0.6 3.5 Dec + 3.6 + _ + 11.1 0.1 _ _ _ _ 0.0 15.9 22.2 23.4 0.3 1.5 4.5 6.7 0.0 0.3 2.4 2016 Jan _ 3.1 _ _ _ _ + + + + + + _ 11.9 + 0.2 _ 9.6 -1.7 Feb 0.3 6.5 + 13.1 1.0 0.0 + + 10.6 0.1 + 0.8 _ + 1.3 2.3 21.3 22.1 0.2 + 0.5 + 0.0 0.8 4.5 _ 0.0 0.3 _ 5.0 Mar + 0.3 132 33.6 34.0 0 1 06 0 1 13 3 12 3 0.0 01 0.8 Apr _ _ _ + May + 1.5 17.4 3.9 4.8 0.4 _ 0.5 _ 0.0 5.7 + 8.4 _ 0.1 0.1 _ 2.7 + + + + 16.4 7.8 0.7 10.9 0.1 _ 3.0 0.2 11.9 7.3 _ 0.0 0.4 5.0 June + + + + 0.4 4.5 0.3 0.1 0.0 0.0 3.2 July + 19.4 7.6 2.8 _ 13.3 10.2 _ + _ + + + 0.0 0.9 + Aug 7.9 1.0 0.1 1.8 + 0.0 1.5 4.6 0.0 0.4 2.6 Sep + 1.3 + 5.1 + 20.0 + 22.1 _ + 0.0 _ 2.1 _ 0.0 + 8.2 + 9.1 _ 0.0 + 0.3 _ 1.1 Oct 1.8 127 73 6.6 0 1 _ 0.8 _ 0.0 7.0 86 _ 0.0 0.0 1.7 + + 4 37.3 Nov + 0.1 + 33.0 + 38.7 0.3 1.1 + 0.0 12.1 11.4 0.0 0.3 1.0

* See Table IV.2, footnote*; statistical breaks have been eliminated from the changes. The figures for the latest date are always to be regarded as provisional. Subsequent revisions which appear in the following Monthly Report, are not specially marked. **1** Excluding debt securities arising from the exchange of equalisation claims (see also footnote 2). 2 Including debt securities arising from the exchange of equalisation claims. 3 Including liabilities arising from registered debt securities; registered money market paper and non-negotiable bearer debt securities; including subordinated liabilities. 4 Including liabilities arising from monetary policy operations

			Deposits of	domestic ba	nks (MFIs) 3			Deposits of	domestic no	n-banks (nor	n-MFIs)			1
		Partici- pating						1000			,			1
		interests												
	Memo	in domestic					Memo						Memo	
Equalisa-	item	banks		Sight	Time	Redis-	item		Sight	Time	Savings	Bank	item	
tion claims 2	Fiduciary loans	and enterprises	Total	deposits 4	deposits 4	counted bills 5	Fiduciary loans	Total	de- posits	deposits 6	de- posits 7	savings bonds 8	Fiduciary Ioans	Period
End of y	/ear or m	onth *												1
-	53.0	106.3	1,348.2	125.4	1,222.7	0.0	22.3	2,394.6	747.7	962.8	586.5	97.5	37.8	2006
-	51.1	109.4	1,478.6	122.1	1,356.5	0.0	20.0	2,579.1	779.9	1,125.4	555.4	118.4	36.4	2007
	47.2	111.2	1,582.5 1,355.1	138.5 128.9	1,444.0 1,226.2	0.0	41.6	2,781.4 2,829.7	834.6 1,029.5	1,276.1 1,102.6	535.2 594.5	135.4 103.2	32.3 43.4	2008 2009
-	33.7	96.8	1,238.3	135.3	1,102.6	0.0	13.8	2,823.7	1,104.4	· ·	618.2	95.4	37.5	2009
_	36.3	90.8	1,230.5	114.8	1,095.3	0.0	36.1	3,045.5	1,168.3	1,117.1	616.1	104.8	36.5	2010
-	34.8	90.0	1,135.5	132.9	1,002.6	0.0	36.3	3,090.2	1,306.5	1,072.5	617.6	93.6	34.9	2012
_	31.6	92.3 94.3	1,140.3	125.6 127.8	1,014.7 984.0	0.0	33.2	3,048.7 3,118.2	1,409.9 1,517.8	952.0 926.7	610.1 607.8	76.6	32.9 30.9	2013 2014
	20.3	89.6	1,065.6	131.1	934.5	0.0	6.1	3,224.7	1,673.7	898.4	596.5	56.1	29.3	2014
		92.5	1,065.6	161.7	934.5	0.0	11.1	3,224.7	1,600.1	898.4	598.3	60.4	29.3	2015 2015 Jun
	25.0	92.4	1,079.0	152.5	926.5	0.0	10.8	3,179.3	1,612.9	910.4	596.4	59.5	29.5	July
-	25.0	92.4	1,079.0	149.0	926.5	0.0	10.8	3,179.3	1,612.9	910.4	596.4	59.5	29.5	Aug
-	24.9	92.0	1,076.0	153.1	922.9	0.0	10.8	3,186.8	1,630.7	903.5	594.6	58.1	29.5	Sep
	24.7	91.9	1,096.4	150.5	945.8	0.0	10.6	3,197.7	1,655.5	890.2	594.6	57.5	29.5	Oct
-	24.5	92.0 89.6	1,108.0 1,065.6	158.2	949.7 934.5	0.0	10.5	3,224.8 3,224.7	1,676.9 1,673.7	896.7 898.4	594.3 596.5	56.8 56.1	29.5 29.3	Nov Dec
	1													2016 Jan
	20.3	90.0 89.8	1,066.1 1,061.7	145.0 151.8	921.1 909.9	0.0	6.0 5.9	3,233.8 3,236.2	1,689.6 1,697.4	893.3 887.8	596.1 596.4	54.8 54.6	29.3 29.3	Feb
	19.9	90.3	1,058.6	147.9	910.7	0.0	5.9	3,231.2	1,687.4	894.9	594.5	54.4	29.1	Ma
	19.8	89.8	1,060.2	149.7	910.4	0.0	5.9	3,249.8	1,709.6	893.5	592.7	54.0	29.0	Apr
	19.7	89.9	1,026.8	142.0	884.7	0.0	5.8	3,262.7	1,721.8	896.1	591.2	53.7	29.0	Ma
	19.6	89.9	1,038.6	152.5	886.0	0.0	6.0	3,259.9	1,722.6	894.1	590.0	53.1	28.7	June
_	19.5	90.1 90.3	1,022.8 1,015.7	140.0 137.3	882.7 878.3	0.0	5.9 5.9	3,275.7 3,282.1	1,737.1 1,748.5	896.8 893.1	589.1 588.4	52.7 52.2	28.6 28.7	July Aug
-	19.4	89.8	1,013.7	137.5	896.6	0.0	5.8	3,283.7	1,748.1	896.6	587.2	51.8	28.6	Sep
_	19.1	89.7	1,025.1	137.1	887.9	0.0	5.7	3,294.7	1,768.0	888.8	586.6	51.3	28.6	Oct
-	19.1	89.3		145.9	884.9	0.0	5.6					50.9	28.6	Nov
Change	s *													
-	- 2.3	+ 3.1	+ 132.0	- 3.3	+ 135.3	- 0.0	- 2.3	+ 181.1	+ 31.6	+ 160.5	- 31.1	+ 20.1	- 2.0	2007
_	- 5.4	+ 7.8	+ 124.3	+ 23.0	+ 101.3	- 0.0	- 3.6	+ 207.6		+ 156.6	- 20.2	+ 17.0		2008
1	- 4.2	+ 0.7	- 225.4	- 9.7	- 215.7			+ 59.7	+ 211.4	- 179.3	+ 59.3	- 31.6	- 0.9	2009
	- 2.1	- 9.2	- 96.5 - 25.0	+ 22.3 - 20.0	- 119.1	- 0.0	- 0.2	+ 77.8	+ 76.0 + 63.7	- 18.9 + 40.9	+ 24.0	- 3.3	- 1.7	2010 2011
	- 1.3	- 4.1	- 70.8	+ 21.5	- 91.9	- 0.0	+ 0.2	+ 42.2	+ 138.7	- 86.7	+ 1.5	- 11.2	- 1.6	2012
	- 3.3	+ 2.4	- 79.4	- 24.1	- 55.3	+ 0.0	- 3.4	+ 40.2	+ 118.4	- 53.9	- 7.4	- 17.0	- 1.7	2013
-	- 1.9	+ 2.0	- 29.0	+ 2.2	- 31.2	- 0.0	- 0.6	+ 69.7	+ 107.9	- 25.3	- 2.4	- 10.6	- 2.0	2014
-	- 2.1	- 4.3	- 46.6	+ 3.3	- 50.0	+ 0.0	- 1.3	+ 106.5	+ 156.2	- 28.3	- 11.3	- 10.1	- 1.6	2015
-	- 0.3	- 0.3	- 12.9	- 2.8	- 10.1	- 0.0	- 0.1	- 7.1	+ 2.7	- 7.5	- 1.7	- 0.6	- 0.5	2015 Jun
	- 0.3	- 0.2	- 11.1	- 9.2 - 3.4	- 1.9 - 3.7	+ 0.0 - 0.0	- 0.2 + 0.0	+ 27.5 + 14.5		+ 17.7	- 1.9	- 1.1	- 0.1 + 0.0	July Aug
-	- 0.1	- 0.3	+ 3.7	+ 4.1	- 0.4	+ 0.0	+ 0.0	- 7.0		– 1.3 – 5.6	- 1.3		- 0.1	Sep
-	- 0.2	- 0.1	+ 20.3	- 2.6	+ 22.9	+ 0.0	- 0.2	+ 10.9		- 13.3	+ 0.1	- 0.6	- 0.0	Oct
-	- 0.2	+ 0.1	+ 11.6	+ 7.7	+ 3.9	+ 0.0	- 0.1	+ 27.0	+ 21.5	+ 6.5	- 0.3	- 0.6	- 0.0	Nov
-	- 0.1	- 2.0	- 42.4	- 27.1	- 15.2	-	- 0.1	- 0.0		+ 1.7	+ 2.2	- 0.7	- 0.2	Dec
		+ 0.4	+ 0.5	+ 13.9	- 13.4	- 0.0	- 0.1	+ 9.1		- 5.8	- 0.4	- 0.6	+ 0.0	2016 Jan
	- 0.1	- 0.2 + 0.5	- 3.1 - 3.2	+ 7.0 - 4.0	- 10.1 + 0.8	+ 0.0 - 0.0	- 0.0	+ 4.8		- 3.1 + 7.0	+ 0.3	- 0.2	- 0.0	Feb Ma
		- 0.3	+ 1.6	+ 1.9	- 0.3	- 0.0	+ 0.0	+ 18.6		- 1.3	- 1.8	- 0.5	- 0.1	Apr
		+ 0.1	- 5.1	- 2.9	- 2.2	+ 0.0	- 0.0	+ 12.9	+ 12.2	+ 2.5	- 1.5	- 0.3	- 0.0	Ma
-	- 0.1	+ 0.0	+ 12.8	+ 10.8	+ 2.0	-	+ 0.2	- 2.5	+ 0.9	- 1.7	- 1.1	- 0.5	- 0.3	Jun
		- 0.0	- 15.8	- 12.5	- 3.3	-	- 0.1	+ 15.8		+ 2.7	- 0.9	- 0.5	- 0.0	July
	- 0.1	+ 0.2 - 0.5	- 7.1 + 13.0	– 2.7 – 5.3	- 4.4	_	- 0.0	+ 6.4 + 1.6		- 3.8 + 3.6	- 0.7	- 0.5	+ 0.0 - 0.0	Aug Sep
	I				- 4.7								- 0.0	
_		+ 0.1 - 0.4	- 3.2 + 5.8	+ 1.5 + 8.8		+ 0.0 - 0.0	- 0.1	+ 11.0 + 34.2		- 7.9 + 2.7	- 0.6			Oct Nov
-	- 0.0	- 0.4			- 5.0	- 0.0	- 0.0		52.5			- 0.4	-	

with the Bundesbank. **5** Own acceptances and promissory notes outstanding. **6** Since the inclusion of building and loan associations in January 1999, including deposits under savings and loan contracts (see Table IV.12). **7** Excluding deposits under

savings and loan contracts (see also footnote 8). ${\bf 8}$ Including liabilities arising from non-negotiable bearer debt securities.

€ billion

4 Assets and liabilities of banks (MFIs) in Germany vis-à-vis non-residents '

Lending to foreign banks (MFIs) Lending to foreign non-banks (non-MFIs) Treasury Cash in bills and hand Credit balances and loans, bills Negotiable Loans and bills negotiable (nonmonev monev Medium market Medium market euro-area Memo banknotes and paper Securities item and paper Securities and Shortlongissued by issued by Fiduciary Shortlongissued by issued by Total Total Total Total Period coins) term term banks banks loans term term non-banks non-banks End of year or month 2006 1,266.9 1,003.2 258.7 0.8 777.0 421.0 156.0 264.9 0.4 744.5 13.3 250.4 7.2 1,433.5 1,105.9 13.4 314.2 492.9 295.4 2007 0.3 803.6 302.4 0.5 908.3 197.5 27.5 1,131.6 2008 0.3 1,446.6 767.2 364.3 15.6 299.5 1.9 908.4 528.9 151.4 377.5 12.9 342.6 29 2009 03 1 277 4 986 1 643 5 6.2 285.0 815 7 469 6 1169 3527 98 2010 05 607 7 285 1 21 259 3 773 8 348.8 1 154 1 892 7 18 461 4 112 6 10 1 2011 0.6 1,117.6 304.8 4.6 241.9 744.4 455.8 353.8 871.0 566.3 2.6 102.0 8.5 2012 0.8 1,046.0 813.5 545.5 268.1 5.4 227.0 2.6 729.0 442.2 105.1 337.1 9.0 2013 0.2 1 019 7 782 4 546 6 235.8 7.2 230 1 25 701 0 404 9 100.3 304 6 82 7.9 0.2 232.5 1.1 735.1 415.2 320.8 2014 884.8 618.7 266.1 94.4 6.5 1,125.2 0.3 2015 1,066.9 830.7 555.9 274.7 1.2 235.0 1.0 751.5 83.8 340.5 7.5 319.7 424.3 2015 June 0.3 1,142.5 903.1 617.1 286.0 8.1 231.3 1.1 765.7 435.1 104.4 330.7 7.5 323.1 0.3 1,149.0 911.5 625.0 286.5 6.6 230.9 1.1 760.0 433.4 103.3 330.1 5.0 July 0.3 1,140.9 904.7 619.3 285.3 6.1 230.2 761.5 435.8 106.9 328.8 5.8 Aug 1.1 0.3 1,152.8 914.7 627.4 287.4 4.4 233.7 1.1 760.7 434.9 106.6 328.3 6.0 Sep Oct 0.3 1,138.7 900.4 617.1 283.4 2.9 235.3 1.1 772.2 446 5 116.4 330.1 6.1 Nov 0.3 1.112.9 873.2 598.4 274.8 2.8 237.0 1.1 784.8 450.0 103.7 346.4 6.9 7.5 0.3 1,066.9 830.7 555.9 274.7 1.2 235.0 1.0 751.5 424.3 83.8 340.5 Dec 2016 Jan 0.3 1,080.5 844.9 570.2 274.8 1.9 233.6 1.0 766.7 440.2 101.3 338.8 8.9 274.3 0.3 1.0 Feb 1,095.3 854.5 580.2 3.1 237.8 765.9 445.3 102.6 342.7 10.2 Mar 0.3 1.057.4 816.6 551.7 264 9 3.0 2378 1.0 7544 427 1 87 9 339.2 91 03 1 064 5 264 5 33 237 1 10 762 5 440.0 340.0 Apr 824 2 5597 99 9 94 3.5 0.3 1.0 1,063.5 825.4 554.4 271.0 234.6 766.3 439.7 94.3 345.4 8.9 May 0.3 1,091.2 851.1 580.7 270.4 3.6 236.4 1.0 758.7 435.5 89.4 346.1 6.4 June July 0.3 1,089.1 854.6 586.5 268.0 2.7 231.9 1.0 766.0 448.5 100.1 348.4 4.1 2.5 2.5 Aug 0.3 1.081.5 848.6 577 9 270.7 230.4 1.0 765.4 450.3 99.9 350.4 5.1 Sep 0.3 1,046.8 806.0 535.5 270.5 238.4 1.0 751.0 444.0 93.6 350.4 4.7 0.3 279.0 Oct 1.089.3 850.4 571.3 2.1 236.8 1.0 758.1 454.5 102.9 351.6 4.2 1.7 0.3 1,074.2 837.9 541.7 296.2 234.7 1.0 765.2 459.4 103.6 355.9 5.5 Nov Changes ¹ 2007 0.0 190.3 123.7 72.9 50.8 7.5 59.1 0.4 167.7 94.3 50.1 44.2 20.1 + + + + + + + + 2008 0.0 8.5 20.2 43.0 63.2 2.1 13.7 _ 0.0 4.3 45.1 31.9 77.0 14.5 + _ + + 170.0 _ _ _ 2009 _ 0.0 _ _ 141.3 _ 122.5 _ 18.8 _ 10.3 18.4 0.2 _ 72.8 _ 43.8 31.7 _ 12.1 _ 3.3 0.1 2010 141.5 47.3 68.9 4.8 20.4 0.2 62.0 24.5 12.6 _ 0.4 + _ _ 116.2 _ _ _ _ _ _ _ _ 11.9 + _ 2.5 _ 0.1 48.4 _ 45.3 + + _ 18.4 + 0.0 _ 38.9 _ _ 0.9 2011 _ 32.6 _ 13.6 12.8 + 12.7 1.6 2012 + 0.1 _ 70.1 _ 56.8 _ 23.1 33.7 + 0.9 _ 14.1 _ 0.1 _ 9.4 _ 7.5 + 8.3 -15.9 + 0.6 2013 _ 0.5 _ 22.7 _ 26.9 _ 1.3 _ 25.6 1.8 + 2.4 _ 0.0 _ 21.2 _ 33.1 _ 5.8 _ 27.2 _ 0.7 + + 63.2 2014 _ 0.0 + 86.1 + 80.1 + + 16.8 + 0.7 + 5.3 - 0.6 + 5.7 _ 10.2 _ 12.8 + 2.7 _ 1.8 + 0.1 6.7 9.2 2015 91.8 86.0 82.2 3.8 0.8 0.1 6.1 6.5 2.7 + _ _ _ _ + _ _ _ _ + 1.1 + 2015 June 0.0 40.1 44.0 4.0 0.9 0.3 0.0 18.3 20.7 0.5 41.3 + 21.2 1.2 + + _ + 0.0 4.9 0.5 4.4 Julv + + 1.3 + 3.3 + 1.6 _ 1.5 _ 9.1 17 2.7 25 _ Aug 0.5 0.5 2.0 0.8 0.0 0.6 1.6 0.3 1.9 _ 0.0 6.6 + 6.4 + 4.4 + + + Sep + 0.0 14.0 12.2 + 10.0 2.2 _ 1.7 + 3.6 _ 0.0 2.1 _ 2.2 1.9 _ 0.3 0.1 _ + + + _ + Oct 0.0 20.2 _ 20.2 13 9 6.3 _ 1.5 15 0.0 77 8.5 91 _ 0.6 0 1 _ + _ _ + + + + + + _ Nov + 0.0 _ 38.2 39.4 _ 25.9 _ 13.5 _ 0.1 + 1.4 + 0.0 + 4.9 2.7 5.5 + 2.8 + 0.7 + Dec 0.0 33.4 _ 37.5 1.7 27.1 20.7 1.9 _ 36.7 + 4.1 1.6 _ 0.1 18.9 0.8 + _ 2016 Jan 0.0 16.1 15.6 0.7 0.0 18.2 18.2 1.3 16.8 + 1.2 + 1.4 + + + 18.6 0.4 _ + + 0.0 14.9 + + 10.3 _ 0.7 + + 4.2 + 0.0 0.2 + + 3.7 -Feb + 9.6 5.8 2.1 + Mar _ 0.0 _ 26.3 _ 26.5 _ 22.8 _ 3.7 _ 0.1 + 0.3 + 0.0 _ 3.8 _ 12.2 _ 13.6 + 1.3 0.9 + 0.0 0.3 Apr _ + 6.6 + 7.0 + 7.6 _ 0.5 + _ 0.8 + 0.0 + 7.5 + 12.7 + 11.9 + 0.7 + 0.1 _ 0.2 1.9 May + 0.0 5.7 3.3 7.9 + 4.6 + _ 2.6 + 0.0 + 0.8 2.7 4.6 0.4 + + _ 0.0 26.9 0.3 0.1 2.0 0.0 2.8 4.3 2.8 + June + + 28.8 + 26.7 + + + 5.5 + 1.4 0.0 0.0 8.0 2.7 July 1.0 + 4.4 + 6.2 1.9 1.0 _ 4.5 + + 13.6 10.9 2.3 _ 0.2 3.2 2.2 5.3 Aug + 0.0 6.7 5.0 81 + 3.0 _ 0.2 _ 1.5 + 0.0 0.1 23 + 10 _ 44.3 _ 42.2 _ 42.1 0.1 0.0 _ 2.1 _ _ 0.8 + Sep _ 0.0 _ _ + 0.0 _ 6.1 + _ 0.4 _ 0.0 40.6 6.5 0.3 Oct _ 38.4 34.1 1.8 0.0 5.4 9.0 9.1 0.1 0.5 + + + + _ _ _ + + _ 0.0 0.5 0.9 + + + 25.6 22.6 35.0 12.3 2.5 + 0.0 0.4 0.5 0.1 + 1.2 Nov +

348.9

387.9

366.6

336.3

302.3

280.1

277.8

287.8

313.5

321.6

319.9

319.8

319.6

327.9

319.7

317.6

310.3

318 2

313 1

317.7

316.8

313.4

310.0

302.3

299.3

300.3

53.3

26.3

25.7

38.0

23.6

2.5

12.6

17.7

2.0

1.7

2.2

0.7

0.0

09

6.8

7.2

1.3

7.1

9.3

5.3

3.9

0.1

3.3

3.3

2.5

3.1

0.1

* See Table IV.2, footnote*; statistical breaks have been eliminated from the changes The figures for the latest date are always to be regarded as provisional. Subsequent revisions, which appear in the following Monthly Report, are not specially marked.

		Deposits of	foreign bank	s (MFIs)				Deposits of	foreian non-	banks (non-I	viFis)			
	Partici- pating interests				its (including	bank				Time depos	its (including osits and bar	nk		
<i>Memo item</i> Fiduciary Ioans	in foreign banks and enter- prises	Total	Sight deposits	Total	Short- term	Medium and long- term	<i>Memo item</i> Fiduciary Ioans	Total	Sight deposits	Total	Short- term	Medium and long- term	<i>Memo item</i> Fiduciary Ioans	Period
End of y	year or mo	onth *												
5.8 5.7 25.5 32.1	48.3 45.1	689.7 738.9 703.3 652.6	168.1 164.7 218.1 213.6	521.6 574.1 485.1 439.0	397.3 461.2 362.3 307.4	124.3 113.0 122.9 131.6	0.4 0.2 0.3 0.2	310.1 303.1 286.1 216.3	82.1 76.0 92.2 78.1	228.0 227.1 193.9 138.2	111.5 122.3 95.1 73.7	116.5 104.8 98.8 64.5	1.5 3.1 2.5 1.9	2006 2007 2008 2009
15.6 32.9 32.6 30.8 14.0	45.0 46.4 39.0	741.7 655.7 691.1 515.7 609.2	258.7 242.6 289.4 222.6 277.1	483.0 413.1 401.7 293.2 332.1	349.3 289.4 284.6 196.0 242.7	133.6 123.7 117.0 97.2 89.4	0.1 0.1 0.1 0.1 0.1	227.6 225.9 237.6 257.8 221.0	84.8 92.3 107.2 118.1 113.0	142.7 133.6 130.3 139.7 107.9	76.7 66.9 69.1 76.8 47.8	66.0 66.6 61.2 62.9 60.1	1.5 1.3 1.2 1.0 0.7	2010 2011 2012 2013 2014
13.1		611.9	323.4	288.5	203.8	84.7	0.1	201.1	102.6	98.5	49.3	49.2	0.7	2015
13.6	1	671.4 690.6	331.2 342.8	340.2 347.7	256.3 266.7	83.9 81.0	0.1	240.5 244.4	127.7 131.9	112.8	61.6 62.0	51.2 50.5	0.9 0.9	2015 June July
13.7 13.7	35.2 35.2	681.5 672.0	334.5 346.4	347.0 325.5	264.5 244.3	82.5 81.2	0.1 0.1	253.6 234.5	135.3 128.3	118.3 106.3	65.9 53.2	52.4 53.1	0.9 0.9	Aug Sep
13.5 13.6 13.1	34.8	656.9 649.0 611.9	362.9 373.8 323.4	294.0 275.2 288.5	212.7 190.5 203.8	81.3 84.6 84.7	0.1 0.1 0.1	243.4 243.2 201.1	134.6 136.3 102.6	108.8 106.9 98.5	56.6 55.7 49.3	52.3 51.2 49.2	0.8 0.8 0.7	Oct Nov Dec
13.2 13.2 13.3	29.0	637.8 644.4 623.4	352.2 357.8 349.6	285.7 286.6 273.8	201.3 201.8 192.0	84.3 84.8 81.8	0.1 0.1 0.0	237.7 246.4 218.8	129.1 137.2 119.8	108.6 109.2 99.0	60.5 61.8 52.9	48.2 47.5 46.1	0.8 0.8 0.8	2016 Jan Feb Mar
13.3 13.3 13.1	28.9	658.0 664.6 679.1	344.2 389.5 397.7	313.8 275.1 281.4	234.1 195.6 203.4	79.6 79.5 77.9	0.0 0.0 0.0	233.6 239.7 235.5	126.9 130.6 132.8	106.7 109.0 102.7	62.0 64.2 57.2	44.8 44.8 45.5	0.8 0.7 0.7	Apr May June
13.1 13.1 13.1	29.4	706.1 701.3 679.5	408.3 398.5 366.0	297.8 302.8 313.5	217.9 220.1 231.3	80.0 82.7 82.2	0.0 0.0 0.0	244.0 248.3 233.3	129.1 127.3 124.6	114.9 121.0 108.7	68.2 74.9 62.0	46.6 46.1 46.7	0.7 0.7 0.7	July Aug Sep
13.2	28.8	692.7	398.6	294.1	211.9	82.2 84.0	0.0	266.3 266.2	146.2	120.1	72.0 79.1	48.1	0.7	Oct Nov
Change	s *													
- 0.1 + 0.7 - 3.2	/ – 3.1	+ 67.3 - 50.1 - 81.4	+ 1.5 + 52.2 - 2.1	+ 65.8 - 102.3 - 79.3	+ 74.0 - 120.7 - 57.5	- 8.3 + 18.5 - 21.7	- 0.1 + 0.1 - 0.2	+ 4.6 - 12.4 - 33.5	- 5.5 + 16.1 - 13.3	+ 10.2 - 28.5 - 20.1	+ 16.6 - 19.4 - 17.0	- 6.4 - 9.1 - 3.1	+ 1.6 - 0.6 - 0.6	2007 2008 2009
+ 0.2 - 0.1 - 0.3 - 1.8 + 0.1	- 3.9 + 1.5 - 7.2	+ 895.4 - 88.8 + 38.2 - 174.0 + 76.3	+ 42.0 - 13.8 + 51.7 - 75.6 + 47.8	+ 542.4 - 75.0 - 13.5 - 98.4 + 28.5	+ 38.1 - 61.8 - 7.5 - 83.1 + 39.0	+ 136.8 - 13.1 - 6.0 - 15.4 - 10.5	- 0.1 - 0.0 - 0.0 - 0.0 - 0.0	- 1.6 - 9.3 + 12.6 + 13.5 - 43.6	+ 6.0 + 6.4 + 15.2 + 9.6 - 8.3	- 7.6 - 15.7 - 2.6 + 3.9 - 35.3	- 3.3 - 10.4 + 2.5 + 6.9 - 30.7	- 4.4 - 5.3 - 5.1 - 3.0 - 4.6	- 0.4 - 0.2 - 0.1 - 0.2 + 0.2	2010 2011 2012 2013 2014
- 0.6	6 – 6.1	- 15.4	+ 40.6	- 56.0	- 48.6	- 7.4	- 0.0	- 26.5	- 13.9	- 12.6	+ 0.3	- 13.0	- 0.0	2015
- 0.2		- 39.2	- 25.0	- 14.1	- 12.8	- 1.3	- 0.0	- 23.9	- 14.5	- 9.3	- 8.9	- 0.5	+ 0.0	2015 June
+ 0.0 + 0.0 + 0.1	+ 0.0	+ 16.0 - 4.6 - 9.5	+ 10.6 - 6.7 + 12.0	+ 5.4 + 2.1 - 21.5	+ 8.7 + 0.0 - 20.1	- 3.3 + 2.0 - 1.4	- 0.0 - 0.0	+ 3.0 + 10.5 - 18.9	+ 3.8 + 4.0 - 7.0	- 0.8 + 6.5 - 11.9	+ 0.1 + 4.3 - 12.6	- 0.9 + 2.2 + 0.7	+ 0.0 - 0.0 + 0.0	July Aug Sep
- 0.2 + 0.1 - 0.2	- 0.5	- 18.2 - 14.3 - 32.0	+ 15.2 + 8.4 - 48.3	- 33.4 - 22.7 + 16.4	- 33.1 - 25.2 + 15.5	- 0.3 + 2.5 + 0.8	- 0.0 - - 0.0	+ 7.9 - 2.3 - 40.4	+ 5.8 + 0.6 - 32.6	+ 2.0 - 2.9 - 7.9	+ 3.1 - 1.3 - 6.0	- 1.1 - 1.6 - 1.9	- 0.2 + 0.1 - 0.1	Oct Nov Dec
+ 0.1 + 0.0 + 0.0	0 - 0.4	+ 27.6 + 6.2 - 14.0	+ 29.5 + 5.1 - 5.4	- 1.9 + 1.1 - 8.6	- 1.6 + 0.8 - 6.7	- 0.2 + 0.3 - 2.0	0.0	+ 36.9 + 8.9 - 25.6	+ 26.4 + 8.3 - 16.5	+ 10.6 + 0.6 - 9.1	+ 11.2 + 1.3 - 7.9	- 0.6 - 0.7 - 1.2	+ 0.1 - 0.0 + 0.0	2016 Jan Feb Mar
+ 0.0 + 0.0 - 0.2	+ 0.0	+ 34.2 + 2.8 + 16.8	- 5.7 + 44.1 + 9.4	+ 39.9 - 41.3 + 7.4	+ 40.6 - 40.6 + 7.8	- 0.7 - 0.7 - 0.4	+ 0.0 - 0.0	+ 14.7 + 5.0 - 4.5	+ 7.1 + 3.3 + 2.2	+ 7.6 + 1.7 - 6.8	+ 9.1 + 1.9 - 7.3	- 1.4 - 0.2 + 0.5	- 0.0 - 0.1 + 0.0	Apr May June
+ 0.0 + 0.0 + 0.0	+ 0.0	+ 27.8 - 4.3 - 21.2	+ 11.0 - 9.5 - 32.3	+ 16.8 + 5.2 + 11.1	+ 14.7 + 2.4 + 11.6	+ 2.1 + 2.8 - 0.5	- 0.0 - 0.0	+ 8.5 + 4.5 – 14.8	- 3.8 - 1.7 - 2.7	+ 12.3 + 6.2 - 12.1	+ 11.5 + 6.7 - 12.7	+ 0.8 - 0.5 + 0.7	- 0.0 - 0.1 - 0.0	July Aug Sep
+ 0.1 + 0.0	- 0.6	+ 11.1	+ 31.7	- 20.5	- 20.1	- 0.4	- 0.0	+ 32.5	+ 21.4	+ 11.2	+ 9.8	+ 1.3	+ 0.1	Oct

5 Lending by banks (MFIs) in Germany to domestic non-banks (non-MFIs) *

€ billion Short-term lending Medium and long-term Lending to domestic non-banks, total to enterprises and households to general government to enterincluding excluding Negotinegotiable money able market paper, Loans monev and bills Period . securities market Treasury equalisation claims Total Total Total paper Loans bills Total Total End of year or month ' 2006 3.000.7 2.632.2 303.1 269.8 269.3 31.9 2.697.6 0.6 33.3 1.4 2.181.8 28.2 2007 2,975.7 2,649.5 331.2 301.8 301.5 0.3 29.4 1.2 2,644.6 2,168.3 2008 3,071.1 2,700.1 373.0 337.5 335.3 2.2 35.5 34.5 1.0 2,698.1 2,257.8 2009 3,100.1 2,692.6 347.3 306.3 306.2 0.1 41.0 37.1 3.9 2,752.8 2,299.7 2010 3.220.9 2.771.3 428.0 283.0 282.8 0.2 145 0 117.2 277 2 793 0 2.305.6 2011 3.197.8 2.775.4 383.3 316.5 316.1 0.4 66.8 60.7 6.0 2.814.5 2.321.9 3,220.4 2,786.1 376.1 316.8 0.5 57.6 2,844.3 2,310.9 2012 316.3 59.3 1.7 3,131.6 2,693.2 269.1 217.0 0.6 50.8 2,862.6 2013 217.7 51.4 0.6 2,328.6 2014 3,167.3 2,712.6 257.5 212.7 212.1 0.6 44.8 44.7 0.1 2,909.8 2,376.8 2015 3,233.9 2,764.4 255.5 207.8 207.6 0.2 47.8 47.5 0.2 2,978.3 2,451.4 2015 June 3,200.4 2,745.5 279.2 223.8 222.5 1.3 55.4 54.3 1.1 2,921.2 2,397.0 July 3,228.7 2,748.7 273.0 215.4 214.0 1.3 57.6 56.5 1.1 2,955.7 2,430.2 Aug 3 2 3 0 9 2 751 4 2694 214 0 212 9 1 1 55 5 54 6 09 2 961 4 2 432 5 3,230.8 2,756.4 218.5 52.5 2,428.4 271.8 217.6 0.9 53.3 2,959.0 0.8 Sep 3,232.0 2,764.9 268.0 212.4 211.7 0.7 54.8 0.8 2,433.8 Oct 55.6 2,964.0 3,249.0 2,775.5 264.2 212.9 212.3 51.3 50.9 0.4 2,984.8 2,451.1 0.6 Nov 3,233.9 2,764.4 255.5 207.8 207.6 0.2 47.8 47.5 0.2 2,978.3 2,451.4 Dec 2016 Jan 3,238.7 2,771.4 259.0 208.1 207.7 0.4 50.9 50.5 0.3 2,979.7 2,452.5 Feb 3.248.0 2.781.8 266.3 214 3 213.6 07 52.0 51.2 0.8 2.981.7 2.456.1 Mar 3,247.2 2,786.3 271.4 218.7 217.9 0.8 52.6 52.2 0.4 2,975.9 2,454.1 3.260.6 2.798.7 273.9 217.9 217.2 0.8 55.5 0.5 2.986.6 2,466.5 Apr 56.0 3,264.8 2,805.6 276.1 221.2 2,472.7 May 220.4 0.8 55.0 54.4 0.6 2,988.7 2,472.8 3,252.1 2,797.5 268.8 217.8 216.8 1.1 51.0 50.3 0.7 2,983.3 June 2,995.6 3,264.5 2,806.6 268.8 213.8 212.9 1.0 55.0 54.2 0.7 2,483.9 July 3.265.9 2.811.2 262.2 208.1 207 5 0.6 54.1 53.4 0.7 3,003.8 2 497 1 Aug 54.5 2,502.7 Sep 3.274.2 2.820.2 268.7 214.2 213.7 0.5 53.4 1.1 3,005.4 Oct 3.281.0 2,828.8 269.7 212.6 212.0 0.6 57.1 56.1 1.0 3,011.3 2.512.3 2.840.2 268.0 51.0 0.8 3.025.0 2.525.5 Nov 3.293.1 216.3 215.8 0.5 51.7 Changes * 2007 15.9 27.6 31.7 3.9 0.3 43.5 11.8 31.5 0.2 3.7 7.1 2008 + 92.0 + 46.9 + 43.1 + 36.8 34.9 + 1.8 + 6.3 + 6.3 0.0 + 48.9 83.4 2009 25.7 11.6 26.1 31.5 30.0 1.5 5.5 2.5 2.9 51.8 36.6 + 2010 130.5 + 78.7 80.4 23.4 23.5 0.1 103.8 80.1 23.7 50.1 14.9 + + + + + + 2011 _ 30.6 _ 3.2 _ 45.2 + 33.6 + 33.3 0.2 _ 78.7 _ 57.0 _ 21.7 14.6 9.4 + + 10.9 2012 + 21.0 + _ 9.7 1.7 30.7 9.6 1.6 _ + 0.1 _ 8.2 _ 3.8 _ 4.3 + + 0.5 2013 4.4 0.1 5.8 8.0 7.0 18.2 17.6 13.8 6.3 + + 1.1 + + 2014 36.7 + 20.5 _ _ 4.5 _ 4.5 0.0 _ 7.1 _ 6.5 _ 0.6 48.3 52.5 11.6 2015 68.9 + + 1.3 0.9 0.4 2.9 2.8 0.1 67.2 73.9 + 54.1 1.6 _ + + + + + 2015 June 7.5 1.9 6.8 8.0 7.8 0.2 1.2 1.6 0.4 14.3 10.1 + + + + + + 28.3 8.4 0.0 2.2 0.0 31.9 July + + 3.1 6.2 8.4 + 2.2 + 34.4 + 23 29 _ 3.4 _ 1.2 _ 1.0 0.3 2.2 _ 2.0 _ 0.2 57 2.6 Aug + + _ _ Sep _ 0.1 + 4.9 + 2.4 + 4.5 + 4.7 0.2 _ 2.1 2.1 _ 0.1 2.4 3.4 5.9 0.1 2.2 0.0 5.7 Oct + 1.2 + 8.6 _ 3.8 _ 6.0 _ _ + 2.2 + _ 5.1 + + 0.9 + + _ + 3.5 3.9 17.6 Nov 16.7 10.3 3.4 + _ 0.1 4.3 _ _ 0.4 + + 14.1 _ _ 4.7 _ _ 3.3 0.2 Dec 15.1 11.0 8.6 5.1 0.4 3.5 6.5 + 0.3 4.5 0.1 3.0 2016 Jan + 6.7 + 3.1 0.0 0.2 3.1 0.1 1.4 1.1 + + + 9.6 + 10.5 7.6 0.7 2.0 Feb + + 6.4 + 6.1 0.3 1.2 + + 0.4 + 3.6 Mar _ 0.8 + 4.5 + 5.3 + 4.7 + 4.6 + 0.1 0.6 + 1.0 0.4 6.0 2.2 Apr + 13 3 + 124 + 2.6 0.8 _ 0.8 _ 0.0 34 + 3.3 + 0 1 10.7 + 12.3 Mav + 5.7 + 8.3 + 2.2 + 3.2 + 3.2 + 0.0 1.0 _ 1.1 0.1 3.5 77 + + + 11.9 7.3 6.5 2.5 2.8 0.3 4.0 4.1 0.1 5.4 0.2 June + _ _ _ + + July + 13.3 + 10.2 + 0.1 3.9 3.8 0.1 + 4.0 + 3.9 + 0.1 + 13.3 + 12.0 Aug 1.5 4.6 6.7 5.8 5.4 0.4 0.9 0.8 0.1 8.2 13.2 + + Sep 8.2 + 9.0 + 6.6 + 6.2 6.3 _ 0.1 + 0.4 _ 0.0 + 0.4 1.6 5.5 + + + 1.5 3.7 0.1 2.6 Oct 7.0 8.6 1.6 2.7 0.1 5.8 9.4 + + 1.1 + + 3.8 13.0 Nov 12.1 11.4 17 0.1 54 52 0.2 13.7

* See Table IV.2, footnote*; statistical breaks have been eliminated from the changes. The figures for the latest date are always to be regarded as provisional. Subsequent revisions, which appear in the following Monthly Report, are not specially marked. **1** Excluding debt securities arising from the exchange of equalisation claims (see also footnote 2). **2** Including debt securities arising from the exchange of equalisation claims.

lending													
orises and ho	useholds				to gen	ieral go	vernment						
Loans							Loans						
Total	Medium- term	Long- term	Securities	<i>Memo item</i> Fiduciary Ioans	Total		Total	Medium- term	Long- term	Secur- ities 1	Equal- isation claims 2	<i>Memo item</i> Fiduciary Ioans	Period
End of ye	ar or mon	th *											
1,972.7 1,987.3 2,022.0 2,051.3	207.7 222.0	1,779.6	209.1 181.1 235.8 248.4	48.2 46.5 42.8 39.6		515.8 476.2 440.3 453.1	358.4 332.5 308.2 298.0	31.7 31.9 29.7 32.2	300.6 278.5	143.7 132.1			2006 2007 2008 2009
2,070.0 2,099.5 2,119.5 2,136.9 2,172.7	247.9 249.7	1,869.8	235.7 222.4 191.4 191.7 204.2	30.7 32.7 31.4 28.9 24.4		487.3 492.6 533.4 534.0 532.9	301.2 299.1 292.7 288.4 283.1	36.1 41.1 39.4 38.8 33.5	258.0 253.3 249.7	193.5 240.7 245.6	-	3.6 3.5 2.7	2010 2011 2012 2013 2014
2,232.4	256.0	1,976.3	219.0	18.3		527.0	277.0	27.9	249.0	250.0	-	2.1	2015
2,190.5	1		206.5	23.3		524.2	278.3	28.7		1		2.0	2015 J
2,201.5 2,208.2 2,208.7		1,957.2	228.7 224.4 219.7	23.0 22.9 22.9		525.5 528.9 530.6	276.6 275.7 277.5	28.5 28.2 29.3	2 247.6	253.1	-	2.0	
2,220.0 2,233.7 2,232.4	256.1	1,977.6	213.8 217.4 219.0	22.7 22.5 18.3		530.2 533.8 527.0	278.5 278.6 277.0	29.3 28.1 27.9	250.5	255.1		2.0) 1 1
2,235.3 2,240.2 2,240.5			217.2 215.9 213.5	18.2 18.0 17.9		527.2 525.6 521.8	277.8 276.8 275.6	27.7 27.7 27.5	249.1	248.8		2.1	2016 J I I
2,249.9 2,255.8 2,256.9	258.0		216.6 216.9 216.0	17.8 17.7 17.8		520.1 516.0 510.4	276.1 275.1 273.5	27.5 27.1 26.9	247.9	240.9		2.0	/ ۱ ۱
2,266.8 2,278.8 2,283.5	260.6	2,018.1	217.1 218.4 219.3	17.7 17.6 17.5		511.7 506.6 502.7	272.7 271.5 269.6	25.9 25.9 25.4	245.6	235.1		1.8	
2,290.5 2,302.5	261.5		221.8 223.0	17.3 17.3		498.9 499.5	270.2 270.9	24.4 24.3					
Changes [•]	*												
+ 9.6 + 28.8 + 23.5	+ 12.0	+ 16.8	- 16.7 + 54.7 + 13.1	- 2.2 - 5.3 - 3.9	- - +	36.3 34.5 15.2	- 25.8 - 23.2 - 7.6	- 2.3	3 – 20.8	- 11.4		- 0.1 - 0.1 - 0.2	2007 2008 2009
+ 18.6 + 22.6 + 21.6 + 17.7 + 39.9 + 59.0	+ 2.2 + 1.5 - 0.1 + 5.6	+ 20.4 + 20.1 + 17.8 + 34.3	- 3.8 - 13.2 - 10.7 - 0.1 + 12.5 + 14.8	- 1.7 - 1.0 - 1.1 - 2.5 - 1.8 - 2.1	+++++	35.2 5.2 19.8 0.6 4.1 6.6	+ 3.5 - 2.1 - 6.6 - 4.3 - 8.5 - 6.9	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	+ 7.3 + 26.4 + 4.9 + 4.3		- 0.2 - 0.2 - 0.8 - 0.2	2010 2011 2012 2013 2014 2015
- 2.1	- 1.7	- 0.4	- 8.0	- 0.3	-	4.2	- 2.1	- 0.7	/ – 1.4	- 2.0	-	- 0.1	2015 J
+ 9.7 + 6.9 + 1.3	+ 0.1	+ 10.4 + 6.8 + 0.7	+ 22.2 - 4.3 - 4.7	- 0.3 - 0.1 - 0.1	+++++++	2.5 3.1 1.0	- 0.4 - 1.1 + 1.0	- 0.2 - 0.3 + 0.9	3 – 0.8	+ 4.3		- 0.0 - 0.0 - 0.0	
+ 11.6 + 10.5 - 1.3	+ 2.0	+ 8.6	- 5.9 + 3.6 + 1.6	- 0.1 - 0.2 - 0.2	- + -	0.7 3.5 6.8	+ 0.6 + 0.2 - 1.7	- 0.1 - 1.1 - 0.2	+ 1.3	+ 3.4		- 0.0 + 0.1) 1
+ 3.0 + 4.8 + 0.2	+ 0.4 + 1.0	+ 2.5	- 1.8 - 1.1 - 2.4	- 0.1 - 0.1 - 0.2	+	0.2 1.7 3.8	+ 0.9 - 1.1 - 1.2	- 0.2 - 0.0 - 0.2	2 + 1.1	- 0.6 - 0.6		+ 0.0	2016 J I
+ 9.2 + 7.4 + 1.2	+ 0.8	+ 6.6	+ 3.0 + 0.3 - 0.9	- 0.0 - 0.1 + 0.1		1.6 4.2 5.6	+ 0.6 - 1.1 - 1.6	- 0.4	4 – 0.8	- 3.1		- 0.0 - 0.0 - 0.2	
+ 10.8 + 12.0	+ 0.8 + 2.1	+ 10.1 + 9.9	+ 1.1 + 1.3 + 0.9	- 0.1 - 0.1 - 0.1	+ -	1.3 5.1 3.8	- 0.8 - 1.2 - 1.8	- 1.0 - 0.0) + 0.2) - 1.2	+ 2.1 - 3.9	-	- 0.0	
+ 4.6 + 6.8 + 11.9	+ 0.5	+ 6.2	+ 2.7	- 0.2	-	3.8 3.6 0.7	+ 0.7	- 0.9	+ 1.7	- 4.3	-	- 0.0	

6 Lending by banks (MFIs) in Germany to domestic enterprises and households, housing loans, sectors of economic activity *

€ billion

Peri

	-	omestic er of which	ner		i nou:	senoius (i	excluul	ng noi	ungs	orneg	otiable i	none	y market	. рар		i exciu	ung s	ecunii	es porti	ionos)	•				
	ľ		н	lousing lo	ans				Lendir	ng to e	enterpris	es an	d self-en	nploy	yed pe	rsons									
Total		Mortgage loans, total	Т	otal	loa sec by res	ured iden- real	Other housir loans		Total		of which Housing Ioans	9	Manufac	-	Electric gas an water supply refuse dispos mining and quarry	id ; al, }	Const	ruc-	Whole sale an retail trade; repair motor vehicle and motor- cycles	nd of es	Agri- culture forestr fishing and aqua- culture	y,	Transpor ation and storage; post and telecom- munica- tions	- in a (e N in c	inancia nterme tion excludi AFIs) a nsuran om- anies
Lend	ing,	total																			En	d of	year o	r q	uarte
	84.8	1,225.3	7	1,188.3	7	984.3		204.4	1 3	291.6	32	28.3	122	2 9 1	1	00.1		59.8	1	23.7		47.8	•	.4	12
	26.3	1,244.5		1,218.5		1,001.2		217.3		309.0		86.5	122			00.6		61.7		25.3		50.0	65	- L	12
	40.0	1,253.3		1,230.2		1,010.4		219.8		314.2		9.6	12			00.9		60.5		25.2		50.0	65		13
	58.5	1,227.2 1,235.1		1,235.2 1,248.0		987.0 996.2		248.2 251.8		328.6 332.0		2.5	133 131			01.9		62.2 62.7		26.6		50.1 50.9	62		13
	73.6 97.2	1,248.2		1,246.0		1,007.6		256.9		341.1		15.8 50.5		0.3		01.7 03.0		63.2		25.4 26.9		51.2	59 57	.4	13 13
Short-	term l	ending																							
2	12.1	-	-	7.6	5	-		7.6		177.2		3.9	32	2.5		6.0		11.8		41.2		3.6	5	.9	2
	17.6	-		8.5		-		8.5		183.3		4.3		4.6		5.3		12.8		43.5		4.4		.2	4
	07.6 18.0			8.5 7.7		-		8.5 7.7		173.8 185.1		4.3 4.1		3.7 9.4		4.7 4.9		11.5 13.0		42.0 43.6		3.9 4.0		.3 .3	4
2	16.8	-		7.9	9	-		7.9		184.7		4.3	37	7.0		4.7		13.1		42.1		4.2	5	.1	4
	13.8 m-ter	- m lending	- 1	7.6	1	-	I	7.6		181.6	1	4.1	34	4.3		4.6		13.0		42.6		4.1	4	.7	4
	51.7		-1	35.8	31	_	1	35.8		178.4	1	3.4	2:	3.5		5.4		9.9		16.6		4.2	11	.4	:
	51.2	-	_	35.5		_		35.5		176.8		3.4		4.0		5.1		10.3		15.8		4.4	11	- L	3
	56.0	-	-	35.2		-		35.2		181.3		3.3		3.8		5.1		10.4		16.4		4.4	11		4
	57.3 58.7	-		34.8 34.7		-		34.8 34.7		181.8 182.1		3.2 3.2		3.9 3.7		5.1 5.1		10.4 10.5		16.2 16.6		4.5 4.5	11 11		4
	61.0	-		34.8		-		34.7		183.4		3.4		4.3		5.7		10.5		16.5		4.6	11		2
Long-1	erm le	ending																							
1,9	21.0	1,225.3	7	1,145.2	2	984.3	1	60.9	9	936.1	31	0.9		5.9		88.8		38.1		65.8		39.9	51	.2	
	57.4 76.3	1,244.5 1,253.3		1,174.5 1,186.4		1,001.2 1,010.4		173.3 176.0		948.9 959.1		8.8		8.8 0.0		90.2 91.2		38.5 38.5		66.0 66.9		41.2 41.7	49 48		
	83.2	1,255.		1,180.4		987.0		205.7		959.1 961.7		25.3		D.0 D.1		91.2		38.8		66.8		41.7	40	- L	
1,9	98.2 22.5	1,235.	1	1,205.5	5	996.2 1,007.6	2	209.3	9	965.3 976.1	32	28.3	70	0.7 0.7		91.9 92.7		39.1 39.7		66.8 67.8		42.1 42.4	42		
		total		.,		.,			_														durin		
				. 17.		0.2		4.2.1		0.0		201				0.1		0.1		2.4.1					
	13.2 13.7	+ 9.8 + 9.0		+ 13.6			+++++	4.3 2.4	+	0.6 5.0		2.0 3.1		0.5 0.4	+	0.1 0.7	+ -	0.1 1.1	+ -	2.1 0.1	+ +	0.9 0.0		.4	+
	18.5	+ 3.5		+ 5.5			+	0.2	+	14.1		2.9		5.9	+	1.0	+	1.8	+	1.0	+	0.1		.8	+
	17.4 24.5	+ 7.0 + 12.4		+ 12.9			+++++	4.0 5.1	+ +	5.7 10.2		3.4 4.2		1.1 1.1	- +	0.1 1.2	+ +	0.5 0.6	- +	1.0 1.6	+++	0.6 0.3		.7 .6	+ +
		ending																							
-	4.7	-	-1	+ 0.1		-	+	0.1	-	4.8		0.0		0.8	-	0.2	-	0.2	+	2.0		0.0		.7	-
-	7.1	-	-	+ 0.1		-	+	0.1	-	7.1		0.0		D.7	-	0.1	-	1.3	-	1.1	-	0.5		.3	-
+ -	10.6 0.4			- 0.2 + 0.1	1	-	+	0.2 0.1	+ +	11.4 0.3	+	0.0 0.2	- '	5.7 1.8	+ -	0.2 0.2	+ +	1.5 0.1	+ -	1.4 1.3	+ +	0.1 0.3	— C	.1 .3	+ +
-	2.9	-	- 1	- 0.3	3	-	-	0.3	-	2.9	-	0.2		2.8	-	0.1	-	0.1	+	0.6	-	0.1	- C	.3	+
Mediu		m lending		~				0.2		0.01		0.21		م		0.4."		<u>.</u>		0.2		0.4	-	1	
- +	0.0 3.8	-		- 0.2 - 0.3		_	-	0.2 0.3	+	0.8 3.4		0.2		0.2 0.4	_	0.1	+ +	0.1 0.1	- +	0.3 0.5	+++	0.1		.1 .4	+ +
+	1.4			- 0.4		-	-	0.4	+	0.5		0.1		0.1	+	0.1	+	0.0	-	0.2	+	0.0		.3	+
+++	2.7 3.2			- 0.2		-	-	0.2 0.1	+	1.7 2.4	- +	0.1	- (0.0 0.7	+ +	0.0	+ +	0.1 0.1	+ +	0.4 0.0		0.0 0.1	— C	.3	+ +
Long-1		endina		· 0.				0.1	г	2.7		J.2			1°	0.01	г	0.1	r.	0.0	F	0.1			
	17.9	+ 9.8	3	+ 13.7	7 +	9.3	+	4.4	+	5.0	+	2.2	+ (D.5	+	0.2	+	0.2	+	0.3	+	0.7	— C	.5	+
	17.0	+ 9.0		+ 11.3	7 +	- 9.0	+	2.7	+	8.6	+	3.2	+ (D.7	+	0.7	+	0.1	+	0.5	+	0.5	- C	.7	+
+++++	6.5 15.1	+ 3.5 + 7.0		+ 6.1			+++	0.8 4.1	+ +	2.1 3.7		3.1 3.2		D.1 D.7	+ +	0.7	+ +	0.2 0.2	_	0.2 0.1	+ +	0.0 0.4		.6 .1	+ +
	24.2			+ 16.2				5.3		10.7		4.2		1.0		0.7		0.6		1.0		0.3		.2	+

* Excluding lending by foreign branches. Breakdown of lending by building and loan associations by areas and sectors estimated. Statistical alterations have been eliminated

from the changes. The figures for the latest date are always to be regarded as provisional; subsequent alterations, which will appear in the following Monthly Report,

											Lending	g to er	nploye	es and	other i	ndividu	ials				Lendi non-p		stitutior	s	
rvices se	ector	(including t	he pr	ofession	5)		Memo	o items							Other	lending	3								
	0	f which												ſ			of wh	ich							
tal		lousing nterprises	Hold		Other real estate activit	e	Lendir to self emplo persor	yed	Lending to craft enterpris	ses	Total		Housir Ioans		Total		Instal		Debit balanc on way salary and pensio accour	ge, n	Total		<i>of whic</i> Housin Ioans		Perio
nd of	yea	r or qua	rter	. *																		Lend	ing, t	otal	
644	-	188.1		33.9	I	173.8		389.8	4	47.9	1.0	78.6		856.6		222.0		150.0		10.7		14.5		3.8	2014
649	_	191.5		32.0		175.9		394.7		47.7		03.0		878.4		224.6		153.6		11.0		14.2		3.6	2015
654	_	193.4		32.4		176.5		395.6		46.8		11.6		887.1		224.6		154.4		10.1		14.2		3.5	
660 667		194.8 198.4		34.4 34.6		177.4 178.1		397.2 399.4		47.1 46.9		15.9 27.6		889.2 898.7		226.6 228.9		156.8 159.6		10.3 9.8		14.1 14.0		3.4 3.5	2016
672		201.4	I	34.8		180.8	I	401.1		46.8		42.0		910.5		231.5		162.3		9.8	I	14.2		3.5	
																							term lei		
52	_	8.5		6.1		11.8		26.6		6.2		34.2		3.7		30.5		1.9		10.7		0.7		0.0	2014
51 48		8.6 8.7		6.2 4.9		10.4 10.7		26.1 25.4		6.3 5.6		33.8 33.2		4.2 4.2		29.6 29.0		1.7 1.7		11.0 10.1		0.6 0.5		0.0 0.0	2015
50		8.1		6.5		10.5		25.6		6.2		32.4		3.7		28.7		1.8		10.3		0.5		0.0	2016
51 49		8.6 8.5		6.1 5.9		10.7 11.1		25.5 24.7		5.9 5.7		31.6 31.6		3.6 3.4		28.1 28.2		1.8 1.7		9.8 9.8		0.5 0.5		0.0	
																					N	Iedium-	term le	nding	
68	.2	9.4		7.0		19.8	I	32.0		3.5		72.8		22.4		50.4		45.2		-	I	0.5		0.0	2014
66		9.9		7.0		19.5		32.3		3.5		73.9		22.1		51.9		46.9		-		0.5		0.0	2015
68 69	_	10.1 10.1		7.3 7.2		19.3 19.4		32.4 32.7		3.5 3.5		74.2 74.9		21.9 21.5		52.3 53.3		47.4 48.1		-		0.6 0.6		0.0 0.0	2016
70	.1	10.6		7.3		19.0		33.0		3.6		76.0		21.4		54.6		49.3		-		0.6		0.0	2016
69	.7	10.7	I	7.3		18.9	I	33.0		3.7		77.1		21.4		55.7		50.3		-	I	0.5		0.0	
522	0	170.0		20.0		1 4 2 2		224.2				71 6		000 F I		1 4 4 4 1		102.01				-	term lei 1	-	2014
523 531		170.2 173.0		20.9 18.8		142.2 146.0		331.2 336.3		38.2 37.9		971.6 95.3		830.5 852.1		141.1 143.2		102.8 105.0		_		13.4 13.2		3.7 3.6	2014 2015
537		174.6		20.2		146.5		337.8		37.7		04.2		861.0		143.3		105.3		_		13.0		3.5	2013
540		176.7		20.7		147.6		338.9		37.4		08.6		864.0		144.6		106.9		-		13.0		3.4	2016
545 553		179.2 182.1		21.2 21.6		148.5 150.8		340.9 343.4		37.4 37.4)19.9)33.3		873.7 885.7		146.2 147.6		108.6 110.2		_		13.0 13.1		3.4 3.5	
ange	۰ du	uring qua	arte	r *																		Lend	ing, t	otal	
	.1					1.4		1.9		ا د م		1 2 E		11.5		2.0		1.9		0.0		0.3		0.1	2015
	.6	+ 0.6 + 2.0	+		+++	1.4 0.6	+++	0.8	-	0.3 0.9	++++	13.5 9.0	++++	8.5	+ +	0.6	++++	1.9	+ -	0.0	+ -	0.3	+ _	0.1	2015
	.1	+ 1.8 + 3.1	+		++++	0.9 1.3	+	1.1 2.1	+	0.6 0.1	+	4.4 11.8	+	2.6 9.5	+	1.7 2.3	+	1.9 2.9	+	0.2 0.5	-	0.0 0.0	-	0.0 0.0	2016
	.4	+ 3.1 + 2.7	+ +	0.1		3.1	+++++++++++++++++++++++++++++++++++++++	1.7	-	0.1		14.1	+++	11.8	+ +	2.3	+++	2.9	- +	0.0		0.0	+++	0.0	
																						Short	term le	nding	
	.7	+ 0.1 + 0.1	-	0.7 1.1	- +	0.4 0.4	-	1.0 0.9	-	0.2	+++	0.1	++++	0.1	+ -	0.0 0.0	- +	0.1 0.1	+ -	0.0 0.9		0.0 0.0	+++	0.0 0.0	2015
	.0	- 0.4			+	0.4	+	0.9	+	0.6	+	0.0		0.0		0.0	++	0.1	+	0.9		0.0	++	0.0	2016
⊦ 1	.0	+ 0.5	-	0.4	+	0.3	-	0.2	-	0.3	-	0.7		0.1	_	0.6	-	0.1	-	0.5	-	0.0		-	2010
• 1	.4	- 0.1	-	0.1	+	0.3	-	0.8	-	0.2	-	0.0	-	0.1	+	0.1	-	0.1	+	0.0		0.1 Iedium	+ term lei	0.0 ding	
- 0	.3	- 0.0	+	0.1	+	0.1	+	0.1	-	0.1	+	0.7	+	0.1	+	0.7	+	0.7		_	∾ I +	0.0		0.0	2015
	.3	+ 0.1			-	0.2		0.1	-	0.0	+	0.4	-	0.2	+	0.6	+	0.5		-		-	-	0.0	2010
	.8 .2	- 0.0 + 0.5	-		+	0.1 0.2	+	0.1 0.4	+	0.1 0.1	+	0.8 1.1	-	0.3 0.1	+	1.1 1.2	+	0.7 1.2		-		0.0 0.0		0.0 0.0	2016
	.2	+ 0.5 + 0.2		0.0	_	0.2	+++++	0.4	+++	0.0	++++	0.8	-	0.1	+ +	0.9	++++	0.9		-		0.0	+++	0.0	
																						Long	term le	nding	
	.9	+ 0.5			+	1.7 0.5	+	2.8 1.5	-	0.0		12.7	+	11.4	+	1.3 0.0	+	1.4		-		0.3 0.2	+	0.1	2015
	.0 .2	+ 1.7 + 2.2	+		+++	1.0	+++	0.8	-	0.2 0.1	+ +	8.6 4.4	++	8.6 3.1	+ +	0.0 1.3	+++	0.4 1.1		-		0.2	-	0.1	2016
	.2	+ 2.1			+	1.3		1.9	+	0.1		11.4	+	9.7	+	1.7	+	1.7		_		0.0	+	0.0	2010

are not specially marked. 1 Excluding fiduciary loans. 2 Including sole proprietors. 3 Excluding mortgage loans and housing loans, even in the form of instalment credit.

7 Deposits of domestic non-banks (non-MFIs) at banks (MFIs) in Germany*

	€ billion											
			Time deposit	s 1,2						Memo item		
	Deposits,	Sight		for up to and including	for more than	for up to and including	for more than	Savings	Bank savings	Fiduciary	Subordinated liabilities (excluding negotiable debt	Liabilities arising
Period	total Domestic	deposits	Total	1 year	Total	2 years	2 years	deposits 3	bonds 4	loans	securities)	from repos r or month*
2013	3,048.7			254.8	697.2	29.7	667.5	610.1	76.6	32.9	29.0	5.4
2013 2014 2015	3,118.2	1,517.8	926.7	257.0	669.7 655.4	29.4 37.3	640.3 618.1	607.8 596.5	66.0	30.9 29.3	26.2 20.5	1.7 0.5
2015 Dec	3,224.7	· · ·	898.4	243.0	655.4	37.3	618.1	596.5	1	29.3	20.5	0.5
2016 Jan Feb	3,233.8 3,236.2		893.3 887.8	236.2 232.0	657.1 655.9	39.0 39.5	618.1 616.4	596.1 596.4	54.8 54.6	29.3 29.3	20.1 19.9	0.5 0.8
Mar	3,231.2	1,687.4	894.9	236.4	658.5	41.4	617.1	594.5	54.4	29.1	19.8	1.6
Apr May	3,249.8	1,721.8	893.5 896.1	235.9	657.7 658.3	42.2	615.5 616.5	592.7 591.2		29.0 29.0	19.7 19.6	1.7 1.5
June July	3,259.9 3,275.7	1,737.1	894.1 896.8	235.9 238.0	658.2 658.8	42.8	615.4 614.3	590.0 589.1	53.1	28.7 28.6	19.5 19.3	1.5 1.0
Aug Sep	3,282.1 3,283.7		893.1 896.6	234.7 239.5	658.3 657.2	45.0 45.5	613.3 611.7	588.4 587.2		28.7 28.6	19.0 18.8	0.7 1.3
Oct Nov	3,294.7 3,328.9		888.8 891.5		658.8 657.9	45.8 46.4	613.1 611.5	586.6 586.2		28.6 28.6	18.7 18.6	1.1 0.8
	3,520.5	1,000.5		1 200.0						2010	1010	Changes*
2014	+ 69.7		– 25.3 – 28.3		- 27.8	- 0.5	- 27.3	- 2.4			- 2.8	- 3.7
2015 2015 Dec	+ 106.5	1	- 28.3 + 1.7	- 13.6 + 3.4	- 14.7	+ 7.6 + 2.2	- 22.3 - 3.8	- 11.3 + 2.2	1	- 1.6	- 5.7 - 2.0	- 1.2 - 1.5
2016 Jan Feb	+ 9.1 + 4.8		- 5.8 - 3.1	- 7.2 - 2.8	+ 1.4 - 0.4	+ 1.7 + 1.0	- 0.3 - 1.4	- 0.4 + 0.3		+ 0.0 - 0.0	- 0.4 - 0.1	- 0.1 + 0.4
Mar	- 5.0	- 10.0	+ 7.0	+ 4.4	+ 2.6	+ 1.9	+ 0.7	- 1.9	- 0.2	- 0.2	- 0.1	+ 0.8
Apr May	+ 18.6 + 12.9	+ 12.2	- 1.3 + 2.5	+ 1.9	- 0.9 + 0.7	+ 0.8 - 0.3	- 1.7 + 1.0	- 1.8	- 0.3	- 0.1 - 0.0	- 0.1 - 0.1	+ 0.1 - 0.2
June July	- 2.5 + 15.8	1	- 1.7 + 2.7	- 1.6 + 2.1	- 0.1 + 0.6	+ 0.9	- 1.0	- 1.1	1	- 0.3	- 0.1	- 0.0 - 0.5
Aug Sep	+ 6.4 + 1.6	+ 11.4	- 3.8 + 3.6	- 3.3	- 0.5	+ 0.5 + 0.5	- 1.0 - 1.6	- 0.7	- 0.5	+ 0.0 - 0.0	- 0.3 - 0.2	- 0.3 + 0.7
Oct Nov	+ 11.0 + 34.2		- 7.9 + 2.7	- 9.5	+ 1.7 - 0.9	+ 0.2 + 0.7	+ 1.4 - 1.6	- 0.6 - 0.4		- 0.0	- 0.1 - 0.2	- 0.2 - 0.3
NOV		governm	-	J + 5.0	- 0.5		1 - 1.0	- 0.4	I – 0.4	-		r or month*
2013	183.0	-		81.1	48.5	5.7	42.8	3.6	1.6	30.7	4.8	4.7
2014 2015	186.7 197.4	52.4	128.2 132.6	84.5 87.7	43.7 44.9	7.5 10.2	36.2 34.7	3.8 3.7	2.3	29.1 27.9	4.8 2.7	0.5 0.5
2015 Dec	197.4	1	132.6	87.7	44.9	10.2	34.7	3.7	1	27.9	2.7	0.5
2016 Jan Feb	193.0 194.5	61.4	129.2 125.9	83.9 80.4	45.3 45.6	10.6 10.6	34.7 34.9	3.7 3.6	3.6	27.9 27.9	2.7 2.7	0.1 0.5
Mar Apr	198.3	1	130.5	84.1	46.4 47.8	10.9	35.5 36.9	3.6	1	27.7	2.7 2.6	1.2 1.3
May June	204.3 204.0	63.5	133.0 134.0	84.4 84.6	48.6 49.4	11.2 11.6	37.4 37.8	3.8 3.9	4.0	27.6 27.3	2.6 2.6	1.1 0.2
July Aug	203.8 206.1		135.8 135.6		51.3 52.1	13.3 13.7	38.0 38.4	3.9 4.0		27.2 27.3	2.6 2.6	0.2 0.0
Sep	202.6	59.6	134.8	82.4	52.4	14.1	38.3	3.9	4.3	27.2	2.7	0.2
Oct Nov	199.1 207.0			78.9	53.2 54.4	14.9 16.2	38.3 38.3	3.9 3.9		27.2 27.2	2.7 2.6	-
												Changes*
2014 2015	- 1.2 + 10.1		- 3.9 + 3.7	+ 2.5 + 2.9	- 6.4	+ 1.0 + 2.5	- 7.4	+ 0.1 - 0.0		- 1.6	- 0.1 - 2.1	- 4.2 + 0.1
2015 Dec	- 3.0		- 2.1	- 2.9	+ 0.8	+ 0.7	+ 0.2	- 0.0	1	- 0.2	- 0.1	- 1.0
2016 Jan Feb	- 4.5 + 3.0	+ 4.8	- 3.5		+ 0.4 + 0.6	+ 0.4 + 0.3	+ 0.0 + 0.3	- 0.1		+ 0.0 - 0.0	- 0.0 - 0.0	- 0.4 + 0.4
Mar Apr	+ 3.8		+ 4.6		+ 0.8 + 1.5	+ 0.2 + 0.1	+ 0.6	+ 0.0	+ 0.1	- 0.2	- 0.0 - 0.0	+ 0.8 + 0.1
May June	+ 8.2	+ 2.6	+ 5.2 + 1.1	+ 4.5	+ 0.8 + 0.9	+ 0.2 + 0.4	+ 0.6 + 0.4		+ 0.2 + 0.0	- 0.0	- 0.0 - 0.0	- 0.2 - 0.9
July	- 0.2	- 2.0	+ 1.7	- 0.2	+ 1.9	+ 1.7	+ 0.1	+ 0.0	+ 0.1	- 0.1	+ 0.0	- 0.1
Aug Sep	+ 2.1 - 3.8	- 2.7	- 0.3	- 1.2	+ 0.6 + 0.2	+ 0.3 + 0.4	+ 0.3 - 0.2	+ 0.1 - 0.0	1	+ 0.0 - 0.1	+ 0.0 + 0.0	- 0.1 + 0.1
Oct Nov	- 3.5 + 7.8		- 2.7 + 5.0	- 3.6 + 3.7	+ 0.8 + 1.3	+ 0.8 + 1.3	- 0.0 - 0.0	- 0.0 - 0.1		- 0.0 - 0.0	+ 0.0 - 0.1	- 0.2
	* Soo Tabla	N/2 footno	to *: statistic:	al broaks bay	hoon olimin	ated from th	o spocially	markad 1	Including sub	ordinated liab	ilitios and liabilit	ties arising from

 \ast See Table IV.2, footnote $\ast;$ statistical breaks have been eliminated from the changes. The figures for the latest date are always to be regarded as provisional. Subsequent revisions, which appear in the following Monthly Report, are not

specially marked. 1 Including subordinated liabilities and liabilities arising from registered debt securities. 2 Including deposits under savings and loan contracts (see

7 Deposits of domestic non-banks (non-MFIs) at banks (MFIs) in Germany * (cont'd)

	€ billion											
			Time deposit	s 1,2						Memo item		
					for more thar	n 1 year 2					Subordinated liabilities	
Period	Deposits, total	Sight deposits	Total	for up to and including 1 year	Total	for up to and including 2 years	for more than 2 years	Savings deposits 3	Bank savings bonds 4	Fiduciary Ioans	(excluding negotiable debt securities)	Liabilities arising from repos
		enterprise				_) ==:=	_) ====				End of year	· · · · · · · · · · · · · · · · · · ·
2013	2,865.7	1,361.7	822.4		648.7	24.0	624.7	606.5			24.2	0.7
2014 2015	2,931.5 3,027.3	1,465.4 1,616.1	798.4 765.8		625.9 610.5	21.8 27.1	604.1 583.5	604.0 592.7	63.7 52.6	1.8 1.4	21.5 17.8	1.2
2015 Dec	3,027.3	1,616.1	765.8		610.5	27.1	583.5	592.7	52.6	1.4	17.8	-
2016 Jan Feb	3,040.8 3,041.7	1,633.0 1,636.1	764.1 761.9	152.3 151.6	611.8 610.3	28.4 28.8	583.5 581.5	592.4 592.7	51.3 51.0	1.4	17.4	0.4 0.3
Mar Apr	3,032.9 3,053.8	1,626.9 1,648.8	764.4 765.8		612.2 609.8	30.5 31.2	581.6 578.6	590.9 589.0	50.7 50.3	1.4	17.2	0.3
May June	3,058.5	1,658.3	763.1	153.3	609.7 608.8	30.7 31.2	579.0 577.6	587.4 586.2	49.7	1.4	17.0	0.4
July	3,071.8	1,677.0	761.1	153.6	607.5	31.2	576.3	585.2	48.6	1.4	1	0.8
Aug Sep	3,076.0 3,081.1	1,686.1 1,688.4	757.4		606.3 604.8	31.4 31.4	574.9 573.3	584.4 583.2	48.1 47.6	1.4	16.4	0.6 1.2
Oct Nov	3,095.6 3,121.9	1,709.2 1,738.6	756.7 754.5	151.1 151.0	605.6 603.5	30.9 30.3	574.8 573.2	582.7 582.3	47.0 46.5	1.4	16.0 15.9	1.1 0.8
NOV	3,121.9	1,756.0	/54.5	151.0	003.5	1 30.3	5/3.2	062.3	40.5	1 1.5	1 15.9	Changes*
2014	+ 70.8	+ 106.0	- 21.4	- 0.0	- 21.4	- 1.5	- 19.9	- 2.5	- 11.2	- 0.4	- 2.7	+ 0.5
2015	+ 96.4	+ 151.0	- 32.0		- 15.4	+ 5.1	- 20.6	- 11.3		- 0.4	- 3.7	- 1.2
2015 Dec 2016 Jan	+ 3.0 + 13.6	- 2.3 + 16.8	+ 3.9	+ 6.4	- 2.5 + 1.0	+ 1.5	- 4.0	+ 2.2	- 0.7	+ 0.0	- 1.9	- 0.4 + 0.4
Feb Mar	+ 1.8 - 8.8	+ 3.1 - 9.1	- 1.3 + 2.5	- 0.4 + 0.6	- 0.9 + 1.8	+ 0.7 + 1.7	- 1.7 + 0.2	+ 0.3 - 1.9	- 0.2	+ 0.0 + 0.0	- 0.1	- 0.0
Apr	+ 20.9	+ 21.8	+ 1.4	+ 3.8	- 2.3	+ 0.7	- 3.0	- 1.9	- 0.5	+ 0.0	- 0.1	-
May June	+ 4.8 - 2.2	+ 9.6 + 2.3	– 2.7 – 2.8	- 2.6	- 0.1 - 1.0	- 0.5 + 0.5	+ 0.4 - 1.5	- 1.6	- 0.6	+ 0.0 - 0.0	- 0.1	+ 0.0 + 0.9
July Aug	+ 15.9 + 4.3	+ 16.4	+ 1.0 - 3.5	+ 2.3 - 2.4	- 1.3 - 1.1	- 0.0 + 0.2	- 1.3 - 1.3	- 1.0 - 0.8		+ 0.0	- 0.2 - 0.4	- 0.4 - 0.2
Sep	+ 4.5	+ 2.3	+ 4.6	+ 5.9	- 1.3	+ 0.1	- 1.4	- 1.2	- 0.3	+ 0.0	- 0.2	+ 0.5
Oct Nov	+ 14.5 + 26.4	+ 20.8 + 29.4	– 5.1 – 2.3	- 6.0 - 0.1	+ 0.8 - 2.2	- 0.6 - 0.6	+ 1.4 - 1.6	- 0.5		+ 0.0 + 0.0	- 0.1	- 0.1 - 0.3
	of which:	Domesti	c enterpris	ses							End of year	or month*
2013	1,011.3	429.1		105.6	454.0	10.1	444.0					0.7
2014 2015	1,007.9 1,029.8	457.1 502.8	529.1 506.5	104.1 99.8	425.0 406.7	10.4 14.4	414.6 392.3	6.9 7.1	14.9 13.3		16.4 14.0	1.2
2015 Dec	1,029.8	502.8	506.5	99.8	406.7	14.4	392.3	7.1	13.3	1.3	14.0	-
2016 Jan Feb	1,037.6 1,033.9	512.8 510.7	504.2 502.8		406.9 405.3	15.3 15.7	391.6 389.6	7.2	13.3 13.3	1.3	13.7	0.4 0.3
Mar Apr	1,029.9 1,032.3	504.8 506.7	504.6 505.1	98.0 101.3	406.7 403.8	17.2	389.5 386.4	7.2	13.2	1.3	13.7	0.3
May	1,032.5	513.4 508.9	501.5 498.0	98.2	403.3 402.2	17.0	386.3 384.7	7.3	13.3	1.3	13.7	0.4
June July	1,027.4	506.7	498.0		402.2	17.5	384.0	7.4	13.3	1.3	13.7	0.8
Aug Sep	1,030.7 1,035.0	512.7 512.9	497.2 501.4		400.2 398.4	17.7 17.8	382.5 380.7	7.4		1.3	13.3	0.6 1.2
Oct	1,040.1	523.5 528.1	496.0		399.5	17.2 16.9	382.2	7.3			13.1	1.1 0.8
Nov	1,043.0	1 526.1	494.6	96.6	398.1	10.9	381.2	0.9	13.3	1.3	13.0	Changes*
2014	- 1.4	+ 28.8	- 29.5		- 28.5	+ 0.4	- 28.9	- 0.4				+ 0.5
2015 2015 Dec	+ 22.7	+ 46.0	- 22.1	- 3.8	- 18.3	+ 3.7	- 22.0 - 5.9	+ 0.3		- 0.5	- 2.5	- 1.2
2015 Dec 2016 Jan	- 4.1 + 7.9	+ 10.0	+ 2.2	+ 7.2	- 4.9 + 0.4	+ 1.0 + 0.9	- 5.9	+ 0.1 + 0.1	- 0.5	+ 0.0	- 1.8	- 0.4 + 0.4
Feb Mar	- 2.9	- 2.1 - 5.9	- 0.8 + 1.9		- 1.1 + 1.3	+ 0.5 + 1.5	- 1.6 - 0.1	- 0.0 + 0.0	- 0.0	- 0.0	+ 0.1 - 0.0	- 0.0
Apr	+ 2.4	+ 1.9	+ 0.5	+ 3.3	- 2.8	+ 0.3	- 3.1	+ 0.0	+ 0.0	- 0.0	- 0.0	_
May June	+ 3.3 - 7.8	+ 6.8 - 4.4	– 3.6 – 3.4		- 0.5 - 1.1	- 0.4 + 0.5	- 0.1 - 1.6	+ 0.0 + 0.0		- 0.0 - 0.0	+ 0.0 + 0.0	+ 0.0 + 0.9
July Aug	- 0.1 + 3.8	- 2.0 + 6.0	+ 1.6 - 2.3	+ 2.4 - 1.2	- 0.8 - 1.1	- 0.1 + 0.3	- 0.7 - 1.4	+ 0.1 + 0.0	+ 0.2 + 0.0	- 0.0 - 0.0	- 0.1 - 0.3	- 0.4 - 0.2
Sep	+ 4.7	+ 0.2	+ 4.4	+ 6.1	- 1.7	+ 0.1	- 1.7	- 0.1	+ 0.1	+ 0.0	- 0.2	+ 0.5
Oct Nov	+ 5.0 + 3.0	+ 10.6 + 4.6	– 5.4 – 1.5		+ 1.0 - 1.4	- 0.5 - 0.3	+ 1.6 - 1.1	- 0.1 - 0.2	- 0.1 + 0.1	+ 0.0 + 0.0	+ 0.0 - 0.1	- 0.1 - 0.3

Table IV.12). **3** Excluding deposits under savings and loan contracts (see also footnote 2). **4** Including liabilities arising from non-negotiable bearer debt securities.

8 Deposits of domestic households and non-profit institutions at banks (MFIs) in Germany*

	€ billion											
		Sight deposite	5					Time deposits	1,2			
			by creditor gr	oup					by creditor gr	oup		
	Deposits of		Domestic hou	iseholds]	Domestic hou	seholds		
Period	domestic households and non-profit institutions, total	Total	Total	Self- employed persons	Employees	Other individuals	Domestic non-profit institu- tions	Total	Total	Self- employed persons	Employees	Other individuals
										Ene	d of year o	r month*
2013 2014 2015	1,854.4 1,923.6 1,997.5	932.5 1,008.3 1,113.3	980.1	161.3 173.3 188.9	613.0 673.0 748.6	132.0 133.8 143.7		262.8 269.3 259.3	254.7	16.5 27.8 24.9	215.1 185.0 179.8	41.8
2016 June	2,028.5	1,151.7	1,116.7	191.3	779.9	145.5	34.9	262.1	248.8	25.5	181.3	42.0
July Aug Sep	2,044.8 2,045.3 2,046.0	1,170.3 1,173.3 1,175.5	1,135.8 1,138.1 1,140.3	201.5	791.4 790.3 795.2	146.0 146.4 146.8	35.2	261.5 260.2 260.4	247.9 246.7 246.8	25.7 24.7 24.8	180.7 180.7 180.8	41.5 41.4 41.1
Oct Nov	2,055.5 2,078.9	1,185.7 1,210.5			800.4 821.4	147.6 150.3			247.0 246.7	24.9 24.8	181.0 180.7	
												Changes*
2014 2015	+ 72.3 + 73.7	+ 77.2 + 105.0		+ 11.7 + 15.6	+ 57.1 + 75.4	+ 5.3 + 10.1	+ 3.2 + 3.9	+ 8.1 - 9.9	+ 7.6 - 8.1	+ 1.9 - 3.0	+ 6.4 - 4.5	- 0.6 - 0.7
2016 June	+ 5.6	+ 6.7	+ 6.5	- 2.4	+ 8.3	+ 0.6	+ 0.3	+ 0.6	+ 0.3	+ 0.2	+ 0.1	- 0.0
July Aug Sep	+ 16.1 + 0.5 + 0.7	+ 18.4 + 3.1 + 2.2	+ 18.8 + 2.3 + 2.2		+ 10.4 - 1.1 + 4.9	+ 1.4 + 0.3 + 0.5	- 0.4 + 0.7 - 0.1	- 0.6 - 1.2 + 0.2	- 0.9 - 1.2 + 0.0	+ 0.2 - 1.0 + 0.1	- 0.8 - 0.0 + 0.2	- 0.3 - 0.2 - 0.2
Oct Nov	+ 9.5 + 23.4	+ 10.2 + 24.8	+ 10.5 + 24.8		+ 5.3 + 20.9	+ 0.8 + 2.2	- 0.3 + 0.0	+ 0.3 - 0.8		+ 0.1 - 0.1	+ 0.2 - 0.0	- 0.1 - 0.2
	* See Table IV.2	, footnote*; sta	atistical breaks	have been elim	inated from th	ie changes.	revisions, wl	hich appear i	in the follow	ing Monthly	Report, are	not specially

The figures for the latest date are always to be regarded as provisional. Subsequent

marked. **1** Including subordinated liabilities and liabilities arising from registered debt

9 Deposits of domestic government at banks (MFIs) in Germany, by creditor group*

	€ billion												
	Deposits												
		Federal Gove	ernment and i	ts special fund	js 1			State govern	ments				
				Time deposit	S					Time deposit	S		
Period	Domestic government, total	Total	Sight deposits	for up to and including 1 year	for more than 1 year	Savings deposits and bank savings bonds 2	<i>Memo item</i> Fiduciary Ioans	Total	Sight deposits	for up to and including 1 year	for more than 1 year	Savings deposits and bank savings bonds 2	<i>Memo item</i> Fiduciary Ioans
											End	of year o	r month*
2013 2014 2015	183.0 186.7 197.4	16.0 10.5 9.6	2.6	7.7 2.4 3.9	5.3 5.5 2.6	0.1 0.1 0.1	15.7 14.6 14.1	43.6 40.2 44.3	10.2 13.4 13.2	10.4	23.0 15.8 16.5	0.7	
2016 June	204.0	8.8	3.9	2.2	2.6	0.1	13.8	51.7	14.7	19.0	17.1	0.9	13.1
July Aug Sep	203.8 206.1 202.6	8.1 7.9 8.1	3.6 3.6 3.7	1.8 1.6 1.8	2.6 2.6 2.5	0.1 0.1 0.1	13.8 13.8 13.8	53.9 51.9 53.0	15.1 14.4 14.8		17.5 17.4 17.5	0.8 0.9 0.9	13.1 13.1 13.0
Oct Nov	199.1 207.0	7.6 8.2		1.4 1.3	2.5 2.3	0.1 0.1	13.8 13.8	49.9 46.8	14.4 13.2		17.4 17.5		
												,	Changes*
2014 2015	- 1.2 + 10.1	- 3.3 - 1.9	+ 0.5	- 2.9 + 0.4	- 0.1 - 2.9	+ 0.0 + 0.0	- 1.0 - 0.6	+ 4.0		+ 3.4	+ 0.7	+ 0.2	- 0.6
2016 June	- 0.2	+ 0.7	+ 0.6	+ 0.1	- 0.1	+ 0.0	- 0.3	+ 2.4	+ 1.1	+ 1.4	+ 0.0		
July Aug Sep	- 0.2 + 2.1 - 3.8	- 0.7 - 0.2 + 0.1	- 0.3 + 0.0 + 0.1	- 0.3 - 0.2 + 0.1	- 0.0 + 0.0 - 0.1	- 0.0 - -	+ 0.0 + 0.0 + 0.0	+ 2.2 - 1.9 + 1.0	+ 0.5 - 0.7 + 0.3	+ 1.4 - 1.2 + 0.5	+ 0.4 - 0.1 + 0.1	+ 0.0 + 0.0	+ 0.0 - 0.1
Oct Nov	- 3.5 + 7.8	- 0.5 + 0.6	- 0.1 + 0.9	- 0.4 - 0.1	- 0.0 - 0.2	+ 0.0	- 0.0	– 3.1 – 3.3	- 0.4 - 1.2	– 2.7 – 2.2	- 0.1 + 0.0	+ 0.1 + 0.0	- 0.0 - 0.0

* See Table IV.2, footnote *; excluding deposits of the Treuhand agency and its successor organisations, of the Federal Railways, east German Railways and Federal Post Office, and, from 1995, of Deutsche Bahn AG, Deutsche Post AG and Deutsche

Telekom AG, and of publicly owned enterprises, which are included in "Enterprises". Statistical breaks have been eliminated from the changes. The figures for the latest date are always to be regarded as provisional. Subsequent revisions, which appear in

					Savings depo	sits 3			Memo item			
	by maturity											
		more than 1	year 2							Cultural in a tool		
			of which		1					Subordinated liabilities		
Domestic non-profit	up to and		up to and		1		Domestic non-profit	Bank		(excluding negotiable	Liabilities	
institu- tions	including 1 year	Total	including 2 years	more than 2 years	Total	Domestic households	institu- tions	savings bonds 4	Fiduciary Ioans	debt securities) 5	arising from repos	Period
	,		Z years	z years	TOLAI	nousenoius	lions		IUdits	securities)		renou
End of ye	ar or mon	th										
15.6	68.1 68.4	194.7		180.7 189.5	599.3 597.2	589.6		59.8 48.8	0.0	7.0		2013 2014
13.1	55.5	200.5	12.7	191.1	585.6	576.6		39.2	0.0	3.8	-	2014
13.3	55.6	206.5	13.6	192.9	578.9	569.9	9.0	35.9	0.1	3.2	-	2016 June
13.6 13.5	55.4 54.2	206.1 206.0	13.7	192.3 192.4	577.8 577.0	568.9 568.0	9.0 9.0	35.2 34.7	0.1	3.1 3.1	_	July Aug
13.6	54.0	206.3	13.7	192.6	575.9	567.0		34.2	0.1	3.0	-	Sep
13.7	54.5 54.5	206.1 205.4	13.6	192.5 192.1	575.4 575.4	566.7 566.8		33.7 33.2	0.1	2.9 2.9		Oct Nov
	1 5115	20011	1 10.0			1 500.0	1 0.5	1 55.2		1 2.5		
Changes*	+ 1.0	+ 7.1	- 2.0	+ 9.0	- 2.1	 – 1.9	- 0.3	 – 10.9	+ 0.0	- 1.9		2014
- 1.8	+ 1.0 - 12.8	+ 7.1 + 2.9	+ 1.4	+ 9.0 + 1.4	- 11.5	- 1.9	- 0.5	- 9.8	+ 0.0	- 1.9	-	2014 2015
+ 0.3	+ 0.5	+ 0.1	- 0.0	+ 0.2	- 1.2	- 1.3	+ 0.1	- 0.6	+ 0.0	- 0.1	-	2016 June
+ 0.3 - 0.0	- 0.2	- 0.5	+ 0.1	- 0.6 + 0.1	- 1.0 - 0.8	- 1.0		- 0.7	+ 0.0 + 0.0	- 0.1	-	July Aug
+ 0.1	- 0.2	+ 0.0	+ 0.0	+ 0.1	- 1.1	- 1.1	- 0.1	- 0.4	+ 0.0	- 0.0	-	Sep
+ 0.1	+ 0.5	- 0.2	- 0.1	- 0.1 - 0.5	- 0.5 - 0.1	- 0.3 + 0.2		- 0.5	+ 0.0 + 0.0	- 0.1 - 0.0	-	Oct Nov
												1 100
securities. 2 IV.12). 3 Excl	uding deposit	s under savin	gs and loan o	contracts (see	also foot-not	e 2). 4 e securitie	Including l s. 5 Included i	iabilities aris n time deposit		non-negotiable	bearer debt	

	nent and local nicipal special					Social securit	y funds					
		Time deposits	; 3					Time deposits	;			
	Sight deposits	for up to and including 1 year	for more than 1 year	Savings deposits and bank savings bonds 2,4	<i>Memo item</i> Fiduciary Ioans	Total	Sight deposits	for up to and including 1 year	for more than 1 year	Savings deposits and bank savings bonds 2	<i>Memo item</i> Fiduciary Ioans	Period
End of ye	ar or mon	th*										
44.9 48.0 52.4	23.5 25.3 29.2	10.7 11.2 9.6	6.6 7.0 8.3	4.1 4.5 5.2	0.4 0.4 0.4	78.7 88.0 91.2		52.7 60.6 60.5	13.5 15.4 17.5		0.0	2013 2014 2015
50.7	27.7	8.6	9.0	5.5	0.4	92.7	15.8	54.8	20.8	1.4	-	2016 June
48.3 54.2 51.3	25.4 30.3 27.5	8.0 8.7 8.5	9.4 9.6 9.8	5.5 5.6 5.6	0.4 0.4 0.4	93.5 92.0 90.2	16.0 14.1 13.6	54.2 54.0 52.4	21.9 22.4 22.6	1.5 1.5 1.6		July Aug Sep
49.3 53.1	25.8 29.0	8.2 8.7	9.8 9.9	5.5 5.6	0.4 0.4	92.3 98.9		52.1 57.7	23.5 24.8			Oct Nov
Changes*												
+ 2.9 + 4.1	+ 1.8 + 3.8	+ 0.4 - 1.5	+ 0.3 + 1.1	+ 0.4 + 0.7	- 0.0 + 0.0	+ 2.9 + 4.0		+ 4.6 + 0.6	+ 0.6 + 1.9	- 0.0 + 0.2	- 0.0	2014 2015
- 2.9	- 2.4	- 0.7	+ 0.1	+ 0.1	-	- 0.4	- 0.7	- 0.5	+ 0.8	+ 0.0	-	2016 June
- 2.5 + 5.9 - 2.9	- 2.3 + 4.9 - 2.7	- 0.6 + 0.7 - 0.2	+ 0.4 + 0.2 + 0.0	+ 0.0 + 0.0 - 0.0	- 0.0 - 0.0	+ 0.8 - 1.7 - 2.0	+ 0.2 - 1.9 - 0.5	- 0.6 - 0.2 - 1.7	+ 1.1 + 0.5 + 0.2	+ 0.1 + 0.0 - 0.0		July Aug Sep
- 2.0 + 3.9	- 1.7 + 3.3	- 0.2 + 0.5	+ 0.0 + 0.1	- 0.0 + 0.0	-	+ 2.1 + 6.6	+ 1.5 - 0.1	- 0.3 + 5.6	+ 0.9 + 1.3	+ 0.0 - 0.2	-	Oct Nov

the following Monthly Report, are not specially marked. **1** Federal Railways Fund, Indemnification Fund, Redemption Fund for Inherited Liabilities, ERP Special Fund, German Unity Fund, Equalisation of Burdens Fund. **2** Including liabilities arising from

non-negotiable bearer debt securities. **3** Including deposits under savings and loan contracts. **4** Excluding deposits under savings and loan contracts (see also footnote 3).

10 Savings deposits and bank savings bonds of banks (MFIs) in Germany sold to non-banks (non-MFIs)*

Savings depo	sits 1								Bank savings	bonds 3 , solo	d to	
	of residents					of non-resi	dents			domestic nor	i-banks	
		at three mo notice	nths'	at more that months' not				Memo item			of which	
Total	Total	Total	<i>of which</i> Special savings facilities 2	Total	<i>of which</i> Special savings facilities 2	Total	<i>of which</i> At three months' notice	Interest credited on savings deposits	non-banks, total	Total	With maturities of more than 2 years	foreign non-bank
End of ye	ar or mon	th*										
620.0 617.0 605.4	610.1 607.8 596.5		413.5 401.4 379.7	77.8 76.4 61.9	65.2 63.3 48.0	9.9 9.2 8.9	7.9 7.4 7.4	7.5	92.2 79.8 64.9	76.6 66.0 56.1		15
597.6 596.8 595.4	589.1 588.4 587.2	534.5 534.6 534.1	367.6 365.4 363.6	54.6 53.8 53.1	40.8 40.0 39.2	8.4 8.4 8.3	7.2 7.2 7.1	0.2 0.1 0.1	61.3 60.7 60.4	52.7 52.2	37.7 37.3	8
594.8 594.3	586.6 586.2	534.3 534.4	362.7 361.4	52.3 51.8	38.5 38.0	8.2 8.1	7.0 6.9		60.0 59.7			8
Changes*												
- 3.0 - 11.6	– 2.4 – 11.3		- 13.0 - 20.6	+ 0.0 - 15.6	- 1.0 - 16.3	- 0.6 - 0.3	- 0.5 + 0.0		- 12.3 - 15.1	– 10.6 – 10.1	- 7.8 - 6.6	
- 1.0 - 0.8 - 1.3	- 0.9 - 0.7 - 1.2	- 0.1 + 0.1 - 0.5	- 1.7 - 2.1 - 1.9	- 0.8 - 0.8 - 0.7	- 0.8 - 0.8 - 0.7	- 0.1 - 0.1 - 0.1	- 0.0 - 0.0 - 0.1		- 0.4 - 0.5 - 0.3	- 0.5 - 0.5 - 0.3	- 0.3 - 0.4 - 0.2	+ (- (- (
- 0.7	- 0.6	+ 0.2	- 0.8	- 0.8	- 0.8 - 0.5	- 0.1	- 0.1		- 0.4	- 0.5	- 0.5	+ (

* See Table IV.2, footnote*; statistical breaks have been eliminated from the changes. The figures for the latest date are always to be regarded as provisional. Subsequent revisions, which appear in the following Monthly Report, are not specially marked. **1** Excluding deposits under savings and loan contracts, which are classified

as time deposits. **2** Savings deposits bearing interest at a rate which exceeds the minimum or basic rate of interest. **3** Including liabilities arising from non-negotiable bearer debt securities.

11 Debt securities and money market paper outstanding of banks (MFIs) in Germany*

Negotiable	e bearer debt	securities ar	ia money m	arket paper						Non-negoti bearer deb securities a	t		
					with matur	rities of				money mar paper 6		Subordinate	d
					up to and includi	ng 1 year	more than and includi	1 year up to ng 2 years			of which		
Total	Floating rate bonds 1	Zero coupon bonds 1,2	Foreign currency bonds 3,4	Certifi- cates of deposit	Total	of which without a nominal guarantee 5	Total	of which without a nominal guarantee 5	more than 2 years	Total	with maturities of more than 2 years	negotiable debt securities	non- negotiable debt securities
End of	year or m	onth*											
1,142. 1,114. 1,075.	2 286.4	26.3 26.3 30.2	354.0	54.8 69.2 88.7	69.0 83.6 109.8	1.8	34.7 26.3 28.4	4.4 5.0 5.7	1,039.0 1,004.3 937.5	0.6 1.0 0.3	0.2 0.2 0.2		1.1 1.2 0.5
1,079. 1,083. 1,086.	.0 174.5 .2 173.3	30.6 29.7 32.5	387.9 393.3 398.2	92.6 94.4 100.1	114.1 115.7 125.2	4.0 4.1 5.0	33.8 33.7 35.5	6.2 6.3 5.9	931.1 933.7 925.7	0.4 0.4 0.3	0.2 0.2 0.2	34.0 33.6 33.4	0.9 9.0 9.0
1,093. 1,104.				97.2 91.3	121.0 113.7		36.6 37.7	6.0 6.3	935.5 953.2	0.2 0.4	0.2 0.2	33.3 33.5	0.5
Change	es*												
- 28. - 38.		+ 0.0 + 3.9	+ 32.7 + 30.1	+ 14.4 + 19.5	+ 14.6 + 26.2	- 0.7 + 0.3	- 8.4 + 2.1	+ 0.6 + 0.7	- 35.0 - 66.8	+ 0.4 - 0.8	- 0.0 + 0.0		+ 0.2 - 0.7
- 12. + 4. + 3.	2 – 1.2	- 1.7 - 1.0 + 2.8	- 8.9 + 5.4 + 4.9	- 5.4 + 1.8 + 5.7	- 5.6 + 1.7 + 9.5	+ 1.5 + 0.1 + 0.8	+ 1.7 - 0.0 + 1.8	+ 0.3 + 0.1 - 0.3	- 8.6 + 2.6 - 8.0	+ 0.2 + 0.0 - 0.0	+ 0.0 - 0.0 - 0.0		- 0.0 - + 0.0
+ 6. + 11.		- 2.8	+ 5.9	- 2.9 - 5.8	- 4.2	+ 0.0 + 0.1	+ 1.0	+ 0.1 + 0.3	+ 9.8	- 0.2 + 0.2	- 0.0		

* See Table IV.2, footnote*; statistical breaks have been eliminated from the changes. The figures for the latest date are always to be regarded as provisional. Subsequent revisions, which appear in the following Monthly Report, are not specially marked.
 1 Including debt securities denominated in foreign currencies.
 2 Issue value when floated.
 3 Including floating rate notes and zero

coupon bonds denominated in foreign currencies. **4** Bonds denominated in non-euro-area currencies. **5** Negotiable bearer debt securities respectively money market paper with a nominal guarantee of less than 100%. **6** Non-negotiable bearer debt securities are classified among bank savings bonds (see also Table IV.10, footnote 2).

Period

2013 2014 2015 2016 July Aug Sep Oct Nov

2014 2015 2016 July Aug Sep Oct Nov

2013 2014 2015 2016 July Aug Sep

> Oct Nov

Oct Nov

Period

2014 2015 2016 July Aug Sep

12 Building and loan associations (MFIs) in Germany *) Interim statements

	€ billion	l														
			Lending to	banks (MF	ls)	Lending to	non-banks	s (non-MFIs)	Deposits o	of banks	Deposits c				
			Credit			Building lo	ans		Secur-	(MFIs) 5		banks (noi	n-IVIFIS)	1		Memo
			bal- ances						ities (in- cluding					Bearer		<i>item</i> New
	Num-		and Ioans			Loans under			Treasury	Deposits under		Deposits under		debt secur-	Capital (includ-	con- tracts
	ber		(ex-		Bank	savings	Interim		and	savings		savings		ities	ing pub-	entered
End of	of associ-	Balance sheet	cluding building	Building	debt secur-	and loan con-	and bridging	Other building	Treasury discount	and loan con-	Sight and time	and loan con-	Sight and time de-	out- stand-	lished re-	into in year or
year/month	ations	total 13	loans) 1	loans 2	ities 3	tracts	loans	loans	paper) 4	tracts	deposits	tracts	posits 6	ing	serves) 7	month 8
	All b	uilding	and loa	in asso	ciations											
2014	21	211.6		0.0	16.6	18.7	87.2	17.3		1.9		156.8		2.8	9.2	94.6
2015	21	213.6	43.1	0.0	17.5	15.8	93.4	17.5	21.4	2.0	21.3	159.2	5.3	2.4	9.9	98.5
2016 Sep	20	215.1	41.1	0.0	17.0	14.3	97.1	17.9	22.8	2.2	19.0	160.9	5.6	2.6	10.2	7.0
Oct Nov	20 20		41.5	0.0	16.9 16.8	14.2 14.0	97.2 97.5	18.1 18.2	22.9 23.4	2.3 2.5	19.2 19.0	161.0 161.4	5.6 5.6	2.6 2.0	10.2 10.2	7.0 7.3
NOV							97.5	10.2	25.4	1 2.5	1 19.0	1 101.4	1 5.0	1 2.0	1 10.2	1.5
	Privat	le build	ing and	i ioan a	associati	ions										
2016 Sep	12			-	8.6	10.6	75.5	15.3								4.4
Oct	12		25.9	-	8.4	10.6 10.5	75.5	15.4	9.8	1.5	16.7	105.6		2.6	6.6	4.4
Nov	12		-		8.2		75.6	15.5	10.2	1.7	16.5	105.8	5.3	2.0	6.6	4./
	Public	c buildii	ng and	loan a	ssociatio	ons										
2016 Sep	8		15.7	0.0	8.5	3.7	21.7	2.6				55.3		-	3.6	2.5
Oct Nov	8		15.6 15.7	0.0 0.0	8.5 8.6	3.6 3.5	21.8 21.9	2.7 2.7	13.1 13.2	0.8 0.8	2.5 2.6	55.4 55.6	0.4	-	3.6 3.6	2.6 2.5

Trends in building and loan association business

	€ billion															
	Changes i			Capital pro	omised	Capital disb	ursed					Disburse		Interest an		
	under savi loan contr						Allocation	s				commitm outstand end of pe	ing at	repayment received o building lo	n	
		Interest	Repay- ments of				Deposits u savings an loan contr	d	Loans und savings an loan contr	d	Newly granted			building lo		
Period	Amounts paid into savings and loan ac- counts 9	credited on deposits under savings and loan con- tracts	deposits under cancelled savings and loan con- tracts	Total	of which Net alloca- tions 11	Total	Total	of which Applied to settle- ment of interim and bridging loans	Total	of which Applied to settle- ment of interim and bridging loans	interim and bridging loans and other building loans	Total	of which Under alloc- ated con- tracts	Total	of which Repay- ments during quarter	Memo item Housing bonuses re- ceived 12
	All bui	lding a	nd loan	associa	ations											
		5					_	_	_				_	_		.
2014	29.5	2.5			27.9	39.9		4.2		3.6		14.5				
2015	28.1			51.5	31.2	44.4	19.9	4.2	5.3			15.6	8.1	9.5	8.3	0.4
2016 Sep	2.3	0.0		3.4	1.9	3.3	1.3	0.3	0.3		1.7	15.7	8.1		1.8	0.0
Oct Nov	2.0 2.3			3.9 4.0	2.3 2.0	3.3 3.2	1.4 1.3	0.4	0.4	0.3		15.9 16.3	8.2 8.1			0.0 0.0
1407		buildin					1.5	0.4	0.4	0.5	1.5	1 10.5	0.1	0.0	1	0.0
2016 Sep	1.5					2.5	0.9	0.2				11.3			1.3	
Oct Nov	1.3				1.7 1.4	2.6 2.5	1.1 1.0	0.3	0.3			11.4 11.8	5.1 5.0			0.0
1107		building					1.0	0.5	0.5	0.5	1 1.2	1 11.0	1 5.0	0.4	1	0.0
			-													
2016 Sep	0.8						0.4					4.5			0.5	0.0
Oct Nov	0.8			0.9	0.6 0.6	0.7 0.7	0.3 0.3	0.1	0.1	0.1	0.3	4.5 4.5	3.1 3.1	0.2		0.0 0.0

* Excluding assets and liabilities and/or transactions of foreign branches. The figures for the latest date are always to be regarded as provisional. Subsequent revisions, which appear in the following Monthly Report, are not specially marked. 1 Including claims on building and Ioan associations, claims arising from registered debt securities and central bank credit balances. 2 Loans under savings and Ioan contracts and interim and bridging Ioans. 3 Including money market paper and small amounts of other securities issued by banks. 4 Including equalisation claims. 5 Including liabilities to building and Ioan associations. 6 Including small amounts of savings deposits. 7 Including participation rights capital and fund for general banking risks.

8 Total amount covered by the contracts; only contracts newly entered into, for which the contract fee has been fully paid. Increases in the sum contracted count as new contracts. **9** For disbursements of deposits under savings and loan contracts arising from the allocation of contracts see "Capital disbursed". **10** Including housing bonuses credited. **11** Only allocations accepted by the beneficiaries; including allocations applied to settlement of interim and bridging loans. **12** The amounts already credited to the accounts of savers or borrowers are also included in "Amounts paid into savings and loan accounts" and "Interest and repayments received on building loans". **13** See Table IV.2, footnote 1.

13 Assets and liabilities of the foreign branches and foreign subsidiaries of German banks (MFIs) *

	€ billion														
	Number of			Lending to	banks (MFIs	5)			Lending to	non-banks	(non-MFIs)			Other asset	's 7
Period	German banks (MFIs) with foreign branches and/or foreign subsi- diaries	foreign branches 1 and/or foreign subsi- diaries	Balance sheet total 7	Total	Credit balar	German banks	Foreign banks	Money market paper, secur- ities 2,3	Total	Loans	to German non- banks	to foreign non- banks	Money market paper, secur- ities 2	Total	of which Derivative financial instruments in the trading portfolio
1 chou	<u> </u>	branch		Total	Total	Danks	Dariks	nics -/-	Total	Iotai	Dariks	banks		year or	<u>. </u>
2013 2014 2015 2016 Jan Feb Mar Apr May June July Aug Sep	56 56 51 50 49 49 49 49 49 49 50 50 50	209 205 198 196 192 192 192 187 188 187 187 187	1,726.4 1,926.2 1,842.9 1,960.5 2,022.6 1,943.8 1,933.2 1,930.1 2,036.5 2,060.2 1,959.7 1,916.6	548.8 526.0 540.7 555.3 558.9 545.0 563.9 569.2 587.5 569.3 595.9	421.9 532.2 508.7 523.3 538.2 543.2 543.2 543.2 543.2 543.2 543.5 572.6 553.9 551.3 572.6	141.6 201.2 161.3 169.1 173.5 172.4 177.2 176.4 182.3 183.1 187.9 200.4	280.3 331.0 347.5 364.7 370.8 351.8 372.5 371.2 389.6 366.0 380.9 380.9	13.7 16.5 17.3 17.4 17.2 15.7 15.9 15.0 15.6 14.9 15.4 14.6	593.5 635.1 652.2 658.4 642.2 659.8 642.5 674.8 668.3 643.3 643.3 629.3	411.3 473.1 511.6 529.7 538.2 529.2 545.1 529.8 556.9 551.7 528.5 524.9	14.0 14.0 14.2 14.3 14.6 14.7 13.6 14.1 13.6 13.9 14.3	459.1 497.6 515.5 523.9 514.6 530.4 516.3 542.8 538.1 514.6 510.6	108.3 120.5 123.6 120.2 113.1 114.7 112.7 117.9 116.5 114.7 104.4	771.1 783.8 681.8 767.5 808.8 742.6 728.4 723.7 792.5 804.5 747.1 691.4	485.6 551.9 499.0 568.7 607.9 557.5 539.0 519.2 593.8 590.3 544.6 511.1
Oct	50	186	1,942.2	626.9	613.0	212.4	400.6	13.9	599.9	496.1	13.3	482.8	103.7		
2014 2015 2016 Feb Mar Apr May June July Aug Sep Oct	- 5 - 1 - 1 + 1 + 1 - - -	- 4 - 7 - 4 - 5 + 1 - 1 - 1 - 1 - 1	- 145.0 + 61.6 - 75.2 - 10.9 - 4.7 + 105.9 + 24.0 - 100.4 - 42.9	+ 74.4 - 56.3 + 13.6 + 14.9 - 14.2 + 13.3 + 4.4 + 18.7 - 17.6 + 27.4 + 26.9	+ 72.2 - 56.0 + 13.8 + 16.0 - 14.4 + 14.4 + 3.8 + 19.4 - 18.2 + 28.1 + 27.7	+ 59.6 - 40.0 + 4.4 - 1.0 + 4.8 - 0.9 + 5.9 + 0.7 + 4.9 + 12.5 + 11.9	+ 12.6 - 16.0 + 9.5 + 17.0 - 19.2 + 15.3 - 2.2 + 18.7 - 23.0 + 15.6 + 15.8	+ 2.2 - 0.3 - 0.3 - 1.1 + 0.2 - 1.1 + 0.6 - 0.7 + 0.5 - 0.7 - 0.8	+ 38.0 + 4.5 + 5.1 - 1.0 + 15.9 - 25.5 + 33.6 - 4.5 - 24.1 - 12.8 - 32.2	+ 31.4 + 7.0 + 7.4 + 4.0 + 14.4 - 22.3 + 27.7 - 3.5 - 22.5 - 2.7 - 31.4	$\begin{array}{c} + & 3.0 \\ + & 0.0 \\ + & 0.1 \\ + & 0.3 \\ + & 0.2 \\ - & 1.2 \\ + & 0.5 \\ - & 0.4 \\ + & 0.3 \\ + & 0.4 \\ - & 0.9 \end{array}$	+ 28.4 + 7.0 + 7.3 + 14.3 - 21.1 + 27.2 - 3.1 - 22.7 - 3.1 - 30.5	- 2.6 - 2.3 - 5.0 + 1.4 - 3.2 + 5.9 - 1.0 - 1.7 - 10.1	+ 7.5 - 109.0 + 40.7 - 62.5 - 14.5 - 6.4 + 68.4 + 12.2 - 57.2 - 55.6	- 58.2 + 38.8 - 39.6 - 18.8 - 24.9 + 75.4 - 2.6 - 45.2 - 32.4
	Foreign	subsidi	aries										End of	year or	month *
2013 2014 2015 2016 Jan Feb Mar Apr May June July Aug Sep Oct	33 28 24 24 24 24 24 24 24 24 19 19 19	75 63 58 58 58 58 58 58 57 57 57 56 55 53 53	425.2 389.4 376.0 359.4 352.2 349.7 350.4 356.9 355.3 352.7 320.9 316.6	154.5 126.5 129.1 120.7 113.6 116.3 115.3 117.7 116.3 112.4 84.2	158.7 137.9 113.5 108.5 108.5 102.1 104.9 103.9 107.5 106.2 102.3 74.1 71.3	91.4 83.4 50.1 53.7 47.9 48.9 49.0 52.9 51.8 48.0 20.9 20.5	54.5 63.4 62.7 57.9 54.2 56.0 54.9 54.6 54.5 54.3 53.2	29.2 16.7 13.0 12.7 12.2 11.5 11.4 11.4 10.2 10.1 10.0 10.0 10.1	170.5 170.3 167.7 168.0	148.3 141.2 152.5 152.9 141.8 140.6 137.4 138.2 138.0 137.4 135.4 135.7 126.3	26.1 21.6 22.2 21.7 22.3 22.6 23.0 22.9 22.9 23.7 23.0 23.2 23.2 23.2 22.9	119.5 130.3 131.1 119.6 118.1 114.4 115.3 115.1 113.7 112.3 112.6		62.2 65.1 61.3 64.6 65.2 63.7 64.5 68.7 72.6 68.7 72.6 68.7 77.3	
2014 2015 2016 Feb Mar Apr May June July Aug Sep Oct	- 5 - 4 - - - - 5 - - -	- 12 - 5 - - - 1 - 1 - 1 - 2	- 23.9 - 16.4 - 3.7 - 2.5 - 1.1 + 6.7 - 1.4 - 2.3 - 31.5	- 39.9 - 33.3 - 8.5 - 5.2 + 2.7 - 2.0 + 2.4 - 1.2 - 3.8 - 28.0 - 3.6	- 26.3 - 28.7 - 8.0 - 4.8 + 2.8 - 1.8 + 3.6 - 1.2 - 3.8 - 28.0 - 3.5	- 8.0 - 33.3 - 3.1 - 2.7 + 1.0 + 0.1 + 3.9 - 1.2 - 3.8 - 27.0 - 0.5	- 18.2 + 4.6 - 5.0 - 2.1 + 1.8 - 1.9 - 0.3 - 0.0 + 0.0 - 1.0 - 3.0	- 4.6 - 0.5 - 0.4 - 0.1 - 0.2 - 1.3 - 0.1 - 0.0 - 0.0	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	$\begin{vmatrix} - & 11.4 \\ + & 6.2 \\ - & 11.2 \\ + & 0.4 \\ - & 3.3 \\ + & 0.0 \\ - & 0.1 \\ - & 0.5 \\ - & 1.9 \\ + & 0.4 \\ - & 9.8 \end{vmatrix}$	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	

* In this table "foreign" also includes the country of domicile of the foreign branches and foreign subsidiaries. Statistical revisions have been eliminated from the changes. (Breaks owing to changes in the reporting population have not been eliminated from the flow figures for the foreign subsidiaries.) The figures for the latest date are always to be regarded as provisional; subsequent revisions, which appear in the following Monthly Report, are not specially marked. **1** Several branches in a given

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IV Banks

													Other liab	lities 6,7		
	of banks (M	Fls)		of non-bank	s (non-N	/IFIs)										
		German	Foreign		German	ı non-b	anks 4 Short-		Medium and long-	Foreign	Money market paper and debt securities out- stand-	Working capital and own		of which Derivativa financial instrumen in the trading		
	Total	banks	banks	Total	Total		term		term	non-banks	ing 5	funds	Total	portfolio		Period
End of yea	ar or mo	nth *											For	eign bran	ches	
890.9 1,046.7 1,060.9	596.4 739.9 715.3	327.0 416.2 359.3	269.4 323.7 356.0	294.5 306.8 345.6		24.2 20.6 21.1		19.1 16.1 16.2	5.1 4.4 4.9	270.3 286.2 324.6	125.4 128.4 128.9	41.2 45.2 49.9		3.9 5.8 3.1	484.1 557.5 497.4	2013 2014 2015
1,101.8 1,105.0 1,083.8	733.9 734.8 714.8	357.8 368.7 344.5	376.1 366.1 370.3	367.9 370.3 369.0		21.3 22.1 23.6		16.6 17.4 19.5	4.8 4.7 4.1	346.5 348.2 345.4	129.4 127.7 121.3	50.0 49.7 49.4	67 74 68	D.1	566.3 605.7 559.2	2016 Jan Feb Mar
1,108.9 1,130.1 1,154.9	719.0 746.9 762.2	348.0 358.9 386.5	371.0 388.0 375.6	389.9 383.2 392.8		21.5 20.7 21.3		17.4 17.2 17.8	4.1 3.6 3.5	368.5 362.5 371.5	117.7 111.0 104.9	49.4 49.7 49.8	65 63 72	9.4	541.5 523.0 596.8	Apr May June
1,163.1 1,128.2 1,117.2	772.6 760.8 763.1	388.8 382.8 380.6	383.8 378.1 382.5	390.5 367.4 354.1		21.3 21.6 21.5		17.5 17.7 17.7	3.8 3.8 3.8		108.5 114.7 113.7	49.8 49.8 49.7	73 66 63	7.0	593.8 548.8 513.9	July Aug Sep
1,186.7	833.2	422.0	411.2	353.4		21.6		17.8	3.8	331.9	108.9	49.6	59	7.0	491.1	Oct
Changes *	r -															
+ 101.5 - 30.8	+112.9 - 53.8	+ 89.2 - 57.0	+ 23.6 + 3.2	- 11.4 + 23.0	- +	3.7 0.5	-+	3.0 0.0	- 0.7 + 0.4	- 7.7 + 22.5	+ 3.0 - 2.1	+ 4.0 + 4.7	+ 1	1.1 + 4.1 -	73.4 65.8	2014 2015
+ 2.0 - 9.5	- 0.4 - 8.6	+ 10.9 - 24.2	- 11.3 + 15.5	+ 2.4 - 0.9	+ +	0.8 1.5	+ +	0.8 2.1	- 0.0 - 0.7	+ 1.6 - 2.3	- 2.2 - 2.7	- 0.3 - 0.3	- 5).9 +).9 -	39.1 34.9	2016 Feb Mar
+ 24.6 + 15.1 + 24.0	+ 3.7 + 22.0 + 14.3	+ 3.5 + 10.9 + 27.6	+ 0.2 + 11.1 - 13.2	+ 20.9 - 6.9 + 9.6	- - +	2.1 0.7 0.6	- - +	2.1 0.2 0.7	- 0.0 - 0.5 - 0.1	+ 23.0 - 6.2 + 9.1	- 4.0 - 8.3 - 6.5	$ \begin{array}{rrrr} - & 0.0 \\ + & 0.3 \\ + & 0.0 \end{array} $	- 1	2.0 – 7.9 – 7.5 +	18.0 23.8 74.4	Apr May June
+ 9.0 - 34.3 - 10.3	+ 11.2 - 11.2 + 3.0	+ 2.2 - 6.0 - 2.1	+ 8.9 - 5.2 + 5.1	- 2.2 - 23.2 - 13.2	+ + -	0.0 0.2 0.1	- + -	0.3 0.2 0.0	+ 0.4 + 0.0 - 0.0	- 2.2 - 23.4 - 13.2	+ 3.8 + 6.4 - 0.9	+ 0.0 + 0.1 - 0.2	- 7 - 3	2.0 – 1.9 – 0.9 –	2.1 44.4 33.9	July Aug Sep
+ 65.3	+ 66.1	+ 41.4	+ 24.7	- 0.7	+	0.1	+	0.1	- 0.1	- 0.8	- 5.5	- 0.0		9.1 -	25.5	Oct
End of yea			1 07 7	122.0		10 5		16 4	2.0	1140	L 212	1 20.0		n subsidi	aries	2013
334.2 297.1 292.3	201.1 173.6 166.7	113.4 101.1 99.6	72.5 67.1	133.0 123.5 125.7		18.5 20.3 13.1		16.4 14.5 10.5	2.0 5.8 2.6	103.2 112.6	21.3 18.4 14.4	25.9 26.3	4:	9.8 3.0 2.9	-	2014 2015
294.1 282.1 275.0	170.0 157.1 160.5	101.9 99.1 100.5	68.1 58.0 59.9	124.1 125.0 114.5		11.9 13.2 13.4		9.4 10.5 10.5	2.6 2.8 2.9	112.2 111.8 101.1	14.5 12.9 13.3	26.4 24.3 24.2	4	0.6 0.1 9.6		2016 Jan Feb Mar
274.5 275.9 284.5	161.1 164.2 163.7	102.8 103.6 101.1	58.3 60.6 62.6	113.4 111.8 120.8		13.8 12.7 12.1		10.9 9.9 9.3	2.9 2.8 2.7	99.6 99.1 108.7	13.5 13.3 12.3	24.2 24.3 24.0	3	7.5 5.8 5.1		Apr May June
282.4 281.4 248.4	162.9 167.7 136.3	98.9 99.9 72.9	64.1 67.8 63.3	119.4 113.7 112.2		11.5 11.0 11.2		8.7 6.3 6.4	2.7 4.8 4.7	108.0 102.7 101.0	12.5 12.4 12.5	24.4 24.4 23.8	3.	5.0 4.5 5.2		July Aug Sep
243.7	140.6	76.3	64.3	103.1		10.8		6.3	4.5	92.3	12.7	23.9	3	5.3	-	Oct
Changes *		13.5	1 20.4	1 43 4	I .	1.0	I	1.0	,	1 440	1 20	1 40		. 0		2014
- 45.5 - 12.3	- 32.4 - 11.2	- 12.3 - 1.5	- 20.1 - 9.7	- 13.1 - 1.1	+ -	1.8 7.2	-	1.9 4.0	+ 3.8 - 3.2	+ 6.1	- 3.0 - 4.0	- 4.0 + 0.4	- '	5.8 7.9	-	2014 2015
- 12.1 - 4.2	- 12.9 + 4.8	- 2.8 + 1.4	- 10.1 + 3.4	+ 0.9 - 9.0	++	1.3 0.2	+ -	1.1 0.0	+ 0.2 + 0.2	- 0.5 - 9.2	- 1.6 + 0.4	- 2.1 - 0.1).7).2	-	2016 Feb Mar
- 0.5 - 0.1	+ 0.6 + 2.2	+ 2.3 + 0.8	- 1.7 + 1.4	- 1.1 - 2.3	+ -	0.4 1.1	+ -	0.4 1.0	+ 0.0 - 0.1	- 1.5	+ 0.2 - 0.2	- 0.1 + 0.1		2.1	-	Apr May
+ 8.8	- 0.4	- 2.5	+ 2.1	+ 9.2	-	0.6 0.6	-	0.6 0.6	- 0.1	+ 9.8	- 1.0 + 0.2	- 0.3		D.7 D.1	-	June
- 2.0 - 0.8 - 32.7	- 0.7 + 4.9 - 31.3	+ 1.0 - 27.0	+ 1.5 + 3.8 - 4.3	- 1.2 - 5.7 - 1.4	- - +	0.8 0.4 0.2	- +	0.8 2.4 0.2	+ 0.0 + 2.0 - 0.0	- 5.2	+ 0.2 - 0.1 + 0.2	+ 0.4 - 0.0 - 0.6	-	1.3 1.6	-	July Aug Sep
- 5.8	+ 3.7	+ 3.4		- 9.4	- ·	0.4	-	0.1	- 0.3		+ 0.2			0.2	-	Oct

country of domicile are regarded as a single branch. **2** Treasury bills, Treasury discount paper and other money market paper, debt securities. **3** Including own debt securities. **4** Excluding subordinated liabilities and non-negotiable debt

securities. **5** Issues of negotiable and non-negotiable debt securities and money market paper. **6** Including subordinated liabilities. **7** See also Table IV.2, footnote 1.

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V Minimum reserves

1 Reserve maintenance in the euro area

€ billion

Maintenance period beginning in 1	Reserve base 2	Required reserves before deduction of lump-sum allowance 3	Required reserves after deduction of lump-sum allowance 4	Current accounts 5	Excess reserves 6	Deficiencies 7
2010	10,559.5	211.2	210.7	212.4	1.7	0.0
2011	10,376.3	207.5	207.0	212.3	5.3	0.0
2012	10,648.6	106.5	106.0	489.0	383.0	0.0
2013	10,385.9	103.9	103.4	248.1	144.8	0.0
2014	10,677.3	106.8	106.3	236.3	130.1	0.0
2015	11,375.0	113.8	113.3	557.1	443.8	0.0
2016 Sep	11,821.2	118.2	117.8	777.4	659.6	0.0
Oct	11,783.5	117.8	117.4	823.9	706.5	0.0
Nov						
Dec P	11,918.5	119.2	118.8			

2 Reserve maintenance in Germany

€ million

Maintenance period beginning in 1	Reserve base 2	euro-area reserve base		Required reserves after deduction of lump-sum allowance 4	Current accounts ⁵	Excess reserves 6	Deficiencies 7
2010	2,530,997	24.0	50,620	50,435	51,336	901	0
2011	2,666,422	25.7	53,328	53,145	54,460	1,315	1
2012	2,874,716	27.0	28,747	28,567	158,174	129,607	1
2013	2,743,933	26.4	27,439	27,262	75,062	47,800	2
2014	2,876,931	26.9	28,769	28,595	75,339	46,744	4
2015	3,137,353	27.6	31,374	31,202	174,361	143,159	0
2016 Sep	3,280,948	27.8	32,809	32,643	243,561	210,918	0
Oct	3,293,872	28.0	32,939	32,773	270,048	237,275	0
Nov							
Dec P	3,371,095	28.3	33,711	33,546			

(a) Required reserves of individual categories of banks

€ million

Maintenance period beginning in 1	Big banks	Regional banks and other commercial banks	Branches of foreign banks	Landesbanken and savings banks	Credit cooperatives		Banks with special, development and other central support tasks
2010	10,633	7,949	1,845	18,128	9,153	556	2,170
2011	10,459	8,992	3,078	18,253	9,437	601	2,324
2012 3	5,388	4,696	2,477	9,626	4,886	248	1,247
2013	5,189	4,705	1,437	9,306	5,123	239	1,263
2014	5,593	4,966	1,507	9,626	5,375	216	1,312
2015	6,105	5,199	2,012	10,432	5,649	226	1,578
2016 Sep	6,076	5,556	2,483	10,847	5,897	236	1,548
Oct	6,078	5,447	2,665	10,869	5,924	233	1,558
Nov							
Dec	6,384	5,390	2,812	10,905	5,960	236	1,859

(b) Reserve base by subcategories of liabilities

€ million Liabilities arising from bearer debt securities issued with agreed matu-Liabilities (excluding repos and Liabilities (excluding savings deposits, deposits with builddeposits with building and loan associations) with agreed maturities of up to 2 years to MFIs that are resident in euro-area countries but rities of up to 2 years and bearer money market paper after deduction Liabilities (excluding repos and ing and loan associations and repos) to non-MFIs with deposits with building and loan associations) with agreed of a standard amount for bearer debt certificates or deduction of such Maintenance Savings deposits with agreed period beginning in **1** not subject to minimum reserve requirements maturities of up to 2 years to banks in non-euro-area countries periods of notice of up to 2 years paper held by the reporting institution agreed maturities of up to 2 years 105,728 102,153 94,453 2010 344.440 1,484,334 2.376 594,119 2011 2012 3,298 2,451 354,235 440,306 596,833 602,834 1,609,904 1,734,716 2013 2014 2,213 255,006 90,159 86,740 1,795,844 600,702 601,390 592,110 587,510 1,904,200 2015 2,063,317 1,879 375,891 418,510 104,146 2016 Sep Oct 104.297 2.168.562 2.072 2,177,643 3,232 420,700 586,867 105,447 Nov 2,203,100 1,595 447,524 585,099 133,776 Dec

1 The reserve maintenance period starts on the settlement day of the main refinancing operation immediately following the meeting of the Governing Council of the ECB for which the discussion on the monetary policy stance is scheduled. 2 Article 3 of the Regulation of the European Central Bank on the application of minimum reserves (excluding liabilities to which a reserve ratio of 0% applies, pursuant to Article 4 (1)). 3 Amount after applying the reserve ratio to the reserve base. The reserve ratio for liabilities with agreed maturities of up to two years was

2% between 1 January 1999 and 17 January 2012. Since 18 January 2012, it was stood at 1%. **4** Article 5 (2) of the Regulation of the European Central Bank on the application of minimum reserves. **5** Average credit balances of credit institutions at national central banks. **6** Average credit balances less required reserves after deduction of the lump-sum allowance. **7** Required reserves after deduction of the lump-sum allowance.

1 ECB interest rates

2 Base rates

% per anni	um											% per ar	num				
			Main refir operation						Main refir operation					Base			Base
Applicable from		Deposit facility	Fixed rate	Minimum bid rate	Mar- ginal lending facility	Applicable from		Deposit facility	Fixed rate	Minimum bid rate	Mar- ginal lending facility	Applicab from	e	rate as per Civil Code 1	Applicable from		rate as per Civil Code 1
2005 Dec	6	1.25	-	2.25	3.25	2011 Apr July	13 13	0.50	1.25 1.50	-	2.00 2.25	2002 Jan Jul		2.57 2.47	2009 Jan July	1	1.62 0.12
2006 Mar	8	1.50	-	2.50	3.50	Nov	9	0.50	1.25		2.00				· ·	'	
June Aug	15 9	1.75	_	2.75 3.00	3.75 4.00	Dez	14	0.25	1.00	-	1.75	2003 Jan Jul		1.97	2011 July	1	0.37
Oct Dec	11 13	2.25	_	3.25	4.25	2012 July	11	0.00	0.75	-	1.50	2004 Jan		1.14	2012 Jan	1	0.12
						2013 May		0.00	0.50	-	1.00	July			2013 Jan	1	-0.13
2007 Mar June		2.75 3.00	-	3.75 4.00	4.75 5.00		13	0.00	0.25	-	0.75	2005 Jan		1.21	July	I	-0.38
2008 July	9	3.25	-	4.25	5.25	2014 June Sep	11 10	-0.10	0.15	-	0.40 0.30	Jul	/ 1	1.17	2014 Jan July	1 1	-0.63
Oct	8	2.75		3.75	4.75	· ·	0					2006 Jan		1.37			
Oct Nov	9 12	3.25 2.75	3.75 3.25	_	4.25 3.75	2015 Dec	9	-0.30	0.05	-	0.30	Jul	/ 1	1.95	2015 Jan	1	-0.83
Dec	10	2.00	2.50	-	3.00	2016 Mar	16	-0.40	0.00	-	0.25	2007 Jan Jul		2.70 3.19	2016 July	1	-0.88
2009 Jan	21	1.00	2.00	-	3.00												
Mar Apr May	11 8 13	0.50 0.25 0.25	1.50 1.25 1.00	-	2.50 2.25 1.75							2008 Jar Jul		3.32 3.19			

1 Pursuant to section 247 of the Civil Code.

3 Eurosystem monetary policy operations allotted through tenders *

				Fixed rate tenders	Variable rate tenders			
		Bid	Allotment		Minimum		Weighted	
Data of		amount	amount	Fixed rate	bid rate	Marginal rate 1	average rate	Duranian fan
Date of settlement		€ million		% per annum				Running for days
		Main refinancing	operations					
		36,822	36,822	0.00			-	7
	21 28	32,877	32,877	0.00 0.00	-		-	7
		39,131	39,131		-	-	-	/
2017 Jan	4	34,006	34,006	0.00			-	7
Jan Jan	11 18	32,319 32,330	32,319 32,330	0.00 0.00				
5411				0.00	-		-	' 'I
		Long-term refinar	ncing operations					
2016 Sep	29	4,570	4,570	2 0,00	-		-	84
Oct	27	5,427	5,427	2	-		-	91
Dec	1	3,270	3,270	2	-		-	84
Dec	21	62,161	62,161	0,00		-		1,456
Dec	22	2,671	2,671	2		- 1	- 1	98

 \star Source: ECB. 1 Lowest or highest interest rate at which funds were allotted or collected. 2 Interest payment on the maturity date; the rate will be fixed at the

average minimum bid rate of the main refinancing operations over the life of this operation.

4 Money market rates, by month *

% per annum EURIBOR 2 Monthly average EONIA 1 One-week funds One-month funds Three-month funds Six-month funds Nine-month funds Twelve-month funds 2016 June - 0.33 - 0.37 - 0.36 - 0.27 - 0.16 - 0.10 - 0.03 - 0.38 - 0.38 - 0.38 - 0.37 - 0.37 - 0.37 - 0.19 - 0.19 - 0.20 - 0.12 - 0.12 - 0.13 - 0.33 - 0.34 - 0.29 - 0.30 - 0.06 - 0.05 July Aug Sep - 0.34 - 0.30 - 0.06 Oct Nov Dec - 0.35 - 0.35 - 0.35 - 0.38 - 0.38 - 0.38 - 0.37 - 0.37 - 0.37 - 0.31 - 0.31 - 0.32 - 0.21 - 0.21 - 0.22 - 0.13 - 0.13 - 0.14 - 0.07 - 0.07 - 0.08

* Averages are Bundesbank calculations. Neither the Deutsche Bundesbank nor anyone else can be held liable for any irregularity or inaccuracy of the EONIA rate and the EURIBOR rate. **1** Euro OverNight Index Average: weighted average overnight rate for interbank operations calculated by the European Central Bank since 4 January 1999 on the basis of real turnover according to the act/360 method and published via Reuters. **2** Euro Interbank Offered Rate: unweighted average rate calculated by Reuters since 30 December 1998 according to the act/360 method.

End of month 2015 Nov Dec 2016 Jan Feb Mar Apr May Juny Aug Sep Oct Nov

End of month 2015 Nov Dec 2016 Jan Feb Mar Apr May June July Aug Sep Oct Nov

VI Interest rates

5 Interest rates and volumes for outstanding amounts and new business of German banks (MFIs) * (a) Outstanding amounts $^{\circ}$

Households' deposits				Non-financial corpora	ations' deposits		
with an agreed matur	rity of						
up to 2 years		over 2 years		up to 2 years		over 2 years	
Effective interest rate 1 % pa	Volume 2 € million	Effective interest rate 1 % pa	Volume 2 € million	Effective interest rate 1 % pa	Volume 2 € million	Effective interest rate 1 % pa	Volume 2 € million
0.48 0.46	77,788 77,515		219,914 221,625	0.24 0.22	76,639 79,591	2.09 2.04	17,194 17,364
0.45 0.44 0.44	76,746 75,932 76,809	1.62	221,432 221,154 221,229	0.22 0.21 0.20	79,489 80,142 82,706	2.00 2.00 1.95	17,335 17,271 17,573
0.44 0.43 0.42	77,166 77,295 77,303	1.58	220,954 220,985 220,707	0.19 0.19 0.16	83,708 80,922 78,910	1.92 1.86 1.80	17,490 18,025 18,063
0.41 0.41 0.40	77,112 75,607 75,235	1.53	219,660 219,332 219,354	0.14 0.14 0.12	80,553 79,332 83,015	1.76 1.72 1.65	18,143 18,124 18,371
0.40 0.39			218,836 218,016	0.13 0.10	80,349 83,090	1.60 1.56	18,507 19,037

	Housing loans	s to household	s 3				Loans for con	sumption and o	ther purposes	to households 4	1, 5	
	with a maturi	ty of										
	up to 1 year 6	5	over 1 year ar up to 5 years		over 5 years		up to 1 year 6	i	over 1 year ar up to 5 years	nd	over 5 years	
			Effective interest rate 1 % pa	Volume 2 € million	Effective interest rate 1 % pa	Volume 2 € million	Effective interest rate 1 % pa	Volume 2 € million	Effective interest rate 1 % pa	Volume 2 € million	Effective interest rate 1 % pa	Volume 2 € million
/	2.61 2.62	5,139 5,029	2.38 2.36	27,838 27,692	3.36 3.33	1,044,861 1,047,658	7.39 7.38	53,821 54,838	4.42 4.39	79,222 79,345	4.49 4.46	308,002 306,514
r	2.61 2.60 2.63	5,011 5,022 5,014	2.34 2.36 2.34	27,438 27,364 27,371	3.30 3.27 3.24	1,047,865 1,049,663 1,052,498	7.44 7.45 7.49	52,884 53,249 54,287	4.35 4.31 4.29	79,779 80,351 80,695	4.43 4.41 4.38	307,381 307,866 307,355
y e	2.56 2.57 2.57	4,928 4,959 4,863	2.31 2.29 2.28	27,215 27,187 27,272	3.21 3.19 3.16	1,057,019 1,059,863 1,064,491	7.33 7.36 7.39	52,229 52,678 53,521	4.27 4.24 4.22	81,376 81,793 82,252	4.35 4.33 4.31	308,474 309,250 309,025
	2.50 2.50 2.49		2.25 2.23 2.22	27,233 27,198 27,195	3.13 3.10 3.07	1,069,851 1,074,183 1,079,270	7.26 7.27 7.29	51,406 51,516 52,985	4.20 4.17 4.15	82,844 83,206 83,297	4.29 4.27 4.24	310,390 310,914 310,507
/	2.49 2.42	4,711 4,538	2.19 2.13	27,068 27,004	3.04 3.02	1,083,120 1,087,318	7.26 7.17	52,115 51,035	4.12 4.09	83,574 83,826	4.21 4.19	310,941 311,454

Loans to non-financial corpo	orations with a maturity of				
up to 1 year 6		over 1 year and up to 5 yea	rs	over 5 years	
Effective interest rate 1 % pa	Volume ² € million	Effective interest rate 1 % pa	Volume 2 € million	Effective interest rate 1 % pa	Volume 2 € million
2.82 2.77	128,922 125,750		129,015 129,455	2.78 2.74	594,272 593,021
2.68 2.67 2.65	134,107	2.26 2.23 2.20	129,655 130,842 130,530	2.70	595,850 598,794 597,332
2.66 2.60 2.62			131,883 132,698 133,455	2.62	601,069 605,918 604,497
2.59 2.60 2.58	129,449	2.09 2.08 2.06	133,334 134,293 134,447		608,349 613,121 612,812
2.53 2.53			134,868 136,307		

* The interest rate statistics gathered on a harmonised basis in the euro area from January 2003 are collected in Germany on a sample basis. The grossing-up procedure was changed according to the ECB (Guideline ECB/2014/15). The data published hitherto from June 2010 to May 2015 were grossed-up again with the new method. The MFI interest rate statistics are based on the interest rates applied by MFIs and the related volumes of euro-denominated deposits and loans to households and non-financial corporations domiciled in the euro area. The household sector comprises individuals (including sole proprietors) and non-profit institutions serving households. Non-financial corporations include all enterprises other than insurance companies, banks and other financial institutions. The most recent figures are in all cases to be regarded as provisional. Subsequent revisions appearing in the following Monthly Report are not specially marked. Further information on the MFI interest rate statistics can be found on the Bundesbank's website (Statistics / Reporting system / Banking statistics / MFI interest rate statistics). **o** The statistics on outstanding amounts are

collected at the end of the month. **1** The effective interest rates are calculated either as annualised agreed interest rates or as narrowly defined effective rates. Both calculation methods cover all interest payments on deposits and loans but not any other related charges which may occur for enquiries, administration, preparation of the documents, guarantees and credit insurance. **2** Data based on monthly balance sheet statistics. **3** Secured and unsecured loans for home purchase, including building and home improvements; including loans granted by building and loan associations and interim credits as well as transmitted loans granted by the reporting agents in their own name and for their own account. **4** Loans for consumption are defined as loans granted for the purpose of personal use in the consumption of goods and services. **5** For the purpose of these statistics, other loans are loans granted for other purposes such as business, debt consolidation, education etc. **6** Including overdrafts (see also footnotes 13 to 15 p 47°).

End of month 2015 Nov Dec 2016 Jan Feb Mar Aug June July Aug Sep

Oct Nov

5 Interest rates and volumes for outstanding amounts and new business of German banks (MFIs) * (cont'd) (b) New business +

	Households' of	deposits										
			with an agree	d maturity of					redeemable a	t notice of 8		
	Overnight		up to 1 year		over 1 year and	up to 2 years	over 2 years		up to 3 mont	hs	over 3 month	s
Reporting period	Effective interest rate 1 % pa	Volume 2 € million	Effective interest rate 1 % pa	Volume 7 € million	Effective interest rate 1 % pa	Volume 7 € million	Effective interest rate 1 % pa	Volume 7 € million	Effective interest rate 1 % pa	Volume 2 € million	Effective interest rate 1 % pa	Volume 2 € million
2015 Nov	0.14	1,107,307	0.34	5,900	0.69	840	0.89	1,196	0.40	530,810	0.47	62,774
Dec	0.13	1,111,065	0.28	6,140	0.50	1,161	0.97	1,379	0.39	533,865	0.45	61,900
2016 Jan	0.12	1,117,856	0.35	7,184	0.62	1,024	1.00	1,360	0.37	534,775	0.43	60,627
Feb	0.12	1,123,332	0.34	6,226	0.71	914	1.03	1,493	0.36	536,409	0.40	59,334
Mar	0.11	1,120,146	0.34	6,804	0.82	1,137	0.93	1,721	0.34	535,575	0.39	58,239
Apr	0.10	1,140,220	0.35	5,852	0.69	994	0.94	1,130	0.32	534,792	0.38	57,125
May	0.10	1,142,947	0.34	5,430	0.69	747	0.89	901	0.31	534,122	0.37	56,154
June	0.08	1,149,604	0.27	6,027	0.73	759	0.83	935	0.30	533,649	0.36	55,415
July	0.08	1,168,427	0.27	5,846	0.57	856	0.80	903	0.28	533,501	0.35	54,560
Aug	0.08	1,171,644	0.33	5,081	0.61	1,148	0.86	961	0.27	533,503	0.34	53,749
Sep	0.08	1,173,762	0.32	5,240	0.50	671	0.77	885	0.26	532,980	0.33	53,031
Oct	0.07	1,184,012	0.30	6,402	0.44	716	0.75	933	0.25	533,209	0.32	52,223
Nov	0.07	1,208,967	0.30	5,075	0.58	523	0.77	907	0.24	533,406	0.32	51,649

	Non-financial corpor	ations' deposits						
			with an agreed matur	rity of				
	Overnight		up to 1 year		over 1 year and up to	2 years	over 2 years	
Reporting period	Effective interest rate 1 % pa	Volume 2 € million	Effective interest rate 1 % pa	Volume 7 € million	Effective interest rate 1 % pa	Volume 7 € million	Effective interest rate 1 % pa	Volume 7 € million
2015 Nov Dec	0.05 0.04			10,676 14,914	0.39 0.36	574 1,338	0.56 0.57	326 872
2016 Jan Feb Mar	0.03 0.03 0.05	369,125	0.08	9,780 10,334 14,907	0.32 0.48 0.20	1,283 890 931	0.42 0.50 1.34	489 244 1,057
Apr May June	0.05 0.01 0.01	377,546 380,942 376,365	- 0.02	10,820 9,700 10,619	0.13 0.18 0.16	851 694 689	0.40 0.52 0.46	439 1,123 858
July Aug Sep	0.01 0.01 0.01	378,718 388,519 389,701		9,596 9,727 15,158	0.14 0.19 0.14	569 451 598	0.25 0.39 0.30	476 286 792
Oct Nov	0.00 - 0.00			10,736 13,017		577 951	0.36 0.39	

	Loans to I	nouseholds														
	Loans for	other purpo	oses to hou	iseholds wit	h an initial	rate fxation	of 5									
			c								of which I	oans to sole	e proprieto	rs		
	Total		<i>of which</i> renegotia 9, 10		floating ra up to 1 ye		over 1 yea up to 5 ye		over 5 yea	ars	floating ra up to 1 ye		over 1 yea up to 5 ye		over 5 yea	ars
Reporting period	Effective interest rate 1 % pa	Volume 7 € million	Effective interest rate 1 % pa	Volume 7 € million		Volume 7 € million	Effective interest rate 1 % pa	Volume 7 € million	Effective interest rate 1 % pa	Volume 7 € million		Volume 7 € million	Effective interest rate 1 % pa	Volume 7 € million	Effective interest rate 1 % pa	Volume 7 € million
2015 Nov	2.03	6,561	1.97	2,146	1.75	3,295	2.74	872	2.17	2,394	2.07	1,872	2.81	694	2.13	1,556
Dec	2.05	8,344	2.03	2,796	1.81	4,005	2.75	1,136	2.11	3,203	2.06	2,469	2.80	886	2.06	2,163
2016 Jan	1.96	7,252	2.01	2,816	1.68	3,753	2.63	1,054	2.11	2,445	2.04	2,153	2.70	823	2.03	1,617
Feb	2.05	6,669	2.10	2,300	1.87	3,388	2.64	904	2.08	2,377	2.15	2,032	2.76	690	2.05	1,528
Mar	2.02	7,255	1.87	2,578	1.77	3,549	2.70	996	2.09	2,710	1.96	2,167	2.81	756	2.03	1,796
Apr	2.03	6,381	1.89	2,492	1.81	3,375	2.68	981	2.09	2,025	2.02	2,079	2.87	757	2.01	1,420
May	2.00	5,898	1.92	1,926	1.77	2,921	2.71	876	2.03	2,101	2.01	1,859	2.97	647	1.97	1,372
June	2.02	6,820	1.93	2,359	1.84	3,200	2.58	1,134	1.98	2,486	2.09	1,953	2.67	898	1.89	1,769
July	1.89	6,818	1.73	2,543	1.69	3,394	2.66	936	1.89	2,488	1.88	2,323	2.82	724	1.85	1,614
Aug	2.02	5,949	1.95	1,989	1.94	2,699	2.80	793	1.85	2,457	1.99	1,789	2.96	589	1.89	1,569
Sep	1.89	6,462	1.76	2,153	1.76	3,266	2.69	807	1.81	2,389	1.88	2,013	2.89	610	1.78	1,638
Oct	1.89	6,445	1.72	2,522	1.70	3,408	2.63	928	1.87	2,109	1.86	2,096	2.78	728	1.82	1,403
Nov	1.92	6,299	1.89	2,064	1.79	3,046	2.71	837	1.81	2,416	2.00	1,920	2.78	647	1.76	1,572

For footnotes * and 1 to 6, see p 44•. + In the case of deposits with an agreed For notificities - and 1 to 6, see p 44°. + in the case of opposits with an agreed maturity and all loans excluding revolving loans and overdrafts, credit card debt, new business covers all new agreements between households or non-financial corpor-ations and the bank. The interest rates are calculated as volume-weighted average rates of all new agreements concluded during the reporting month. In the case of overnight deposits, deposits redeemable at notice, revolving loans and overdrafts, credit card debt, new business is collected in the same way as outstanding amounts for the sake of simplicity. This means that all outstanding deposit and lending business at the end of the month has to be incorporated in the calculation of average rates of interest. **7** Estimated. The volume of new business is extrapolated to form the underlying total using a grossing-up procedure. **8** Including non-financial corporations' deposits; including fidelity and growth premia. **9** Excluding overdrafts. **10** Collected from December 2014.

5 Interest rates and volumes for outstanding amounts and new business of German banks (MFIs) * (cont'd) (b) New business +

Loans for consum	ption with an ir	itial rate fixation	of 4							
Total including charges)	Total		<i>of which</i> renegotiated lo	oans 9, 10	floating rate or up to 1 year 9		over 1 year and up to 5 years	ł	over 5 years	
Annual percentage rate of charge 11 % pa	Effective interest rate 1 % pa	Volume 7 € million	Effective interest rate 1 % pa	Volume 7 € million	Effective interest rate 1 % pa	Volume 7 € million	Effective interest rate 1 % pa	Volume 7 € million	Effective interest rate 1 % pa	Volume 7 € million
Total loans										
6.21 6.03	5.97	6,657 6,067	7.58 7.30	1,055 934	5.67	276 316	4.90 4.78	2,993 2,867	7.32 7.19	3,3 2,8
6.44 6.25 6.06	6.37 6.20 6.04	7,338 7,862 8,415	7.52 7.44 7.33	1,426 1,444 1,833	5.59 5.55 5.49	309 322 341	4.99 4.94 4.79	2,938 3,260 3,577	7.41 7.22 7.07	4,0 4,2 4,4
6.21 6.22 6.20	6.19 6.20 6.18	8,734 8,244 8,940	7.33 7.47 7.47	1,814 1,715 1,864	5.89 5.89 5.73	310 306 314	4.88 4.90 4.87	3,548 3,329 3,616	7.16 7.16 7.15	4,8 4,6 5,0
6.20 6.09 5.94	6.18 6.06 5.92	8,468 8,301 7,802	7.50 7.36 7.11	1,764 1,643 1,560	5.97 5.89 6.04	298 328 296	4.77 4.70 4.56	3,405 3,402 3,257	7.20 7.09 6.95	4,7 4,5 4,2
5.95 5.85	5.93	7,579 7,600	7.10 7.12	1,482	6.04	300 321	4.52 4.51	3,127	6.99 6.91	4,1
of which	: collatera	lised loans 1	2							
•	3.58 3.39	218 219		:	2.84 2.72	23 22	3.90 3.89	136 128	3.14 2.66	
	3.32 3.51 3.29	191 220 260			2.50 2.85 2.58	21 33 25	3.72 3.84 3.71	111 135 158	2.85 3.08 2.65	
	3.49 3.56 3.62	206 202 213	· · ·	· · ·	2.75 2.69 2.95	13 18 17	3.80 3.95 3.96	145 135 141	2.77 2.79 2.94	
	3.53 3.52 3.56	193 216 201			2.85 3.00 2.86	18 16 17	3.82 3.83 3.87	135 149 134	2.86 2.80 2.97	
	3.51 3.55	189 198			2.63 2.48	17	3.91 3.93	129 140	2.65	

lousing loans wit	th an initial rat	e fixation of a	3									
Fotal including charges)	Total		<i>of which</i> renegotiated lo	ans 9,10	floating rate of up to 1 year 9		over 1 year ar up to 5 years		over 5 years a up to 10 year		over 10 years	
Annual percentage rate of charge 11 % pa	Effective interest rate 1 % pa	Volume 7 € million	Effective interest rate 1 % pa	Volume 7 € million	Effective interest rate 1 % pa	Volume 7 € million	Effective interest rate 1 % pa	Volume 7 € million	Effective interest rate 1 % pa	Volume 7 € million	Effective interest rate 1 % pa	Volume € millior
Total loans												
2.04 1.98	1.95	18,426 19,521	2.11 2.02	4,769	2.16	2,190 2,713		2,045	1.83	7,385	2.01	7,3
2.00 1.97 1.85	1.97 1.96 1.82	18,507 18,778 22,396	2.05 2.16 1.94	5,833 4,870 4,799	2.22 2.45 2.10	2,413 2,584 2,618	1.87 1.86 1.82	2,054 1,994 2,256	1.84 1.79 1.70	6,800 6,837 8,246	2.05 1.97 1.86	7,2 7,3 9,2
1.93 1.86 1.82	1.88 1.79 1.76	17,859 17,968 21,409	1.94 2.03 1.94	4,981 3,654 4,079	2.16 2.19 2.04	2,206 2,133 2,567	1.82 1.83 1.85	1,820 1,698 1,931	1.67 1.62 1.60	6,054 6,635 7,424	1.97 1.83 1.79	7,7 7,5 9,4
1.78 1.74 1.70	1.73 1.68 1.64	20,287 19,903 18,636	1.83 1.86 1.79	4,970 4,075 3,854	2.01 2.18 2.01	2,464 2,185 2,062	1.79 1.76 1.75	1,866 1,745 1,658	1.59 1.49 1.48	7,230 7,197 6,555	1.75 1.69 1.66	8,7 8,7 8,3
1.68 1.67	1.62 1.62	17,913 20,224	1.72 1.72	4,542 4,687	1.99 1.88	2,093 2,611	1.62 1.66	1,584 1,614		6,317 7,008	1.66 1.68	7,9 8,9
of which	: collater	alised loa	ns 12									
-	1.94 1.86	8,245 8,294		:	2.21 2.06	812 969	1.69 1.63	888 915	1.83 1.77	3,378 3,272	2.05 1.95	3,1 3,1
	1.92 1.89 1.74	8,349 7,875 9,786			2.30 2.47 2.01	916 987 1,002	1.62 1.62 1.63	1,003 875 1,075	1.80 1.73 1.63	3,276 3,048 3,807	2.04 1.95 1.81	3,1 2,9 3,9
	1.89 1.71 1.67	7,980 7,343 9,111			2.17 2.08 1.96	848 783 956	1.53 1.53 1.55	843 752 849	1.62 1.54 1.53	2,827 2,804 3,475	2.14 1.81 1.75	3,4 3,0 3,8
	1.65 1.58 1.55	8,675 8,476 7,930			1.86 1.97 1.98	927 770 728	1.51 1.46 1.46	833 770 708	1.53 1.41 1.39	3,387 3,410 3,109	1.75 1.67 1.61	3,5 3,5 3,3
	1.55 1.51	7,854 9,115			1.89 1.54	764 1,225	1.43 1.48	768 763	1.39 1.36	3,023 3,407	1.65 1.65	3,2

For footnotes * and 1 to 6, see p 44•. For footnotes +, 7 to 10, see p 45•. For footnote 12, see p 47•. 11 Annual percentage rate of charge, which contains other

related charges which may occur for enquiries, administration, preparation of the documents, guarantees and credit insurance.

2015 Nov Dec 2016 Jan Feb Mar Apr May June July Aug Sep Oct Nov

2015 Nov Dec 2016 Jan Feb Mar Apr May June

July Aug Sep Oct Nov

Reporting period 2015 Nov Dec 2016 Jan Feb Mar Apr May June July Sep

2015 Nov Dec 2016 Jan Feb Mar Apr May June

July Aug Sep Oct Nov

Oct Nov

5 Interest rates and volumes for outstanding amounts and new business of German banks (MFIs) * (cont'd) (b) New business +

	Loans to househo	olds (cont'd)					Loans to non-fin	ancial corporation	s	
		-	of which						of which	
	Revolving loans 1 and overdrafts 14 credit card debt 1		Revolving loans and overdrafts 1		Extended credit card debt		Revolving loans and overdrafts 1 credit card debt	4	Revolving loans and overdrafts 1	
Reporting period	Effective interest rate 1 % pa	Volume 2 € million	Effective interest rate 1 % pa	Volume 2 € million	Effective interest rate 1 % pa	Volume ² € million	Effective interest rate 1 % pa	Volume ² € million	Effective interest rate 1 % pa	Volume 2 € million
2015 Nov Dec	8.82 8.69	40,622 41,921	8.82 8.80	33,577 34,544	15.32 15.31	4,064 3,938		65,212 61,493	3.94 3.96	64,959 61,270
2016 Jan Feb Mar	8.83 8.82 8.81	40,469 41,049 42,187		33,630 34,005 35,211	15.36 15.36 15.42		3.82 3.79 3.84	65,219 67,167 68,638	3.84 3.80 3.85	65,010 66,930 68,394
Apr May June	8.70 8.72 8.75	40,129 40,781 41,709	8.75	33,142 33,466 34,494	15.24 15.21 15.23	4,067 4,135 4,093	3.83 3.70 3.74	66,708 67,212 67,687	3.85 3.71 3.75	66,461 66,974 67,430
July Aug Sep	8.61 8.61 8.62	39,874 40,210 41,559	8.63	32,504 32,811 33,900	15.22 15.22 15.13	4,152 4,137 4,269	3.66 3.73 3.70	65,412 63,560 66,057	3.67 3.74 3.71	65,180 63,322 65,773
Oct Nov	8.59 8.50	40,657 39,342		32,988 31,782	15.13 15.13			64,202 65,030	3.68 3.63	63,931 64,752

	Loans to	non-financia	l corporati	ons (cont'd)												
			of which		Loans up	to €1 millio	n with an i	nitial rate fix	ation of 1	6	Loans ove	r €1 million	with an in	itial rate fix	ation of 16	
	Total		renegotia [.] 9, 10	ted loans	floating ra up to 1 ye		over 1 yea up to 5 ye		over 5 yea	ars	floating ra up to 1 ye		over 1 yea up to 5 ye		over 5 yea	ars
Reporting period	Effective interest rate 1 % pa	Volume 7 € million														
	Total lo	oans														
2015 Nov Dec	1.67 1.68	51,840 71,770	1.63 1.68	16,651 21,964	2.71 2.63	7,599 8,367	2.91 2.90	1,381 1,688	2.09 1.98	1,254 1,765	1.30 1.42	32,330 46,829	1.98 1.79	2,249 3,286	1.81 1.82	7,027 9,835
2016 Jan Feb Mar	1.60 1.54 1.64	56,798 52,765 62,713	1.62 1.61 1.70	19,979 15,300 19,300	2.58 2.71 2.67	7,835 7,805 8,680	2.87 2.78 2.73	1,331 1,310 1,524	2.02 1.93 1.88	1,328 1,160 1,394	1.26 1.20 1.35	38,673 34,426 41,099	2.16 1.42 1.76	2,309 2,142 2,294	1.90 1.67 1.68	5,322 5,922 7,722
Apr May June	1.55 1.47 1.52	57,589 53,170 66,550	1.60 1.55 1.68	19,803 15,321 19,903	2.60 2.59 2.61	8,290 7,987 8,992	2.74 2.73 2.79	1,645 1,363 1,600	1.82 1.85 1.76	1,410 1,338 1,526	1.23 1.11 1.23	38,162 34,259 43,829	1.56 1.55 1.57	1,933 1,651 2,249	1.68 1.64 1.55	6,149 6,572 8,354
July Aug Sep	1.46 1.43 1.51	62,584 54,015 62,170	1.55 1.58 1.66	21,116 14,307 19,929	2.44 2.44 2.54	8,339 7,384 8,312	2.67 2.62 2.63	1,484 1,340 1,431	1.72 1.68 1.70	1,554 1,416 1,312	1.16 1.14 1.24	41,120 33,033 41,393	1.88 1.48 1.67	2,329 2,112 1,986	1.53 1.40 1.54	7,758 8,730 7,736
Oct Nov	1.43 1.45	59,422 58,861	1.50 1.52	20,936 15,959	2.44 2.48	8,219 8,095	2.63 2.64	1,417 1,497	1.65 1.69	1,258 1,361	1.16 1.16	40,159 36,793	1.69 1.32	1,960 2,628	1.44 1.49	6,409 8,487
	of	which:	collater	alised lo	ans 12											
2015 Nov Dec	1.76 1.61	7,680 13,483			2.04 1.98	503 636	2.62 2.57	130 150	1.92 1.76	395 539	1.48 1.47	4,036 7,249	2.31 1.84	1,162 1,438	1.87 1.67	1,454 3,471
2016 Jan Feb Mar	1.65 1.60 1.62	9,419 8,658 10,561			2.01 2.07 1.94	674 554 611	2.55 2.29 2.60	125 149 154	1.89 1.84 1.73	463 382 406	1.33 1.45 1.50	6,286 4,958 5,407	3.51 1.69 1.79	656 627 1,089	1.93 1.71 1.66	1,215 1,988 2,894
Apr May June	1.59 1.58 1.58	9,251 5,951 10,056			1.95 2.03 1.91	660 479 601	2.39 2.60 2.51	153 134 159	1.67 1.65 1.64	438 406 468	1.49 1.47 1.56	5,471 2,864 4,885	1.92 1.57 1.72	530 364 1,003	1.57 1.55 1.46	1,999 1,704 2,940
July Aug Sep	1.53 1.54 1.59	10,322 7,519 9,002			1.87 2.01 1.93	681 523 550	2.38 2.54 2.49	161 119 104	1.53 1.51 1.46	544 410 379	1.35 1.40 1.53	5,526 3,645 5,125	1.95 1.71 2.18	929 452 614	1.61 1.57 1.45	2,481 2,370 2,230
Oct Nov	1.49 1.49	8,746 8,480	· .		1.85 2.00	652 494	2.40 2.41	149 159	1.48 1.57	401 401	1.40 1.29	5,352 4,031	1.90 2.04	560 610	1.44 1.50	1,632 2,785

For footnotes * and 1 to 6, see p 44°. For footnotes + and 7 to 10, see p 45°. For footnote 11, see p 46°. 12 Collected from June 2010. For the purposes of the interest rate statistis, a loan is considered to be secured if collateral (among others financial collateral, real estate collateral, debt securites) in at leat the same value as the loan amount has been posted, pledged or assigned. **13** From June 2010 including revolving loans which have all the following features: (a) the borrower may use or withdraw the funds to a pre-approved credit limit without giving prior notice to the lender; (b) the amount of available credit can increase and decrease as funds are borrowed and repaid; (c) the loan may be used repeatedly; (d) there is no obligation of regular repayment of funds. **14** Overdrafts are defined as debit balances on current accounts. They include all bank overdrafts regardless of whether they are within or beyond the limits agreed between customers and the bank. **15** From June 2010 including convenience and extended credit card debt. Convenience credit is defined as the credit granted at an interest rate of 0% in the period between payment transactions effectuated with the card during one billing cycle become **16** ha amount catcarour wifers to the circle transaction corridered as power. due. **16** The amount category refers to the single loan transaction considered as new business.

VII Insurance corporations and pension funds

1 Assets *

€ hillion

	€ billion									
	Assets									
		Financial assets								
End of	Total		Cash and deposits with banks (MFIs) 1	Debt securi- ties (inclu- ding financial	Loans	Shares and other	Investment fund	Ceded share of insurance technical	Other financial	Non-financial
year/quarter	Total	Total		derivatives)	granted 2	equity 3	shares/units	reserves	assets	assets
	Insurance co	orporations	and pension	tunas 4						
2006	1,771.5	1,709.2	524.1	149.9	244.8	261.5	385.6	74.5	68.7	62.3
2007	1,838.3 1,770.6	1,779.8 1,714.8	558.3 574.5	155.1 159.4	248.2	275.3 228.9	409.6 379.7	70.2 65.8	63.1	58.5 55.8
2008 2009	1,770.8	1,779.6	588.9	173.9	243.3 259.8	228.9	426.9	58.6	63.4 61.2	57.1
2010	1,961.9	1,900.5	570.9	210.4	267.2	223.5	501.4	59.9	67.2	61.4
2011	2,011.2	1,947.8	576.3	226.2	271.9	221.9	522.1	62.2	67.1	63.4
2012	2,162.8	2,095.7	560.1	287.2	277.9	223.8	619.5	63.1	64.2	67.1
2013	2,236.7	2,165.2	540.6	310.5	284.7	224.1	678.5	64.2	62.7	71.5
2014	2,444.5	2,367.3	523.2	384.5	300.5	232.5	790.1	68.8	67.6	77.2
2015	2,536.5	2,454.1	488.7	421.6	309.2	246.9	841.7	77.0	69.0	82.4
2014 Q4	2,444.5	2,367.3	523.2	384.5	300.5	232.5	790.1	68.8	67.6	77.2
2015 Q1	2,539.4	2,461.4	517.4	414.0	305.1	242.1	843.7	70.6	68.4	78.1
Q2 Q3	2,489.5 2,507.3	2,410.8 2,427.5	509.4 498.0	396.7 412.5	304.8 308.0	238.9 241.6	819.2 823.8	72.6 74.7	69.2 68.9	78.6 79.8
Q3 Q4	2,536.5	2,427.5	498.0	412.5		241.0	841.7	77.0	69.0	82.4
2016 Q1	2,598.2	2,514.1	486.8	456.3	310.8	248.3	863.1	78.9	70.0	84.1
Q2	2,637.2	2,552.5	478.6	480.8	312.6	248.5	882.7	78.7	70.6	84.7
Q3	2,686.9	2,602.5	470.9	482.4	315.5	261.0	922.4	78.8	71.5	84.4
	Insurance co	orporations								
2006	1,489.2	• 1,444.6	410.4	127.6	224.7	254.2	292.7	73.1	62.0	44.6
2007	1,526.2	1,485.5	432.5	130.7	226.4	267.1	304.0	68.2	56.6	40.7
2008	1,454.7	1,416.5	436.7	133.7	221.7	221.4	284.3	63.4	55.2	38.2
2009	1,490.3	1,452.2	440.4	146.2	236.4	202.7	317.6	55.6	53.2	38.1
2010	1,553.3	1,513.1	420.0	170.9	243.2	210.7	356.5	56.5	55.4	40.3
2011 2012	1,584.6 1,694.4	1,542.9 1,651.1	419.8 405.1	191.3 246.2	246.0 251.7	210.4 211.4	361.4 425.1	58.4 59.0	55.5 52.7	41.7 43.3
2013	1,742.1	1,695.7	386.3	268.0	257.1	211.1	462.3	59.8	51.0	46.4
2014	1,892.0	1,842.7	371.6	327.4	271.4	215.9	542.3	63.9	50.2	49.3
2015	1,953.4	1,901.7	336.3	357.3	278.7	228.7	578.3	71.6	50.7	51.8
2014 Q4	1,892.0	1,842.7	371.6	327.4	271.4	215.9	542.3	63.9	50.2	49.3
2015 Q1	1,967.9	1,918.2	365.3	352.8	275.7	224.9	583.1	65.6	50.8	49.7
Q2	1,925.8	1,875.9	357.5	337.9	275.3	221.6	564.6	67.5	51.5	49.9
Q3 Q4	1,938.2 1,953.4	1,887.7 1,901.7	347.5 336.3	350.0 357.3	278.1 278.7	224.0 228.7	567.7 578.3	69.5 71.6	51.0 50.7	50.5 51.8
					1					
2016 Q1 Q2	2,007.2 2,034.0	1,954.1 1,980.7	336.2 328.6	386.6 408.0		230.0 229.6	596.3 607.7	73.4 73.1	51.6 51.9	53.1 53.2
Q3	2,074.6	2,022.2				242.0		73.2		
	Pension fun	ds ⁴								
2006	282.3	264.6	113.8	22.4	20.1	7.3	92.8	1.5	6.7	17.7
2007	312.1	294.3	125.8	24.4	21.9	8.2	105.6	1.9	6.6	17.8
2008	315.9	298.3	137.8	25.6	21.6	7.4	95.3	2.4	8.2	17.5
2009	346.5	327.4	148.4	27.7	23.3	7.7	109.3	3.0	8.0	19.1
2010	408.5	387.4	150.9	39.5		12.8	144.9	3.5	11.8	21.1
2011 2012	426.6 468.4	404.9 444.6	156.5 155.1	34.9 40.9		11.5 12.4	160.8 194.4	3.8 4.1	11.6	21.7 23.8
2013	494.6	469.6	154.3	42.5		13.0	216.2	4.4	11.7	25.1
2014	552.5	524.6	151.7	57.1	29.1	16.7	247.8	4.9	17.4	27.8
2015	583.0	552.4	152.4	64.3	30.4	18.2	263.3	5.4	18.3	30.6
2014 Q4	552.5	524.6	151.7	57.1	29.1	16.7	247.8	4.9	17.4	27.8
2015 Q1	571.5	543.2	152.1	61.2	29.4	17.3	260.6	5.0	17.6	28.3
Q2	563.7	534.9	151.8	58.8	29.6	17.3	254.7	5.1	17.7	28.8
Q3	569.2	539.9	150.6			17.7	256.0	5.3	17.9	29.3
Q4	583.0	552.4	152.4		1	18.2	263.3	5.4	18.3	30.6
2016 Q1 Q2	591.1 603.2	560.0 571.7	150.6 150.0			18.3 18.8	266.8 275.0	5.5 5.5	18.4 18.6	31.0 31.5
Q2 Q3	612.3									
•										

Source: Bundesbank calculations based on supervisory data of the Federal Financial Supervisory Authority (BaFin). * Valuation of securities based on current market values; valuation of other items based on book values. Figures from 2016 Q2 on have been revised. 1 Including registered bonds, borrower's note loans and Pfandbriefe of monetary financial institutions. 2 Including deposits retained on assumed reinsurance. 3 Including participation certificates ("Genuss-Scheine"). 4 The term "pension

funds" refers to the institutional sector "insurance corporations and pension funds" of the European System of Accounts. Pension funds thus comprise company pension schemes ("Pensionskassen", pension funds supervised by BaFin, Contractual Trust Arrangements (CTAs; included as from 2010) and public, church and municipal supplementary pension funds) and occupational pension schemes for the self-employed. Social security funds are not included.

VII Insurance corporations and pension funds

2 Liabilities *

	€ billion								
	Liabilities							-	
					Insurance technica	reserves			
End of year/quarter	Total	Debt securities (including financial derivatives)	Loans received 1	Shares and other equity 2	Total	Net equity of households in life insurance and pension fund reserves 3	Unearned premiums and reserves for outstanding claims	Other liabilities	Net worth 4
	Insurance co	rporations and	l pension func	ls 5					
2006	1,771.5	8.4	91.6	210.0	1,318.8	1,049.1	269.6	81.3	61.5
2007	1,838.3	11.7	88.9	214.8	1,377.9	1,119.2	258.7	78.2	66.9
2008	1,770.6	14.7	77.0	136.0	1,396.3	1,141.5	254.8	74.7	71.8
2009	1,836.8	16.2	71.6	136.2	1,460.5	1,211.6	249.0	73.1	79.2
2010	1,961.9	17.8	72.3	137.6	1,573.3	1,318.9	254.4	71.5	89.3
2011	2,011.2	17.0	72.1	111.8	1,625.0	1,360.3	264.7	71.5	113.8
2012	2,162.8	22.4	77.1	158.9	1,708.3	1,437.1	271.2	71.3	124.8
2013	2,236.7	16.9	81.8	197.7	1,794.1	1,514.4	279.7	71.7	74.5
2014	2,444.5	17.3	89.0	202.7	1,903.8	1,605.5	298.3	72.3	159.4
2015	2,536.5	18.3	96.6	226.0	1,995.9	1,683.2	312.8	71.9	127.8
2014 Q4	2,444.5	17.3	89.0	202.7	1,903.8	1,605.5	298.3		159.4
2015 Q1	2,539.4	19.0	90.4	223.1	1,942.6	1,635.6	307.0	73.0	191.4
Q2	2,489.5	17.9	91.9	206.2	1,958.3	1,649.6	308.7	72.5	142.7
Q3	2,507.3	17.5	94.3	208.4	1,976.5	1,665.6	311.0	72.2	138.4
Q4	2,536.5	18.3	96.6	226.0	1,995.9	1,683.2	312.8	71.9	127.8
2016 Q1	2,598.2	17.7	97.8	231.7	2,027.1	1,707.3	319.9	73.2	150.6
Q2	2,637.2	17.6	97.9	201.1	2,041.1	1,722.3	318.8	73.3	206.2
Q3	2,686.9	19.0	98.5	208.0	2,067.5	1,749.5	318.0	73.8	220.1
	Insurance cor	•							
2006	1,489.2	8.4	89.8	202.0	1,061.3	792.0	269.2	79.1	48.6
2007	1,526.2	11.7	86.4	206.7	1,090.1	831.7	258.3	75.7	55.6
2008	1,454.7	14.7	74.2	130.6	1,095.7	841.3	254.4	72.3	67.2
2009	1,490.3	16.2	68.3	130.8	1,136.4	887.8	248.5	71.1	67.5
2010	1,553.3	17.8	68.7	131.8	1,191.3	937.3	254.0	69.4	74.4
2011	1,584.6	17.0	68.3	107.0	1,224.3	960.1	264.2	69.6	98.3
2012	1,694.4	22.4	73.1	152.0	1,280.0	1,009.2	270.8	69.5	97.4
2013	1,742.1	16.9	77.7	188.7	1,340.7	1,061.4	279.3	68.8	49.2
2014	1,892.0	17.3	84.3	193.0	1,411.6	1,113.8	297.8	70.5	115.3
2015	1,953.4	18.3	91.6	215.1	1,472.9	1,160.6	312.3	70.2	85.4
2014 Q4	1,892.0	17.3	84.3	193.0	1,411.6	1,113.8	297.8	70.5	115.3
2014 Q4 2015 Q1 Q2 Q3 Q4	1,892.0 1,967.9 1,925.8 1,938.2 1,953.4	17.5 19.0 17.9 17.5 18.3	84.3 85.6 87.2 89.5 91.6	212.5 196.4 198.5 215.1	1,411.0 1,443.0 1,453.2 1,464.5 1,472.9	1,113.6 1,136.4 1,145.0 1,154.0 1,160.6	306.6 308.3 310.5 312.3	70.3 71.2 70.7 70.5 70.2	13.3 136.6 100.3 97.6 85.4
2016 Q1	2,007.2	17.7	92.8	220.6	1,499.3	1,179.8	319.4	71.4	105.4
Q2	2,034.0	17.6	92.9	191.3	1,506.7	1,188.4	318.3	71.5	154.0
Q3	2,074.6	19.0	93.4	197.8	1,528.4	1,210.8	317.5	72.0	164.0
	Pension fund	s ⁵							
2006	282.3		1.8	8.0	257.5	257.1	0.4	2.1	12.9
2007	312.1		2.4	8.1	287.8	287.5	0.3	2.5	11.2
2008	315.9		2.8	5.4	300.6	300.2	0.4	2.4	4.7
2009	346.5		3.2	5.4	324.2	323.7	0.4	1.9	11.7
2010	408.5		3.6	5.8	382.1	381.7	0.4	2.1	15.0
2011	426.6		3.8	4.8	400.6	400.2	0.5	1.9	15.5
2012	468.4		4.1	6.9	428.3	427.9	0.4	1.8	27.3
2013	494.6		4.2	8.9	453.4	452.9	0.5	2.9	25.3
2014	552.5		4.7	9.7	492.1	491.6	0.5	1.8	44.2
2015	583.0	-	4.9	11.0	523.0	522.6	0.5	1.7	42.4
2014 Q4 2015 Q1	552.5	-	4.7 4.7	9.7 10.5	492.1 499.7	491.6 499.2	0.5	1.8 1.8	44.2 54.8
Q2 Q3 Q4	563.7 569.2 583.0		4.7 4.8 4.8 4.9	9.8 9.9 11.0	505.1 512.0 523.0	504.6 511.6 522.6	0.5 0.5 0.5	1.8 1.7 1.7 1.7	42.4 40.7 42.4
2016 Q1	591.1		5.0	11.2	527.9	527.4	0.5	1.7	45.3
Q2	603.2		5.0	9.8	534.4	533.9	0.5	1.8	52.3
Q3	612.3		5.1	10.2	539.1	538.6	0.5	1.8	56.2

Source: Bundesbank calculations based on supervisory data of the Federal Financial Supervisory Authority (BaFin). * Valuation of securities based on current market values; valuation of other items based on book values. Quarterly data and data as from 2015 are partially estimated. Figures from 2016 Q2 on have been revised. 1 Including deposits retained on ceded business. **2** Including participation certificates ("Genuss-Scheine"). **3** Including ageing provisions of health insurance schemes and premium reserves of accident insurance schemes with guaranteed premium refund. **4** As defined in the European System of Accounts (ESA 1995), net worth is the difference between total assets and the remaining liability items. Own funds are the sum of net worth and "shares and other equity". **5** The term "pension funds" refers to the institutional sector "insurance corporations and pension funds" of the ESA. Pension funds thus comprise company pension schemes ("Pensionskassen", pension funds supervised by BaFin, Contractual Trust Arrangements (CTAs; included as from 2010) and public, church and municipal supplementary pension funds) and occupational pension schemes for the self-employed. Social security funds are not included.

VIII Capital market

1 Sales and purchases of debt securities and shares in Germany

Debt se	ecurities																				
		Sale	s									Purch	lases								
		Don	nestic debt	secu	irities 1							Resid	ents								
Sales = total pur- chases		Tota	I	Ban deb secu		bond		Publi debt secur ities		Foreig debt secur- ities 4		Total	5	Cred stitut inclu build and asso	tions ding ing	Deut: Bund	sche lesbank	Other		Non- resid	ents 8
2	233,890		133,711		64,231		10,778		58,703		100,179		108,119		121,841			-	13,723		125,77
2	252,658 242,006 217,798 76,490 70,208	-	110,542 102,379 90,270 66,139 538	-	39,898 40,995 42,034 45,712 114,902		2,682 8,943 20,123 86,527 22,709		67,965 52,446 28,111 25,322 91,655		142,116 139,627 127,528 10,351 70,747	_	94,718 125,423 26,762 18,236 90,154		61,740 68,893 96,476 68,049 12,973		8,645		32,978 56,530 123,238 49,813 77,181	_	157,94 116,58 244,56 58,29 19,94
-	146,620 33,649 51,813 12,603 63,381	- - -	1,212 13,575 21,419 101,616 31,962	- - - -	7,621 46,796 98,820 117,187 47,404	-	24,044 850 8,701 153 1,330	-	17,635 59,521 86,103 15,415 16,776		147,831 20,075 73,231 89,013 95,341	-	92,682 23,876 3,767 18,583 51,779	- - - -	103,271 94,793 42,017 25,778 12,124	- - -	22,967 36,805 3,573 12,708 11,951		172,986 34,112 41,823 57,069 75,854	-	53,9 57,5 55,5 31,1 11,6
	32,891	-	36,010	-	65,778		26,762		3,006		68,902		123,662	-	66,330		121,164		68,828	-	90,7
	8,853 31,114 26,539	-	1,881 19,483 12,729		7,474 14,851 1,330		2,924 1,224 4,510	-	12,279 3,407 6,889		10,733 11,631 13,810		6,823 20,916 26,890		2,236 2,002 1,261		12,023 12,911 13,401	-	7,436 6,003 12,228	_	2,02 10,19 3!
_	12,556 32,838 5,007	-	3,469 29,686 7,553	-	7,238 8,729 2,177	_	1,970 3,993 4,636	-	12,677 16,964 740		16,025 3,152 2,545		34,517 15,400 15,220		5,143 6,052 8,528		15,821 18,093 16,907		23,839 3,359 6,841	-	21,90 17,43 20,23
-	30,730 19,614 17,786	-	26,603 18,041 12,468	-	16,263 7,011 6,106	-	1,055 942 3,712	-	11,394 11,972 2,650	-	4,127 1,573 5,319	-	1,577 12,251 23,933		9,959 10,241 4,025		18,064 13,001 17,786		9,682 9,491 10,172	-	29,1 7,3 6,1
-	9,049 107	-	6,357 2,417	_	640 5,172	_	3,347 377	-	10,344 7,966	=	2,692 2,311		10,705 14,354	-	7,635 2,468		17,287 18,652		1,053 1,830	=	19,7 14,2

	€ million								
	Shares								
			Sales		Purchases				
	Sales				Residents				
k	= total purchases		Domestic shares 9	Foreign shares 10	Total 11	Credit insti- tutions 6	Other sectors 12	Non- residents 13	
	-	3,317	10,157	- 13,474	7,432	5,045	2,387	-	10,748
		32,364 26,276 5,009 29,452 35,980	13,766 9,061 10,053 11,326 23,962	18,597 17,214 – 15,062 – 40,778 12,018	- 7,528 - 62,308 2,743	10,208 11,323 - 6,702 - 23,079 - 8,335	- 3,795 - 55,606 25,822		31,329 18,748 57,299 32,194 5,484
		37,767 25,833 15,061 21,553 47,506	20,049 21,713 5,120 10,106 18,778	17,719 4,120 9,941 11,447 28,728	40,804 14,405 18,344	7,340 670 10,259 11,991 17,203	40,134 4,146 6,353	-	1,361 14,971 656 3,209 7,845
		38,855	7,668	31,187	24,017	- 5,421	29,438		14,838
Jan Feb Mar		1,294 611 8,290	120 66 59	- 1,414 - 677 8,231	367 1,539 5,935	– 5,901 – 5,401 1,861	6,268 6,940 4,074		1,661 2,150 2,355
Apr May June	-	949 5,585 1,068	39 288 335	– 988 5,297 733	6,964	- 639 2,838 - 330	4,126		1,421 1,379 2,508
July Aug Sep		2,930 4,811 5,554	464 1,063 229	2,466 3,748 5,325	3,180	– 2,128 2,256 503	924	_	258 1,631 653
Oct Nov		1,989 3,852	204 681	1,785 3,171		– 221 728	– 1,240 3,248	_	3,450 124

Net sales at market values plus/minus changes in issuers' portfolios of their own debt securities. 2 Including cross-border financing within groups from January 2011.
 Including Federal Railways Fund, Federal Post Office and Treuhand agency. 4 Net purchases or net sales (-) of foreign debt securities by residents; transaction values. 5 Domestic and foreign debt securities. 6 Book values; statistically adjusted.
 7 Residual; also including purchases of domestic and foreign securities by domestic mutual funds. Up to end-2008, data comprise Deutsche Bundesbank. 8 Net pur-chases or net sales (-) of domestic debt securities by non-residents; transaction

values. **9** Excluding shares of public limited investment companies; at issue prices. **10** Net purchases or net sales (-) of foreign shares (including direct investment) by residents; transaction values. **11** Domestic and foreign shares. **12** Residual; also including purchases of domestic and foreign securities by domestic mutual funds. **13** Net purchases or net sales (-) of domestic shares (including direct investment) by non-residents; transaction values. — The figures for the most recent date are provisional; revisions are not snecially marked. provisional; revisions are not specially marked.

Apr May June July Aug Sep Oct Nov

£ million

Period

VIII Capital market

2 Sales of debt securities issued by residents *

€ million nominal value

	€ million nominal v	value							
		Bank debt securitie	es 1						Memo item
			Mortgage	Public	Debt securities issued by special purpose credit	Other bank	Corporate bonds	Public	Foreign DM/euro bonds issued by German- managed
Period	Total	Total	Pfandbriefe	Pfandbriefe	institutions	debt securities	(non-MFIs) 2	debt securities 3	syndicates
	Gross sales 4								
2004	990,399	688,844	33,774	90,815	162,353	401,904	31,517	270,040	12,344
2005	988,911	692,182	28,217	103,984	160,010	399,969	24,352	272,380	600
2006 2007	925,863 1,021,533	622,055 743,616	24,483 19,211	99,628 82,720	139,193 195,722	358,750 445,963	29,975 15,043	273,834 262,872	69
2008	1,337,337	961,271	51,259	70,520	382,814	456,676	95,093	280,974	-
2009	1,533,616	1	40,421	37,615	331,566	649,215	76,379	398,423	-
2010 2011	1,375,138 1,337,772	658,781	36,226 31,431	33,539 24,295	363,828 376,876	324,160 226,180	53,654 86,615	563,731 592,376	-
2012 2013	1,340,568 1,433,628	702,781 908,107	36,593 25,775	11,413 12,963	446,153 692,611	208,623 176,758	63,259 66,630	574,529 458,891	
2014	1,362,056	829,864	24,202	13,016	620,409	172,236	79,873	452,321	-
2015	1,359,422	852,045	35,840	13,376	581,410	221,417	106,676	400,700	-
2016 Apr May	115,428 109,656		1,282 3,518	536 355	53,522 48,486	14,167 14,766	5,762 7,177	40,160 35,353	-
June	98,036		1,402 3,695	1,345 231	48,488 35,416 47,806	14,786 18,235 12,328	3,694 5,516	37,944	-
July 5 Aug	84,466	47,957	3,758	952	35,486	7,762	2,439	37,234 34,070	
Sep	110,645	60,863	720	143	46,130	13,870	9,464	40,318	-
Oct Nov	93,470 72,858		1,559 2,017	785 211	42,270 29,840	13,642 8,639	7,593 2,842	27,621 29,309	
	of which: De	bt securities w	ith maturities	of more than	four years 6				
2004	424,769	1	20,060	48,249	54,075	153,423	20,286	128,676	4,320
2005 2006	425,523 337,969	277,686	20,862 17,267	63,851 47,814	49,842 47,000	143,129 78,756	16,360 14,422	131,479	400 69
2007	315,418	183,660	10,183	31,331	50,563	91,586	13,100	118,659	-
2008 2009	387,516 361,999	190,698 185,575	13,186 20,235	31,393 20,490	54,834 59,809	91,289 85,043	84,410 55,240	112,407 121,185	-
2010	381,687	169,174	15,469	15,139	72,796	65,769	34,649	177,863	_
2011 2012	368,039 421,018	153,309 177,086	13,142 23,374	8,500 6,482	72,985 74,386	58,684 72,845	41,299 44,042	173,431 199,888	-
2013 2014	372,805 420,006	151,797 157,720	16,482 17,678	10,007 8,904	60,662 61,674	64,646 69,462	45,244 56,249	175,765 206,037	-
2015	414,593	179,150	25,337	9,199	62,237	82,379	68,704	166,742	
2016 Apr	30,946	11,246	1,207	511	4,680	4,848	4,481	15,219	_
May June	36,255 34,458	17,367	2,711 1,291	55 711	8,707 6,590	5,895 7,962	4,908 2,098	13,980 15,808	-
July 5	34,008	14,977	2,759	231	9,154	2,833	3,897	15,134	_
Aug Sep	24,960 35,483	11,808 16,330	2,630 708	502 118	4,541 7,420	4,134 8,084	931 7,291	12,221 11,862	-
Oct	32,702	1	1,559	785	4,690	7,644	6,327	11,698	
Nov	23,848		2,004	211	5,122	3,746	1,368		-
	Net sales 7	_	_	_		_	_	_	
2004	167,233	1 · · ·					· · · ·		
2005 2006	141,715	65,798 58,336	– 2,151 – 12,811	- 34,255 - 20,150	37,242 44,890	64,962 46,410	10,099 15,605	65,819 55,482	- 35,963 - 19,208
2007	86,579	58,168		- 46,629	42,567	73,127	- 3,683	32,093 28,302	- 29,750
2008 2009	119,472 76,441		858	- 65,773 - 80,646	25,165 25,579	34,074 - 21,345	82,653 48,508	103,482	- 31,607 - 21,037
2010	21,566		- 3,754	- 63,368	28,296	- 48,822	23,748	85,464 80,289	- 10,904
2011 2012	22,518	- 54,582 - 100,198	1,657 – 4,177	- 44,290 - 41,660	32,904 - 3,259	- 44,852 - 51,099	- 3,189 - 6,401	80,289 21,298	- 5,989 - 2,605
2013 2014	- 140,017 - 34,020	- 125,932	- 17,364 - 6,313	- 37,778 - 23,856	- 4,027 - 862	- 66,760 - 25,869	1,394 10,497	– 15,479 12,383	- 3,057 - 2,626
2015	- 65,147	1	9,271	- 9,754	- 2,758	- 74,028	25,300	- 13,174	
2016 Apr	- 8,359	7,324	236	- 1,468	6,691	1,865	1,909	- 17,592	- 159
May June	28,473 - 3,182	9,196	- 1,402 - 2,543	- 660 - 3,575	9,052 1,322	2,206 534	3,294 - 4,057	15,983 5,135	- 590
July 5	- 22,944	- 15,024	858	- 1,014	- 14,406	- 463	884	- 8,803	- 59
Aug Sep	19,464 13,990	5,831	3,209 - 421	- 34 - 1,385	4,897 4,802	– 2,241 1,461	- 342 3,807	13,975 5,727	_
Oct	- 4,225	1	286	- 1,680	105	1,714	4,024		- 15
Nov	4,577			- 1,855		l – 2,625			
	* For definitions s	ee the explanatory	notes in the Statist	tical Sunnlement 2	Capital initial	sales of newly i	ssued securities.	5 Sectoral reclassion	sitication of dobt

* For definitions, see the explanatory notes in the Statistical Supplement 2 Capital market statistics on p 21 ff. 1 Excluding registered bank debt securities. 2 Including cross-border financing within groups from January 2011. 3 Including Federal Railways Fund, Federal Post Office and Treuhand agency. 4 Gross sales means only initial sales of newly issued securities. **5** Sectoral reclassification of debt securities. **e 6** Maximum maturity according to the terms of issue. **7** Gross sales less redemptions.

VIII Capital market

3 Amounts outstanding of debt securities issued by residents *

€ million nominal value Bank debt securities 1 Memo item Foreign DM/euro End of year or month/ Debt securities issued by bonds issued by German-Corporate special purpose Mortgage Pfandbriefe Public Other bank Public Maturity bonds managed Total Total Pfandbriefe credit institutions debt securities (non-MFIs) debt securities in years syndicates 2,773,007 1,685,766 2004 159,360 553,927 316,745 655,734 73,844 1,013,397 2005 2,914,723 1,751,563 157,209 519,674 323,587 751,093 83,942 1,079,218 99,545 95,863 178,515 3,044,145 3,130,723 3,250,195 3,326,635 1.809.899 144,397 133,501 150,302 499,525 452,896 377,091 368,476 411,041 490,641 797,502 870,629 858,550 1,134,701 1,166,794 1,195,097 2006 2007 1,868,066 1,876,583 2008 151,160 837,203 516,221 2009 1,801,029 296,445 227,024 1,298,581 2010 2011 147,529 149,185 544,517 577,423 645,491 600,640 3,348,201 1,570,490 232,954 250,774 1,526,937 2 2 2 3,370,721 1,515,911 188,663 247,585 1,607,226 2012 2013 2014 3,285,422 3,145,329 3,111,308 2 145,007 127,641 121,328 147,070 109,290 85,434 2 548,109 **2** 481,273 2 1,650,617 1,635,138 1,647,520 1,414,349 1,288,340 574,163 570,136 220,456 221,851 1,231,445 569,409 455,274 232,342 130,598 566,811 2015 3,046,162 1,154,173 75,679 381,085 257,612 1,634,377 2016 May June 3,087,195 3,084,013 132,057 129,514 72,672 69,097 595,026 596,349 391,406 391,940 269,584 265,527 1,626,451 1,631,587 1.191.160 1,186,899 340,975 3.061.069 1.171.875 130.372 68.083 632,445 266,411 1.622.783 July 2 Aug Sep 3,080,533 3,094,523 1,177,707 1,182,162 133,581 133,160 68,049 66,664 637,342 642,143 338,734 340,195 266,068 269,875 1,636,758 1,642,486 64,984 3,090,298 3,094,875 Oct 1.182.587 133.446 642.249 341.909 273.900 1.633.811 274,075 Nov 1,175,952 134,541 63,129 638,998 339,284 1,644,848 Breakdown by remaining period to maturity 3 Position at end-November 2016 122,449 72,193 50,478 22,624 24,138 273,459 161,157 90,576 1,025,339 692,307 less than 2 458 569 38 567 24 094 51,150 515 620 40,154 23,178 17,648 15,993 9,268 2 to less than 4 289,496 173,498 49,731 38,704 353,079 215,453 427,653 4 to less than 6 6,224 5,439 41,869 39,246 22,420 15,250 191,781 142,205 6 to less than 8 302,565 88,365 235,939 78,485 9,660 8 to less than 10 79,708 30,127 116,875 127,097 52,101 231,872 1,317 725 70 12,309 3,963 10 to less than 15 30.965 4,724 12.616 16,425 15 to less than 20 20 and more 17,151 39,422 182 428 12,281 7,796 4,823 31,129 maturity for debt securities falling due en bloc and until mean maturity of the Including debt securities temporarily held in the issuers' portfolios. 1 Excluding debt securities handed to the trustee for temporary safe custody. 2 Sectoral reclassification of debt securities. 3 Calculated from month under review until final residual amount outstanding for debt securities not falling due en bloc.

4 Shares in circulation issued by residents *

€ million nominal value

		Change in dom	estic public limite	ed companies' ca	apital due to				
Share capital = circulation at end of period under review	Net increase or net decrease (–) during period under review	cash payments and ex- change of convertible bonds 1	issue of bonus shares	contribution of claims and other real assets	contribution of shares, mining shares, GmbH shares, etc	merger and transfer of assets	change of legal form	reduction of capital and liquidation	Memo item Share circulation at market values (market capita- lisation) level at end of period under review 2
164,802	2,669	3,960	1,566	276	696	220	- 1,760	- 2,286	887,21
163,071 163,764 164,560 168,701 175,691		2,670 3,164 5,006	3,347 1,322 1,319	694 604 200 152 97	268 954 269 0 –	- 1,443 - 1,868 - 682 - 428 - 3,741	- 1,256 - 1,847 - 608		1,279,63 1,481,93 830,62
174,596 177,167 178,617 171,741 177,097		6,390 3,046 2,971	552 129 718	178 462 570 476 1,714	10 9 - - -	- 486 - 552 - 478 - 1,432 - 465	- 762 594 - 619	- 3,569 - 3,532 - 2,411 - 8,992 - 1,446	924,21 1,150,18 1,432,65
177,416	319	4,634	397	599	-	- 1,394	- 1,385	- 2,535	1,614,44
175,609 175,694	- 1,093 85			5 228		- 4 - 30	- 378 - 305	- 942 - 87	1,529,29 1,432,09
176,196 176,572 176,583	376	5 1,061	148 35 2	5 19 0		- 83 - 495 - 22	49 - 121 59	- 40 - 124 - 76	1,566,1
176,733 176,793				45 -	-	- 36		- 44 - 56	

* Excluding shares of public limited investment companies. 1 Including shares issued out of company profits. 2 Enterprises listed on the Regulated Market (the introduction of which marked the end of the division of organised trading segments into an

official and a regulated market on 1 November 2007) are included as well as enter-prises listed on the Open Market. Source: Bundesbank calculations based on data of the Herausgebergemeinschaft Wertpapier-Mitteilungen and the Deutsche Börse AG.

170,543

134,580

115,373 85,623 54,015

32,978

22,074

16,085

13,481 10,422 7,797

6,356

5,389 5,389

5.330

5,330 5,330

5,314 5,100

1,646 274 291

1,340 140

442

967

VIII Capital market

5 Yields and indices on German securities

	Yields on deb	ot securities outs	tanding issued	by residents 1				Price indices 2,3	3		
		Public debt se	curities		Bank debt secu	rities		Debt securities		Shares	
			Listed Federal securi	ities							
	Total	Total	Total	With a residual maturity of 9 and including 10 years 4	Total	With a residual maturity of more than 9 and including 10 years	Corporate bonds (non- MFIs)	German bond index (REX)	iBoxx € Germany price index	CDAX share price index	German share index (DAX)
Period	% per annun	n	-	_			-	Average daily rate	End-1998 = 100	End-1987 = 100	End-1987 = 1000
2005 2006 2007 2008 2009	3.1 3.8 4.3 4.2 3.2	3.3 3 4.3 2 4.0	3.7 4.2 4.0	3.8 4.2 4.0	3.1 3.8 4.4 4.5 3.5	3.5 4.0 4.5 4.7 4.0	3.7 4.2 5.0 6.3 5.5	120.92 116.78 114.85 121.68 123.62	101.09 96.69 94.62 102.06 100.12	335.59 407.16 478.65 266.33 320.32	5,408.26 6,596.92 8,067.32 4,810.20 5,957.43
2010 2011 2012 2013 2014	2.5 2.6 1.4 1.4	5 2.4 1 1.3 1 1.3	2.4 1.3	2.6 1.5 1.6	1.6	3.3 3.5 2.1 2.1 1.7	4.0 4.3 3.7 3.4 3.0	124.96 131.48 135.11 132.11 139.68	102.95 109.53 111.18 105.92 114.37	368.72 304.60 380.03 466.53 468.39	6,914.19 5,898.35 7,612.39 9,552.16 9,805.55
2015 2016	0.5				0.5 0.3	1.2 1.0	2.4 2.1	139.52 142.50	112.42 112.72	508.80 526.55	10,743.01 11,481.06
2016 July Aug Sep	- 0.1 - 0.1 - 0.1	- 0.2 - 0.2 - 0.2	. – 0.2	- 0.1	0.2 0.1 0.1	0.7 0.6 0.6	1.7 1.6 1.6	144.06 144.30 144.47	116.16 115.34 115.53	481.02 491.68 490.14	10,337.50 10,592.69 10,511.02
Oct Nov Dec	0.0	2 0.1	- 0.1 0.0 0.1		0.2 0.4 0.4	0.7 1.0 1.0	1.7 2.0 2.0	142.59 142.37 142.50	113.12 112.33 112.72	494.25 490.37 526.55	10,665.01 10,640.30 11,481.06

1 Bearer debt securities with maximum maturities according to the terms of issue of over 4 years if their mean residual maturities exceed 3 years. Convertible debt securities, etc. debt securities with unscheduled redemption, zero-coupon bonds, floating-rate notes and bonds not denominated in euro are not included. Group yields for the various categories of securities are weighted by the amounts outstan-

ding of the debt securities included in the calculation. Monthly figures are calculated on the basis of the yields on all the business days in a month. The annual figures are the unweighted means of the monthly figures. **2** End of year or month. **3** Source: Deutsche Börse AG. **4** Only debt securities eligible as underlying instruments for futures contracts; calculated as unweighted averages.

6 Sales and purchases of mutual fund shares in Germany

	€ million													
		Sales							Purchases					
		Open-end o	lomestic mut	ual funds 1	(sales receip	ts)			Residents					
			Mutual fund general pub	ds open to th llic	ne					Credit institu including bui and loan asso	lding	Other secto	rc 3	
				of which								Other secto	13 5	1
Period	Sales = total pur- chases	Total	Total	Money market funds	Secur- ities- based funds	Real estate funds	Special- ised funds	Foreign funds 4	Total	Total	<i>of which</i> Foreign mutual fund shares	Total	<i>of which</i> Foreign mutual fund shares	Non-resi- dents 5
2004	14,435	1,453	- 3,978	- 6,160	- 1,246	3,245	5,431	12,982	10,267	8,446	3,796	1,821	9,186	4,168
2005 2006 2007 2008	85,268 47,264 55,778 2,598	41,718 19,535 13,436 – 7,911	6,400 - 14,257 - 7,872 - 14,409	- 124 490 - 4,839 - 12,171	7,001 - 9,362 - 12,848 - 11,149	- 3,186 - 8,814 6,840 799	35,317 33,791 21,307 6,498	43,550 27,729 42,342 10,509	79,252 39,006 51,309 11,315	21,290 14,676 – 229 – 16,625	7,761 5,221 4,240 – 9,252	57,962 24,330 51,538 27,940	35,789 22,508 38,102 19,761	
2009 2010 2011 2012 2013	49,929 106,190 46,511 111,236 123,743	43,747 84,906 45,221 89,942 91,337	10,966 13,381 - 1,340 2,084 9,184	- 5,047 - 148 - 379 - 1,036 - 574	11,749 8,683 – 2,037 97 5,596	2,686 1,897 1,562 3,450 3,376	32,780 71,345 46,561 87,859 82,153	6,182 21,284 1,291 21,293 32,407	38,132 102,591 39,474 114,676 117,675			53,127 98,718 47,050 117,738 116,904	14,361 14,994 1,984 22,855 32,305	7,036
2014 2015	139,011 181,632	97,711 146,136	3,998 30,420	- 473 318	862 22,345	1,000 3,636	93,713 115,716	41,302 35,495	144,168 176,116	819 7,362	- 1,745 494	143,349 168,754	43,046 35,001	- 5,154 5,515
2016 May June	9,441 11,123	8,249 10,640	2,461 1,664	- 50 42	1,132 565	1,111 755	5,788 8,976	1,192 483	9,280 11,561	887 557	- 65 - 87	8,393 11,004	1,257 570	161 - 439
July Aug Sep	9,383 8,572 12,075	7,899 5,151 8,123	1,862 1,038 900	- 195 - 125 39	1,706 843 28	280 109 631	6,038 4,113 7,224	1,484 3,421 3,952	10,904 9,140 12,285	1,208 - 922 648	186 – 1,679 132	9,696 10,062 11,637	1,298 5,100 3,820	- 567
Oct Nov	18,103 11,088	11,557 11,845	1,765 2,820	- 103 67	1,049 2,053	528 346	9,791 9,025	6,546 – 757	17,987 12,175	- 213 - 616		18,200 12,791	7,064 23	

1 Including public limited investment companies. 2 Book values. 3 Residual. 4 Net purchases or net sales (–) of foreign fund shares by residents; transaction values. 5 Net purchases or net sales (–) of domestic fund shares by non-residents;

transaction values. — The figures for the most recent date are provisional; revisions are not specially marked.

1 Acquisition of financial assets and external financing of non-financial corporations (non-consolidated)

				2015			2016		
1	2013	2014	2015	Q2	Q3	Q4	Q1	Q2	Q3
			-		- -	-	-	-	
Acquisition of financial assets									
Currency and deposits	4.45	1			1		1		
Debt securities short-term debt securities long-term debt securities	0.65 1.56 – 0.91	- 1.26 1.62 - 2.88	- 0.77	0.56 0.93 - 0.37	- 1.42	- 0.52 0.78 - 1.29	0.98		- 0
Memo item Debt securities of domestic sectors Non-financial corporations Financial corporations General government Debt securities of the rest of the world	- 1.27 0.81 - 2.14 0.07 1.91	- 1.88 - 0.05 - 1.26 - 0.57 0.62	- 0.41 - 1.66	0.24 0.59 - 0.27 - 0.08 0.32	- 0.32 0.87 0.39 - 0.42	- 0.38 - 0.52 0.58 - 0.44 - 0.14	0.66 0.31 - 0.46 0.37	- 1.80 - 0.62 - 0.78	- 0 0 0
Loans short-term loans long-term loans	9.29 27.76 – 18.47	14.41 36.06 - 21.66	30.53 25.14 5.39	5.87 1.64 4.23	1.13	0.20 1.97 – 1.77	6.50 3.21 3.29	- 0.60	- 3
Memo item to domestic sectors Non-financial corporations Financial corporations General government to the rest of the world	2.20 3.91 - 1.81 0.10 7.09	10.40 - 0.31 10.65 0.06 4.01	2.43 9.68 - 0.02 18.44	0.06 - 1.17 - 0.01 6.99	4.34 - 3.81 - 0.01 0.85	- 5.20 - 0.56 - 4.64 - 0.01 5.41	- 3.28 - 2.50 0.00 5.72	- 8.38 3.99 0.00 - 0.95	- 1 0 3
Equity and investment fund shares Equity Listed shares of domestic sectors Non-financial corporations Financial corporations	39.87 32.22 8.70 9.65 – 0.95	9.93 20.31 - 1.62 - 5.39 3.78		8.00 5.18 1.41 1.07 0.34	10.89 1.98 2.12 - 0.14	20.99 19.49 2.88 2.86 0.02	9.58 - 6.00 - 6.17 0.17	- 0.77 - 0.94 0.17	11 6 6 - 0
Listed shares of the rest of the world	3.37	- 4.85	12.38			3.00	1		
Other equity 1 Investment fund shares Money market fund shares Non-MMF investment fund shares	20.16 7.65 - 0.15 7.80	- 10.38 0.23 - 10.61	29.18 16.35 0.21 16.13	3.92 2.82 0.17 2.65 0.86	- 3.87 - 0.06 3.93	13.61 1.50 0.35 1.15 0.64	- 0.30 0.75	- 0.75 - 0.10 - 0.65	- 0 4
Insurance technical reserves Financial derivatives	3.02 6.49	1.05	2.97	- 2.41		0.64	2.40	1	2 - 4
Other accounts receivable	173.71	- 95.11	52.19	48.50	1	21.77	9.03	1	
Total	237.47	- 80.01	170.41	64.98	57.86	58.60	25.57	9.56	18
external financing									
Debt securities	12.78	1.26	7.78	4.91	0.46	_ 1.17	10.40	4.60	2
short-term securities long-term securities	- 1.12 13.90	- 11.63 12.89	1.96 5.82		1.01	- 0.27 - 0.89	2.04	0.18	- 0
Memo item Debt securities of domestic sectors Non-financial corporations Financial corporations General government Households	5.10 0.81 2.85 - 0.05 1.50	4.27 - 0.05 4.12 0.00 0.20	1.76 - 0.79 2.07 0.02 0.46	2.73 0.59 1.85 - 0.00 0.29	- 0.32 - 0.44 0.01	- 1.19 - 0.52 - 0.60 0.01 - 0.07	0.66	1.96 0.00	1
Debt securities of the rest of the world	7.67	- 3.01	6.02	2.19	1.18	0.03	5.43	3.33	1
Loans short-term loans long-term loans	26.84 24.45 2.40	1.81	42.52 24.57 17.94	16.70 14.91 1.79	- 2.82	- 1.26 4.01 - 5.27		- 3.38	4
Memo item from domestic sectors Non-financial corporations Financial corporations General government from the rest of the world	- 4.95 3.91 12.46 - 21.31 31.74	4.59 - 0.31 16.45 - 11.55 - 18.01	2.43 22.70	6.29 0.06 7.26 – 1.03 10.41	4.34 - 1.53 - 2.81	- 10.19 - 0.56 1.39 - 11.02 8.93	3.28 13.89 6.20	- 8.38 - 2.37 0.62	3 14 - 2
Equity	12.04	27.88	15.04	5.40	5.89	3.69	3.25	2.13	2
Listed shares of domestic sectors Non-financial corporations Financial corporations General government Households	- 4.47 9.65 - 5.02 - 0.88 - 8.21	- 0.34 - 5.39 2.22 0.03 2.80	7.36 - 8.04 11.75 0.11 3.55	- 3.65 1.07 - 5.34 0.01 0.61	- 2.12 - 6.36 0.02	11.39 2.86 5.09 0.01 3.43	- 6.17 - 1.14 0.03	- 0.94 3.22	- 2 0
Quoted shares of the rest of the world Other equity 1	- 8.21 7.80 8.70	9.09 19.13	- 1.34	5.36	1.97	- 10.04 2.34	2.72		- 4
Insurance technical reserves Financial derivatives and employee	6.34	6.41	5.06	1.27	1.27	1.27	1.27	1.27	1
stock options Other accounts payable	3.72 19.83	1.93 - 10.06	1	- 16.16		- 4.25 10.01	5.65 8.40	1	1
	13.03	10.00		10.93	0.49	10.01	0.40	1.2/	c

1 Including unlisted shares.

2 Financial assets and liabilities of non-financial corporations (non-consolidated)

End-of-year level, end-of-quarter level; € billion

				2015			2016		
1	2013	2014	2015	Q2	Q3	Q4	Q1	Q2	Q3
inancial assets									
Currency and deposits	411.3	405.8	462.6	396.3	431.0	462.6	454.1	464.8	50
Debt securities	45.0	49.6	47.8	48.4	48.4	47.8	48.8	45.7	
short-term debt securities	5.1 39.9	6.8	6.0 41.7	6.7	5.2	6.0 41.7	7.0	6.3	
long-term debt securities	59.9	42.9	41.7	41.7	43.2	41.7	41.7	39.3	·
Memo item Debt securities of domestic sectors	24.6	22.9	23.3	23.0	23.8	23.3	23.8	21.4	
Non-financial corporations	4.7	4.6	3.6	4.5	4.2 14.0	3.6	4.3 14.8	4.2	
Financial corporations General government	13.8	12.7	14.5	13.2	5.6	14.5 5.2	4.8	13.0 4.2	
Debt securities of the rest of the world	20.5	26.7	24.4	25.4	24.7	24.4	24.9	24.3	
Loans short-term loans	446.5 340.0	465.6 375.8	496.0 399.8	498.0 399.5	497.3 399.7	496.0 399.8	500.1 401.8	495.1 401.6	4
long-term loans	106.5	89.8	96.2	98.4	97.7	96.2	98.4	93.5	1
Memo item									
to domestic sectors Non-financial corporations	304.7 216.5	315.1 216.2	327.2 218.7	331.9 214.9	332.4 219.2	327.2 218.7	328.0 221.9	323.6 213.6	3
Financial corporations	82.1	92.8	102.4	110.9	107.1	102.4	100.0	104.0	
General government to the rest of the world	6.0 141.8	6.1 150.5	6.1 168.8	6.1 166.1	6.1 165.0	6.1 168.8	6.1 172.1	6.1 171.5	1
Equity and investment fund shares	1,658.3	1,726.5	1,905.6	1,888.8	1,781.0	1,905.6	1,839.6	1,808.3	1,8
Equity	1,520.2	1,591.0	1,753.6	1,738.8	1,781.0	1,753.6	1,639.0	1,656.6	1,0
Listed shares of domestic sectors	275.4	262.2	273.0	274.6	239.0	273.0	248.1	239.4	2
Non-financial corporations	269.8	252.2	266.6	267.4	233.2	266.6	242.0	233.7	2
Financial corporations Listed shares of the rest of the world	5.7 54.2	10.0	6.3	7.2	5.9 58.7	6.3 62.5	6.1	5.7 62.1	
Other equity 1	1,190.6	1,278.8	1,418.2	1,400.7	1,333.5	1,418.2	1,377.6	1,355.1	1,3
Investment fund shares Money market fund shares	138.1	135.5	151.9	150.0	149.8 1.0	151.9 1.4	151.1	151.7	1
Non-MMF investment fund shares	137.0	134.4	150.6	149.0	148.8	150.6	150.1	150.6	1
Insurance technical reserves	46.1	47.3	50.0	48.6	49.3	50.0	52.6	55.2	
Financial derivatives	16.8	22.7	24.0	23.0	24.6	24.0	23.3	25.5	
Other accounts receivable	891.1	857.8	927.7	926.7	921.7	927.7	921.3	921.5	9
Total	3,515.1	3,575.4	3,913.6	3,829.8	3,753.4	3,913.6	3,839.8	3,816.0	3,8
iabilities									
Debt securities	138.9	150.9	156.8	157.2	158.1	156.8	173.1	179.0	1
					130.1	0.0CI			
short-term securities	13.4	1.8	3.0	2.3	3.3	3.0	5.1	5.3	
short-term securities long-term securities	13.4 125.4			1			5.1 168.0	5.3 173.7	1
long-term securities Memo item	125.4	1.8 149.1	3.0 153.7	2.3 154.9	3.3 154.8	3.0 153.7	168.0	173.7	
long-term securities Memo item Debt securities of domestic sectors Non-financial corporations	125.4 51.1 4.7	1.8 149.1 60.2 4.6	3.0 153.7 58.7 3.6	2.3 154.9 62.7 4.5	3.3 154.8 60.7 4.2	3.0 153.7 58.7 3.6	168.0 65.9 4.3	173.7 68.2 4.2	
long-term securities Memo item Debt securities of domestic sectors Non-financial corporations Financial corporations	125.4 51.1 4.7 30.8	1.8 149.1 60.2 4.6 39.8	3.0 153.7 58.7 3.6 40.0	2.3 154.9 62.7 4.5 42.8	3.3 154.8 60.7 4.2 41.3	3.0 153.7 58.7 3.6 40.0	168.0 65.9 4.3 46.0	173.7 68.2 4.2 49.1	
long-term securities Memo item Debt securities of domestic sectors Non-financial corporations Financial corporations General government Households	125.4 51.1 4.7 30.8 0.1 15.6	1.8 149.1 60.2 4.6 39.8 0.1 15.8	3.0 153.7 58.7 3.6 40.0 0.1 15.0	2.3 154.9 62.7 4.5 42.8 0.1 15.3	3.3 154.8 60.7 4.2 41.3 0.1 15.2	3.0 153.7 58.7 3.6 40.0 0.1 15.0	168.0 65.9 4.3 46.0 0.1 15.6	173.7 68.2 4.2 49.1 0.1 14.9	
long-term securities Memo item Debt securities of domestic sectors Non-financial corporations Financial corporations General government Households Debt securities of the rest of the world	125.4 51.1 4.7 30.8 0.1 15.6 87.8	1.8 149.1 60.2 4.6 39.8 0.1 15.8 90.7	3.0 153.7 58.7 3.6 40.0 0.1 15.0 98.1	2.3 154.9 62.7 4.5 42.8 0.1 15.3 94.5	3.3 154.8 60.7 4.2 41.3 0.1 15.2 97.4	3.0 153.7 58.7 3.6 40.0 0.1 15.0 98.1	168.0 65.9 4.3 46.0 0.1 15.6 107.2	173.7 68.2 4.2 49.1 0.1 14.9 110.8	1
long-term securities Memo item Debt securities of domestic sectors Non-financial corporations Financial corporations General government Households Debt securities of the rest of the world Loans	125.4 51.1 4.7 30.8 0.1 15.6	1.8 149.1 60.2 4.6 39.8 0.1 15.8	3.0 153.7 58.7 3.6 40.0 0.1 15.0	2.3 154.9 62.7 4.5 42.8 0.1 15.3	3.3 154.8 60.7 4.2 41.3 0.1 15.2	3.0 153.7 58.7 3.6 40.0 0.1 15.0	168.0 65.9 4.3 46.0 0.1 15.6 107.2 1,459.4	173.7 68.2 4.2 49.1 0.1 14.9	1
long-term securities Memo item Debt securities of domestic sectors Non-financial corporations Financial corporations General government Households Debt securities of the rest of the world	125.4 51.1 4.7 30.8 0.1 1566 87.8 1,411.2	1.8 149.1 60.2 4.6 39.8 0.1 15.8 90.7 1,383.6 496.0	3.0 153.7 58.7 3.6 40.0 0.1 15.0 98.1 1,427.3	2.3 154.9 62.7 4.5 42.8 0.1 15.3 94.5 1,433.1	3.3 154.8 60.7 4.2 41.3 0.1 15.2 97.4 1,431.3	3.0 153.7 58.7 3.6 40.0 0.1 15.0 98.1 1,427.3	168.0 65.9 4.3 46.0 0.1 15.6 107.2 1,459.4	173.7 68.2 4.2 49.1 0.1 14.9 110.8 1,462.6	1 1,4 5
long-term securities Memo item Debt securities of domestic sectors Non-financial corporations Financial corporations General government Households Debt securities of the rest of the world Loans short-term loans long-term loans Memo item	125.4 51.1 4.7 30.8 0.1 15.6 87.8 1,411.2 494.2 917.0	1.8 149.1 60.2 4.6 39.8 0.1 15.8 90.7 1,383.6 496.0 887.6	3.0 153.7 58.7 3.6 40.0 0.1 15.0 98.1 1,427.3 521.0 906.3	2.3 154.9 62.7 4.5 42.8 0.1 15.3 94.5 1,433.1 522.3 910.8	3.3 154.8 60.7 4.2 41.3 0.1 15.2 97.4 1,431.3 518.2 913.1	3.0 153.7 3.6 40.0 0.1 15.0 98.1 1,427.3 521.0 906.3	168.0 65.9 4.3 46.0 0.1 15.6 107.2 1,459.4 537.7 921.7	173.7 68.2 4.2 49.1 0.1 14.9 110.8 1,462.6 534.0 928.5	1 1,4 5 9
long-term securities Memo item Debt securities of domestic sectors Non-financial corporations Financial corporations General government Households Debt securities of the rest of the world Loans short-term loans long-term loans	125.4 51.1 4.7 30.8 0.1 15.6 87.8 1,411.2 494.2	1.8 149.1 60.2 4.6 39.8 0.1 15.8 90.7 1,383.6 496.0	3.0 153.7 58.7 3.6 40.0 0.1 15.0 98.1 1,427.3 521.0	2.3 154.9 62.7 4.5 42.8 0.1 15.3 94.5 1,433.1 522.3	3.3 154.8 60.7 4.2 41.3 0.1 15.2 97.4 1,431.3 518.2	3.0 153.7 58.7 3.6 40.0 0.1 15.0 98.1 1,427.3 521.0 906.3 1,092.6	168.0 65.9 4.3 46.0 0.1 15.6 107.2 1,459.4 537.7	173.7 68.2 49.1 0.1 14.9 110.8 1,462.6 534.0	1 1,4 5 9 1,1
long-term securities Memo item Debt securities of domestic sectors Non-financial corporations Financial corporations General government Households Debt securities of the rest of the world Loans short-term loans long-term loans Memo item from domestic sectors Non-financial corporations Financial corporations	125.4 51.1 4.7 30.8 0.1 15.6 87.8 1,411.2 494.2 917.0 1,091.5 216.5 809.3	1.8 149.1 60.2 4.6 39.8 0.1 15.8 90.7 1,383.6 496.0 887.6 1,078.1 216.2 805.6	3.0 153.7 58.7 3.6 40.0 0.1 15.0 98.1 1,427.3 521.0 906.3 1,092.6 218.7 825.4	2.3 154.9 62.7 4.5 42.8 0.1 15.3 94.5 1,433.1 522.3 910.8 1,106.2 214.9 829.5	3.3 154.8 60.7 4.2 41.3 0.1 15.2 97.4 1,431.3 518.2 913.1 1,107.0 219.2 828.1	3.0 153.7 58.7 3.6 40.0 0.1 15.0 98.1 1,427.3 521.0 906.3 1,092.6 218.7 825.4	168.0 65.9 4.3 46.0 0.1 15.6 107.2 1,459.4 537.7 921.7 921.7 1,116.1 221.9 836.0	173.7 68.2 4.2 49.1 14.9 110.8 1,462.6 534.0 928.5 1,101.9 213.6 829.3	1 1,4 5 9 1,1 2 8
long-term securities Memo item Debt securities of domestic sectors Non-financial corporations Financial corporations General government Households Debt securities of the rest of the world Loans short-term loans long-term loans Memo item from domestic sectors Non-financial corporations	125.4 51.1 4.7 30.8 0.1 15.6 87.8 1,411.2 494.2 917.0 1,091.5 216.5	1.8 149.1 60.2 4.6 39.8 0.1 15.8 90.7 1,383.6 496.0 887.6 1,078.1 216.2 805.6 56.3	3.0 153.7 58.7 3.6 40.0 0.1 15.0 98.1 1,427.3 521.0 906.3 1,092.6 218.7	2.3 154.9 62.7 4.5 42.8 0.1 15.3 94.5 1,433.1 522.3 910.8 1,106.2 214.9	3.3 154.8 60.7 4.2 41.3 0.1 15.2 97.4 1,431.3 518.2 913.1 1,107.0 219.2	3.0 153.7 3.6 40.0 0.1 15.0 98.1 1,427.3 521.0 906.3 1,092.6 218.7	168.0 65.9 4.3 46.0 0.1 15.6 107.2 1,459.4 537.7 921.7 1,116.1 221.9 836.0 58.2	173.7 68.2 49.1 0.1 14.9 110.8 1,462.6 534.0 928.5 1,101.9 213.6 829.3 59.1	1 1,4 5 9 1,1 2 8
long-term securities Memo item Debt securities of domestic sectors Non-financial corporations Financial corporations General government Households Debt securities of the rest of the world Loans short-term loans long-term loans Memo item from domestic sectors Non-financial corporations Financial corporations General government	125.4 51.1 4.7 30.8 0.1 15.6 87.8 1,411.2 494.2 917.0 1,091.5 216.5 809.3 65.6	1.8 149.1 60.2 4.6 39.8 0.1 15.8 90.7 1,383.6 496.0 887.6 1,078.1 216.2 805.6 56.3	3.0 153.7 58.7 3.6 40.0 0.1 15.0 98.1 1,427.3 521.0 906.3 1,092.6 218.7 825.4 48.6	2.3 154.9 62.7 4.5 42.8 0.1 15.3 94.5 1,433.1 522.3 910.8 1,106.2 214.9 829.5 61.8	3.3 154.8 60.7 4.2 41.3 0.1 15.2 97.4 1,431.3 518.2 913.1 1,107.0 219.2 828.1 59.8	3.0 153.7 58.7 3.6 40.0 0.1 15.0 98.1 1,427.3 521.0 906.3 1,092.6 218.7 825.4 48.6	168.0 65.9 4.3 46.0 0.1 15.6 107.2 1,459.4 537.7 921.7 1,116.1 221.9 836.0 58.2	173.7 68.2 49.1 0.1 14.9 110.8 1,462.6 534.0 928.5 1,101.9 213.6 829.3 59.1	1 1,4 5 9 1,1 2 8 3
long-term securities Memo item Debt securities of domestic sectors Non-financial corporations Financial corporations General government Households Debt securities of the rest of the world Loans short-term loans long-term loans Memo item from domestic sectors Non-financial corporations Financial corporations General government from the rest of the world Equity Listed shares of domestic sectors	125.4 51.1 4.7 30.8 0.1 15.6 87.8 1,411.2 494.2 917.0 1,091.5 216.5 809.3 65.6 319.8 2,436.6 571.9	1.8 149.1 60.2 4.6 39.8 90.7 1,383.6 496.0 887.6 1,078.1 216.2 805.6 563 305.5 2,542.2 570.8	3.0 153.7 58.7 3.6 40.0 0.1 15.0 98.1 1,427.3 521.0 906.3 1,092.6 218.7 825.4 48.6 334.6 2,670.9 626.4	2.3 154.9 62.7 4.5 42.8 0.1 15.3 94.5 1,433.1 522.3 910.8 1,106.2 214.9 829.5 61.8 326.9 2,715.7 625.1	3.3 154.8 60.7 4.2 41.3 0.1 15.2 97.4 1,431.3 518.2 913.1 1,107.0 219.2 828.1 59.8 324.3 2,484.8 551.6	3.0 153.7 58.7 3.6 40.0 0.1 15.0 98.1 1,427.3 521.0 906.3 1,092.6 218.7 825.4 48.6 334.6 2,670.9 626.4	168.0 65.9 4.3 46.0 0.1 15.6 107.2 1,459.4 537.7 921.7 1,116.1 221.9 836.0 58.2 343.3 2,567.4 585.2	173.7 68.2 4.2 49.1 0.1 14.9 110.8 1,462.6 534.0 928.5 1,101.9 213.6 829.3 59.1 360.7 2,487.3 569.6	1 1,4 5 9 1,1 2 8 3 2,6 6
long-term securities Memo item Debt securities of domestic sectors Non-financial corporations General government Households Debt securities of the rest of the world Loans short-term loans long-term loans Memo item from domestic sectors Non-financial corporations General government from the rest of the world Equity Listed shares of domestic sectors Non-financial corporations	125.4 51.1 4.7 30.8 0.1 15.6 87.8 1,411.2 494.2 917.0 1,091.5 216.5 809.3 65.6 319.8 2,436.6 571.9 269.8	1.8 149.1 60.2 4.6 39.8 0.1 15.8 90.7 1,383.6 496.0 887.6 1,078.1 216.2 805.6 56.3 305.5 2,542.2 570.8 252.2	3.0 153.7 58.7 3.6 40.0 0.1 15.0 98.1 1,427.3 521.0 906.3 1,092.6 218.7 825.4 48.6 334.6 2,670.9 626.4 266.6	2.3 154.9 62.7 4.5 42.8 0.1 15.3 94.5 1,433.1 522.3 910.8 1,106.2 214.9 829.5 61.8 326.9 2,715.7 625.1 267.4	3.3 154.8 60.7 4.2 41.3 0.1 15.2 97.4 1,431.3 518.2 913.1 1,107.0 219.2 828.1 59.8 324.3 2,484.8 551.6 233.2	3.0 153.7 3.6 40.0 98.1 1,427.3 521.0 906.3 1,092.6 218.7 825.4 48.6 334.6 2,670.9 626.4 266.6	168.0 65.9 4.3 46.0 0.1 15.6 107.2 1,459.4 537.7 921.7 1,116.1 221.9 836.0 58.2 343.3 2,567.4 58.2 242.0	173.7 68.2 49.1 0.1 14.9 110.8 1,462.6 534.0 928.5 1,101.9 213.6 829.3 59.1 360.7 2,487.3 569.6 233.7	9 1,1 2 8 2,6 6 2
long-term securities Memo item Debt securities of domestic sectors Non-financial corporations Financial corporations General government Households Debt securities of the rest of the world Loans short-term loans long-term loans Memo item from domestic sectors Non-financial corporations Financial corporations General government from the rest of the world Equity Listed shares of domestic sectors	125.4 51.1 4.7 30.8 0.1 15.6 87.8 1,411.2 494.2 917.0 1,091.5 216.5 809.3 65.6 319.8 2,436.6 571.9	1.8 149.1 60.2 4.6 39.8 90.7 1,383.6 496.0 887.6 1,078.1 216.2 805.6 563 305.5 2,542.2 570.8	3.0 153.7 58.7 3.6 40.0 0.1 15.0 98.1 1,427.3 521.0 906.3 1,092.6 218.7 825.4 48.6 334.6 2,670.9 626.4	2.3 154.9 62.7 4.5 42.8 0.1 15.3 94.5 1,433.1 522.3 910.8 1,106.2 214.9 829.5 61.8 326.9 2,715.7 625.1	3.3 154.8 60.7 4.2 41.3 0.1 15.2 97.4 1,431.3 518.2 913.1 1,107.0 219.2 828.1 59.8 324.3 2,484.8 551.6	3.0 153.7 58.7 3.6 40.0 0.1 15.0 98.1 1,427.3 521.0 906.3 1,092.6 218.7 825.4 48.6 334.6 2,670.9 626.4	168.0 65.9 4.3 46.0 0.1 15.6 107.2 1,459.4 537.7 921.7 1,116.1 221.9 836.0 58.2 343.3 2,567.4 585.2	173.7 68.2 4.2 49.1 0.1 14.9 110.8 1,462.6 534.0 928.5 1,101.9 213.6 829.3 59.1 360.7 2,487.3 569.6	1 1,4 5 9 1,1 2 8 3 2,6 6
long-term securities Memo item Debt securities of domestic sectors Non-financial corporations General government Households Debt securities of the rest of the world Loans short-term loans long-term loans Memo item from domestic sectors Non-financial corporations Financial corporations General government from the rest of the world Equity Listed shares of domestic sectors Non-financial corporations General government Households	125.4 51.1 4.7 30.8 0.1 15.6 87.8 1,411.2 494.2 917.0 1,091.5 216.5 809.3 65.6 319.8 2,436.6 571.9 269.8 120.3 352.2 146.6	1.8 149.1 60.2 4.6 39.8 0.1 15.8 90.7 1,383.6 496.0 887.6 1,078.1 216.2 805.6 56.3 305.5 2,542.2 570.8 252.2 134.7 35.2 148.7	3.0 153.7 58.7 3.6 40.0 98.1 1,427.3 521.0 906.3 1,092.6 218.7 825.4 48.6 334.6 2,670.9 626.4 266.6 150.1 43.4 166.2	2.3 154.9 62.7 4.5 42.8 0.1 15.3 94.5 1,433.1 522.3 910.8 1,106.2 214.9 829.5 61.8 326.9 2,715.7 625.1 267.4 159.4 39.5 158.8	3.3 154.8 60.7 4.2 41.3 0.1 15.2 97.4 1,431.3 518.2 913.1 1,107.0 219.2 828.1 59.8 324.3 2,484.8 551.6 233.2 130.8 41.1 146.5	3.0 153.7 3.6 40.0 98.1 1,427.3 521.0 906.3 1,092.6 218.7 825.4 48.6 334.6 2,670.9 626.4 266.6 150.1 43.4	168.0 65.9 4.3 46.0 0.1 15.6 107.2 1,459.4 537.7 921.7 1,116.1 221.9 83.60 58.2 343.3 2,567.4 585.2 242.0 140.3 41.5 161.5	173.7 68.2 49.1 0.1 14.9 110.8 1,462.6 534.0 928.5 1,101.9 213.6 829.3 59.1 360.7 2,487.3 569.6 233.7 139.2 40.4 156.3	1 1,4 5 9 1,1 2 8 3 2,6 6 2 1 1
long-term securities Memo item Debt securities of domestic sectors Non-financial corporations General government Households Debt securities of the rest of the world Loans short-term loans long-term loans Memo item from domestic sectors Non-financial corporations Financial corporations General government from the rest of the world Equity Listed shares of domestic sectors Non-financial corporations Financial corporations General government Households Quoted shares of the rest of the world	125.4 51.1 4.7 30.8 0.1 15.6 87.8 1,411.2 494.2 917.0 1,091.5 216.5 809.3 65.6 319.8 2,436.6 571.9 269.8 120.3 35.2 146.6 670.8	1.8 149.1 60.2 4.6 39.8 0.1 15.8 90.7 1,383.6 496.0 887.6 1,078.1 216.2 805.6 56.3 305.5 2,542.2 570.8 252.2 134.7 35.2 134.7 35.2	3.0 153.7 58.7 3.6 40.0 98.1 1,5.0 98.1 1,427.3 521.0 906.3 1,092.6 218.7 825.4 48.6 334.6 2,670.9 626.4 266.6 150.1 43.4 43.4	2.3 154.9 62.7 4.5 42.8 0.1 15.3 94.5 1,433.1 522.3 910.8 1,106.2 214.9 829.5 61.8 326.9 2,715.7 625.1 267.4 159.4 39.5 158.8 789.6	3.3 154.8 60.7 4.2 41.3 0.1 15.2 97.4 1,431.3 518.2 913.1 1,107.0 219.2 828.1 59.8 324.3 2,484.8 55.8 324.3 2,484.8 51.6 233.2 130.8 41.1 146.5 693.2	3.0 153.7 3.6 40.0 98.1 1,427.3 521.0 906.3 1,092.6 218.7 825.4 48.6 334.6 2,670.9 626.4 266.6 150.1 43.4 43.4	168.0 65.9 4.3 46.0 0.1 15.6 107.2 1,459.4 537.7 921.7 1,116.1 221.9 836.0 58.2 343.3 2,567.4 585.2 242.0 140.3 41.5 565.2 242.0 140.3 41.5 161.5 724.7	173.7 68.2 49.1 0.1 14.9 110.8 1,462.6 534.0 928.5 1,101.9 213.6 829.3 59.1 360.7 2,487.3 569.6 233.7 139.2 40.4 156.3 684.7	1 1,4 5 9 1,1 2 8 3 2,6 6 2 1 1 7
long-term securities Memo item Debt securities of domestic sectors Non-financial corporations General government Households Debt securities of the rest of the world Loans short-term loans long-term loans Memo item from domestic sectors Non-financial corporations General government from the rest of the world Equity Listed shares of domestic sectors Non-financial corporations General government Households Quoted shares of the rest of the world Other equity 1	125.4 51.1 4.7 30.8 0.1 15.6 87.8 1,411.2 494.2 917.0 1,091.5 216.5 809.3 65.6 319.8 2,436.6 571.9 269.8 120.3 35.2 146.6 670.8	1.8 149.1 60.2 4.6 39.8 0.1 15.8 90.7 1,383.6 496.0 887.6 1,078.1 216.2 805.6 56.3 305.5 2,542.2 570.8 252.2 134.7 35.2 134.7 719.1 1,252.3	3.0 153.7 3.6 40.0 98.1 1,5.0 98.1 1,427.3 521.0 906.3 1,092.6 218.7 825.4 48.6 334.6 2,670.9 626.4 266.6 150.1 43.4 43.4 166.2 756.3 1,288.3	2.3 154.9 62.7 4.5 42.8 0.1 15.3 94.5 1,433.1 522.3 910.8 1,106.2 214.9 829.5 61.8 326.9 2,715.7 625.1 267.4 159.4 39.5 158.8 789.6 1,301.0	3.3 154.8 60.7 4.2 41.3 0.1 15.2 97.4 1,431.3 518.2 913.1 1,107.0 219.2 828.1 59.8 324.3 2,484.8 551.6 233.2 130.8 41.1 146.5 693.2 1,240.0	3.0 153.7 3.6 40.0 98.1 1,427.3 521.0 906.3 1,092.6 218.7 825.4 48.6 334.6 2,670.9 626.4 266.6 150.1 43.4 43.4 256.3 1,288.3	168.0 65.9 4.3 46.0 0.1 15.6 107.2 1,459.4 537.7 921.7 1,116.1 221.9 836.0 58.2 343.3 2,567.4 585.2 242.0 140.3 41.5 724.7 1,257.5	173.7 68.2 4.2 49.1 0.1 14.9 110.8 1,462.6 534.0 928.5 1,101.9 213.6 829.3 59.1 360.7 2,487.3 569.6 233.7 139.2 40.4 156.3 684.7 1,233.0	1 1,4 5 9 1,1 2 8 3 2,6 6 2 2 1 1 7 7 7 7
long-term securities Memo item Debt securities of domestic sectors Non-financial corporations General government Households Debt securities of the rest of the world Loans short-term loans long-term loans Memo item from domestic sectors Non-financial corporations General government from the rest of the world Equity Listed shares of domestic sectors Non-financial corporations General government Households Quoted shares of the rest of the world Other equity 1 Insurance technical reserves	125.4 51.1 4.7 30.8 0.1 15.6 87.8 1,411.2 494.2 917.0 1,091.5 216.5 809.3 65.6 319.8 2,436.6 571.9 269.8 120.3 35.2 146.6 670.8	1.8 149.1 60.2 4.6 39.8 0.1 15.8 90.7 1,383.6 496.0 887.6 1,078.1 216.2 805.6 56.3 305.5 2,542.2 570.8 252.2 134.7 35.2 134.7 35.2	3.0 153.7 58.7 3.6 40.0 98.1 1,5.0 98.1 1,427.3 521.0 906.3 1,092.6 218.7 825.4 48.6 334.6 2,670.9 626.4 266.6 150.1 43.4 43.4	2.3 154.9 62.7 4.5 42.8 0.1 15.3 94.5 1,433.1 522.3 910.8 1,106.2 214.9 829.5 61.8 326.9 2,715.7 625.1 267.4 159.4 39.5 158.8 789.6	3.3 154.8 60.7 4.2 41.3 0.1 15.2 97.4 1,431.3 518.2 913.1 1,107.0 219.2 828.1 59.8 324.3 2,484.8 55.8 324.3 2,484.8 51.6 233.2 130.8 41.1 146.5 693.2	3.0 153.7 3.6 40.0 98.1 1,427.3 521.0 906.3 1,092.6 218.7 825.4 48.6 334.6 2,670.9 626.4 266.6 150.1 43.4 43.4	168.0 65.9 4.3 46.0 0.1 15.6 107.2 1,459.4 537.7 921.7 1,116.1 221.9 836.0 58.2 343.3 2,567.4 585.2 242.0 140.3 41.5 565.2 242.0 140.3 41.5 161.5 724.7	173.7 68.2 49.1 0.1 14.9 110.8 1,462.6 534.0 928.5 1,101.9 213.6 829.3 59.1 360.7 2,487.3 569.6 233.7 139.2 40.4 156.3 684.7	1 1,4 5 9 1,1 2 8 3 2,6 6 2 2 1 1 7 7 7 7
long-term securities Memo item Debt securities of domestic sectors Non-financial corporations General government Households Debt securities of the rest of the world Loans short-term loans long-term loans Memo item from domestic sectors Non-financial corporations General government from the rest of the world Equity Listed shares of domestic sectors Non-financial corporations General government Households Quoted shares of the rest of the world Other equity 1 Insurance technical reserves Financial derivatives and employee	125.4 51.1 4.7 30.8 0.1 15.6 87.8 1,411.2 494.2 917.0 1,091.5 216.5 809.3 65.6 319.8 2,436.6 571.9 268.8 120.3 35.2 146.6 670.8 1,194.0 243.9	1.8 149.1 60.2 4.6 39.8 0.1 15.8 90.7 1,383.6 496.0 887.6 1,078.1 216.2 805.6 56.3 305.5 2,542.2 570.8 252.2 134.7 35.2 148.7 719.1 1,252.3 250.3	3.0 153.7 58.7 3.6 40.0 98.1 1,427.3 521.0 906.3 1,092.6 218.7 825.4 48.6 334.6 2,670.9 626.4 266.6 150.1 43.4 166.2 756.3 1,288.3 2,55.4	2.3 154.9 62.7 4.5 42.8 0.1 15.3 94.5 1,433.1 522.3 910.8 1,106.2 214.9 829.5 61.8 326.9 2,715.7 625.1 267.4 159.4 39.5 158.8 789.6 1,301.0 252.8	3.3 154.8 60.7 4.2 41.3 0.1 15.2 97.4 1,431.3 518.2 913.1 1,107.0 219.2 828.1 59.8 324.3 2,484.8 551.6 233.2 130.8 41.1 146.5 693.2 1,240.0 254.1	3.0 153.7 58.7 3.6 40.0 98.1 1,50 906.3 1,092.6 218.7 825.4 48.6 334.6 2,670.9 626.4 266.6 150.1 43.4 166.2 756.3 1,288.3 2,55.4	168.0 65.9 4.3 46.0 0.1 15.6 107.2 1,459.4 537.7 921.7 1,116.1 221.9 836.0 58.2 343.3 2,567.4 585.2 242.0 140.3 41.5 161.5 724.7 1,257.5 256.6	173.7 68.2 4.2 49.1 0.1 14.9 110.8 1,462.6 534.0 928.5 1,101.9 213.6 829.3 59.1 360.7 2,487.3 569.6 233.7 139.2 40.4 156.3 684.7 1,233.0 257.9	1 1,4,5 9 1,1 2,6 6 2 2,6 1 1 7 7 7 1,2 2 2
long-term securities Memo item Debt securities of domestic sectors Non-financial corporations General government Households Debt securities of the rest of the world Loans short-term loans long-term loans Memo item from domestic sectors Non-financial corporations General government from the rest of the world Equity Listed shares of domestic sectors Non-financial corporations General government Households Quoted shares of the rest of the world Other equity 1 Insurance technical reserves	125.4 51.1 4.7 30.8 0.1 15.6 87.8 1,411.2 494.2 917.0 1,091.5 216.5 809.3 65.6 319.8 2,436.6 571.9 269.8 120.3 35.2 146.6 670.8	1.8 149.1 60.2 4.6 39.8 0.1 15.8 90.7 1,383.6 496.0 887.6 1,078.1 216.2 805.6 56.3 305.5 2,542.2 570.8 252.2 134.7 35.2 134.7 719.1 1,252.3	3.0 153.7 3.6 40.0 98.1 1,5.0 98.1 1,427.3 521.0 906.3 1,092.6 218.7 825.4 48.6 334.6 2,670.9 626.4 266.6 150.1 43.4 43.4 166.2 756.3 1,288.3	2.3 154.9 62.7 4.5 42.8 0.1 15.3 94.5 1,433.1 522.3 910.8 1,106.2 214.9 829.5 61.8 326.9 2,715.7 625.1 267.4 159.4 39.5 158.8 789.6 1,301.0	3.3 154.8 60.7 4.2 41.3 0.1 15.2 97.4 1,431.3 518.2 913.1 1,107.0 219.2 828.1 59.8 324.3 2,484.8 551.6 233.2 130.8 41.1 146.5 693.2 1,240.0	3.0 153.7 3.6 40.0 98.1 1,427.3 521.0 906.3 1,092.6 218.7 825.4 48.6 334.6 2,670.9 626.4 266.6 150.1 43.4 43.4 256.3 1,288.3	168.0 65.9 4.3 46.0 0.1 15.6 107.2 1,459.4 537.7 921.7 1,116.1 221.9 836.0 58.2 343.3 2,567.4 585.2 242.0 140.3 41.5 724.7 1,257.5	173.7 68.2 4.2 49.1 0.1 14.9 110.8 1,462.6 534.0 928.5 1,101.9 213.6 829.3 59.1 360.7 2,487.3 569.6 233.7 139.2 40.4 156.3 684.7 1,233.0	1 1,4 5 9 1,1 2 8 2,6 6 2 1

1 Including unlisted shares.

3 Acquisition of financial assets and external financing of households (non-consolidated)

				2015			2016		
n	2013	2014	2015	Q2	Q3	Q4	Q1	Q2	Q3
cquisition of financial assets									
Currency and deposits	63.87	85.82	96.61						19.
Currency Deposits	8.08 55.79	15.64 70.18	25.45 71.16	6.84 23.96		7.75	2.99	1.04 24.26	2. 17.
Transferable deposits	89.41	73.84	100.96	34.43		31.24	7.24	24.20	23.
Time deposits	- 9.78	8.74	- 9.22	- 3.12		0.44	0.83	28.09	- 1.
Savings deposits	- 5.76	0.74	- 5.22	- 5.12		0.44	0.05	2.10	- '.
(including savings certifikates)	- 23.85	- 12.41	- 20.58	- 7.35	- 5.32	- 1.43	- 2.37	- 5.99	- 4
Debt securities	- 17.81	- 18.00	- 17.40	- 5.09	- 1.87	- 3.07	- 1.76	- 4.10	- 3.
short-term debt securities long-term debt securities	- 0.36 - 17.45	- 0.67 - 17.33	0.75 - 18.16	0.31 - 5.40			0.10 - 1.86	- 0.62 - 3.48	- 3
Memo item Debt securities of domestic sectors Non-financial corporations Financial corporations General government	- 14.86 1.24 - 12.46 - 3.64	- 15.08 0.02 - 12.52 - 2.58	- 9.34 0.39 - 6.80 - 2.93	- 2.98 0.23 - 2.40 - 0.81	0.02 0.44	- 0.07 - 0.78			- 1. 0. - 1. - 0.
Debt securities of the rest of the world	- 2.94	- 2.93	- 8.06	- 2.11	- 1.71	- 1.62	- 2.84	- 2.53	- 1
Equity and investment fund shares	9.63	36.87	46.39	10.53	16.85	14.48	15.67	11.57	10
Equity	- 0.41	12.17	15.03	2.87	11.73	6.69	10.26	5.22	3
Listed Shares of domestic sectors	- 5.63	4.61	4.06	1.13		2.79	6.59	2.69	0
Non-financial corporations Financial corporations	- 5.29	2.69 1.93	3.77 0.28	0.49		2.76	4.52	0.69 2.00	- 0 0
Quoted shares of the rest of the world	2.99	3.70	6.75	0.80			1.65	1.21	2
Other equity 1	2.24	3.86	4.22	0.95		1.60	2.02	1.32	1
Investment fund shares	10.04	24.70	31.36	7.66		7.79	5.41	6.35	6
Money market fund shares Non-MMF investment fund shares	- 0.30 10.34	- 0.34 25.04	- 0.57 31.93	- 0.02 7.68	- 0.10				0
Non-life insurance technical reserves and provision for calls under standardised guarantees	26.02	24.47	20.08	4.89	4.78	5.12	5.83	5.86	5
Life insurance and annuity entitlements	31.69	30.40	31.36	6.89	6.19	7.14	17.63	6.35	7
Pension entitlement, claims of pension funds on pension managers, entitlements to non-pension benefits	19.39	35.34	31.30	6.71	5.81	6.96	5.28	6.58	5
Financial derivatives and employee stock options	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
Other accounts receivable 2	14.16	- 33.07	- 24.36	- 9.93	- 1.80	- 25.38	9.40	- 4.06	– 3
Total	146.96	161.82	183.97	44.79	41.83	44.23	60.74	47.51	42
xternal financing									
Loans	11.96	20.59	39.12	11.39	14.88	9.40	6.01	15.84	16
short-term loans long-term loans	– 3.31 15.27	- 1.98 22.57	- 3.17 42.29	- 1.26 12.64		- 1.40 10.80	- 0.42 6.43	- 0.91 16.76	- 0 16
Memo item Mortage loans Consumer loans Entrepreneurial loans	18.89 - 0.30 - 6.64	24.87 1.21 – 5.49	36.56 5.44 – 2.88	9.85 2.15 – 0.61	1.40	0.32	4.29 2.11 – 0.38	12.16 3.93 – 0.24	14 2 - 1
Memo item Loans from monetary financial institutions Loans from other financial institutions Loans from general government and rest	12.60 - 0.60	18.87 1.72	39.35 - 0.23	11.60 – 0.22	15.09	9.38			15 0
of the world	- 0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
Financial derivatives	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
Other accounts payable	- 0.01	0.78	- 1.26	- 0.30	- 0.37	- 0.37	0.15	0.03	0
Total	11.94	21.37	37.87	11.09	14.51	9.04	6.15	15.88	16

 ${\bf 1}$ Including unlisted shares. ${\bf 2}$ Including accumulated interest-bearing surplus shares with insurance corporations.

4 Financial assets and liabilities of households (non-consolidated)

End-of-year level, end-of-quarter level; € billion

				2015			2016		
n	2013	2014	2015	Q2	Q3	Q4	Q1	Q2	Q3
inancial assets									
Currency and deposits	1,910.8	1,998.1	2,094.8	2,043.8	2,055.7	2,094.8	2,103.5	2,128.8	2,14
Currency	112.0	127.7	153.1	139.0	145.4	153.1	156.1	157.2	15
Deposits	1,798.8	1,870.4	1,941.6	1,904.8	1,910.3	1,941.6	1,947.4	1,971.6	1,98
Transferable deposits	907.8	981.4	1,082.4	1,035.1	1,050.1	1,082.4	1,089.8	1,117.9	1,14
Time deposits	245.9	256.4	246.8	250.9	246.4	246.8	248.3	250.4	24
Savings deposits (including savings certifikates)	645.1	632.7	612.4	618.9	613.8	612.4	609.3	603.4	5
Debt securities	179.0	162.2	139.8	149.2	144.0	139.8	137.1	133.5	1
short-term debt securities	2.7	2.1	2.9	2.7	3.0	2.9	2.9	2.3	
long-term debt securities	176.3	160.1	136.9	146.5	141.0	136.9	134.2	131.2	1
Memo item Debt securities of domestic sectors	116.9	102.4	89.4	94.3	92.2	89.4	89.6	87.8	
Non-financial corporations	14.2	14.1	13.4	13.7	13.5	13.4	13.9	13.1	·
Financial corporations General government	90.7	78.7	69.5 6.5	72.9	71.5	69.5 6.5	69.4 6.3	69.0 5.7	
Debt securities of the rest of the world	62.0	9.6 59.8	50.3	54.9	51.8	50.3	47.6	45.7	
Equity and investment fund shares	885.9	951.4	1,040.7	1,018.4	982.1	1,040.7	47.6 1,024.3	45.7	1,0
			· ·	· ·			· ·	· ·	
Equity	487.6	508.9	555.9	537.0	518.3	555.9	544.9	540.7	5
Listed Shares of domestic sectors	167.4	169.7	188.9	179.6	168.4	188.9	181.8	174.6	1
Non-financial corporations Financial corporations	140.4 26.9	142.1 27.6	158.7 30.3	151.1 28.5	140.2 28.2	158.7 30.3	154.1 27.6	148.6 26.0	1
Quoted shares of the rest of the world	55.8	64.0	74.8	71.7	67.9	74.8	73.1	76.8	
Other equity 1	264.4	275.3	292.2	285.7	282.0	292.2	290.1	289.2	2
Investment fund shares	398.3	442.5	484.8	481.3	463.8	484.8	479.3	487.8	5
Money market fund shares Non-MMF investment fund shares	4.4 393.8	4.0 438.5	3.4 481.4	3.8 477.5	3.7 460.1	3.4 481.4	3.1 476.3	3.0 484.7	5
Non-life insurance technical reserves and provision for calls under standardised guarantees	291.3	307.3	324.4	315.8	320.0	324.4	330.2	336.1	3.
Life insurance and annuity entitlements	847.3	885.6	919.5	905.1	911.8	919.5	937.1	943.3	9
Pension entitlement, claims of pension funds on pension managers, entitlements to non-pension benefits	708.3	752.1	786.4	764.0	770.6	786.4	791.7	798.3	8
Financial derivatives and employee stock options	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Other accounts receivable 2	36.7	35.8	34.1	35.2	34.8	34.1	33.8	33.5	
Total	4,859.4	5,092.6	5,339.7	5,231.6	5,219.0	5,339.7	5,357.7	5,402.0	5,4
iabilities									
Loans	1,549.6	1,570.5	1,607.6	1,583.9	1,598.4	1,607.6	1,614.0	1,629.8	1,6
short-term loans	66.4	64.6		64.1	62.6	60.9	60.5	59.6	.,.
long-term loans Memo item	1,483.2	1,505.9		1,519.8		1,546.7	1,553.5	1,570.2	1,5
Mortage loans	1,092.9	1,118.0	1,154.7	1,130.2	1,144.0	1,154.7	1,159.1	1,171.3	1,1
Consumer loans Entrepreneurial loans	188.7 268.0	188.9 263.6	191.9 260.9	191.2 262.5	192.2 262.1	191.9 260.9	194.0 260.9	197.8 260.7	2
Memo item	200.0	205.0	200.9	202.5	202.1	200.9	200.9	200.7	
Loans from monetary financial institutions Loans from other financial institutions	1,458.4 91.2	1,477.6 92.9	1,514.9 92.7	1,491.0 92.9	1,505.7 92.7	1,514.9 92.7	1,520.5 93.5	1,534.3 95.5	1,5
Loans from general government and rest of the world	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Financial derivatives	0.0	0.0			0.0	0.0	0.0	0.0	
Other accounts payable	15.6	16.4			16.3	14.8	15.6	15.6	
	1,565.2	1,586.9			1,614.7	1,622.4	1,629.6	1,645.4	<u> </u>

 ${\bf 1}$ Including unlisted shares. ${\bf 2}$ Including accumulated interest-bearing surplus shares with insurance corporations.

1 General government: deficit/surplus and debt level as defined in the Maastricht Treaty

	General government	Central government	State government	Local government	Social security funds	General government	Central government	State government	Local government	Social security funds
Period	€ billion					as a percentage	of GDP			
	Deficit/surp	lus ¹								
2010 2011 2012 2013 P 2014 P	- 108.9 - 25.9 - 0.9 - 5.4 + 8.6	- 29.4 - 16.1 - 8.1		- 8.1 - 0.3 + 2.2 + 0.2 - 2.5		- 1.0	- 1.1 - 0.6 - 0.3	- 0.8 - 0.4 - 0.2 - 0.1 - 0.0	- 0.0	
2015 p 2016 pe	+ 20.9 + 19.2	+ 10.0 + 10.4	+ 4.6 + 2.2	+ 4.2 - 0.2	+ 2.1 + 6.8	+ 0.7 + 0.6	+ 0.3 + 0.3	+ 0.2 + 0.1	+ 0.1 - 0.0	+ 0.1 + 0.2
2014 H1 P H2 P	+ 11.1 - 2.6	+ 1.4 + 7.2	- 0.5 + 0.0	+ 3.8 - 6.3	+ 6.5 - 3.5	+ 0.8 - 0.2	+ 0.1 + 0.5	- 0.0 + 0.0	+ 0.3 - 0.4	+ 0.5 - 0.2
2015 H1 P H2 P	+ 14.4 + 6.6	+ 2.4 + 7.7	+ 3.7 + 0.9	+ 5.6 - 1.4	+ 2.6 - 0.5	+ 1.0 + 0.4		+ 0.2 + 0.1	+ 0.4 - 0.1	+ 0.2 - 0.0
2016 H1 pe	+ 18.3	+ 8.3	+ 0.6	+ 2.9	+ 6.5	+ 1.2	+ 0.5	+ 0.0	+ 0.2	+ 0.4
	Debt level ²								End of yea	ar or quarter
2010 2011 2012 2013 P 2014 P	2,088.7 2,128.1 2,204.5 2,189.2 2,188.7	1,344.0 1,387.7 1,390.3	629.7 657.0 685.4 663.9 656.7	143.0 143.4 148.0 151.1 152.2	1.3	78.7 79.9 77.5	49.7 50.3 49.2	24.4 24.3 24.8 23.5 22.5	5.3 5.4	0.0 0.0
2015 P	2,157.9	1,372.5	652.6	152.3	1.4	71.2	45.3	21.5	5.0	0.0
2015 Q1 P Q2 P Q3 P Q4 P	2,194.6 2,160.6 2,162.3 2,157.9	1,380.4 1,374.6	665.2 644.8 652.3 652.6	152.6 152.4 153.2 152.3	1.4	72.6 72.0	46.4 45.8	22.6 21.7 21.7 21.5	5.1 5.1	0.0 0.0 0.0 0.0
2016 Q1 P Q2 P Q3 P	2,165.7 2,168.5 2,161.3		645.5 641.9 642.1	154.7 154.2 154.9	1.2 1.1 1.0	70.2	45.0	21.1 20.8 20.6		0.0 0.0 0.0

Sources: Federal Statistical Office and Bundesbank calculations. 1 The deficit/surplus in accordance with ESA 2010 corresponds to the Maastricht definition. In connection with the publication of the 2016 annual figures, no revised figures were released for

the first half of the year. Therefore, the 2016 half-year figures are not directly comparable with the annual figures. **2** Quarterly GDP ratios are based on the national output of the four preceding quarters.

2 General government: revenue, expenditure and deficit/surplus as shown in the national accounts*

	Revenue				Expenditure							
		of which				of which						
Period	Total	Taxes	Social con- tributions	Other	Total	Social benefits	Compen- sation of employees	Interest	Gross capital formation	Other	Deficit/ surplus	<i>Memo item</i> Total tax burden 1
	€ billion											
2010 2011 2012 2013 P 2014 P	1,110.3 1,182.7 1,220.9 1,258.4 1,306.8	598.8 624.9 650.6 674.0	426.2 442.3 454.3 465.0 482.0	141.7 141.7 142.8 150.7	1,219.2 1,208.6 1,221.8 1,263.7 1,298.2	634.5 633.9 645.5 666.5 692.5	203.5 208.6 212.3 217.9 224.1	63.9 67.5 63.1 56.0 52.0	61.4 61.5 60.7 60.9	237.2 239.3 262.5 268.7	- 25.9 - 0.9 - 5.4 + 8.6	986.5 1,045.6 1,083.7 1,119.9 1,160.7
2015 p 2016 pe	1,354.8 1,407.9	706.3 734.6	500.8 523.0	147.8 150.2	1,333.9 1,388.7	723.4 757.8	228.6 236.1	47.3 43.2	64.3 68.5	270.3 283.1	+ 20.9 + 19.2	1,212.5 1,263.0
	as a perce	ntage of G	idp									
2010 2011 2012 2013 P 2014 P	43.0 43.8 44.3 44.5 44.7			5.0 5.2 5.1 5.1 5.2	47.3 44.7 44.3 44.7 44.4	24.6 23.4 23.4 23.6 23.7	7.9 7.7 7.7 7.7 7.7 7.7	2.5 2.5 2.3 2.0 1.8	2.3 2.3 2.2 2.1 2.1	10.0 8.8 8.7 9.3 9.2	- 4.2 - 1.0 - 0.0 - 0.2 + 0.3	38.2 38.7 39.3 39.6 39.7
2015 p 2016 pe	44.7 44.9	23.3 23.4	16.5 16.7	4.9 4.8	44.0 44.3	23.9 24.2	7.5 7.5	1.6 1.4	2.1 2.2	8.9 9.0	+ 0.7 + 0.6	40.0 40.3
	Percentage	e growth i	ates									
2010 2011 2012 2013 p 2014 p 2015 p 2016 pe	+ 1.8 + 6.5 + 3.2 + 3.1 + 3.8 + 3.7 + 3.9	$ \begin{array}{c} + & 0.3 \\ + & 7.7 \\ + & 4.4 \\ + & 4.1 \\ + & 3.6 \\ + & 4.8 \\ + & 4.0 \end{array} $	+ 2.5 + 3.8 + 2.7 + 2.4 + 3.7 + 3.9 + 4.4	$\begin{vmatrix} + & 6.1 \\ + & 10.7 \\ + & 0.0 \\ + & 0.8 \\ + & 5.5 \\ - & 1.9 \\ + & 1.7 \end{vmatrix}$	$\begin{array}{rrrrr} + & 4.2 \\ - & 0.9 \\ + & 1.1 \\ + & 3.4 \\ + & 2.7 \\ + & 2.7 \\ + & 4.1 \end{array}$	$\begin{array}{rrrrr} + & 1.5 \\ - & 0.1 \\ + & 1.8 \\ + & 3.3 \\ + & 3.9 \\ + & 4.5 \\ + & 4.8 \end{array}$	+ 2.9 + 2.5 + 1.8 + 2.6 + 2.8 + 2.0 + 3.2	- 1.7 + 5.7 - 6.5 - 11.2 - 7.2 - 9.1 - 8.6	$\begin{vmatrix} + & 1.9 \\ + & 3.3 \\ + & 0.2 \\ - & 1.3 \\ + & 0.4 \\ + & 5.4 \\ + & 6.7 \end{vmatrix}$	- 8.1 + 0.9 + 9.7 + 2.3 + 0.6		+ 1.3 + 6.0 + 3.6 + 3.3 + 3.6 + 4.5 + 4.2

Source: Federal Statistical Office. \star Figures in accordance with ESA 2010. 1 Taxes and social contributions plus customs duties.

3 General government: budgetary development (as per government's financial statistics)

	€ billion															
	Central, star	te and loca	al governm	ent 1							Social secu	irity funds 2		General go	overnment,	total
	Revenue			Expenditur	e											
		of which			of which 3											
Period	Total 4	Taxes	Finan- cial transac- tions 5	Total 4	Person- nel expend- iture	Current grants	Interest	Fixed asset forma- tion	Finan- cial transac- tions 5	Deficit / surplus	Rev- enue 6	Expend- iture	Deficit / surplus	Rev- enue	Expend- iture	Deficit / surplus
2009	623.0	524.0	7.1	713.1	187.1	286.6	63.4	38.6	34.8	- 90.1	492.1	506.0	- 14.0	1.013.4	1,117.5	- 104.0
2010 2011 2012 p 2013 p 2014 p 2015 p	634.7 689.6 745.0 761.8 791.8 832.4	530.6 573.4 600.0 619.7 643.6 673.3	7.9 22.8 14.7 14.7 11.3 10.4	713.6 711.6 770.2 773.6 786.7 802.8	190.7 194.3 218.8 225.3 236.0 243.6	308.5 301.3 285.2 286.9 292.9 302.2	57.7 56.8 69.9 65.7 57.1 49.7	39.7 38.5 42.6 42.8 45.9 46.4	11.4 13.7 25.5 23.5 17.6 12.5	- 78.9 - 22.0 - 25.2 - 11.8 + 5.1 + 29.7	526.3 536.2	512.9 511.3 518.9 532.0 551.1 572.5	+ 3.7 + 15.0 + 17.3 + 4.7 + 3.2 + 1.7	1,033.7 1,104.2 1,171.1 1,198.1 1,245.1 1,303.2	1,108.9 1,111.2 1,179.0 1,205.2 1,236.8 1,271.9	- 75.2 - 7.0 - 7.9 - 7.0 + 8.4 + 31.3
2014 Q1 P Q2 P Q3 P Q4 P	188.2 193.1 192.2 219.0	153.6 157.4 157.5 174.9	2.0 2.2 3.4 3.5	193.9 188.1 193.5 211.8	56.7 56.9 57.1 65.4	77.9 71.8 71.2 73.5	20.0 9.8 17.7 9.5	7.8 9.8 11.3 16.5	2.3 8.2 4.0 3.1	- 5.7 + 5.0 - 1.4 + 7.2		136.1 135.8 137.4 141.5	- 3.3 + 0.6 - 1.1 + 6.8	296.0 304.5 303.1 341.6	305.0 299.0 305.5 327.6	- 9.0 + 5.6 - 2.4 + 14.0
2015 Q1 P Q2 P Q3 P Q4 P	196.0 208.4 202.8 221.5	160.9 167.7 166.5 178.1	2.4 1.5 3.8 2.6	198.8 185.2 198.0 219.3	58.5 59.5 62.3 63.4	80.5 72.8 71.3 77.4	18.4 7.2 16.6 7.3	7.7 9.1 11.6 17.3	2.5 3.0 3.4 3.5	- 2.8 + 23.1 + 4.7 + 2.2		142.8 142.3 143.4 145.3	- 5.4 + 0.1 - 2.1 + 7.4	307.6 325.0 318.1 348.4	315.8 301.8 315.5 338.8	- 8.2 + 23.2 + 2.6 + 9.6
2016 Q1 P Q2 P	204.8 217.5	169.9 176.6	1.4 2.4	205.7 194.8	60.2 60.7	81.5 77.7	17.7 5.4	8.4 10.4	2.2 2.4	- 0.8 + 22.7		146.6 147.0	- 3.6 + 1.7		325.4 314.9	- 4.5 + 24.3

Source: Bundesbank calculations based on Federal Statistical Office data. **1** Annual figures based on the calculations of the Federal Statistical Office. Bundesbank supplementary estimations for the reporting years after 2011 that are not yet available. The quarterly figures do not contain the special purpose associations included in the annual calculations, but they do not contain numerous other off-budget entities which are assigned to the general government sector as defined in the annual figures do not tally with the sum of the quarterly figures, as the latter are all provisional. The quarterly figures for some insurance sectors are estimated. **3** The development of the types of expenditure recorded here is influenced in part by statistical change-overs. **4** Including discrepancies in clearing transactions between central, state and local government. **5** On the revenue side, this contains proceeds booked as disposals of equity interests and as loan repayments. On the expenditure side, this contains the acquisition of equity interests and losar granted. **6** Including government liquidity assistance to the Federal Employment Agency.

4 Central, state and local government: budgetary development (as per government's financial statistics)

	€ billion								
	Central governmen	t		State government	2,3		Local government	3	
Period	Revenue 1	Expenditure	Deficit / surplus	Revenue	Expenditure	Deficit / surplus	Revenue	Expenditure	Deficit / surplus
2009	282.6	317.1	- 34.5	260.1	287.1	- 26.9	170.8	178.3	- 7.5
2010	288.7	333.1	- 44.4	266.8	287.3	- 20.5	175.4	182.3	- 6.9
2011	307.1	324.9	- 17.7	286.5	295.9	- 9.4	183.9	184.9	- 1.0
2012 P	312.5	335.3	- 22.8	311.0	316.1	- 5.1	200.0	198.5	+ 1.5
2013 P	313.2	335.6	- 22.4	324.3	323.9	+ 0.4	207.6	206.3	+ 1.3
2014 P	322.9	323.3	- 0.3	338.3	336.1	+ 2.1	218.7	218.7	- 0.1
2015 p	338.2	326.4	+ 11.8	355.1	350.6	+ 4.5	232.7	229.1	+ 3.6
2014 Q1 P	69.8	80.4	- 10.6	80.3	81.0	- 0.7	45.1	50.0	- 4.8
Q2 p	77.7	76.7	+ 0.9	82.3	80.4	+ 1.9	54.8	52.0	+ 2.8
Q3 P	82.5	85.3	- 2.9	82.7	80.4	+ 2.3	53.9	54.4	- 0.5
Q4 P	92.9	80.8	+ 12.2	92.0	94.0	- 2.0	63.0	61.0	+ 2.0
2015 Q1 P	74.4	81.6	- 7.1	84.2	84.5	- 0.3	46.3	52.1	- 5.8
Q2 P	86.5	72.6	+ 13.9	87.0	83.6	+ 3.4	58.1	53.4	+ 4.7
Q3 p	85.9	89.0	- 3.2	87.8	84.2	+ 3.6	57.5	56.3	+ 1.2
Q4 P	91.4	83.3	+ 8.1	94.1	96.8	- 2.8	69.0	65.9	+ 3.0
2016 Q1 P	81.1	83.6	- 2.5	90.5	88.2	+ 2.4	49.0	55.1	- 6.1
Q2 P	87.5	73.6	+ 13.8	92.7	88.2	+ 4.4	61.1	57.9	+ 3.2
Q3 P	85.2	88.6	- 3.5	91.5	90.0	+ 1.5	60.7	60.7	+ 0.1

Source: Bundesbank calculations based on Federal Statistical Office data. **1** Any amounts of the Bundesbank's profit distribution exceeding the reference value that were used to repay parts of the debt of central government's special funds are not included here. **2** Including the local authority level of the city-states Berlin, Bremen and Hamburg. **3** For state government from 2011, for local government from 2012; quarterly data of core budgets and off-budget entities which are assigned to the general

government sector, up to and including 2013: excluding special purpose associations. Annual figures up to and including 2011: excluding off-budget entities, but including special accounts and special purpose associations based on the calculations of the Federal Statistical Office. For the following years, Bundesbank supplementary estimations.

5 Central, state and local government: tax revenue

€ million

	€ IIIIIIOII							
		Central and state gove	ernment and European	Union				
Period	Total	Total	Central government 1	State government 1	European Union 2	Local government 3	Balance of untransferred tax shares 4	Memo item Amounts deducted in the federal budget 5
2009	524,000	455,615	252,842	182,273	20,501	68,419	- 34	24,846
2010 2011 2012 2013 2014	530,587 573,352 600,046 619,708 643,624	460,230 496,738 518,963 535,173 556,008	254,537 276,598 284,801 287,641 298,518	181,326 195,676 207,846 216,430 226,504	24,367 24,464 26,316 31,101 30,986	70,385 76,570 81,184 84,274 87,418	- 28 + 43 - 101 + 262 + 198	28,726 28,615 28,498 27,775 27,772
2015	673,276	580,485	308,849	240,698	30,938	93,003	- 212	27,241
2014 Q1 Q2 Q3 Q4	153,971 158,118 156,886 174,650	130,986 135,358 135,698 153,966	64,962 72,082 75,711 85,763	54,529 56,178 55,194 60,603	11,495 7,098 4,794 7,599	15,287 23,160 21,380 27,592	+ 7,698 - 400 - 192 - 6,908	6,638 6,803 7,577 6,754
2015 Q1 Q2 Q3 Q4	161,068 167,763 166,468 177,978	143,248 143,854	68,215 76,762 79,783 84,089	57,237 59,298 59,551 64,613	11,731 7,188 4,520 7,499	15,722 24,814 23,006 29,461	+ 8,163 - 299 - 392 - 7,684	6,433 6,633 7,558 6,618
2016 Q1 Q2 Q3	170,358 176,879 169,374	152,042	74,113 82,184 76,638	61,972 64,684 61,573	8,755 5,175 7,489	17,121 25,205 23,839	+ 8,396 – 368 – 165	6,488 6,512 7,584
2015 Oct Nov	:	38,703 40,461	20,575 20,832	15,894 17,344	2,234 2,285			2,169 2,169
2016 Oct Nov	:	41,809 41,489	21,680 21,848	17,511 17,042	2,618 2,599		· ·	2,154 2,154

Sources: Federal Ministry of Finance, Federal Statistical Office and Bundesbank calcu-lations. **1** Before deducting or adding supplementary central government grants, shares in energy tax revenue, compensation for the transfer of motor vehicle tax to central government and consolidation aid, which central government remits to state government. See the last column for the volume of these amounts which are deducted from tax revenue in the federal budget. **2** Custom duties and shares in VAT

and gross national income accruing to the EU from central government tax rev-enue. **3** Including local government taxes in the city-states Berlin, Bremen and Ham-burg. Including revenue from offshore wind farms. **4** Difference between local govern ment's share in the joint taxes received by the state government cash offices in the period in question (see Table X. 6) and the amounts passed on to local government is the activity. in the same period. **5** Volume of the positions mentioned under footnote 1

6 Central and state government and European Union: tax revenue, by type

€ million													
	Joint taxes												
	Income taxes	2				Turnover tax	es 5						Memo item
Total 1	Total	Wage tax 3	Assessed income tax	Corpora- tion tax	Invest- ment income tax 4	Total	Turnover tax	Turnover tax on imports	Local business tax trans- fers 6	Central govern- ment taxes 7	State govern- ment taxes 7	EU customs duties	Local govern- ment share in joint taxes
484,880	193,684	135,165	26,430	7,173	24,916	176,991	141,907	35,084	4,908	89,318	16,375	3,604	29,26
488,731 527,255 551,785 570,213 593,039		127,904 139,749 149,065 158,198 167,983	31,179 31,996 37,262 42,280 45,613	12,041 15,634 16,934 19,508 20,044	21,691 26,155 28,294 25,923 25,236	180,042 190,033 194,635 196,843 203,110	136,459 138,957 142,439 148,315 154,228	43,582 51,076 52,196 48,528 48,883	5,925 6,888 7,137 7,053 7,142	93,426 99,133 99,794 100,454 101,804	12,146 13,095 14,201 15,723 17,556	4,378 4,571 4,462 4,231 4,552	28,50 30,51 32,82 35,04 37,03
620,287	273,258	178,891	48,580	19,583	26,204	209,921	159,015	50,905	7,407	104,204	20,339	5,159	39,80
140,035 144,418 144,482 164,104	65,233 60,838	39,035 40,767 40,538 47,642	11,808 11,963 10,022 11,820	5,610 5,068 4,314 5,052	6,487 7,435 5,965 5,349	50,533 49,166 51,148 52,264	38,904 37,194 38,733 39,397	11,629 11,972 12,415 12,867	134 1,785 1,911 3,312	20,893 22,874 24,945 33,091	4,481 4,318 4,395 4,361	1,053 1,042 1,244 1,214	9,04 9,05 8,78 10,13
146,924 153,155 153,307 166,901	66,225 69,728 66,010 71,295	41,557 44,267 43,251 49,816	13,134 12,323 10,666 12,457	5,438 5,851 4,452 3,842	6,097 7,287 7,640 5,180	51,852 50,754 53,203 54,111	40,050 38,063 40,029 40,873	11,803 12,691 13,174 13,238	143 1,760 2,019 3,484	22,268 24,892 25,637 31,407	5,207 4,838 5,029 5,265	1,228 1,183 1,409 1,339	9,74 9,90 9,45 10,70
154,892 162,096 155,524		42,583 45,311 44,656	14,569 12,943 11,898	8,433 7,329 5,546	5,204 8,905 6,037	54,408 52,705 53,906	42,268 40,195 40,877	12,141 12,510 13,029	173 1,957 2,046	22,553 25,783 24,857	5,673 5,952 5,263	1,294 1,210 1,316	
41,021 42,915	12,711 13,453	13,060 13,770	- 342 - 519	- 1,366 - 805	1,359 1,007	16,776 18,906	12,422 14,394	4,354 4,513	1,555 269	7,750 8,223	1,755 1,617	474 447	2,3 2,4
44,388 44,033		14,235 14,117	- 90 - 303	- 904 - 445	1,255 864	18,316 19,273	14,016 14,681	4,300 4,593	1,485 425	7,952 7,931	1,699 1,750	439 421	2,5 2,5

Source: Federal Ministry of Finance and Bundesbank calculations. 1 This total, unlike that in Table X. 5, does not include the receipts from the equalisation of burdens levies, local business tax (less local business tax transfers to central and state government), real property taxes and other local government taxes, or the balance of un-transferred tax shares. 2 Respective percentage share of central, state and local government in revenue: wage tax and assessed income tax 42.5:42.5:15, corpor-ation tax and non-assessed taxes on earnings 50:50:-, final withholding tax on inter-est income and capital gains, non-assessed taxes on earnings 44:44:12. **3** After deducting child benefit and subsidies for supplementary private pension plans. **4** Final withholding tax on interest income and capital gains, non-assessed taxes on earnings. **5** The allocation of revenue to central, state and local government, which is adjusted at more regular intervals, is regulated in section 1 of the Rev-enue Adjustment Act. Respective percentage share of central, state and local government in revenue for 2015: 52.3:45.5:2.2. The EU share is deducted from central government's share. **6** Respective percentage share of central and state government for 2015: 22.4:77.6. **7** For the breakdown, see Table X. 7.

2016 Oct Nov

7 Central, state and local government: individual taxes

	€ million														
	Central gov	ernment tax	_{(es} 1						State gove	rnment taxes	, 1		Local gover	nment taxes	5
										Tax on the acqui-				of which	
Period	Energy tax	Tobacco tax	Soli- darity surcharge	Insurance tax	Motor vehicle tax 2	Electri- city tax	Spirits tax	Other	Motor vehicle tax 2	sition of land and buildings	Inherit- ance tax	Other 3	Total	Local business tax 4	Real property taxes
2009	39,822	13,366	11,927	10,548	3,803	6,278	2,101	1,473	4,398	4,857	4,550	2,571	44,028	32,421	10,936
2010 2011 2012	39,838 40,036 39,305	13,492 14,414 14,143	11,713 12,781 13,624	10,284 10,755 11,138	8,488 8,422 8,443	6,171 7,247 6,973	1,990 2,149 2,121	1,449 3,329 4,047		5,290 6,366 7,389	4,404 4,246 4,305	2,452 2,484 2,508	47,780 52,984 55,398	35,712 40,424 42,345	11,315 11,674 12,017
2012 2013 2014	39,305 39,364 39,758	13,820 14,612	13,624 14,378 15,047	11,553 12,046	8,443 8,490 8,501	7,009 6,638	2,121 2,102 2,060	3,737 3,143	· ·	8,394 9,339	4,505 4,633 5,452	2,508 2,696 2,764	56,549 57,728	42,345 43,027 43,763	12,017 12,377 12,691
2015	39,594	14,921	15,930	12,419	8,805	6,593	2,070	3,872		11,249	6,290	2,801	60,396	45,752	13,215
2014 Q1 Q2 Q3 Q4	4,675 9,868 10,029 15,185	2,477 3,708 3,735 4,691	3,577 3,955 3,498 4,016	5,642 2,096 2,423 1,886	1,861 2,517 2,265 1,859	1,550 1,718 1,716 1,653	556 470 499 535	555 - 1,458 779 3,266		2,385 2,149 2,387 2,418	1,314 1,501 1,331 1,306	782 668 677 638	14,070 15,485 14,316 13,858	10,829 11,684 10,458 10,792	2,880 3,495 3,529 2,786
2015 Q1 Q2 Q3 Q4	4,704 9,512 10,159 15,220	2,223 3,683 3,981 5,034	3,783 4,278 3,714 4,155	5,825 2,187 2,436 1,972	2,454 2,361 2,108 1,883	1,806 1,465 1,643 1,678	570 470 496 534	904 937 1,102 930		2,760 2,561 3,021 2,906	1,668 1,617 1,335 1,670	779 660 672 689	14,288 16,368 15,180 14,561	10,912 12,383 11,118 11,339	2,982 3,636 3,697 2,899
2016 Q1 Q2 Q3	4,620 9,860 10,149	2,722 4,139 3,010	3,979 4,470 3,938	5,946 2,269 2,510	2,489 2,366 2,198	1,685 1,515 1,641	565 473 499	547 691 911		3,217 2,952 3,050	1,668 2,283 1,501	787 717 713	15,639 16,740 15,896	12,090 12,635 11,699	3,121 3,715 3,794
2015 Oct Nov	3,341 3,425	1,368 1,425	851 801	561 849	673 607	552 527	153 175	251 415	· .	949 979	569 421	237 216			· ·
2016 Oct Nov	3,576 3,501	1,238 1,156	903 830	578 851	619 680	573 531	171 163	295 219		978 1,040	492 472	229 239		· ·	

Sources: Federal Ministry of Finance, Federal Statistical Office and Bundesbank calculations. **1** For the sum total, see Table X. 6. **2** As of 1 July 2009, motor vehicle tax revenue is attributable to central government. Postings to state government shown there-

after relate to the booking of cash flows. **3** Notably betting, lottery and beer tax. **4** Including revenue from offshore wind farms.

8 German pension insurance scheme: budgetary development and assets*

	€ million													
	Revenue 1,2			Expenditure 1	,2				Assets 1,4					
		of which			of which									
Period	Total	Contri- butions 3	Payments from central govern- ment	Total	Pension payments	Pen- sioners' health insurance	Deficit surplu		Total	Deposits 5	Securities	Equity interests, mort- gages and other loans 6	Real estate	<i>Memo</i> <i>item</i> Adminis- trative assets
2009	244,689	169,183	74,313	244,478	208,475	14,431	+	211	16,821	16,614	23	64	120	4,525
2010 2011 2012 2013 2014 2015 2014 Q1	250,133 254,968 259,700 260,166 269,115 276,129 64,138	172,767 177,424 181,262 181,991 189,080 194,486 44,355	76,173 76,200 77,193 77,067 78,940 80,464 19,534	248,076 250,241 254,604 258,268 265,949 277,717 64,615	211,852 212,602 216,450 219,560 226,204 236,634 55,266	14,343 15,015 15,283 15,528 15,978 16,705 3,897	+++++++	2,057 4,727 5,096 1,898 3,166 1,588 477	19,375 24,965 30,481 33,114 36,462 35,556 32,669	18,077 22,241 28,519 29,193 32,905 32,795 28,668	1,120 2,519 1,756 3,701 3,317 2,506 3,781	73 88 104 119 146 167 121	105 117 102 100 94 88 99	4,464 4,379 4,315 4,250 4,263 4,228 4,225
Q2 Q3 Q4	66,857 66,129 71,927	47,145 45,992 51,577	19,453 19,865 20,096	64,697 66,801 69,548	55,085 56,909 59,225	3,891 3,991 4,192	+ - +	2,160 672 2,379	35,181 33,678 36,442	31,167 30,264 32,901	3,791 3,191 3,317	126 129 129	97 94 94	4,260 4,256 4,275
2015 Q1 Q2 Q3 Q4	65,923 68,700 67,538 73,393	45,653 48,483 47,280 53,096	20,025 19,945 20,006 19,971	68,435 68,443 70,165 70,326	58,671 58,390 59,931 59,963	4,125 4,113 4,228 4,233	- + - +	2,512 257 2,627 3,067	34,084 34,319 32,246 35,574	31,583 31,797 29,722 32,794	2,262 2,276 2,276 2,506	148 152 156 158	92 93 92 117	4,255 4,254 4,259 4,242
2016 Q1 Q2 Q3	68,182 71,291 70,218	47,397 50,372 49,333	20,665 20,548 20,670	70,076 70,418 73,782	60,143 60,097 63,081	4,239 4,238 4,453	- + -	1,894 873 3,564	33,865 34,427 31,412	31,194 31,892 28,776	2,406 2,265 2,365	179 183 187	86 87 84	4,223 4,220 4,213

Sources: Federal Ministry of Labour and Social Affairs and German pension insurance scheme. * Excluding the German pension insurance scheme for the mining, railway and maritime industries. **1** The final annual figures do not tally with the quarterly figures, as the latter are all provisional. **2** Including financial compensation payments. Ex-

cluding investment spending and proceeds. **3** Including contributions for recipients of government cash benefits. **4** Largely corresponds to the sustainability reserves. End of year or quarter. **5** Including cash. **6** Excluding loans to other social security funds.

X Public finances in Germany

9 Federal Employment Agency: budgetary development*

	€ million													
	Revenue				Expenditure									
		of which				of which								Deficit offsetting
Period	Total 1	Contri- butions	Insolvency compen- sation levy	Central government subscriptions	Total	Unemploy- ment benefit 2	Short-time working benefits 3	Job promotion 4	Re- integration payment 5	Insolvency benefit payment	Adminis- trative expend- iture 6	Def surp		grant or loan from central govern- ment
2009	34,254	22,046	711	7,777	48,057	17,291	5,322	9,849	4,866	1,617	5,398	-	13,804	-
2010	37,070	22,614	2,929	7,927	45,213	16,602	4,125	9,297	5,256	740	5,322	-	8,143	5,207
2011	37,563	25,433	37	8,046	37,524	13,776	1,324	8,369	4,510	683	5,090	+	40	-
2012	37,429	26,570	314	7,238	34,842	13,823	828	6,699	3,822	982	5,117	+	2,587	-
2013	32,636	27,594	1,224	245	32,574	15,411	1,082	6,040		912	5,349	+	61	-
2014	33,725	28,714	1,296		32,147	15,368	710	6,264		694	5,493	+	1,578	-
2015	35,159	29,941	1,333	-	31,439	14,846	771	6,295		654	5,597	+	3,720	-
2014 Q1	7,844	6,696	299		8,693	4,379	311	1,605		199	1,239	-	849	_
Q2	8,352	7,143	331	-	8,036	3,902	197	1,593		211	1,259	+	316	
Q3	8,249	6,991	318	-	7,551	3,641	123	1,458		163	1,313	+	698	-
Q4	9,280	7,884	347	-	7,868	3,446	79	1,609		122	1,682	+	1,412	-
2015 Q1	8,209	6,969	310	-	8,599	4,267	387	1,586		165	1,287	-	390	-
Q2	8,758	7,467	326	-	7,856	3,758	214	1,591		172	1,318	+	902	
Q3	8,573	7,285	329	-	7,319	3,501	82	1,455		164	1,368	+	1,254	
Q4	9,619	8,220	367	-	7,665	3,320	87	1,662		152	1,624	+	1,954	-
2016 Q1	8,376	7,271	261	-	7,984	4,083	395	1,739		150	984	+	393	-
Q2	8,991	7,737	278	-	7,807	3,648	203	1,847		147	1,288	+	1,184	-
Q3	8,877	7,609	276		7,349	3,428	74	1,608		165	1,399	+	1,529	_

Source: Federal Employment Agency. * Including transfers to the civil servants' pen-sion fund. 1 Excluding central government deficit offsetting grant or Ioan. 2 Un-employment benefit in case of unemployment. 3 Including seasonal short-time working benefits and restructuring short-time working benefits, restructuring mea-sures and refunds of social security contributions. 4 Vocational training, measures to

encourage job take-up, rehabilitation, compensation top-up payments and promo-tion of business start-ups. **5** Until 2012. From 2005 to 2007: compensatory amount. **6** Including collection charges to other statutory social security funds, ex-cluding administrative expenditure within the framework of the basic allowance for interactions. job seekers.

10 Statutory health insurance scheme: budgetary development

	€ million												
	Revenue 1			Expenditure 1									
		of which			of which								
Period	Total	Contri- butions 2	Central govern- ment funds 3	Total	Hospital treatment	Pharma- ceuticals	Medical treatment	Dental treatment 4	Thera- peutical treatment and aids	Sickness benefits	Adminis- trative expend- iture 5	Defic surpl	
2009	169,837	158,662	7,200	170,825	55,977	30,696	27,635	11,219	9,578	7,258	8,949	-	988
2010 6	179,529	160,797	15,700	175,804	56,697	30,147	28,432	11,419	10,609	7,797	9,554	+	3,725
2011	189,049	170,875	15,300	179,599	58,501	28,939	29,056	11,651	11,193	8,529	9,488	+	9,450
2012	193,314	176,388	14,000	184,289	60,157	29,156	29,682	11,749	11,477	9,171	9,711	+	9,025
2013	196,405	182,179	11,500	194,537	62,886	30,052	32,799	12,619	12,087	9,758	9,979	+	1,867
2014	203,143	189,089	10,500	205,589	65,711	33,093	34,202	13,028	13,083	10,619	10,063	-	2,445
2015	210,147	195,774	11,500	213,727	67,979	34,576	35,712	13,488	13,674	11,227	10,482	-	3,580
2014 Q1	49,164	45,113	3,500	50,990	16,868	8,097	8,582	3,262	3,029	2,693	2,313	-	1,827
Q2	49,290	46,757	1,769	51,332	16,463	8,234	8,600	3,304	3,282	2,651	2,404	-	2,042
Q3	49,992	46,637	2,634	51,035	16,335	8,266	8,392	3,152	3,313	2,607	2,391	-	1,043
Q4	54,604	50,593	2,597	52,017	15,997	8,496	8,642	3,347	3,444	2,665	2,907	+	2,588
2015 Q1	50,407	46,846	2,875	53,255	17,532	8,554	8,961	3,379	3,216	2,935	2,360	-	2,848
Q2	51,850		2,875	53,351	17,157	8,661	8,976	3,385	3,376	2,730	2,433	-	1,501
Q3	51,888	48,472	2,875	52,884	16,899	8,621	8,808	3,262	3,398	2,732	2,508	-	996
Q4	55,872	52,085	2,875	54,124	16,553	8,773	8,998	3,449	3,618	2,834	3,102	+	1,747
2016 Q1	53,320	49,292	3,500	55,424	18,044	8,879	9,374	3,470		2,955	2,458	-	2,104
Q2	54,988	51,009	3,500	55,603	17,686	9,005	9,362	3,478	3,528	2,963	2,599	-	615
Q3	55,632	51,377	3,500	55,114	17,421	8,929	9,166	3,399	3,585	2,842	2,628	+	517

Source: Federal Ministry of Health. **1** The final annual figures do not tally with the sum of the quarterly figures, as the latter are all provisional. Excluding revenue and expenditure as part of the risk structure compensation scheme. **2** Including contributions from subsidised low-paid part-time employment. **3** Federal grant and liquidity assistance. **4** Including dentures. **5** Net, ie after deducting reimbursements for ex-

penses for levying contributions incurred by other social insurance funds. Including administrative expenditure on disease management programmes. ${\bf 6}$ Data on individual expenditure categories for 2010 only partly comparable with prior-year figures owing to a change in the statistical definition.

11 Statutory long-term care insurance scheme: budgetary development*

	€ million									
	Revenue 1		Expenditure 1							
				of which						
Period	Total	<i>of which</i> Contributions 2	Total	Non-cash care benefits	In-patient care	Nursing benefit	Contributions to pension insur- ance scheme 3	Administrative expenditure	Deficit/ surplus	
2009	21,300	21,137	20,314	2,742	9,274	4,443	878	984	+	986
2010	21,864	21,659	21,539	2,933	9,567	4,673	869	1,028	+	325
2011	22,294	22,145	21,962	3,002	9,700	4,735	881	1,034	+	331
2012	23,082	22,953	22,988	3,135	9,961	5,073	881	1,083	+	95
2013	24,972	24,891	24,405	3,389	10,058	5,674	896	1,155	+	567
2014	25,974	25,893	25,457	3,570	10,263	5,893	946	1,216	+	517
2015	30,825	30,751	29,101	3,717	10,745	6,410	960	1,273	+	1,723
2014 Q1	6,168	6,141	6,290	871	2,542	1,463	229	315	-	123
Q2	6,404	6,386	6,260	848	2,554	1,466	236	309	+	144
Q3	6,405	6,386	6,442	932	2,577	1,481	237	299	-	37
Q4	6,933	6,918	6,462	907	2,590	1,529	238	288	+	471
2015 Q1	7,252	7,228	6,906	906	2,655	1,571	236	333	+	346
Q2	7,611	7,592	7,139	902	2,666	1,591	239	311	+	472
Q3	7,626	7,609	7,390	930	2,701	1,613	239	326	+	236
Q4	8,198	8,180	7,571	966	2,722	1,682	240	295	+	626
2016 Q1	7,600	7,578	7,587	941	2,703	1,613	238	389	+	13
Q2	7,918	7,901	7,659	949	2,724	1,665	244	331	+	259
Q3	7,958	7,942	7,810	961	2,746	1,682	247	373	+	147

Source: Federal Ministry of Health. * Including transfers to the long-term care provident fund. 1 The final annual figures do not tally with the sum of the quarterly figures, as the latter are all provisional. 2 Since 2005 including special contributions for

childless persons (0.25% of income subject to insurance contributions). ${\bf 3}$ For non-professional carers.

12 Central government: borrowing in the market

13 General government: debt by creditor*

	€ mil	lion						
	Total	new borro	wing	1	of wl			hich
Period	Gros	- 7	Net		Chan in mo mark loans	oney et	mar	oney
Fellou	GIUS	5 -	iver		IUalis	•	uepu	JSILS
2009	+	312,729	+	66,821	-	8,184	+	106
2010	+	302,694	+	42,397	-	5,041	+	1,607
2011	+	264,572	+	5,890	-	4,876	-	9,036
2012	+	263,334	+	31,728	+	6,183	+	13,375
2013	+	246,781	+	19,473	+	7,292	-	4,601
2014	+	192,540	-	2,378	-	3,190	+	891
2015	+	167,655	-	16,386	-	5,884	-	1,916
2014 Q1	+	43,862	-	3,551	-	9,267	-	9,556
Q2	+	58,444	+	9,500	+	6,281	+	10,589
Q3	+	47,215	-	8,035	-	2,111	-	10,817
Q4	+	43,018	-	292	+	1,907	+	10,675
2015 Q1	+	52,024	-	3,086	+	4,710	-	7,612
Q2	+	36,214	-	5,404	-	12,133	+	6,930
Q3	+	46,877	-	1,967	-	806	-	1,091
Q4	+	32,541	-	5,929	+	2,344	-	142
2016 Q1	+	61,598	+	10,650	+	8,501	-	19,345
Q2	+	60,691	+	4,204	+	3,694	+	4,084
Q3	+	33,307	-	13,887	-	18,398	-	4,864

Source: Federal Republic of Germany – Finance Agency. 1 Including the Financial Market Stabilisation Fund, the Investment and Repayment Fund and the Restructuring Fund for Credit Institutions. 2 After deducting repurchases. 3 Excluding the central account balance with the Deutsche Bundesbank.

	€ million					
		Banking sys	tem	Domestic non	-banks	
Period (End of year or quarter)	Total	Bundes- bank	Domestic MFIs pe	Other do- mestic fi- nancial cor- porations Pe	Other domestic creditors 1	Foreign creditors pe
2009	1,785,468	4,440	556,048	188,858	138,591	897,531
2010	2,088,726	4,440	691,572	208,244	131,939	1,052,532
2011	2,128,123	4,440	642,358	208,075	120,745	1,152,505
2012	2,204,507	4,440	646,022	200,458	139,984	1,213,603
2013	2,189,153	4,440	636,617	190,956	144,524	1,212,616
2014 P	2,188,671	4,440	623,661	190,364	130,527	1,239,679
2015 P	2,157,880	77,220	610,429	186,682	146,173	1,137,375
2014 Q1 P	2,178,434	4,440	633,639	190,651	129,784	1,219,920
Q2 P	2,184,835	4,440	631,114	189,890	129,978	1,229,413
Q3 p	2,185,986	4,440	632,943	189,142	126,665	1,232,797
Q4 p	2,188,671	4,440	623,661	190,364	130,527	1,239,679
2015 Q1 P	2,194,643	12,335	630,965	189,258	135,350	1,226,734
Q2 P	2,160,596	34,310	617,084	187,360	137,228	1,184,615
Q3 p	2,162,331	54,990	620,916	188,234	138,627	1,159,565
Q4 p	2,157,880	77,220	610,429	186,682	146,173	1,137,375
2016 Q1 P	2,165,669	100,051	611,809	183,192	143,490	1,127,127
Q2 P	2,168,530	133,297	598,394	181,394	159,274	1,096,171
Q3 P	2,161,260	163,636	593,919	179,376	156,735	1,067,594

Source: Bundesbank calculations based on data from the Federal Statistical Office. \star As defined in the Maastricht Treaty. **1** Calculated as a residual. Deutsche Bundesbank Monthly Report January 2017 64•

X Public finances in Germany

14 Central, state and local government: debt by category*

	€ million											
									Loans from no	on-banks	Old debt	
Period (End of year or quarter)	Total	Treasury discount paper (Bubills) 1	Treasury notes 2,3	Five-year Federal notes (Bobls) 2	Federal savings notes	Federal bonds (Bunds) 2	Day-bond	Direct lending by credit institu- tions 4	Social security funds	Other 4	Equal- isation claims 5	Other 5,6
	Central, st	ate and lo	cal govern	ment								
2010 2011 2012 2013	1,732,851 1,752,903 1,791,254 1,816,017	87,042 60,272 57,172 50,128	391,851 414,250 417,469 423,441	195,534 214,211 234,355 245,372	8,704 8,208 6,818 4,488	628,957 644,894 667,198 684,951	1,975 2,154 1,725 1,397	302,716 292,606 288,806 291,429	21 102 70 46	111,609 111,765 113,198 110,323	4,440 4,440 4,440 4,440	2 2 2 2 2
2014 Q1 Q2 Q3 Q4	1,809,286 1,821,829 1,818,450 1,817,015	41,870 39,049 34,149 27,951	417,260 419,662 427,125 429,633	259,344 253,524 265,789 259,186	4,130 3,773 3,068 2,375	688,047 703,513 691,607 703,812	1,314 1,262 1,219 1,187	282,383 285,729 280,889 276,723	21 16 16 42	110,476 110,859 110,147 111,664	4,440 4,440 4,440 4,440	2 2 2 2
2015 Q1 Q2 Q3 Q4	1,821,890 1,807,271 1,811,599 1,804,625	28,317 29,575 26,213 19,431	425,257 421,582 424,534 429,818	250,432 243,299 256,613 246,940	2,271 2,031 1,677 1,305	707,905 722,562 715,763 725,285	1,155 1,133 1,106 1,070	290,509 271,661 270,467 263,303	42 42 42 59	111,561 110,944 110,741 112,972	4,440 4,440 4,440 4,440	2 2 2 2 2
2016 Q1 P Q2 P Q3 P	1,813,920 1,812,052 1,803,768	21,804 29,543 31,237	427,090 427,813 433,493	240,281 235,389 245,945	1,205 1,108 922	730,533 727,922 717,357	1,051 1,033 1,021	278,432 276,974 262,098	59 59 59	109,023 107,769 107,194	4,440 4,440 4,440	2 2 2
	Central go	overnment ⁷	7,8									
2010 2011 2012 2013	1,075,415 1,081,304 1,113,032 1,132,505	85,867 58,297 56,222 50,004	126,220 130,648 117,719 110,029	195,534 214,211 234,355 245,372	8,704 8,208 6,818 4,488	628,582 644,513 666,775 684,305	1,975 2,154 1,725 1,397	13,349 9,382 16,193 23,817		10,743 9,450 8,784 8,652	4,440 4,440 4,440 4,440	2 2 2 2 2
2014 Q1 Q2 Q3 Q4	1,128,954 1,138,455 1,130,420 1,130,128	41,608 37,951 33,293 27,951	107,914 105,639 104,763 103,445	259,344 253,524 265,789 259,186	4,130 3,773 3,068 2,375	687,001 702,467 690,561 702,515	1,314 1,262 1,219 1,187	14,551 20,781 18,745 20,509		8,651 8,616 8,541 8,518	4,440 4,440 4,440 4,440	2 2 2 2
2015 Q1 Q2 Q3 Q4	1,127,042 1,121,637 1,119,670 1,113,741	26,495 27,535 24,157 18,536	102,203 101,090 98,087 96,389	250,432 243,299 256,613 246,940	2,271 2,031 1,677 1,305	706,308 720,715 713,766 723,238	1,155 1,133 1,106 1,070	25,289 13,021 11,776 13,825		8,448 8,373 8,046 7,996	4,440 4,440 4,440 4,440	2 2 2 2
2016 Q1 Q2 Q3	1,124,391 1,128,595 1,114,708	20,526 28,369 30,626	98,232 99,417 102,053	240,281 235,389 245,945	1,205 1,108 922	728,457 725,469 714,903	1,051 1,033 1,021	22,533 26,236 7,794		7,664 7,133 7,002	4,440 4,440 4,440	2 2 2
	State gove	ernment										
2010 2011 2012 2013	528,696 537,870 540,836 545,814	1,176 1,975 950 125	265,631 283,601 299,750 313,412				.	167,429 154,844 138,698 133,899	1 62 52 35	94,459 97,387 101,386 98,343		1 1 1 1
2014 Q1 Q2 Q3 Q4	540,134 542,656 546,756 544,419	261 1,098 856 0	309,346 314,024 322,362 326,188					132,020 128,616 125,257 119,529	10 5 5 5	98,495 98,913 98,276 98,697		1 1 1 1
2015 Q1 Q2 Q3 Q4	547,487 538,594 544,260 543,311	1,821 2,040 2,056 895	323,055 320,492 326,447 333,429		· · · · · · · · · · · · · · · · · · ·			123,943 117,935 117,506 109,985	5 5 5 5	98,662 98,121 98,245 98,996		1 1 1 1
2016 Q1 P Q2 P Q3 P	542,063 536,186 541,067	1,278 1,173 611	328,858 328,397 331,441					116,542 111,953 114,798	5 6 6	95,379 94,657 94,212		1 1 1
	Local gove	ernment ⁹										
2010 2011 2012 2013	128,740 133,730 137,386 137,697				.	375 381 423 646	.	121,938 128,380 133,916 133,713	20 40 18 11	6,407 4,929 3,029 3,328		
2014 Q1 Q2 Q3 Q4	140,198 140,719 141,274 142,468					1,046 1,046 1,046 1,297		135,811 136,332 136,888 136,686	11 11 11 37	3,330 3,330 3,330 4,448		
2015 Q1 Q2 Q3 Q4	147,362 147,039 147,669 147,573					1,597 1,847 1,997 2,047		141,278 140,705 141,185 139,493	37 37 37 54	4,450 4,450 4,450 5,980	.	
2016 Q1 P Q2 P Q3 P	147,466 147,271 147,993					2,076 2,453 2,454		139,356 138,785 139,506	54 54 54	5,980 5,980 5,980		

Source: Bundesbank calculations based on data from the Federal Statistical Office. * Excluding direct intergovernmental borrowing. 1 Including Treasury financing paper. 2 Excluding issuers' holdings of their own securities. 3 Treasury notes issued by state government include long-term notes. 4 Mainly loans against borrowers' notes and cash advances. Including loans raised abroad. Other loans from non-banks, including loans from public supplementary pension funds and liabilities arising from the investment assistance levy. 5 Excluding offsets against outstanding claims. 6 Old debt mainly denominated in foreign currency, in accordance with the London Debts Agreement, old liabilities arising from housing construction and liabilities arising from housing construction by the former GDR's armed forces and from housing construction in connection with the return of the troops of the former USSR stationed in eastern Germany to their home country; excluding debt securities in own portfolios. **7** In contrast to the capital market statistics, the debt incurred through the joint issuance of Federal securities is recorded here under central government and its special funds in accordance with the agreed allocation ratios. **8** From January 2011, including debt of the Restructuring Fund for Credit Institutions. **9** Including debt of municipal special purpose associations. Data other than year-end figures have been estimated.

1 Origin and use of domestic product, distribution of national income

	2015							2016					
	2014	2015	2016	2014	2015	2016	Q1	Q2	Q3	Q4	Q1	Q2	Q3
tem	Index 20	10=100		Annual p	ercentage	change							
At constant prices, chained													
I Origin of domestic product Production sector (excluding construction) Construction Wholesale/retail trade, transport and storage, hotel and restaurant	110.0 101.6	111.8 101.4	113.6 104.3	5.0 1.4	1.6 - 0.2	1.6 2.8	0.8 - 2.2	1.9 – 0.8	1.7 – 0.8	1.9 2.4	1.0 1.3	4.1 5.2	0. 2.
services Information and communication Financial and insurance	106.6 125.9	108.6 129.1	111.0 132.9	0.4 4.8	1.9 2.5	2.3 3.0	2.2 1.7	1.8 2.8	1.6 2.5	1.9 3.0	1.3 2.9	4.3 3.9	2
activities Real estate activities Business services 1 Public services, education and	105.8 101.8 106.6	106.5 102.6 109.0	109.2 103.4 111.2	- 4.8 - 1.5 2.4	0.7 0.9 2.3	2.5 0.8 2.0	- 0.6 0.5 1.6	2.2 0.8 2.6	1.6 0.9 2.1	- 0.4 1.2 3.0	2.2 0.7 1.7	1.3 1.1 3.7	2 0 1
health Other services	103.1 97.3	105.2 97.6	107.0 98.8	0.7 - 0.5	2.0 0.3	1.7 1.2	2.1 - 0.2	2.3 0.3	2.1 0.2	1.6 0.9	1.3 0.2	1.8 2.2	1
Gross value added	106.3	107.9	109.9	1.5	1.6	1.8	1.1	1.7	1.6	1.8	1.2	3.2	1
Gross domestic product ²	106.4	108.2	110.2	1.6	1.7	1.9	1.3	1.8	1.8	2.1	1.5	3.1	1
Il Use of domestic product Private consumption 3 Government consumption Machinery and equipment Premises Other investment 4 Changes in inventories 5 , 6	104.4 104.5 106.8 109.5 111.4	106.5 107.4 110.7 109.8 113.5	108.6 111.9 112.6 113.3 116.5	0.9 1.2 5.5 1.9 4.0 – 0.1	2.0 2.7 3.7 0.3 1.9 – 0.5	2.0 4.2 1.7 3.1 2.6 – 0.4	2.1 2.2 1.5 - 2.0 2.0 - 0.4	1.7 2.8 1.8 - 0.0 1.6 - 1.0	2.2 2.6 4.4 0.1 1.8 – 0.2	2.1 3.4 6.4 3.1 2.1 – 0.3	2.0 4.2 3.9 2.5 2.4 – 0.2	2.7 4.3 4.5 4.8 2.7 – 0.3	1 4 - 0 2 2 - 0
Domestic demand Net exports 6 Exports Imports	104.5 118.0 114.8	106.2 124.1 121.0	108.5 127.3 125.1	1.4 0.3 4.1 4.0	1.6 0.2 5.2 5.5	2.2 - 0.1 2.5 3.4	1.2 0.1 5.5 6.0	0.7 1.2 6.7 4.9	2.0 - 0.1 4.9 6.0	2.5 - 0.3 3.6 5.0	2.4 - 0.7 1.3 3.3	3.1 0.3 4.6 4.9	2 - 0 1 2
Gross domestic product ² At current prices (€ billion)	106.4	108.2	110.2	1.6	1.7	1.9	1.3	1.8	1.8	2.1	1.5	3.1	1
II Use of domestic product Private consumption 3 Government consumption Machinery and equipment Premises Other investment 4 Changes in inventories 5	1,594.4 561.1 191.5 288.7 105.0 – 7.4	1,636.0 583.7 200.2 295.0 108.6 – 20.2	1,677.9 617.5 205.3 309.6 112.9 – 31.3	1.8 3.5 6.1 4.2 5.5	2.6 4.0 4.6 2.2 3.5	2.6 5.8 2.6 4.9 3.9	2.4 3.3 2.4 - 0.0 3.7	2.5 4.1 2.6 1.9 3.2	2.7 3.8 5.3 1.9 3.3	2.8 4.9 7.4 4.9 3.7	2.5 6.1 5.0 4.1 3.8	3.1 6.0 5.4 6.7 4.0	2 6 0 4 4
Domestic use Net exports	2,733.2	2,803.3 229.5	2,891.9 241.9	2.8	2.6	3.2	2.0	1.8	2.9	3.6	3.2	3.9	2
Exports Imports	1,334.8		1,440.0	3.9 2.5	6.3 3.9	1.5 0.7	6.2 3.7	8.6 4.5	6.2 4.7	4.2 2.8	0.7 0.2	2.7 0.7	- 0 - 0
Gross domestic product ²	2,923.9	3,032.8	3,133.9	3.5	3.7	3.3	3.2	3.8	3.7	4.2	3.2	4.6	2
/ Prices (2010=100) Private consumption Gross domestic product Terms of trade	105.6 106.6 99.5	106.2 108.7 102.0	106.9 110.2 103.6	1.0 1.8 1.3		0.6 1.4 1.6	0.3 1.9 3.0	0.8 2.0 2.1	0.5 1.9 2.5	0.6 2.1 2.6	0.5 1.7 2.4	0.4 1.4 2.3	(1 1
V Distribution of national income Compensation of employees Entrepreneurial and property	1,485.5	1,539.9	1,594.6	3.9	3.7	3.6	3.2	3.8	3.8	3.9	4.2	3.4	з
	1 604.4	723.4	746.1	2.4	4.2	3.1	4.0	3.6	4.1	5.3	1.8	9.8	
income National income	694.1 2,179.5		<u> </u>	3.4	3.8	3.4	3.4	3.8	3.9	4.3	3.3	5.3	1

Source: Federal Statistical Office; figures computed in November 2016. Initial annual results for 2016: figures computed in January 2017. **1** Professional, scientific, technical, administration and support service activities. **2** Gross value added plus taxes on products (netted with subsidies on products). **3** Including non-profit institutions serv-

ing households. **4** Intellectual property rights (inter alia, computer software and entertainment, literary or artistic originals) and cultivated assets. **5** Including net increase in valuables. **6** Contribution of growth to GDP.

XI Economic conditions in Germany

2 Output in the production sector*

Adjusted for working-day variations ${\bf o}$

	Aujusteu ioi v	of which:										
		or which.		Industry								
				industry	of which: by r	nain industrial	aroupina		of which: by e	economic secto	r	
	Production sector, total	Construc- tion	Energy	Total	Inter- mediate goods	Capital goods	Durable goods	Non- durable goods	Manu- facture of basic metals and fabricated metal products	Manu- facture of computers, electronic and optical products	Machinery and equipment	Motor vehicles, trailers and semi- trailers
	2010=10	0										
% of total 1 Period	100.00	11.24	10.14	78.62	31.02	33.31	2.49	11.80	10.41	10.37	12.17	11.62
2012	106.2	105.9	97.4	107.4	104.6	113.3	100.5	99.8	107.3	107.8	115.2	112.7
2013	106.4	105.6	96.4	107.8	104.4	114.0	100.1	100.6	108.3	106.0	113.8	114.8
2014	107.9	108.4	92.7	109.8	106.3	116.6	100.5	102.2	111.3	108.7	115.1	119.5
2015	108.5	106.0	97.5	110.3	106.2	117.6	102.8	101.9	111.4	109.5	114.8	119.3
2015 Q3	109.0	113.8	93.1	110.4	107.4	116.6	100.2	103.2	112.2	111.0	113.5	117.5
Q4	111.3	117.9	100.7	111.7	103.3	122.6	105.4	104.4	109.7	111.3	122.5	116.5
2016 Q1	106.8	86.4	101.9	110.3	107.6	116.6	106.7	100.7	112.9	108.9	109.1	124.9
Q2	108.9	108.0	89.1	111.6	108.3	119.0	104.4	101.1	114.4	109.3	113.0	124.2
Q3 r	109.9	114.8	91.8	111.5	108.2	117.9	103.2	103.8	112.6	113.8	114.1	119.5
2015 Nov	115.7	120.6	101.3	116.9	109.5	127.0	113.4	108.7	117.1	115.8	121.3	129.5
Dec	104.2	114.2	101.7	103.1	90.2	117.7	93.4	97.7	94.3	105.5	130.1	89.7
2016 Jan	100.3	71.5	106.5	103.6	103.2	105.7	100.1	99.6	107.6	102.2	96.1	114.8
Feb	104.1	84.7	96.9	107.9	105.1	114.9	105.4	96.1	110.0	106.6	106.3	125.4
Mar	115.9	103.1	102.4	119.5	114.6	129.1	114.5	106.4	121.2	117.9	125.0	134.5
Apr	108.3	104.8	91.3	110.9	108.0	118.0	105.1	99.8	114.1	107.4	110.1	127.9
May	106.4	106.7	89.8	108.5	107.2	113.1	97.9	101.0	112.2	105.6	107.8	116.0
June	112.1	112.5	86.1	115.4	109.6	125.8	110.1	102.4	116.9	114.9	121.0	128.6
July 2,r	110.3	117.6	91.7	111.7	109.4	118.0	100.0	102.5	113.9	112.5	112.2	122.0
Aug 2,r	104.4	110.5	90.6	105.3	104.1	108.2	94.6		107.1	108.4	107.0	104.7
Sep r	115.0	116.2	93.1	117.6	111.2	127.6	115.0		116.9	120.5	123.0	131.9
Oct × Nov ×,p	115.7 118.3	120.0	99.5	117.2	112.3	124.6	114.2	109.9	118.4	117.3	115.6	132.7
	Annual p	ercentage	change									
2012	- 0.5	- 1.0	+ 1.9	- 0.6	- 2.2	+ 1.3	- 3.6		- 1.7	- 2.2	+ 1.8	+ 0.1
2013	+ 0.2	- 0.3	- 1.0	+ 0.4	- 0.2	+ 0.6	- 0.4		+ 0.9	- 1.7	- 1.2	+ 1.9
2014	+ 1.4	+ 2.7	- 3.8	+ 1.9	+ 1.8	+ 2.3	+ 0.4		+ 2.8	+ 2.5	+ 1.1	+ 4.1
2015	+ 0.6	- 2.2	+ 5.2	+ 0.5	- 0.1	+ 0.9	+ 2.3		+ 0.1	+ 0.7	- 0.3	- 0.2
2015 Q3	+ 1.0	- 2.3	+ 7.5	+ 0.9	+ 0.2	+ 1.6	+ 3.3	+ 0.4	+ 1.0	+ 0.3	- 1.3	+ 2.6
Q4	- 0.3	- 0.8	+ 1.1	- 0.4	- 0.3	- 0.2	+ 0.7	- 1.6	- 1.0	+ 0.1	- 2.2	- 2.0
2016 Q1	+ 1.5	+ 2.8	- 2.6	+ 1.9	+ 1.3	+ 2.5	+ 2.5		+ 2.3	+ 1.2	+ 1.7	+ 1.8
Q2	+ 0.5	- 0.2	- 2.5	+ 0.9	+ 0.6	+ 1.2	+ 2.9		+ 0.9	+ 1.2	- 2.5	+ 3.2
Q3 r	+ 0.8	+ 0.9	- 1.4	+ 1.0	+ 0.7	+ 1.1	+ 3.0		+ 0.4	+ 2.6	+ 0.5	+ 1.7
2015 Nov	± 0.0	± 0.0	+ 2.9	- 0.3	± 0.0	- 0.9	+ 1.3	+ 0.2	- 1.6	- 0.3	- 1.7	- 3.6
Dec	- 1.0	- 1.5	- 0.2	- 1.2	- 0.1	- 1.7	- 0.5	- 2.3	- 2.1	+ 2.7	- 4.4	- 7.0
2016 Jan	+ 2.6	+ 1.0	+ 0.1	+ 3.1	+ 1.4	+ 4.8	+ 5.1	+ 2.4	+ 3.0	+ 1.7	+ 1.6	+ 6.3
Feb	+ 1.8	+ 7.9	- 4.2	+ 2.0	+ 2.0	+ 2.0	+ 1.6	+ 1.7	+ 2.0	+ 1.3	+ 2.2	+ 0.1
Mar	+ 0.3	+ 0.2	- 3.9	+ 0.8	+ 0.7	+ 1.0	+ 1.1	+ 0.4	+ 2.0	+ 0.8	+ 1.5	- 0.2
Apr	+ 0.8	- 0.9	- 4.2	+ 1.6	+ 1.1	+ 2.0	+ 2.9	+ 1.1	+ 1.0	+ 2.9	- 1.9	+ 5.9
May	- 0.3	- 0.8	+ 0.4	- 0.3	+ 0.8	- 1.7	- 1.8	+ 1.2	+ 0.3	- 0.5	- 3.8	- 3.3
June	+ 1.0	+ 1.0	- 3.6	+ 1.5	- 0.2	+ 3.2	+ 7.3	- 1.1	+ 1.5	+ 1.2	- 1.9	+ 7.0
July 2,r	- 1.3	+ 1.4	- 2.7	- 1.5	- 0.5	- 2.5	+ 2.9		- 0.8	+ 0.7	- 3.4	- 3.7
Aug 2,r	+ 2.3	+ 0.3	- 0.1	+ 2.8	+ 1.6	+ 4.2	+ 4.2		+ 1.2	+ 3.2	+ 1.3	+ 8.0
Sep r	+ 1.5	+ 1.0	- 1.5	+ 1.8	+ 1.2	+ 2.0	+ 2.0		+ 0.8	+ 3.7	+ 3.4	+ 2.3
Oct ×	+ 1.6	+ 0.8	+ 0.5	+ 1.7	+ 1.9	+ 1.1	+ 4.3		+ 0.7	+ 4.2	- 0.4	+ 1.8
Nov ×,p	+ 2.2	+ 1.2	- 0.9	+ 2.7	+ 2.2	+ 3.4	- 0.1		+ 3.4	+ 3.9	+ 4.5	+ 1.8

Source of the unadjusted figures: Federal Statistical Office. * For explanatory notes, see Statistical Supplement Seasonally adjusted business statistics, Tables II.10 to II.12. o Using the Census X-12-ARIMA method, version 0.2.8. 1 Share of gross value added at factor cost of the production sector in the base year 2010. 2 Influenced by

a change in holiday dates. **x** Provisional; adjusted in advance by the Federal Statistical Office, by way of estimates, to the results of the Quarterly Production Survey or the Quarterly Survey in the specialised construction industry, respectively.

3 Orders received by industry *

Adjusted for working-day variations ${f o}$

		vorking-day v															
			of which:		_												
									_			of which:					
	Industry		Intermediate	í –	Ca	pital goods			Consumer go		-	Durable good			Non-durable g		
		Annual percent-		Annual percent-			Annual percent			Annual percent-			Annual percent-	.		Annual percen	
Period	2010=100	age change	2010=100	age change	20	10=100	age change		2010=100	age change		2010=100	age change		2010=100	age change	
renou	2010-100	change	2010-100	change	20	10-100	change		2010-100	change		2010-100	change		2010-100	change	
	Total																
2011	109.9	+ 10.			9.6	111.2	+	11.8	103.8		4.2	105.3	+	5.8	103.3	+	3.7
2012 2013	106.9 109.4	- 2. + 2.			l.5).9	109.2 114.3	-+	1.8 4.7	103.8 105.9		0.0 2.0	99.4 101.8	-+	5.6 2.4	105.3 107.4	+++	1.9 2.0
2014	112.4	+ 2.			0.6	118.6	+	3.8	110.8		4.6	102.4	+	0.6	113.7	+	5.9
2015	114.8	+ 2.	1 103.0	- 0).9	123.2	+	3.9	114.3	+	3.2	106.7	+	4.2	116.9	+	2.8
2015 Nov Dec	116.6 110.6	+ 1. - 1.		- 2	.1 2.5	124.9 125.5	+ -	2.1 2.6	115.4 106.3		1.9 8.8	109.6 98.7	+ +	4.6 6.2	117.4 109.0	+ +	1.0 9.7
2016 Jan Feb	114.1	+ 0. + 0.			5.2 .8	120.3 120.0	+++	2.0 1.4	126.6 119.2		1.6 0.7	116.1 104.1	+++++	10.6 2.8	130.3 124.4	+	12.0 1.8
Mar	127.3	+ 1.	4 108.8		8.9	141.1	+	4.3	123.1		4.9	118.0	+	3.6	124.9	+	5.2
Apr May	113.8	- 1. - 1.			.1	120.4 120.1	-	4.0 0.3	111.6 111.9		0.8 0.9	117.1 100.3	+	12.8 1.5	109.6 115.9	- +	3.1 1.6
June	118.6	- 3.			8.9	130.7	-	4.2	113.9		0.3	110.8	+	2.6	114.9	-	1.4
July Aug	114.9	- 1. + 1.			.9).5	123.1 110.3	-+	1.0 1.8	117.1 112.6		1.3 2.6	109.9 102.5	+++++	1.9 3.0	119.6 116.0	- +	2.4 2.4
Sep	114.6	+ 2.			.6	123.7	+	3.0	116.0	+	1.6	118.9	+	2.1	115.0	+	1.3
Oct Nov P	120.8 120.9	+ 6. + 3.			8.4 8.0	131.2 129.9	+++++	8.8 4.0	119.6 118.8		0.5 2.9	130.3 121.1	++++++	13.5 10.5	115.8 118.0	-+	5.2 0.5
	From the	e domesti	c market														
2011	109.7	+ 10.	3 109.7	+ 10).3	110.8	+	11.4	103.5	+	3.9	110.2	+	10.9	101.1	+	1.5
2012 2013	104.0 104.4	- 5. + 0.			5.8 .4	105.4 107.6	-+	4.9 2.1	99.2 100.4		4.2 1.2	101.9 102.9	-+	7.5 1.0	98.2 99.5	- +	2.9 1.3
2014	105.6	+ 1.			.1	110.9	+	3.1	102.4		2.0	102.9	±	0.0	102.2	+	2.7
2015	107.4	+ 1.	7 99.0	- 1	.8	116.3	+	4.9	105.2	+	2.7	102.1	-	0.8	106.3	+	4.0
2015 Nov Dec	110.4 97.9	+ 4. + 0.			.8 I.2	119.2 112.8	+++++	6.3 4.4	108.3 90.8		5.6 2.7	108.4 83.6	+	2.0 1.4	108.2 93.4	+++	6.8 4.1
2016 Jan	105.6	- 2.	3 98.3		5.7	112.6	+	0.3	107.1	+	0.8	105.2	+	3.4	107.8	-	0.1
Feb Mar	105.6	+ 0. - 4.			2.4	115.5 132.3	+	3.3 4.2	110.1 113.1		0.7 2.0	99.4 114.7	+++++	0.5 5.7	113.9 112.6	-+	1.1 0.7
Apr	108.7	+ 0.			.7	116.4	-	0.8	101.8		2.7	105.1	+	5.3	100.6	+	1.8
May June	105.1 108.5	- 0. + 1.			5.4 1.0	114.5 121.7	+++	2.9 6.3	105.5 100.6		4.7 1.4	94.6 101.2	++++	2.6 1.2	109.4 100.4	+	5.4 2.2
July	106.5	- 5.	1		2.6	114.5	_	7.3	104.6	-	5.5	102.3	_	2.2	105.4	-	6.6
Aug Sep	99.8 104.8	+ 0. - 0.			.8 2.3	107.7 115.6	+++	4.1 1.1	103.4 105.1		3.0 2.5	102.7 115.5	++++	3.0 0.4	103.6 101.4	-	5.0 3.7
Oct	112.1	+ 4.	0 101.8	+ 3	8.0	123.2	+	5.5	107.6	-	0.6	121.1	+	7.2	102.8	-	3.7
Nov P	111.5	+ 1.	0 102.4	+ ().4	121.2	+	1.7	108.6	+	0.3	118.2	+	9.0	105.2	-	2.8
	From ab																
2011 2012	110.0 109.3	+ 10.			8.8 8.0	111.4 111.6	+++++++++++++++++++++++++++++++++++++++	11.8 0.2	104.1 107.7	+++++++++++++++++++++++++++++++++++++++	4.5 3.5	101.0 97.3	+ -	1.4 3.7	105.2 111.3	+++	5.6 5.8
2013 2014	113.5 117.9	+ 3. + 3.).4 2.5	118.5 123.4	++	6.2 4.1	110.7 118.0		2.8 6.6	100.8 102.1	++++	3.6 1.3	114.1 123.5	++++	2.5 8.2
2015	120.7	+ 2.			0.4	123.4	+	3.2	122.1		3.5	110.7	+	8.4	125.5	+	2.0
2015 Nov	121.7	- 0.	2 109.2	+ (0.2	128.4	_	0.2	121.5	-	0.7	110.7	+	7.0	125.2	_	2.9
Dec 2016 Jan	121.0).6 1.6	133.3 125.0	-	6.0 3.0	119.6 143.3		3.2 9.9	111.8 125.6	+++	11.8 16.5	122.3 149.4	+++	13.7 21.0
Feb	118.0	- 0.	3 107.1	- 1	.1	122.7	++	0.2	126.9	-	0.8	108.2	+	4.7	133.3	-	2.3
Mar Apr	135.5	+ 5. - 3.	1		2.6	146.5 122.9	+	9.7 5.8	131.6 119.9		7.0 0.6	120.9 127.6	+++	1.9 18.9	135.3 117.3	+ -	8.7 6.3
May June	118.0	- 1. - 7.	B 107.5	- 1	.0	123.6 136.2	-	2.1 9.3	117.3 125.2	-	1.9 0.2	105.2 119.2	- +	4.5	121.5 127.2	-	1.1 0.9
July	120.3	+ 1.	1		.3	128.4	+	2.7	123.2		1.7	115.2	+	5.5	127.2	+	0.6
Aug Sep	107.8 122.6	+ 1.	9 96.9	+ 3	3.3 5.8	111.9 128.7	+++++	0.4 4.1	120.4 125.4	+	7.1 4.8	102.4 121.9	+++	3.1 3.7	126.6 126.6	++++	8.3 5.1
Oct	127.9	+ 7.	1		8.9	136.1	+	10.7	129.8	-	0.5	138.4	+	19.0	126.9	-	6.1
Nov P	128.5	+ 5.	6 115.6	+ 5	5.9	135.3	+	5.4	127.5	+	4.9		+	11.7	128.8	+	2.9

Source of the unadjusted figures: Federal Statistical Office. * At current prices; for explanatory notes, see Statistical Supplement Seasonally adjusted business statistics,

Tables II.14 to II.16. o Using the Census X-12-ARIMA method, version 0.2.8.

4 Orders received by construction *

Adjusted for working-day variations o

			Breakdow	n by	type o	f constructi	on											Breakdow	n by	client	1		
			Building																				
Total			Total			Housing construction	on		Industrial construction	on		Public sect construction			Civil engineerin	g		Industry			Public sector 2		
2010 = 100	age	cent-	2010 = 100	age	cent-	2010 = 100	Anr per age cha	cent-	2010 = 100	per age	nual cent- e inge	2010 = 100	age	cent-	2010 = 100	age	cent-	2010 = 100	per age		2010 = 100	Anr pero age cha	cer
107.1 114.7 119.2 118.5 124.2	-	7.5 7.1 3.9 0.6 4.8	112.1 121.4 126.5 127.2 133.6	+	12.4 8.3 4.2 0.6 5.0	120.5 132.4 140.6 146.6 165.4	+	21.0 9.9 6.2 4.3 12.8	113.6 124.2 128.1 126.8 124.3	+ + -	13.8 9.3 3.1 1.0 2.0	91.5 91.8 93.9 90.6 98.5	- + + -	8.1 0.3 2.3 3.5 8.7	102.0 107.9 111.9 109.9 114.8	+ + + -	2.5 5.8 3.7 1.8 4.5	112.7 118.8 121.9 121.8 122.6	+ -	13.2 5.4 2.6 0.1 0.7	95.9 103.4 107.7 104.0 109.3	- + + -	
117.7 118.8 123.3	+++++	3.5 19.6 21.0	128.0 137.1 135.0	- +	1.0 21.3 10.6	158.4 152.4 166.7		4.2 17.1 8.0	116.4 144.6 125.4	- +	10.0 24.0 8.9	102.8 84.9 101.2	+ + +	21.7 24.3 27.6	107.4 100.5 111.6	+ + +	9.6 17.3 36.4	120.5 140.4 114.8	++++	1.1 28.9 4.6	98.6 83.2 114.6	+++++++++++++++++++++++++++++++++++++++	!
108.5 120.6 164.7	+	13.9 15.0 15.5	117.7 126.0 168.4	+	15.5 11.0 12.3	147.4 157.8 227.3	+	20.5 15.4 19.9	106.6 115.4 146.7		6.1 9.2 9.9	92.0 94.7 117.0	+ + -	40.0 4.2 2.9	99.3 115.3 161.0	+ + +	11.8 19.7 19.0	111.5 109.5 150.0	+ + + +	7.0 5.7 9.6	89.7 117.1 154.6	+ + + +	
150.9 157.4 165.1	+	18.8 18.5 19.9	155.3 176.1 181.0	+	16.7 27.4 24.4	195.8 209.6 223.4	+	14.2 24.8 27.7	142.3 173.7 174.6	+	20.0 32.6 25.5	114.0 117.6 116.8	+	13.0 16.1 9.5	146.6 138.7 149.1	+ + +	21.3 8.9 14.7	140.3 156.0 161.3	++++++	18.8 19.4 20.3	143.8 137.9 145.5	+ + +	
152.7 138.9 144.4	+	15.7 12.1 7.5	163.7 148.6 161.5		17.4 14.2 6.7	194.8 184.2 225.5	+	5.6 16.9 11.5	158.6 141.5 133.1		31.8 14.9 0.5	117.4 99.6 120.2	+	9.5 2.9 16.6	141.8 129.1 127.4	+	13.8 9.8 8.6	144.2 132.3 129.6	+	19.5 10.9 1.0	144.5 127.4 127.0	+ + +	
145.5	+	23.6	157.1	+	22.7	194.3	+	22.7	148.2	+	27.3	110.4	+	7.4	133.8	+	24.6	145.0	+	20.3	126.3	+	2

sealusive of value-added tax; for explanatory notes, see Statistical Supplement Seasonally adjusted business statistics, Table II.21. o Using the Census X-12-ARIMA

construction.

5 Retail trade turnover, sales of motor vehicles *

Adjusted for calendar variations ${\boldsymbol{\circ}}$

	Retail trad	e																						
							of which:	by en	terpris	ses main pr	oduct	range	₂ 1											
	Total						Food, beve tobacco 2	erage	5,	Textiles, clothing foodwear leather go			Informatio and communic equipment	ation	s	Constructi and floorir materials, household appliances furniture	ng		Retail sale pharmaced and medic goods, cos and toilet articles	utical :al	:	Wholesale and retail and repain motor veh motorcycl	trade of iicles	
	At current prices			At prices i year 2010			At current	price	s															
	2010 = 100	Anr pero age cha	cent-	2010 = 100	Annu perce age chang	nt-	2010 = 100	Annu perce age chan	ent-	2010 = 100	Anni perc age char	ent-		Anni perci age chan	ent-	2010 = 100	Annu perce age chan	ent-	2010 = 100	Annu perce age chan	ent-	2010 = 100	Ann perc age char	ent-
3	102.7 104.5 106.2 108.2 110.9	+ + +	1.8 1.6 1.9	101.1 100.8 101.3 102.8 105.3	- + +	1.0 0.3 0.5 1.5 2.4	102.5 105.2 109.0 111.6 114.8	+ + + +	2.3 2.6 3.6 2.4 2.9	101.6 102.3 103.1 104.9 105.2	+ + + +	1.8 0.7 0.8 1.7 0.3	99.4 99.0 95.4 94.6 95.6	-	0.5 0.4 3.6 0.8 1.1	103.7 104.5 102.3 101.9 104.7	+ + -	3.7 0.8 2.1 0.4 2.7	100.3 100.7 103.4 110.7 116.5	+ + + +	0.3 0.4 2.7 7.1 5.2	107.1 105.8 104.5 107.1 115.2	-+	7.9 1.2 1.2 2.5 7.6
y 3 ∞	115.5 131.3	+++++	2.5	105.3 109.5 125.5	++++++	2.4 2.0 3.0	114.8 116.4 133.9	+++++	2.9 3.1 3.6	105.2 104.2 124.3	+ - +	0.5 3.1 0.6	95.6 110.7 148.3	+++++	1.1 1.1 1.2	114.6 113.4	+++++	3.6 5.6	122.6 130.6	+++++	5.2 5.9 4.0	124.1 106.1	+++++	10.0 4.2
n b ar	103.6 99.8 113.5	+++++	2.3	99.5 95.4 107.4	+ + +	2.1 2.0 0.8	108.2 105.6 117.1	+ + +	3.4 3.4 1.2	92.2 80.4 98.0	+	4.2 1.2 7.5	98.6 85.7 91.3	- + +	2.3 0.2 1.7	92.9 94.0 112.5	+ + +	2.7 3.6 0.4	116.0 113.3 123.6	+ + +	3.8 4.6 4.2	105.4 110.3 134.2	+++++++	10.0 8.9 4.7
ir ay ne	112.7 113.1 110.2	++++++	1.5	106.0 106.3 104.2	+ + +	0.8 1.3 1.7	117.1 118.6 116.1	+ + +	0.2 0.9 1.7	113.3 109.4 103.8	+++	4.0 1.5 1.4	81.9 79.5 85.1	+ - +	0.5 1.9 4.2	111.2 109.4 103.4	+ + +	1.9 1.2 1.2	118.6 118.1 117.1	+ + +	2.5 4.9 3.4	130.1 125.2 128.1	+++++++++++++++++++++++++++++++++++++++	6.0 4.2 5.9
y Ig p	113.4 109.1 108.7	++++++	1.4	107.7 103.7 102.4	++	1.5 1.3 0.1	119.0 115.6 112.2	+ + +	2.9 0.3 2.0	108.5 97.9 101.9	+++	0.6 1.9 9.1	89.7 84.3 88.0	- - -	1.1 2.1 5.4	106.4 101.2 101.1	+ + -	2.9 2.2 1.0	124.0 117.7 119.3	+ + +	3.7 5.6 5.0	122.1 114.2 124.3	+++++++++++++++++++++++++++++++++++++++	3.2 8.2 8.8
t v	118.0 117.5	+++		110.8 110.3	+++++	2.9 0.7	118.6 118.8	++++	2.7 2.1	129.6 110.4	+++++	7.6 6.0	100.3 108.8	+	2.5 1.7	112.8 111.2	+ -	1.9 3.0	124.0 124.4	+++++	3.9 1.5	132.4	+	6.4

Source of the unadjusted figures: Federal Statistical Office. * Excluding value-added tax; For explanatory notes, see Statistical Supplement Seasonally adjusted business statistics, Table II.24. o Using the Census X-12-ARIMA method, version 0.2.8. 1 In

stores. ${\bf 2}$ Including stalls and markets. ${\bf 3}$ Figures from January 2015 are provisional, in some cases revised, and particularly uncertain in recent months owing to estimates for missing reports.

Oct

Period

6 Labour market *

	Employment	1	Employment	subject to s	ocial contrib	utions 2,3			Short time w	orkers 4	Unemploym	ent 5		
			Total		of which:					of which:		of which:		
Period	Thou- sands	Annual percentage change	Thou- sands	Annual percentage change	Produc- tion sector Thousands	Services excluding temporary employ- ment	Temporary employ- ment	Solely jobs exempt from social contri- butions 2	Total	Cyclically induced	Total	Recipients of insured unem- ployment benefits	Unem- ploy- ment rate 5,6 in %	Vacan- cies, 5,7 thou- sands
2012	42,062	+ 1.2	29,341	+ 2.3	8,739	19,604	773	4,981	112	67	2,897	902	6.8	478
2013 2014	42,327 42,662	+ 0.6 + 0.8	29,713 30,197	+ 1.3 + 1.6	8,783 8,860	19,958 20,332	743 770	5,017 5,029	124 94	77 49	2,950 2,898	970 933	6.9 6.7	457 490
2015 2016	43,057 	+ 0.9	30,822 	+ 2.1	8,937 	20,839 	806 	4,856 	88 	44	2,795 2,691	859 822	6.4 6.1	569 655
2013 Q4	42,644	+ 0.5	30,118	+ 1.2	8,878	20,234	774	5,028	92	61	2,827	891	6.6	455
2014 Q1 Q2	42,214 42,626	+ 0.8 + 0.9	29,809 30,080	+ 1.4 + 1.7	8,760 8,829	20,103 20,255	730 753	4,991 5,043	178 72	58 56	3,109 2,886	1,078 900	7.2 6.6	452 487
Q3 Q4	42,849 42,958	+ 0.8 + 0.7	30,284 30,614	+ 1.7 + 1.6	8,896 8,956	20,344 20,625	800 796	5,065 5,018	50 77	37 46	2,860 2,738	909 846	6.6 6.3	512 510
2015 Q1 Q2 Q3 Q4	42,512 42,985 43,272 43,457	+ 0.7 + 0.8 + 1.0 + 1.2	30,360 30,671 30,927 31,329	+ 1.8 + 2.0 + 2.1 + 2.3	8,833 8,895 8,974 9,049	20,551 20,740 20,864 21,201	756 792 840 837	4,863 4,863 4,868 4,828	169 61 47 77	51 47 33 46	2,993 2,772 2,759 2,655	1,011 822 827 775	6.9 6.3 6.3 6.0	515 560 595 604
2016 Q1 Q2 Q3 Q4	r 43,060 r 43,486 r 43,641	r + 1.2	31,064 31,326 9 31,425 	+ 2.3 + 2.1 9 + 1.6 	8,927 8,983 9 9,013 	21,120 21,279 9 21,311 	793 820 9 856 	4,786 4,824 9 4,822 	166 59 	50 47 9 31	2,892 2,674 2,651 2,547	932 782 808 766	6.6 8 6.1 6.0 5.8	610 653 682 677
2013 Aug Sep Oct Nov Dec	42,475 42,635 42,731 42,710 42,490	+ 0.5 + 0.6 + 0.6 + 0.5 + 0.5	29,843 30,165 30,181 30,149 29,884	+ 1.2 + 1.4 + 1.2 + 1.1 + 1.2	8,826 8,906 8,900 8,889 8,783	20,002 20,228 20,255 20,252 20,252 20,161	776 786 785 779 731	5,031 5,003 5,011 5,048 5,048	60 70 83 80 114	47 56 70 67 45	2,946 2,849 2,801 2,806 2,874	956 904 870 881 923	6.8 6.6 6.5 6.5 6.7	471 473 466 458 440
2014 Jan Feb Mar Apr June July Aug Sep Oct Nov Dec	42,164 42,283 42,296 42,486 42,643 42,748 42,748 42,780 42,804 43,053 43,010 42,810	+ 0.7 + 0.8 + 0.9 + 0.9 + 0.8 + 0.8 + 0.8 + 0.8 + 0.8 + 0.8 + 0.8 + 0.8	29,736 29,784 29,932 30,060 30,125 30,175 30,175 30,175 30,612 30,636 30,636 30,398	+ 1.4 + 1.5 + 1.7 + 1.7 + 1.6 + 1.9 + 1.8 + 1.6 + 1.7 + 1.6 + 1.7 + 1.6 + 1.7	8,739 8,750 8,826 8,836 8,854 8,854 8,860 8,904 8,992 8,980 8,960 8,864	20,060 20,088 20,162 20,244 20,295 20,295 20,219 20,362 20,645 20,645 20,645 20,565	726 729 742 749 751 779 800 802 813 808 798 753	4,977 4,976 4,990 5,030 5,060 5,087 5,100 5,013 5,021 5,020 5,012	189 193 152 77 72 66 54 44 51 61 63 107	63 57 55 60 52 40 32 39 49 49 52 39	3,136 3,138 3,055 2,943 2,882 2,833 2,871 2,902 2,808 2,733 2,717 2,764	1,104 1,105 1,026 938 893 869 909 934 885 836 836 834 834	7.3 7.3 7.1 6.8 6.6 6.5 6.5 6.5 6.5 6.5 6.3 6.3 6.3	425 456 476 485 502 515 518 517 515 498
2015 Jan Feb Mar Apr June July Aug Sep Oct Nov Dec	42,443 42,464 42,630 43,002 43,134 43,177 43,232 43,408 43,492 43,526 43,353	+ 0.7 + 0.7 + 0.8 + 0.8 + 0.9 + 0.9 + 1.0 + 1.0 + 1.0 + 1.2 + 1.3	30,276 30,342 30,528 30,645 30,718 30,771 30,744 30,986 31,330 31,365 31,384 31,145	+ 1.8 + 1.9 + 2.0 + 1.9 + 2.0 + 2.0 + 2.1 + 2.2 + 2.2 + 2.2 + 2.2 + 2.4 + 2.5	8,815 8,819 8,865 8,901 8,915 8,934 8,993 9,076 9,067 9,059 8,963	20,498 20,546 20,651 20,723 20,776 20,788 20,724 20,899 21,150 21,203 21,243 21,243 21,163	747 756 777 784 819 840 846 850 846 850 846 842 798	4,846 4,821 4,829 4,850 4,875 4,902 4,902 4,908 4,841 4,810 4,813 4,845 4,843	169 183 154 67 57 59 49 40 51 61 66 105	50 52 50 54 45 35 26 39 47 52 39	3,032 3,017 2,932 2,762 2,711 2,773 2,796 2,708 2,649 2,633 2,681	1,043 1,034 955 868 815 782 830 851 799 764 764 798	7.0 6.9 6.5 6.3 6.2 6.3 6.4 6.2 6.0 6.0 6.0	485 519 542 557 577 572 589 597 600 612 610 591
Feb Mar Apr June July Aug Sep	r 42,978 r 43,021 r 43,180 r 43,327 r 43,515 r 43,615 r 43,578 r 43,578 r 43,578 r 43,578 r 43,578 r 43,818 10 43,823 	$\begin{array}{rrrrr} & + \ 1.3 \\ r & + \ 1.3 \\ r & + \ 1.2 \\ r & + \ 1.2 \\ r & + \ 1.2 \\ r & + \ 0.9 \\ r & + \ 0.8 \\ r & + \ 0.8 \\ r & + \ 0.7 \\ 10 & + \ 0.7 \end{array}$	9 31,472 9 31,757 9 31,728	+ 2.3 + 2.3 + 2.2 + 2.1 + 2.2 + 2.0 9 + 1.6 9 + 1.6 9 + 1.4	8,904 8,921 8,951 8,980 8,997 9 8,973 9 9,024 9 9,090 9 9,068 	21,060 21,116 21,205 21,267 21,324 21,289 9 21,341 9 21,552 9 21,551 	9 863 9 866	4,775 4,771 4,783 4,808 4,839 4,869 9 4,859 9 4,795 9 4,763 9 4,766 	···· ··· ···	48 50 52 55 42 9 31 9 31 9 31 9 35 	2,920 2,911 2,845 2,744 2,664 2,664 2,664 2,664 2,688 2,540 2,532 2,568	961 947 888 817 774 754 805 830 787 756 756 756 756	5.9 6.0 6.1 5.9 5.8 5.7	581 614 635 640 655 665 674 685 687 691 681 658

Sources: Federal Statistical Office; Federal Employment Agency. * Annual and quarterly figures: averages; calculated by the Bundesbank; deviations from the official figures are due to rounding. **1** Workplace concept; averages. **2** Monthly figures: end of month. **3** From January 2012, excluding all persons taking up federal voluntary service or a year of social or ecological work. **4** Number within a given month. **5** Mid-month level. **6** Relative to the total civilian labour force. **7** Excluding government-assisted forms of employment and seasonal jobs, including jobs located

abroad. **8** From May 2016 calculated on the basis of new labour force figures. **9** Unadjusted figures estimated by the Federal Employment Agency. In 2014 and 2015, the estimated values for Germany deviated from the final data by a maximum of 0.3 % for employees subject to social contributions, by a maximum of 1.4 % for persons solely in jobs exempt from social contributions, and by a maximum of 31.2 % for cyclically induced short-time work. **10** Initial preliminary estimate by the Federal Statistical Office.

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XI Economic conditions in Germany

7 Prices

	Consumer pric	e index								Indices of		HWWI Index of Wo	rld Markat
		of which								foreign trade	e prices	Prices of Raw	
	Total	Food	Other durable and non- durable consumer goods excluding energy 1	Energy 1	Services excluding house rents 2	House rents 2	Con- struction price index	Index of producer prices of industrial products sold on the domestic market 3	Index of producer prices of agricultural products 3	Exports	Imports	Energy 5	Other raw materials 6
Deried												2015 = 100	
Period	2010 = 100	el										2015 = 100	
2012 2013 2014 2015 2016	7 104.1 105.7 106.6 106.9 107.4	110.4 111.5 112.4	103.0 103.9 105.1	118.0 115.5 107.4	102.4 103.8 105.5 106.9 108.3	102.5 103.8 105.4 106.7 108.0	105.7 107.9 109.7 111.3 113.4	107.0 106.9 105.8 103.9 	119.4 120.7 111.1 8 107.0 	104.9 104.3 104.0 104.9 	105.9	166.8 160.2 142.8 100.0 83.2	117.6 108.3
2015 Feb Mar Apr May June July Aug	106.5 107.0 107.1 107.1 107.1 107.2 107.2	112.2 113.2 113.2 113.2 112.6 111.8	105.1 105.3 105.1 104.9 104.4	109.3 109.8 110.9 110.4 109.8	106.9 106.8 106.0 106.2 106.3 107.8 108.1	106.2 106.3 106.5 106.5 106.6 106.7 106.8	110.8 111.1 111.5	104.3 104.4 104.5 104.5 104.4 104.4 103.9	104.8 105.1 106.0 104.8 105.3 104.5 102.1	104.7 105.3 105.6 105.4 105.3 105.4 105.4	101.6 102.6 103.2 103.0 102.5 101.8 100.3	108.0 109.0 115.5 116.8 113.3 106.0 91.5	105.9 107.1 105.6 104.7 103.4 101.6 96.0
Sep Oct Nov Dec 2016 Jan Feb	107.0 107.0 107.1 107.1 107.0 106.1 106.5	112.1 112.7 112.9 112.4 112.4	105.9 106.1 106.0 105.6 105.0	105.7 104.9 105.0 102.0 99.5	107.0 106.9 107.1 108.4 106.8 107.7	106.9 107.0 107.1 107.1 107.3 107.4	111.8	103.5 103.1 102.9 102.4 101.7 101.2	8 107.4 108.9 107.6 107.3 106.8 106.0	104.6 104.4 104.5 104.1 103.9 103.4		90.8 91.6 89.6 77.5 64.5	94.1 93.4
Mar Apr May June July Aug	107.3 106.9 107.2 107.3 107.6 107.6	113.7 113.8 113.2 112.7 112.7	106.1 106.8 106.7 106.1 105.6	99.6 100.5 102.1 103.3 102.1	108.8 106.6 107.5 108.0 109.5 109.6	107.5 107.6 107.7 107.8 107.9 108.1	113.1	101.2 101.3 101.7 102.1 102.3 102.2	106.6 105.9 106.0 106.4 110.0 106.7	103.6 103.5 103.7 103.9 104.1 104.0		72.3	93.6 95.5 97.2 98.9 100.2 98.6
Sep Oct Nov Dec	107.7 107.9 108.0 108.8	112.6 112.7 114.2 115.2	107.0 107.4 107.5 107.0	101.9 103.4 102.2	108.5 108.2 108.1	108.3 108.5 108.6	114.1	102.0 102.7 103.0 	104.7 108.8 111.2	104.0 104.3 104.8 	97.8 98.7 99.4	83.9 96.2	97.0 99.8 108.5
	Annual p	ercentage	change										
2012 2013 2014 2015 2016	7 + 2.0 + 1.5 + 0.9 + 0.3 + 0.5	+ 4.4 + 1.0 + 0.8	+ 1.0 + 0.9 + 1.2	+ 1.4 - 2.1 - 7.0	+ 1.4 + 1.4 + 1.6 + 1.3 + 1.3	+ 1.2 + 1.3 + 1.5 + 1.2 + 1.2	+ 2.7 + 2.1 + 1.7 + 1.5 + 1.9	+ 1.6 - 0.1 - 1.0 - 1.8 	+ 5.3 + 1.1 - 8.0 8 - 3.7 	+ 1.5 - 0.6 - 0.3 + 0.9 	- 2.6 - 2.2	- 10.9	- 8.6
2015 Feb Mar Apr May	+ 0.1 + 0.3 + 0.5 + 0.7	+ 1.1	+ 0.9 + 1.1	- 5.7 - 5.9	+ 1.7 + 1.3 + 1.2 + 1.8	+ 1.3 + 1.3 + 1.3 + 1.2	+ 1.5	- 2.1 - 1.7 - 1.5 - 1.3	- 12.2 - 12.7 - 12.5 - 11.8	+ 0.7 + 1.4 + 1.6 + 1.4	- 0.6		- 4.6 - 2.9 - 6.4 - 5.8
June July Aug Sep Oct	+ 0.7 + 0.3 + 0.2 + 0.2 ± 0.0 + 0.3	+ 1.0 + 0.4 + 0.8 + 1.1	+ 1.4 + 1.2 + 1.4 + 1.3	- 5.9 - 6.2 - 7.6 - 9.3	+ 1.0 + 0.9 + 1.0 + 1.1 + 1.1 + 1.4	+ 1.2 + 1.2 + 1.2 + 1.1 + 1.2 + 1.1 + 1.2		- 1.3 - 1.4 - 1.3 - 1.7 - 2.1 - 2.3	- 10.5 - 8.3 - 8.4	+ 1.4 + 1.3 + 1.2 + 0.8 + 0.3 + 0.2	- 1.4 - 1.7 - 3.1 - 4.0	- 25.0 - 26.5 - 35.5	- 5.0 - 4.6 - 5.1 - 10.4 - 10.4 - 11.6
Nov Dec 2016 Jan Feb Mar	+ 0.3 + 0.4 + 0.3 + 0.5 ± 0.0 + 0.3	+ 2.3 + 1.4 + 0.9 + 0.8	+ 1.2 + 1.1 + 1.4 + 1.4	- 7.5 - 6.5 - 5.8 - 8.5	+ 1.4 + 1.3 + 1.3 + 1.4 + 0.7 + 1.9	$\begin{array}{c} + & 1.1 \\ + & 1.1 \\ + & 1.0 \\ + & 1.1 \\ + & 1.1 \\ + & 1.1 \end{array}$	+ 1.5 + 1.5	- 2.3 - 2.5 - 2.3 - 2.4 - 3.0 - 3.1	+ 3.0 + 3.9 + 4.5 + 4.3 + 1.1 + 1.4	+ 0.2 + 0.3 + 0.2 - 0.5 - 1.2 - 1.6	- 3.5 - 3.1 - 3.8 - 5.7	- 29.3 - 28.4 - 30.0 - 40.7	- 11.0 - 13.1 - 14.8 - 17.4 - 16.3 - 12.6
Apr May June July	$ \begin{array}{c} - 0.1 \\ + 0.1 \\ + 0.3 \\ + 0.4 \\ + 0.4 \end{array} $	+ 0.5 ± 0.0 + 0.1 + 1.1	+ 1.4 + 1.5 + 1.1 + 1.1	- 8.5 - 7.9 - 6.4 - 7.0	+ 0.6 + 1.2 + 1.6 + 1.6	+ 1.0 + 1.1 + 1.1 + 1.1	+ 1.8	- 3.1 - 2.7 - 2.2 - 2.0 - 1.6	- 0.1 + 1.1 + 1.0 + 5.3	- 2.0 - 1.6 - 1.3 - 1.2 - 0.9	- 6.6 - 5.5 - 4.6 - 3.8	- 35.0 - 29.3 - 22.4 - 20.4	- 9.6 - 7.2 - 4.4 - 1.4
Aug Sep Oct Nov Dec	$ \begin{array}{c} + 0.4 \\ + 0.7 \\ + 0.8 \\ + 0.8 \\ + 1.7 \\ \end{array} $	+ 0.4 ± 0.0 + 1.2	+ 1.0 + 1.2 + 1.4 + 1.3	- 3.6 - 1.4 - 2.7	+ 1.4 + 1.2 + 0.9	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	+ 2.1	- 1.6 - 1.4 - 0.4 + 0.1	- 2.5 - 0.1 + 3.3	- 0.6 - 0.1 + 0.3	- 1.8 - 0.6 + 0.3	- 7.6 + 5.0 + 6.5	+ 3.1 + 6.9 + 17.0

Source: Federal Statistical Office and Bundesbank calculation based on data provided by the Federal Statistical Office; for the Index of World Market Prices of Raw Materials: HWWI. 1 Electricity, gas and other fuels. 2 Net rents. 3 Excluding value-added tax. 4 For the euro area, in euro. 5 Coal, crude oil (Brent) and natural

gas. 6 Food, beverages and tobacco as well as industrial raw materials. 7 From January 2012, increase in tobacco tax. 8 From September 2015 onwards, provisional figures.

8 Households' income *

	Gross wages salaries 1	and	Net wages a salaries 2	nd	Monetary so benefits rece		Mass income	4	Disposable in	come 5	Saving 6		Saving ratio 7
Period	€ billion	Annual percent- age change	€ billion	Annual percent- age change	€ billion	Annual percent- age change	€ billion	Annual percent- age change	€ billion	Annual percent- age change	€ billion	Annual percent- age change	As percent- age
2008	1,008.1	4.0	670.8	3.4	356.2	0.4	1,027.0	2.3	1,582.6	2.6	165.9	4.9	10.5
2008	1,008.1	0.1	672.6	0.3	380.7	6.9	1,027.0	2.5	1,569.2	- 0.8	1	- 5.9	10.0
2009	1,009.5	0.1	072.0	0.5	560.7	0.9	1,055.5	2.0	1,509.2	- 0.6	150.2	- 5.9	10.0
2010	1,039.0	2.9	702.2	4.4	385.3	1.2	1,087.5	3.2	1,606.4	2.4	160.1	2.5	10.0
2011	1,088.6	4.8	729.4	3.9	380.4	- 1.3	1,109.8	2.0	1,653.7	2.9	158.2	- 1.2	9.6
2012	1,133.0	4.1	756.8	3.8	387.6	1.9	1,144.5	3.1	1,695.6	2.5	157.6	- 0.4	9.3
2013	1,167.5	3.0	778.4	2.9	389.1	0.4	1,167.5	2.0	1,719.8	1.4	154.1	- 2.2	9.0
2014	1,213.0	3.9	807.1	3.7	400.2	2.8	1,207.3	3.4	1,759.5	2.3	165.1	7.1	9.4
2015	1,260.6	3.9	836.6	3.6	415.5	3.8	1,252.0	3.7	1,811.2	2.9	175.2	6.1	9.7
2015 Q2	308.5	4.1	200.1	3.5	102.4	4.5	302.5	3.8	449.5	2.8	41.9	6.1	9.3
Q3	311.3	4.0	211.1	3.8	103.9	3.6	315.0	3.7	454.8	3.0	37.1	6.0	8.2
Q4	348.7	4.2	231.6	4.5	103.5	3.1	335.1	4.0	459.3	3.0	38.4	5.7	8.4
2016 Q1	305.3	4.5	202.2	4.4	107.7	1.8	309.9	3.5	459.0	2.6		2.8	13.0
Q2	319.4	3.5	207.4	3.6	105.3	2.8	312.7	3.4	463.7	3.2		4.3	9.4
Q3	322.2	3.5	217.6	3.1	108.2	4.2	325.8	3.4	464.1	2.0	37.7	1.5	8.1

Source: Federal Statistical Office; figures computed in November 2016. * Households including non-profit institutions serving households. **1** Residence concept. **2** After deducting the wage tax payable on gross wages and salaries and employees' contributions to the social security funds. **3** Social security benefits in cash from the social security funds, central, state and local government and foreign countries, pension payments (net), private funded social benefits, less social contributions on social benefits, consumption-related taxes and public charges. **4** Net wages and

salaries plus monetary social benefits received. **5** Mass income plus operating surplus, mixed income, property income (net), other current transfers received, income of non-profit institutions serving households, less taxes (excluding wage tax and consumption-related taxes) and other current transfers paid. Including the increase in claims on company pension funds. **6** Including the increase in claims on company pension funds. **7** Saving as a percentage of disposable income.

9 Negotiated pay rates (overall economy)

	Index of negotiat	ted wages ¹								
			On a monthly ba	sis					1	
	On an hourly bas	iis	Total		Total excluding one-off payment	S	Basic pay rates 2		<i>Memo item:</i> Wages and salari per employee 3	,es
Period	2010=100	Annual percentage change	2010=100	Annual percentage change	2010=100	Annual percentage change	2010=100	Annual percentage change	2010=100	Annual percentage change
2008 2009	96.4 98.4	2.8 2.0	96.3 98.3	2.9 2.0	96.1 98.3	3.1 2.3	95.9 98.2	3.3 2.4	97.6 97.6	
2010 2011 2012	100.0 101.8 104.5	1.7 1.8 2.7	100.0 101.8 104.5	1.8 1.8 2.7	100.0 101.8 104.8	1.7 1.8 2.9	100.0 101.8 104.7	1.8 1.8 2.9	100.0 103.4 106.2	2.5 3.4 2.7
2012 2013 2014	104.5 107.1 110.2	2.4 2.9	104.5 107.1 110.0	2.7 2.4 2.8	104.8 107.4 110.2	2.9 2.5 2.7	104.7 107.3 110.2	2.9 2.5 2.7	108.2 108.4 111.4	2.0
2015	112.7	2.3	112.5	2.2	112.7	2.3	112.8	2.4	114.4	2.7
2015 Q2 Q3 Q4	105.6 115.0 125.9	2.3 2.3 2.3	105.4 114.7 125.6	2.2 2.3 2.3	105.7 115.1 126.0	2.3 2.2 2.3	112.6 113.4 113.6	2.3 2.4 2.4	112.2 112.6 125.1	
2016 Q1 Q2 Q3	106.4 108.0 117.5	2.0 2.2 2.1	106.2 107.7 117.2	1.9 2.2 2.1	106.5 107.8 117.6	2.3 1.9 2.2	114.1 115.0 115.9	2.3 2.1 2.2	110.5 114.6 115.3	2.1
2016 May June	108.0 108.2	1.9 2.7	107.8 108.0	1.9 2.7	108.0 107.6	1.8 2.1	115.1 115.3	2.3 2.1		
July Aug Sep	136.1 108.1 108.2	2.1 2.2 2.1	135.8 107.9 108.0	2.1 2.2 2.1	136.2 108.2 108.3	2.2 2.2 2.2	115.8 115.9 116.1	2.2 2.1 2.2		
Oct Nov	108.7 166.6	2.1 2.1	108.5 166.2	2.1 2.1	108.9 166.7	2.2 2.1	116.2 116.2	2.3 2.3		

1 Current data are normally revised on account of additional reports. 2 Excluding one-off payments and covenants (capital formation benefits, special payments, such as annual bonuses, holiday pay, Christmas bonuses (13^{th} monthly salary payment)

and retirement provisions). ${\bf 3}$ Source: Federal Statistical Office; figures computed in November 2016.

10 Assets, equity and liabilities of listed non-financial groups *

End-of-year/end-of-halfyear data

	End-of-yea		alfyear data													
		Assets								Equity and						
			of which				of which				Liabilities					
												Long-term		Short-term	1	
															of which	
Period	Total assets	Non- current assets	Intangible assets	Tangible assets	Financial assets	Current assets	Inven- tories	Trade receiv- ables	Cash 1	Equity	Total	Total	<i>of which</i> Financial debt	Total	Financial debt	Trade payables
i chida		E billion)	ussets	ussets	ussets	ussets	torites	abies	cusii	Equity	Total	Total	debt	rotai	dest	pajables
2012	1,867.3		378.3	476.3	232.1	713.6	188.4	174.8	123.2	553.9	1,313.4	699.1	374.2	614.4	178.6	157.0
2013	1,902.2	1,171.1	385.0	485.2	232.4	731.1	187.5	175.8	136.5	569.6	1,332.6	706.0	377.5	626.6	191.0	163.1
2014 2015	2,078.8 2,226.6	1,284.1 1,394.6	431.0 470.7	520.3 565.2	249.6 273.1	794.7 832.0	203.1 215.6	187.3 190.6	132.4 136.2	582.9 633.8	1,495.9 1,592.8	812.0 860.8	426.8 465.4	683.9 732.0	214.8 233.1	175.8 180.3
2014 H2	2,078.8	1,284.1	431.0	520.3	249.6	794.7	203.1	187.3	132.4	582.9	1,495.9	812.0	426.8	683.9	214.8	175.8
2015 H1 H2	2,163.8 2,226.6	1,346.9 1,394.6	453.6 470.7	539.8 565.2	270.0 273.1	816.8 832.0	217.9 215.6	197.4 190.6	127.0 136.2	622.4 633.8	1,541.4 1,592.8	830.0 860.8	440.6 465.4	711.4 732.0	223.0 233.1	173.2 180.3
2016 H1	2,220.0	· · ·	462.4	549.8		875.6	215.0	190.0	140.5	607.4		895.4		753.8		173.7
		centage												-		
2012	100.0	61.8	20.3	25.5	12.4	38.2	10.1	9.4	6.6	29.7	70.3	37.4		32.9	9.6	8.4
2013 2014	100.0 100.0	61.6 61.8	20.2 20.7	25.5 25.0	12.2 12.0	38.4 38.2	9.9 9.8	9.2 9.0	7.2 6.4	29.9 28.0	70.1 72.0	37.1 39.1	19.8 20.5	32.9 32.9	10.0 10.3	8.6 8.5
2015	100.0	62.6	21.1	25.4	12.3	37.4	9.7	8.6	6.1	28.5	71.5	38.7	20.9	32.9	10.5	8.1
2014 H2	100.0	61.8	20.7	25.0	12.0	38.2	9.8	9.0	6.4	28.0	72.0	39.1	20.5	32.9	10.3	8.5
2015 H1 H2	100.0 100.0	62.3 62.6	21.0 21.1	25.0 25.4	12.5 12.3	37.8 37.4	10.1 9.7	9.1 8.6	5.9 6.1	28.8 28.5	71.2 71.5	38.4 38.7	20.4 20.9	32.9 32.9	10.3 10.5	8.0 8.1
2016 H1	100.0	61.2	20.5	24.4	12.1	38.8	10.1	8.6	6.2	26.9	73.1	39.7	20.6	33.4	10.8	7.7
	Groups	with a f	focus on	the pro	duction	sector (€	billion)	2								
2012	1,503.5	896.3	256.8	374.0	213.6	607.3	171.0	136.2	95.4	436.2	1,067.4	561.8	280.8	505.5	159.7	112.9
2013 2014	1,523.6 1,655.6	908.2 989.4	257.2 276.5	384.6 411.9	215.6 236.0	615.4 666.2	171.2 185.7	136.1 140.3	104.1 98.9	450.9 451.4	1,072.6 1,204.2	560.4 644.0	280.5 318.6	512.2 560.2	170.2 193.3	114.9 122.4
2015	1,782.1	1,077.3	304.0	446.9	259.0	704.8	198.9	147.1	104.5	485.5	1,296.6	689.8	353.1	606.8	208.7	127.6
2014 H2	1,655.6	989.4	276.5	411.9	236.0	666.2	185.7	140.3	98.9	451.4	1,204.2	644.0	318.6	560.2	193.3	122.4
2015 H1 H2	1,743.3 1,782.1	1,047.8 1,077.3	293.3 304.0	432.1 446.9	257.1 259.0	695.4 704.8	201.0 198.9	151.7 147.1	103.6 104.5	487.1 485.5	1,256.2 1,296.6	670.0 689.8	336.1 353.1	586.2 606.8	194.9 208.7	127.3 127.6
2016 H1	1,818.4	1,059.3	296.6	432.5	254.2	759.1	210.1	149.1	112.3	466.0	1,352.3	717.9	351.0	634.4	219.2	128.8
	as a per	centage	of total a	ssets												
2012 2013	100.0 100.0	59.6 59.6	17.1 16.9	24.9 25.2	14.2 14.2	40.4 40.4	11.4 11.2	9.1 8.9	6.4 6.8	29.0 29.6	71.0 70.4	37.4 36.8	18.7 18.4	33.6 33.6	10.6 11.2	7.5 7.5
2014	100.0	59.8	16.7	24.9	14.3	40.2	11.2	8.5	6.0	27.3	72.7	38.9	19.2	33.8	11.7	7.4
2015 2014 H2	100.0 100.0	60.5 59.8	17.1 16.7	25.1 24.9	14.5 14.3	39.6 40.2	11.2 11.2	8.3 8.5	5.9 6.0	27.2 27.3	72.8 72.7	38.7 38.9	19.8 19.2	34.1 33.8	11.7 11.7	7.2 7.4
2014 H2 2015 H1	100.0	60.1	16.8	24.9	14.3	39.9	11.2	8.7	5.9	27.3	72.1	38.4	19.2	33.6	11.2	7.4
H2	100.0	60.5	17.1	25.1	14.5	39.6	11.2	8.3	5.9	27.2	72.8	38.7	19.8	34.1	11.7	7.2
2016 H1	100.0	58.3	16.3 •		. 14.0	41.8	11.6	8.2	6.2	25.6	74.4	39.5	19.3	34.9	12.1	7.1
	Groups	with a	rocus on	the serv	lices sec	tor (€ DII	lion)									
2012 2013	363.7 378.6	257.4 262.9	121.5 127.8	102.4 100.6	18.4 16.8	106.3 115.7	17.4 16.3	38.6 39.7	27.8 32.3	117.7 118.6	246.0 260.0	137.2 145.6	93.4 97.0	108.8 114.4	18.9 20.8	44.1 48.2
2014 2015	423.2 444.5	294.7 317.3	154.6 166.7	108.4 118.3	13.6 14.1	128.6 127.2	17.4 16.7	47.0 43.5	33.5 31.6	131.5 148.3	291.7 296.2	168.0 171.0	108.3 112.2	123.7 125.2	21.6 24.4	53.4 52.7
2013 2014 H2	444.5	294.7	154.6	108.4	14.1	127.2	17.4	43.5	33.5	146.5	290.2	168.0	108.3	123.2	24.4	53.4
2015 H1	420.5	299.1	160.3	107.7	12.9	121.4	17.0	45.7	23.4	135.3	285.2	160.0	104.4	125.2	28.0	45.9
H2	444.5	317.3	166.7	118.3	14.1	127.2	16.7	43.5	31.6	148.3	296.2	171.0	112.2	125.2	24.4	52.7
2016 H1	438.3	321.7	165.8		17.8	116.6	16.6	45.3	28.2	141.4	296.9	177.4	113.6	119.4	24.7	45.0
2012	as a per 100.0	centage 70.8			5.1	29.2	4.8	10.6	7.6	32.4	67.6	37.7	25.7	29.9	5.2	12.1
2013	100.0	69.5	33.8	26.6	4.5	30.6	4.3	10.5	8.5	31.3	68.7	38.5	25.6	30.2	5.5	12.7
2014 2015	100.0 100.0	69.6 71.4	36.5 37.5	25.6 26.6	3.2 3.2	30.4 28.6	4.1 3.8	11.1 9.8	7.9 7.1	31.1 33.4	68.9 66.6	39.7 38.5	25.6 25.3	29.2 28.2	5.1 5.5	12.6 11.9
2014 H2	100.0	69.6	36.5	25.6	3.2	30.4	4.1	11.1	7.9	31.1	68.9	39.7	25.6	29.2	5.1	12.6
2015 H1	100.0	71.1	38.1	25.6	3.1	28.9	4.0	10.9	5.6	32.2	67.8	38.1	24.8	29.8	6.7	10.9
H2 2016 H1	100.0 100.0	71.4 73.4	37.5 37.8	26.6 26.8	3.2 4.1	28.6 26.6	3.8 3.8	9.8 10.3	7.1 6.4	33.4 32.3	66.6 67.7	38.5 40.5	25.3 25.9	28.2 27.3	5.5 5.6	11.9 10.3
_0.0.01		. , , , , , , , , , , , , , , , , , , ,	. 57.0			20.01	5.01	10.5	. 0.41	. 52.51		-0.5		. 27.5	. 5.0	

* Non-financial groups admitted to the Prime Standard segment of the Frankfurt Stock Exchange which publish IFRS consolidated financial statements on a quarterly or half-yearly basis and make a noteworthy contribution to value added in Germany.

Excluding groups engaged in real estate activities. 1 Including cash equivalents. 2 Including groups in agriculture and forestry.

11 Revenues and operating income of listed non-financial groups *

								iation and a				Operating	income (EE	BIT) as a per	centage of	revenues
			Operating	income		,	Distributio	5						Distributio		
			before dep and amort		Weighted		First		Third	Operating		Weighted		First		Third
	Revenues		(EBITDA 1)	average		quartile	Median	quartile	income (Ĕl	BIT)	average		quartile	Median	quartile
Period	€ billion	Annual change in % 3	€ billion	Annual change in % 3	%	Annual change in per- centage points 3	%	%	%	€ billion	Annual change in % 3	%	Annual change in per- centage points 3	%	%	%
	Total															
2008 2009	1,290.4 1,158.6	6.3 - 10.7	161.9 135.6	– 5.9 – 16.9	12.6 11.7	– 1.6 – 0.9	5.7 3.9	11.6 9.4	17.4 15.7	79.4 55.9	– 16.7 – 29.2	6.2 4.8	– 1.7 – 1.3	2.4	6.6 4.9	12.1 9.3
2010 2011 2012 2013 2014	1,321.0 1,414.4 1,533.0 1,541.1 1,565.6	13.3 8.5 6.6 – 0.6 1.0	181.4 175.9 189.3 187.1 198.7	30.6 0.5 3.1 - 2.8 4.9	13.7 12.4 12.4 12.1 12.7	1.8 - 1.0 - 0.4 - 0.3 0.5	6.6 5.4 5.2 5.1 5.7	11.4 10.9 10.2 10.3 10.3	18.5 17.4 17.5 18.3 17.2	98.3 93.9 95.7 99.5 109.3	66.6 - 4.1 - 7.7 5.5 8.5	7.4 6.6 6.2 6.5 7.0	2.4 - 0.9 - 0.9 0.4 0.5	3.2 2.7 1.9 1.9 1.9	6.8 6.6 6.0 5.8 6.1	12.0 11.0
2015 2011 H2	1,636.2 730.1	6.9 6.9	196.3 88.3	- 1.0	12.0 12.1	- 1.0 - 1.3	6.1 5.5	10.6 11.4	17.6 18.0	91.6 40.9	– 15.9 – 15.4	5.6 5.6	- 1.5 - 1.5	1.7 2.6	6.5 7.1	11.3 11.8
2012 H1	751.0	8.1	93.3	3.6	12.4	- 0.5	4.7	9.1	16.8	55.7	1.6	7.4	- 0.5	1.0	5.7	11.4
H2 2013 H1	782.2 762.8	5.2	95.9 93.4	2.6	12.3 12.2	- 0.3 - 0.4	4.7	11.0 9.3	17.9 16.5	39.9 53.8	– 19.2 – 7.6	5.1 7.1	- 1.4	1.4 0.6	6.8 4.9	11.7 10.7
H2 2014 H1	780.0 757.2	- 1.1	93.8 97.2	- 2.0	12.0 12.8	- 0.1	5.4 4.7	10.7 9.5	19.2 16.0	45.7 57.8	25.5 9.4	5.9 7.6	1.3 0.7	1.7 1.0	6.1 5.2	12.1 10.5
H2 2015 H1	808.7 815.7	2.9 8.7	101.5 102.9	5.2 5.8	12.6 12.6	0.3	5.4 4.8	10.8 10.1	19.1 17.6	51.5 59.1	7.6 2.1	6.4 7.3	0.3	1.7	7.1 5.9	
H2 2016 H1	831.7 782.3	5.1 - 2.1	93.6 111.8	- 7.6 6.2	11.3 14.3	– 1.5 1.1	6.3 5.9	11.5 10.4	18.1 17.4	32.7 65.7	- 36.5 2.1	3.9 8.4	– 2.5 0.3	2.3 1.5	7.1 6.4	11.7 11.3
	Groups	with a	focus on	the pro	duction	sector 4										
2008 2009	949.2 837.7	7.2	120.0 94.9	- 6.4 - 20.6	12.7 11.3	– 1.8 – 1.3	5.7 2.5	11.4 9.0	15.6 14.0	60.5 40.0	- 17.2 - 32.6	6.4 4.8	– 1.9 – 1.5	2.3	6.8 4.3	11.6 8.8
2010 2011	980.7 1,079.0	15.8 10.6	136.2 130.0	38.7 – 1.7	13.9 12.1	2.3 – 1.5	6.6 5.5	11.4 11.3	16.3 16.4	75.7 74.1	72.4 - 4.9	7.7 6.9	2.6 – 1.1	3.0 2.1	7.3 6.8	12.0 11.5
2012 2013 2014	1,173.8 1,179.0 1,197.3	7.7 - 0.8 1.0	140.8 138.7 147.9	5.3 - 2.6 5.8	12.0 11.8 12.4	- 0.3 - 0.2 0.6	5.4 4.4 5.1	10.2 10.3 9.6	16.1 15.5 15.3	81.7 74.5 82.0	2.2 - 5.8 9.3	7.0 6.3 6.9	- 0.4 - 0.3 0.5	1.8 1.3 1.4	6.1 5.7 5.9	9.8 10.0 10.2
2014	1,137.3	7.0	147.3	- 2.7	11.2	- 1.1	6.1	10.4	15.5	65.2	- 19.7	5.1	- 1.7	1.4	6.5	10.2
2011 H2	552.5	8.7	60.8	- 9.1	11.0	- 2.2	4.8	10.6	15.6	29.3	- 20.2	5.3	- 2.0	1.6	6.6	10.9
2012 H1 H2	580.1 593.9	9.5 6.1	73.3 67.5	5.2 5.3	12.6 11.4	- 0.5 - 0.1	5.7 4.4	10.5 10.5	14.9 15.9	46.8 34.9	3.5 0.2	8.1 5.9	- 0.5 - 0.3	1.9 0.6	6.1 6.2	10.5 10.2
2013 H1 H2	588.8 591.7	- 0.1 - 1.4	71.7 67.1	- 4.8 - 0.3	12.2 11.3	- 0.6 0.1	3.1 4.0	9.3 10.4	15.0 15.8	43.1 31.4	– 10.9 1.7	7.3 5.3	- 0.9 0.2	0.6 0.6	5.3 5.8	9.7 10.9
2014 H1 H2	584.4 613.1	– 1.1 3.0	74.2 73.7	3.8 7.8	12.7 12.0	0.6 0.5	4.7 4.4	9.6 9.8	15.0 15.8	46.2 35.8	8.9 9.8	7.9 5.8	0.7 0.4	1.4 0.7	5.4 6.3	9.6 10.7
2015 H1 H2	636.8 647.1	8.8 5.2	80.1 63.9	7.9 – 13.4	12.6 9.9	- 0.1 - 2.1	5.1 5.3	10.0 10.9	15.4 15.5	48.8 16.4	5.7 - 52.3	7.7 2.5	- 0.2 - 3.2	2.1 1.7	6.1 6.8	
2016 H1	610.8	– 2.9	83.9	1.2	13.7	0.5	6.6	10.3	15.3	50.6	- 7.4	8.3	- 0.4	1.7	6.4	9.9
2008	341.1	3 with a	41.9	the serv	12.3	LOF - 1.0	5.8	12.4	19.2	19.0	– 14.6	5.6	- 1.2	2.6	6.6	12.7
2009	321.0	- 7.4	40.7	- 4.9	12.7	0.3	4.7	10.7	20.3	16.0	– 16.3	5.0	- 0.5	1.7	5.7	12.7
2010 2011 2012	340.4 335.5 359.2	5.8 1.7 2.8	45.1 45.9 48.5	8.9 7.6 – 3.4	13.3 13.7 13.5	0.4 0.8 - 0.9	5.6 5.4 5.1	10.8 10.1 10.0	19.6 20.7 22.7	22.6 19.7 14.0	46.8 - 0.7 - 47.2	6.7 5.9 3.9	1.7	3.3 3.2 2.1	5.9 6.1 5.7	12.4 13.8 14.0
2012 2013 2014	362.2	- 0.1	48.5	- 3.4	13.4	- 0.9	5.1	9.9	22.7 21.1 22.6	25.0 27.3	84.4 5.7	6.9 7.4	- 3.0 3.0 0.3	2.1 2.5 2.9	5.9	12.2
2015	352.9	6.4	52.3	4.8	14.8	- 0.2	6.1	11.4	22.0	26.4	- 1.6	7.5	- 0.6	1.4	6.7	14.1
2011 H2	177.6	1.0	27.5	13.4	15.5	1.7	7.1	12.2	22.4	11.6	0.7	6.6	- 0.0	4.3	7.5	
2012 H1 H2	170.9 188.3	3.3 2.3	20.0 28.5	- 2.6 - 4.0	11.7 15.1	- 0.7 - 1.0	2.6 5.2	8.0 11.2	21.0 23.7	8.9 5.1	– 9.8 – 73.2	5.2 2.7	- 0.7 - 5.2	- 0.4 2.7	4.5 7.4	13.9 15.3
2013 H1 H2	174.0 188.3	- 0.5 0.3	21.7 26.7	1.4 - 6.7	12.5 14.2	0.2 - 1.1	3.9 5.6	8.0 11.3	19.2 21.8	10.7 14.3	12.8 241.4	6.2 7.6	0.7 5.2	0.9 2.2	4.6 7.3	12.8 13.4
2014 H1 H2	172.9 195.6	- 0.5 2.4	23.0 27.8	7.6 - 2.2	13.3 14.2	1.0 - 0.7	4.8 6.4	9.3 13.5	20.4 23.8	11.6 15.7	11.6 1.4	6.7 8.1	0.7 - 0.1	1.0 3.6	5.1 8.1	13.5 18.0
2015 H1 H2	178.9 184.7	8.4 4.6	22.8	- 2.2 10.8	12.7	- 1.5 0.9	4.4 7.3	10.9 12.2	21.5 23.5	10.3 16.3	– 15.7 9.3	5.8 8.8	- 1.6 0.4	- 0.5 2.5	4.5 7.7	14.2 15.0
2016 H1	171.5											8.8				

* Non-financial groups admitted to the Prime Standard segment of the Frankfurt Stock Exchange which publish IFRS consolidated financial statements on a quarterly or half-yearly basis and make a noteworthy contribution to value added in Germany. Excluding groups engaged in real estate activities. **1** Earnings before interest, taxes, depreciation and amortisation. **2** Quantile data are based on the groups' unweighted return on sales. **3** Adjusted for substantial changes in the basis of consolidation of large groups and in the reporting sample. See the explanatory notes in the Statistical Supplement Seasonally adjusted business statistics. **4** Including groups in agriculture and forestry.

1 Major items of the balance of payments of the euro area *

€ million

em A Current account	2013	2014	2015	Q1	Q2	Q3	6	1 Com	
A Current account			2015	Q1	Q2	Q3	Aug	Sep	Oct P
	+ 215,988	+ 241,245	+ 316,648	+ 59,516	+ 88,074	+ 93,722	+ 23,718	+ 33,951	+ 32,75
1 Goods									
Exports	1,913,552	1,963,183	2,109,809	501,736	535,549	519,824	164,962	182,198	176,9
Imports	1,703,376	1,721,836	1,759,171	421,307	428,493	426,700	139,333	148,280	149,9
Balance	+ 210,173	+ 241,345	+ 350,640	+ 80,430	+ 107,057	+ 93,124	+ 25,629	+ 33,918	+ 27,0
2 Services									
Receipts	646,905	710,777	768,725	178,241	193,502	206,083	67,582	70,765	65,5
Expenditure	576,355	633,319	710,057	168,623	177,908	180,796	60,949	60,610	57,3
Balance	+ 70,546	+ 77,458	+ 58,669	+ 9,618	+ 15,594	+ 25,287	+ 6,633	+ 10,155	+ 8,1
3 Primary income									
Receipts	610,254	626,709	631,890	137,968	154,203	142,799	45,426	49,750	45,8
Expenditure	530,432	562,506	590,743	124,054	167,043	135,334	41,912	48,785	37,0
Balance	+ 79,822	+ 64,203	+ 41,148	+ 13,914	- 12,840	+ 7,463	+ 3,513	+ 964	+ 8,7
4 Secondary income									
Receipts	86,685	91,481	103,531	22,498	27,601	23,314	7,204	8,028	7,1
Expenditure	231,239	233,243	237,338	66,943	49,337	55,467	19,262	19,114	18,3
Balance	- 144,555	- 141,764	- 133,807	- 44,445	- 21,737	- 32,152	- 12,058	- 11,086	- 11,2
B Capital account	+ 19,338	+ 13,053	- 12,404	- 1,319	+ 453	+ 768	- 27	+ 166	+ 1,3
C Financial account (Increase: +)	+ 423,350	+ 329,295	+ 296,925	+ 4,603	+ 62,255	+ 165,721	+ 51,851	+ 89,485	- 11,7
1 Direct investment	+ 27,130	+ 62,686	+ 243,367	+ 38,996	- 38,105	+ 125,234	+ 42,180	+ 51,183	+ 68,6
By resident units abroad	+ 512,758	+ 161,435	+ 820,319	+ 113,783	- 13,498	+ 37,470	+ 44,509	- 12,184	+ 95,3
By non-resident units in the euro area	+ 485,627	+ 98,749	+ 576,950	+ 74,787	+ 24,606	- 87,765	+ 2,329	- 63,367	+ 26,6
2 Portfolio investment	- 27,145	+ 68,959	+ 106,359	+ 93,546	+ 156,551	+ 167,820	+ 70,365	+ 38,633	- 3,4
By resident units abroad	+ 271,362	· ·	+ 404,150			+ 138,249	+ 54,188		- 12,7
Equity and									
Investment fund shares	+ 167,450	+ 141,720	+ 22,028			+ 19,978			+ 13,1
Long-term debt securities	+ 77,038		+ 369,804			+ 108,804		+ 6,522	+ 7,8
Short-term debt securities	+ 26,876	· ·			+ 7,672	+ 9,467			
By non-resident units in the euro area Equity and	+ 298,505	+ 391,735	+ 297,791		- 34,234	- 29,570	- 16,176	- 8,186	– 9,3
Investment fund shares	+ 203,379				+ 75,526			+ 20,399	
Long-term debt securities	+ 62,540							- 50,152	
Short-term debt securities	+ 32,585	- 17,984	- 48,554	+ 24,563	+ 50,166	+ 651	- 4,073	+ 21,567	- 20,0
3 Financial derivatives and employee stock options	+ 31,797	+ 45,483	+ 85,833	+ 27,331	- 44,606	+ 26,023	+ 6,742	+ 4,563	+ 8,9
4 Other investment	+ 386,921	+ 147,803	- 149,207	- 156,241	- 13,773	- 161,093	- 69,248	- 11,697	- 81,8
Eurosystem	+ 57,976	+ 55,898	- 13,611	- 7,278	- 19,284	- 35,356	- 8,486	- 23,776	- 5,9
General government	- 8,831	+ 11,850	+ 19,114	+ 7,326	+ 1,205	- 13	+ 3,227	- 1,325	- 8,7
MFIs (excluding the Eurosystem)	+ 275,227	+ 98,549	- 123,572	- 89,483	- 22,737	- 89,686	- 17,869	+ 2,291	- 58,4
Enterprises and households	+ 62,547	- 18,491	- 31,132	- 66,807	+ 27,042	- 36,037	- 46,119	+ 11,113	- 8,6
5 Reserve assets	+ 4,647	+ 4,361	+ 10,569	+ 970	+ 2,186	+ 7,737	+ 1,812	+ 6,802	- 3,9

 \star Source: ECB, according to the international standards of the Balance of Payments Manual in the 6th edition of the International Monetary Fund.

2 Major items of the balance of payments of the Federal Republic of Germany (balances)

€ million

Price Coord Coord <th< th=""><th></th><th>Currer</th><th>nt account</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>Financi</th><th>al account</th><th>•</th><th></th><th></th><th></th></th<>		Currer	nt account													Financi	al account	•			
Period Testal of which restar of which restar				C 1	(6 + (6 + 1))														ving: -)		
Price Teal Single (1) ingle (1)				Goods	5 (fob/fob)	1															
Price Teal Single (1) ingle (1)						of which															
Potol Potol Potol Seconds Capil Potol Percent Capil Percent Percent <td></td> <td></td> <td></td> <td></td> <td></td> <td>Supple-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Dalanca</td> <td>of</td> <td></td> <td></td> <td>of which</td> <td></td> <td>Freeze</td> <td></td>						Supple-								Dalanca	of			of which		Freeze	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$								Services				Secon	dary		01						
2003 + 4 + 6.008 - 45.400 - 25.596 - 2.013 - 4.010 - 4.020 - 3.010 - 1.030 + 1.030 + 1.030 + 1.030 + 1.030 + 1.030 + 1.030 + 1.030 + 1.030 + 1.030 + 1.030 + 1.030 + 1.030 + 1.030 + 1.030 + 1.030 + 1.030 + 1.030 + 1.030 + 1.030	Period	Total		Total		items 2		(fob/fob)	3	Primar	y income	incom	e	account	4	Total		assets		omissio	ns 5
2001 + 113.27 + 133.66 - 2,078 - 18.20 - 10.107 + 17.208 - 1.110 + 17.208 - 1.110 + 17.208 - 2.118 - 2.118 - 2.118 - 1.218 - 1.												-									
2005 + 105,730 + 157,100 - 6.680 - 10,100 - 11,281 - 1,270 + 11,788 - 1,770 + 11,788 - 1,780 - 1,283 - 1,283 - 1,283 - 1,283 - 1,283 - 1,283 - 1,283 - 1,283 - 1,283 - 1,283 - 1,283 - 2,283 + 1,171 1 1,213 1 2,208 + 2,108 - 2,108 - 2,108 - 2,108 - 2,108 - 2,108 - 2,108 - 2,108 - 2,108 - 2,108 - 2,108 - 2,108 - 2,108 - 2,108 - 2,108 - 2,108 - 1,138 + 2,108 - 1,138 2,108 - 1,138 2,108 1,138 2,108 1,138																					
10000 10007 + 159,08 + 159,18 - 159,18 - 159,18 - 2,23,1 - 2,23,1 - 2,23,1 - 2,23,1 - 2,23,1 - 2,23,1 - 2,23,1 - 2,23,1 - 2,23,3 + 15,13,1 - 1,23,3 + 1,21,33 + 1,21,33 + 1,21,33 + 1,21,33 + 1,21,33 + 1,21,33 + 1,21,33 + 1,21,33 + 1,21,33 + 1,21,33 + 1,21,33 + 1,21,33 + 1,21,33 - 1,21,33 - 1,21,33 - 1,21,33 - 1,21,33 - 1,21,33 - 1,21,33 - 1,21,33 - 1,21,33 - 1,21,33 - 1,21,33 - 1,21,33 - 1,21,33 - 1,21,33 - 1,21,33 - 1,21,33 - 1,21,33 - 1,21,33 - 1,21,33 </td <td></td>																					
2007 + 16.853 + 20.98 - 34.881 + 36.322 - 34.881 - 36.472 - 34.841 - 18.373 - 18.373 - 33.68 - 37.472 - 33.643 - 18.373 + 18.374 - 37.472 - 33.643 + 12.193 + 66.464 - 35.351 2011 + 164.681 + 163.764 - 37.627 + 57.57 + 46.373 2014 + 163.890 - 23.482 + 67.377 - 35.353 - 44.633 + 44.937 + 24.843 - 44.937 + 24.847 - 25.555 - 2.555 - 2.566 + 14.939 + 4.5275 - 2.667 + 3.932 + 4.6313 - 7.528 + 7.148 + 5.2755 - 1.660	2005	+	105,730	+	157,010	-	6,068	- 4	10,600	+	20,905	-	31,585	-	2,334	+	96,436	-	2,182	-	6,960
2008 + 141,23 + 18,65 - 31,467 + 24,274 - 36,461 - 18,38 + 12,363 + 2,000 - 1,088 + 12,363 + 2,005 - 33,880 - 1,183 + 12,038 + 2,035 - 3,235 - 3,242 + 5,056 - 33,880 - 1,642 + 1,2038 + 2,235 - 4,235 - 6,235 - 3,237 + 6,239 - 1,193 + 1,4020 + 2,242 - 3,233 + 6,2393 - 1,193 + 1,438 + 1,230 + 3,233 + 6,2393 - 1,114 - 1,193 + 1,446 + 1,242 + 4,4053 - 3,233 + 6,273 - 1,450 + 1,242 + 4,4053 - 1,242 +																					
2009 + 1414280 + 161,164 - 56,892 - 20,204 + 56,105 - 35,803 + 12,19 92,77 + 65,331 2011 + 164,803 + 163,104 - 32,422 + 66,763 - 35,530 + 11,184 2 + 12,420 + 2,435 - 43,225 - 35,530 - 11,18 + 2,12,400 + 2,248 - 4,3225 + 65,763 - 43,788 - 11,18 + 2,218 - 3,428 2013 + 46,2067 + 53,349 - 1,273 - 6,470 + 14,918 + 1,188 + 1,212 + 1,212 - 1,212 - 1,212 - 1,212 - 1,212 - 1,212 - 1,212 - 1,213 - 1,212 - 1,212 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>																					
1011 + + + + + + + + + + + + + + + + + + +											54,757						129,693			-	
2012 + + 193,931 + 200,01 - 10,8,88 - 113 + 14,802 + 1,297 - 48,378 2014 + 129,049 + 226,499 - 7,79 - 35,33 + 62,378 - 113 + 14,445 - 2,264 + 30,263 2015 + 525,580 - 15,334 + 62,378 - 1,114 + 1,738 + 1,546 + 1,7742 - 6,712 + 1,6712 + 6,525 - 1,742 + 7,422 + 1,882 + 1,890 + 5,929 - 1,724 + 4,661 + 1,206 - 1,723 - 1,723 - 1,723 - 1,814 + 3,727 - 1,814 + 1,206 - 1,206 - 1,206 - 1,206 - 1,206	2010	+	144,890	+	161,146	-	5,892	- 2	27,041	+	50,665	-	39,880	+	1,219	+	92,757	+	1,613	-	53,351
2013 + 190,28 + 211,89 - 427,79 - 35,53 + 65,763 - 43,78 - 198 + 210,907 + 83,88 - 25,64 >-25,64 >-30,623 2013 + 62,067 + 239,201 - 4,407 - 6,707 - 6,715 - 11,14 - -1,738 + 26,207 - 1,664 + - 1,713 + 6,707 + 6,716 - 1,714 - 1,713 + 6,707 + 6,716 - 1,714 +																					
2015 + 22,280 + 22,564 + 30,426 2015 + 52,526 + 53,230 + 63,739 - 1,138 + 224,445 - 2,2564 + 1,1219 2013 04 + 62,067 + 53,408 - 1,273 - 6,470 + 1,4518 + 1,111 - 1,738 + 71,549 + 1,458 + 1,1219 001 + 44,4923 + 52,528 - 1,522 + 1,4518 - 1,522 + 1,589 + 60,275 - 1,522 + 1,589 + 68,326 - 1,724 + 1,582 + 1,582 + 1,582 + 1,582 + 1,582 + 1,582 + 1,582 + 1,582 + 1,583 - 2,703 + 1,423 - 1,433 - 1,714 +																					
2013 Q4 + 6.0.67 + 5.3.68 - 1.1.14 - 1.7.38 + 7.1.549 + 1.4.64 + 1.1.119 2014 Q1 + 4.4.9137 + 5.2.023 + 1.68 - 6.2.08 + 17.061 - 1.4.918 + 2.1.37 - 5.65 + 9.996 Q3 + 5.4.57 + 60.313 - 2.7.31 - 1.7.242 + 1.7.206 - 1.7.80 + 6.3.52 + 2.3.68 - 1.7.242 + 1.7.206 - 1.7.80 + 1.7.273 - 6.5.22 + 1.7.81 + 3.0.58 - 7.7.14 + 1.8.32 - 1.7.207 - 4.6.4.007 - 1.4.651 - 1.4.52 + 1.0.88 - 2.1.7 - 4.6.4.07 - 4.6.1.01 + 6.7.22 + 1.0.88 - 2.1.6 - 1.4.55 - 1.4.55 - 1.4.55 - 1.4.55 - 1.4.55	2014	+	212,880		226,499		7,739	- 3	35,353	+	62,387		40,653		1,138	+	244,445	-	2,564	+	30,426
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		1																			
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$																					
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$																					
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Q3		54,257		60,313		2,818		15,461		17,223		7,818		367		59,285		332		4,661
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Q4	+	65,503	+	59,599	-	3,058	-	6,352	+	23,462	-	11,206	-	1,890	+	68,926	-	1,722	+	5,312
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$																					
Q4 + 72,200 + 64,112 - 1,200 - 10,048 - 2,178 + 58,322 - 220 - 11,740 2016 01 + 64,076 + 77,101 + 33 - 5,704 + 19,455 - 4,463 - 23,867 + 72,166 + 72,167 + 72,166 + 72,167 + 72,167 + 72,167 + 72,167 + 72,167 + 72,167 + 72,167 + 72,178 + 72,367 + 74,179 - 1,684 - 12,991 + 5,562 - 3,016 - 4002 + 13,450 + 4,411 - 6,617 + 5,562 - 3,016 - 4204 + 342 + 3,239 + 6,231 - 2,359 + 13,052 + 141 1,918 + 1,920 + 4,067 + 1,918 + 2,239 + 1,105 - 1,9																					
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$												-				+				-	
Q3 + 61,00 + 68,144 - 38 - 12,896 + 10,682 + 448 + 57,651 - 201 - 4,198 2014 June + 10,301 + 17,960 + 363 - 3,708 - 2,406 + 400 + 13,450 + 431 - 6,417 + 5,430 - 3,206 - 402 + 13,450 + 16,617 + 5,430 - 2,359 + 431 + 2,279 + 2,327 - 385 - 4,994 + 6,058 - 2,424 + 15,222 + 2,030 + 1,077 + 1,828 + 1,071 + 5,103 - 1,139 + 1,228 + 1,071 + 1,124 + 1,127 + 2,202 + 1,137 + 5,103 - 1,171 + 2,413 + 1,266 + 4,418 + 1,171 + 5,103 </td <td></td> <td>+</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td>		+						-													
2014 June + 16,301 + 17,960 + 363 - 3,708 + 4,456 - 2,406 + 405 + 17,051 - 130 + 3,416 July + 20,303 + 22,747 - 1,664 - 4,991 + 5,552 - 3,016 - 402 + 13,062 + 14,08 - 6,617 + 5,562 - 12,2173 - 265 + 9,021 + 3,03 + 6,211 - 2,556 - 112 + 15,22 + 203 - 5,928 Nov + 18,686 + 16,805 - 1,128 + 6,180 - 2,556 - 112 + 1,328 + 7,113 + 5,150 - 1,930 + 30,729 + 4,949 + 6,180 - 1,930 + 30,729 + 4,949 + 1,52 + 3,727 + 1,955 + 1,																					
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$																					
Aug + 10.707 + 14.224 - 748 - 6.617 + 5.430 - 2.259 + 426 + 13.062 + 166 + 19.30 Sep + 23.312 - 23.83 - 6.231 - 2.422 + 343 + 32.773 - 265 + 9.182 Nov + 18.686 + 18.085 - 1.282 - 2.039 + 6.130 - 3.500 + 152 + 22.905 + 30.72 - 1.838 Polo + 1.676 + 1.548 - 1.713 + 5.100 - 7.905 + 2.24 + 1.930 + 2.241 + 7.173 - 2.417 - 1.733 + 2.211 - 1.838 - 7.173 - 2.241 + 1.930 + 2.241 5 - 4.485 - 1.171 - 6.653 - 7.192 +		1						_				_						+			
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			10,707		14,254	-	748		6,617		5,430	-	2,359	+	426		13,062		166	+	1,930
Nov + 18,686 + 18,686 + 18,881 - 2,039 + 6,130 - 3,500 + 1520 + 22,925 + 30 + 4,067 2015 Jan + 14,676 + 15,484 - 1,713 + 5,150 - 1,930 - 3,642 + 30,64 + 3,642 - 1,835 + 3,77 - 3,642 - - 3,783 - 3,642 - - 3,642 - 3,642 + 30,37 - 4,199 + 20 - 3,642 - 4,485 Mar + 2,7157 + 2,240 + 422 - 1,326 + 7,411 - 4,117 + 173 + 2,2413 - 660 - 4,971 June + 24,955 + 2,5047 - 367 - 2,194 + 102 + 2,4061 - 318 - 1,056 July <td>Sep</td> <td>+</td> <td>23,247</td> <td>+</td> <td>23,312</td> <td>- </td> <td></td> <td>-</td> <td></td> <td>+</td> <td></td> <td>-</td> <td></td> <td>+</td> <td>343</td> <td>+</td> <td>32,773</td> <td>-</td> <td></td> <td>+</td> <td></td>	Sep	+	23,247	+	23,312	-		-		+		-		+	343	+	32,773	-		+	
Dec + 25,486 + 18,681 - 1,228 + 681 + 11,274 - 5,150 - 1,930 + 30,729 - 1,955 + 7,173 2015 Jan + 14,6676 + 15,844 - 1,154 - 1,713 + 5,103 - 4,199 + 200 - 3,642 + 3722 - 18,338 Mar + 27,157 + 25,240 + 422 - 1,737 + 5,826 - 7,505 + 22,413 - 660 - 4,485 May + 11,366 + 21,105 - 1,240 - 1,432 + 3,303 - 2,877 + 348 + 31,171 - 69 + 9,712 May + 25,002 + 25,102 - 1,024 - 4,339 + 6,553 - 2,134 + 400 + 19,400 + 1,070 - <																					
Feb + 16,055 + 19,360 - 948 - 1,625 + 5,826 - 7,505 + 24 + 11,595 + 266 - 4,485 Mar + 21,110 + 22,116 - 1,240 - 1,376 + 3,303 - 2,877 + 348 + 31,171 - 660 - 4,971 May + 11,366 + 21,155 - 437 - 2,002 - 5,805 - 1,982 + 24,061 - 7,540 - 7,510 - 2,140 4,422 4,21,411 1,170																					
Mar + 27,157 + 25,240 + 422 - 1,376 + 7,411 - 4,117 + 173 + 22,413 - 660 - 4,917 Apr + 21,110 + 22,115 - 437 - 2,002 - 5,865 - 1,982 + 557 + 17,560 - 78 + 5,617 June + 24,955 + 25,007 - 0,307 - 5,735 - 2,314 + 462 + 20,319 - 1,170 - 5,146 Aug + 14,231 + 16,658 + 472 - 5,423 + 5,735 - 2,739 + 400 + 19,460 - 1,108 + 5,146 Aug + 24,894 + 23,867 + 23,877 + 6,808 - 3,087 - 94 + 16,508 + 154 - 5,140 Nov	2015 Jan	+	14,676	+	15,484	-	1,154	-	1,713	+	5,103	_	4,199	+	20	-	3,642	+	372	-	18,338
Apr + 21,110 + 22,116 - 1,240 - 1,432 + 3,303 - 2,877 + 348 + 31,171 - 69 + 9,712 May + 24,955 + 25,047 - 367 - 2,002 - 5,805 - 1,982 + 557 + 11,750 - 78 + 5,617 July + 25,002 + 25,102 - 1,024 - 4,39 + 6,553 - 2,314 + 462 + 20,319 - 1,170 - 5,146 Aug + 14,231 + 16,568 + 472 - 5,423 + 5,735 - 2,79 + 40 + 24,313 - 105 - 1,677 Oct + 21,741 + 23,867 + 23 - 5,847 + 6,808 - 3,087 - 94 + 16,508 + 5,140																					
May + 11,366 + 21,155 - 437 - 2,002 - 5,805 - 1,982 + 557 + 17,540 - 78 + 5,617 July + 22,955 + 25,007 - 1,024 - 4,339 + 6,553 - 2,314 + 4622 + 20,319 - 1,170 - 5,146 Aug + 14,231 + 16,658 + 1,129 - 4,090 + 6,106 - 1,575 + 201 + 24,313 - 105 - 1,677 Oct + 21,741 + 23,867 + 23 - 5,847 + 6,808 - 3,087 - 94 + 16,508 + 11,672 - 1,692 Nov + 24,894 + 22,245 - 378 - 1,741 + 6,808 - 3,087 - 94 + 16,508 + 123																					
June + 24,955 + 25,047 - 367 - 2,07 + 4,609 - 2,194 + 192 + 24,061 - 318 - 1,086 July + 25,002 + 25,102 - 1,024 - 4,339 + 6,553 - 2,314 + 462 + 20,319 - 1,170 - 5,146 Aug + 14,231 + 16,558 + 472 - 5,423 + 5,735 - 2,739 + 400 + 19,460 - 1,800 + 5,189 Sep + 21,741 + 6,874 - 3,087 - 94 + 16,508 + 1,677 Nov + 24,884 + 22,245 - 378 - 1,741 + 6,874 - 2,485 + 163 + 20,149 - 5,464 - 158 - 5,140 Dec 5,564 + <td></td>																					
Aug Sep+14,231 ++16,658 ++472 +-5,423 ++5,735 +-2,739 ++40 ++19,460 +-180 ++5,189 -Oct+21,741 ++23,867 ++23 5,847 ++6,808 +-3,087 94 ++16,508 ++154 5,140 +Nov+24,894 ++22,245 +-378 1,741 ++6,874 2,485 ++163 ++20,149 548 4,908 +Dec+22,604 ++17,619 183 2,455 ++2,475 2,248 -+21,665 ++123 1,6922016 Jan+14,029 ++13,619 183 2,455 ++5,140 2,275 89 5,664 186 1,6922016 Jan+20,755 ++22,485 ++6,73 1,143 +6,932 7,518 ++426 ++9,544 ++1,478 16,92Apr+27,944 ++27,243 188 845 ++3,238 <	,							-										-			
Sep + 25,788 + 25,788 + 25,788 + 25,788 + 25,788 + 25,788 + 25,788 + 25,788 + 25,788 + 25,788 + 22,788 + 22,781 + 24,894 + 22,887 + 23,877 + 6,808 - 3,087 - 94 + 16,508 + 154 - 5,140 Nov + 24,894 + 22,245 - 378 - 1,741 + 6,808 - 2,485 + 163 + 20,149 - 548 - 4,908 Dec + 14,029 + 13,619 - 183 - 2,455 + 5,140 - 2,275 - 89 - 5,464 - 186 - 19,404 Feb + 20,755 + 22,485 + 673 - 1,143 + 6,932 - 7,518 + 426 + 9,544 + 1	July	+	25,002	+	25,102	-	1,024	-	4,339	+	6,553	-	2,314	+	462	+	20,319	-	1,170	-	5,146
Oct + 21,741 + 23,867 + 23 - 5,847 + 6,808 - 3,087 - 94 + 16,508 + 154 - 5,140 Nov + 24,894 + 22,245 - 378 - 1,741 + 6,874 - 2,485 + 163 + 20,149 - 548 - 4,908 Dec + 14,029 + 13,619 - 183 - 2,455 + 5,140 - 2,275 - 89 - 5,464 - 186 - 19,404 Feb + 20,755 + 22,485 + 673 - 1,143 + 6,922 - 7,518 + 426 + 9,544 + 1,478 - 11,637 Mar + 27,944 + 27,243 - 188 - 845 + 3,238 - 1,692 + 1,267 + 41,438 + 696 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td>+</td><td></td><td>-</td><td></td><td></td><td></td></t<>								-				-				+		-			
Nov Dec + 24,894 + 22,245 - 378 - 1,741 + 6,874 - 2,485 + 163 + 20,149 - 548 - 4,908 Dec + 25,604 + 17,999 - 905 + 866 + 11,216 - 4,476 - 2,248 + 21,665 + 123 - 1,692 2016 Jan + 14,029 + 13,619 - 183 - 2,455 + 5,140 - 2,275 - 89 - 5,464 - 186 - 19,404 Feb + 20,755 + 22,485 + 673 - 1,143 + 6,932 - 7,518 + 426 + 9,544 + 1,478 - 1,637 Mar + 27,944 + 27,243 - 188 - 845 + 3,238 - 1,692 + 1,267 + 41,438 4 696 <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td> -</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td> Ť</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		1						-						Ť							
Dec + 25,604 + 17,999 - 905 + 866 + 11,216 - 2,248 + 21,665 + 123 - 1,692 2016 Jan + 14,029 + 13,619 - 183 - 2,455 + 5,140 - 2,275 - 89 - 5,464 - 186 - 19,404 Feb + 20,755 + 22,485 + 673 - 1,143 + 6,932 - 7,518 + 426 + 9,544 + 1,478 - 11,637 Mar + 29,492 + 27,744 - 158 - 2,109 + 7,353 - 3,666 - 754 + 19,784 - 64 - 8,954 May + 18,100 + 27,243 - 188 - 845 + 3,238 - 1,692 + 1,267 + 41,438 + 696 + 12,227								_						+							
Feb+20,755+22,485+673-1,143+ $6,932$ -7,518+ 426 + $9,544$ + $1,478$ -11,637Mar+29,492+27,914-158-2,109+ $7,553$ - $3,666$ - 754 + $9,544$ + $1,478$ - $11,637$ Apr+27,944+27,243-188- 845 + $3,238$ - $1,692$ + $1,267$ + $41,438$ + 696 + $12,227$ May+18,100+23,445+ 500 - $1,584$ - $3,170$ - 591 + 137 + $23,178$ - 711 - $8,992$ June+26,062+26,413- 274 - $2,611$ + $4,458$ - $2,199$ + 137 + $23,178$ - 711 - $3,021$ July+19,837+20,804+ 508 - $3,668$ + $6,337$ - $3,435$ - 1135 + $19,073$ + 342 - 629 Aug+17,106+ $22,1427$ - $3,469$ + $4,750$ - $2,737$ + 697 + $22,462$ - 695 - $2,693$ Sep+ $24,458$ + $25,913$ - 204 - $3,652$ + $5,734$	Dec	+		+		-	905	+		+		-		-	2,248	+		+	123	-	
Mar + 29,492 + 27,914 - 158 - 2,109 + 7,353 - 3,666 - 754 + 19,784 - 64 - 8,954 Apr + 27,944 + 27,243 - 188 - 845 + 3,238 - 1,692 + 1,267 + 41,438 + 696 + 12,227 May + 18,100 + 23,445 + 500 - 1,584 - 3,170 - 591 + 153 + 9,261 + 776 - 8,992 June + 26,062 + 20,613 - 274 - 2,611 + 4,458 - 2,199 + 137 + 23,178 - 711 - 3,021 July + 19,837 + 20,804 + 508 - 5,759 + 5,749 - 114 + 16,116 + 93 - 876 5					13,619																
Apr+27,944+27,243-188-845+ $3,238$ - $1,692$ + $1,267$ + $41,438$ + 696 + $12,227$ May+18,100+23,445+500- $1,584$ - $3,170$ -591+ 153 + $9,261$ + 776 - $8,992$ June+26,062+26,413- 274 - $2,611$ + $4,458$ - $2,199$ + 137 + $23,178$ - 711 - $3,021$ July+19,837+ $20,804$ + 508 - $3,868$ + $6,337$ - $3,435$ - 135 + $19,073$ + 342 - 629 Aug+ $17,106$ + $21,427$ - 342 - $5,559$ + $5,749$ - $4,510$ - 114 + $16,116$ + 93 - 876 Sep+ $24,458$ + $25,913$ - 204 - $3,652$ + $5,734$ - $3,783$ - 175 + $28,153$ - 145 + $8,925$ Oct+ $19,403$ + $21,103$ + 220 - $3,652$ + $5,734$ - $3,783$ - 175 + $28,153$ - 145 + $8,925$					22,485 27 91 <i>4</i>																
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$								_													I
June + 26,062 + 26,413 - 274 - 2,611 + 4,458 - 2,199 + 137 + 23,178 - 711 - 3,021 July + 19,837 + 20,804 + 508 - 3,868 + 6,337 - 3,435 - 135 + 19,073 + 342 - 629 Aug + 17,106 + 21,427 - 342 - 5,559 + 5,749 - 4,510 - 114 + 16,116 + 93 - 876 Sep + 24,458 + 25,913 - 204 - 3,469 + 4,750 - 2,737 + 697 + 22,462 - 695 - 2,693 Oct + 19,403 + 21,103 + 220 - 3,652 + 5,734 - 3,783 - 175 + 28,153 - 145																					
Aug + 17,106 + 21,427 - 342 - 5,559 + 5,749 - 4,510 - 114 + 16,116 + 93 - 876 Sep + 24,458 + 25,913 - 204 - 3,469 + 4,750 - 2,737 + 697 + 22,462 - 695 - 2,693 Oct + 19,403 + 21,103 + 220 - 3,652 + 5,734 - 3,783 - 175 + 28,153 - 145 + 8,925	June	+	26,062	+		-	274	-		+	4,458	-	2,199	+	137	+	23,178	-	711	-	3,021
Sep + 24,458 + 25,913 - 204 - 3,469 + 4,750 - 2,737 + 697 + 22,462 - 695 - 2,693 Oct + 19,403 + 21,103 + 220 - 3,652 + 5,734 - 3,783 - 175 + 28,153 - 145 + 8,925						+		-				-									
Oct + 19,403 + 21,103 + 220 - 3,652 + 5,734 - 3,783 - 175 + 28,153 - 145 + 8,925						-		-				_									
Nov \mathbf{p} + 24,593 + 24,274 - 421 - 1,829 + 6,128 - 3,979 - 74 + 30,501 + 140 + 5,982		1										_									I
									1,829			-					30,501				

Excluding freight and insurance costs of foreign trade. 2 For example, warehouse transactions for the account of residents, deductions of goods returned and deductions of exports and imports in connection with goods for processing.
 Including freight and insurance costs of foreign trade. 4 Including net

acquisition/disposal of non-produced non-financial assets. **5** Statistical errors and omissions, resulting from the difference between the balance on the financial account and the balances on the current account and the capital account.

3 Foreign trade (special trade) of the Federal Republic of Germany, by country and group of countries *

€ million

					2016								
Ländergruppe/Land		2013	2014	2015	Jan. / Oct.	Jul	Aug		Sep		Oct		Nov P
All countries 1	Exports Imports Balance	1,088,025 890,393 + 197,632	1,123,746 910,145 + 213,601	1,193,555 949,245 + 244,310	1,001,766 790,055 + 211,711	76	,041 ,944 ,097 +	96,245 76,550 19,695	+	106,042 81,808 24,234	+	101,561 82,154 19,407	108,467 85,849 + 22,618
I European countries	Exports Imports Balance	743,067 625,934 + 117,133	761,914 642,738	803,425 653,782	684,974 545,298	65 53	,193 ,410 ,783 +	63,892 51,082 12,810	+	73,330 57,003 16,328	+	69,148 56,488 12,661	····
1 EU member states (28)	Exports Imports Balance	618,383 509,738 + 108,645		692,493 543,334 + 149,159	590,328 458,433 + 131,895	44	,081 ,979 ,102 +	54,154 42,080 12,073	+	63,082 48,263 14,819	+	59,684 47,089 12,595	· · · · · · · · · · · · · · · · · · ·
Euro-area (19) countries	Exports Imports Balance	405,220 343,487 + 61,732	413,753 350,550 + 63,203	434,075 356,643 + 77,432	368,513 299,150 + 69,363	29	,537 ,815 ,722 +	32,777 27,025 5,752	+	39,354 31,078 8,276		37,514 30,588 6,926	
of which Austria	Exports Imports Balance	56,217 36,734 + 19,483	55,807 36,218 + 19,590	58,217 37,250 + 20,967	49,829 32,154 + 17,675	3	,773 ,284 ,490 +	4,865 3,021 1,845	+	5,356 3,448 1,908	+	5,118 3,268 1,850	
Belgium and Luxembourg	Exports Imports Balance	47,954 41,965 + 5,989	47,345 42,548	46,196 40,116 + 6,079	39,238 34,156 + 5,082	3	,631 ,294 337 +	3,663 3,288 375	+	4,146 3,321 824	+	3,850 3,325 525	
France	Exports Imports Balance	99,250 63,489 + 35,761	100,580 66,714	102,762 66,819	84,431 55,587 + 28,845	75	,969 ,626 ,343 +	7,096 4,496 2,600	+	9,029 5,398 3,632	+	8,518 5,832 2,686	
Italy	Exports Imports Balance	53,212 46,911 + 6,301	54,240 48,522 + 5,718	57,987 49,038 + 8,949	51,292 43,047 + 8,246		,244 ,598 646 +	3,929 3,791 137	+	5,529 4,434 1,095	+	5,369 4,458 911	· ·
Netherlands	Exports Imports Balance	70,975 88,698 – 17,723	72,736 87,796 – 15,060	79,191 87,889 – 8,697	65,826 68,990 – 3,164		,600 ,812 211 –	6,392 6,810 418	_	7,071 7,136 65	-	6,753 7,028 276	
Spain	Exports Imports Balance	31,349 23,639 + 7,709	34,820 24,804 + 10,016	38,715 26,442 + 12,273	33,691 22,592 + 11,099	2	,199 ,127 ,072 +	2,762 1,770 992	+	3,549 2,382 1,167	+	3,402 2,260 1,142	· ·
Other EU member states	Exports Imports Balance	213,163 166,251 + 46,912	234,693 176,567 + 58,126	258,417 186,691 + 71,727	221,815 159,284 + 62,532	15	,545 ,165 ,380 +	21,377 15,056 6,321	+	23,728 17,185 6,543	+	22,170 16,500 5,669	· · · · · · · · · · · · · · · · · · ·
<i>of which</i> United Kingdom	Exports Imports Balance	71,280 39,466 + 31,815	38,545	89,018 38,414 + 50,604	72,876 29,394 + 43,483	2	,890 ,871 ,018 +	6,882 2,701 4,182	+	7,809 3,116 4,693	+	6,549 2,907 3,642	
2 Other European countries	Exports Imports Balance	124,684 116,196 + 8,488	113,468 115,621 – 2,153	110,932 110,448 + 484	94,646 86,864 + 7,782		,112 ,430 682 +	9,738 9,001 737	+	10,249 8,740 1,509	+	9,464 9,399 65	· · ·
<i>of which</i> Switzerland	Exports Imports Balance	46,924 38,321 + 8,603	39,392	49,070 42,089 + 6,981	41,943 35,832 + 6,110		,073 ,546 526 +	4,157 3,366 792	_	4,607 3,722 885	₊	4,358 3,935 423	· ·
II Non-European countries	Exports Imports Balance	341,213 264,459 + 76,754	358,337 267,407	387,398 295,461	314,714 244,682 + 70,032	23	,590 ,534 ,056 +	32,316 25,399 6,917	+	32,471 24,804 7,667	+	32,156 25,666 6,491	
1 Africa	Exports Imports Balance	21,803 23,108 - 1,305		23,897 18,307 + 5,590	20,351 13,549 + 6,802		,802 ,345 458 +	2,015 1,335 680	+	2,058 1,268 790	+	2,044 1,598 447	
2 America	Exports Imports Balance	130,427 75,023 + 55,404	135,293 74,191 + 61,103	156,982 85,582 + 71,400	122,648 68,684 + 53,964	6	,063 ,851 ,212 +	12,062 7,027 5,035	+	12,809 6,945 5,863	+	12,024 6,724 5,300	
of which United States	Exports Imports Balance	89,348 48,582 + 40,766	49,207	113,733 60,217 + 53,516	88,653 47,981 + 40,672	4	,777 ,737 ,040 +	8,575 4,900 3,675	+	9,179 4,738 4,441	+	8,797 4,630 4,167	
3 Asia	Exports Imports Balance	179,038 162,960 + 16,077	190,973 170,050	196,297 188,621	163,196 159,943	15	,819 ,099 720 +	17,334 16,790 543	+	16,670 16,347 323		17,177 17,137 39	
<i>of which</i> Middle East	Exports Imports Balance	32,754 8,921 + 23,833	35,462 7,865	39,518 7,330	29,244 5,410 + 23,834		,356 518 ,838 +	3,359 550 2,809	+	2,553 626 1,928	+	2,583 560 2,023	:
Japan	Exports Imports Balance	+ 23,833 17,076 19,492 - 2,416	16,910 19,007	16,968 20,180	15,056 18,246	1	,584 ,706 122 –	1,632 1,907 275		1,928 1,645 1,906 261		2,023 1,607 1,844 237	
People's Republic of China 2	Exports Imports Balance	66,912 74,544 – 7,633	74,369 79,828	71,284 91,930	61,857 77,144		,396 ,219 822 –	6,301 8,127 1,825		6,590 7,958 1,368		6,300 8,693 2,393	
and emerging markets of Asia 3	Exports Imports Balance	45,894 36,672 + 9,222	38,782 + 9,695	42,478 + 9,032			,048 ,326 722 +	4,548 3,610 938	+	4,420 3,492 928	+	5,263 3,672 1,591	· ·
4 Oceania and polar regions	Exports Imports Balance	9,946 3,368 + 6,578	2,924	2,951	8,520 2,506 + 6,014	+	905 238 666 +	906 247 659	₊	935 244 691		911 207 705	

* Source: Federal Statistical Office. Exports (fob) by country of destination, imports (cif) by country of origin. Individual countries and groups of countries according to the current position. Euro-area including Lithuania. 1 Including fuel and other

supplies for ships and aircraft and other data not classifiable by region. **2** Excluding Hong Kong. **3** Brunei Darussalam, Hong Kong, Indonesia, Malaysia, Philippines, Republic of Korea, Singapore, Taiwan and Thailand.

4 Services and Primary income of the Federal Republic of Germany (balances)

	€ million										
	Services		Primary income	!							
		of which									
Period	Total	Transport	Travel 1	Financial services	Charges for the use of intellectual property	Tele- communi- cations, computer and information services	Other business services	Government goods and services 2	Compensation of employees	Investment income	Other primary income 3
2011	- 32,482	- 8,533	- 33,755	+ 7,812	+ 2,389	+ 857	- 6,787	+ 2,939	+ 3,358	+ 64,718	
2012	- 32,775	- 10,189	- 35,422	+ 8,793	+ 3,030	+ 1,442	- 9,459	+ 3,103	+ 3,155	+ 61,666	
2013	- 43,223	- 12,075	- 37,713	+ 8,123	+ 3,605	- 758	- 5,912	+ 3,078	+ 523	+ 64,017	
2014	- 35,353	- 13,254	- 37,653	+ 7,817	+ 4,274	+ 2,600	- 1,785	+ 3,035	+ 259	+ 61,258	
2015	- 31,230	- 12,655	- 36,632	+ 10,181	+ 5,118	+ 3,796	- 3,659	+ 3,102	+ 735	+ 63,370	
2015 Q1	- 4,714	- 2,926	- 5,740	+ 2,319	+ 1,306	+ 278	- 347	+ 904	+ 799	+ 18,598	- 1,057
Q2	- 5,941	- 2,218	- 7,808	+ 2,272	+ 1,093	+ 1,298	- 1,155	+ 830	- 31	+ 3,256	- 1,118
Q3	- 13,852	- 3,352	- 14,495	+ 2,779	+ 847	+ 292	- 594	+ 770	- 445	+ 20,042	- 1,204
Q4	- 6,722	- 4,158	- 8,590	+ 2,811	+ 1,872	+ 1,928	- 1,563	+ 598	+ 411	+ 21,474	+ 3,013
2016 Q1	- 5,707	- 2,439	- 6,421	+ 2,272	+ 1,243	+ 249	- 1,168	+ 840	+ 754	+ 19,315	- 645
Q2	- 5,040	- 1,190	- 8,057	+ 2,369	+ 1,119	+ 1,108	- 955	+ 855	- 154	+ 5,764	- 1,084
Q3	- 12,896	- 1,401	- 15,654	+ 1,901	+ 1,552	+ 573	- 329	+ 849	- 434	+ 18,445	- 1,175
2016 Jan	- 2,455	- 921	- 1,687	+ 952	+ 184	- 459	- 722	+ 276	+ 258	+ 5,227	- 345
Feb	- 1,143	- 1,039	- 1,723	+ 607	+ 774	+ 165	- 138	+ 290	+ 272	+ 6,590	+ 70
Mar	- 2,109	- 479	- 3,011	+ 714	+ 285	+ 543	- 308	+ 274	+ 224	+ 7,498	- 370
Apr	- 845	- 443	– 1,174	+ 809	+ 480	- 5	- 666	+ 300	- 33	+ 3,726	- 455
May	- 1,584	- 277	– 3,302	+ 854	+ 743	+ 197	- 268	+ 251	- 90	- 2,736	- 344
June	- 2,611	- 470	– 3,582	+ 707	- 104	+ 916	- 22	+ 305	- 32	+ 4,774	- 285
July	- 3,868	- 394	- 4,284	+ 725	+ 568	- 204	- 411	+ 296	- 173	+ 6,867	- 357
Aug	- 5,559	- 598	- 6,541	+ 588	+ 830	+ 64	- 248	+ 264	- 136	+ 6,289	- 405
Sep	- 3,469	- 409	- 4,828	+ 588	+ 155	+ 712	+ 331	+ 288	- 125	+ 5,289	- 413
Oct	- 3,652	- 464	– 5,328	+ 631	+ 1,073	+ 31	– 148	+ 199	+ 150	+ 6,169	- 585
Nov P	- 1,829	- 572	– 1,993	+ 637	+ 643	- 24	– 821	+ 210	+ 127	+ 6,412	- 411

5 Secondary income of the Federal Republic of Germany (balances)

6 Capital account of the Federal **Republic of Germany**

(balances)

 ${\bf 3}$ Includes, inter alia, taxes on leasing, production and imports transferred to the EU as well as subsidies received from the EU.

	€ millio	on													€ millio	on				
			Genera	l governme	ent				All sect	ors exclud	ding gen	eral gove	rnment 2							
					of which						of whic	h								
Period	Total		Total		Current internatic cooperati		Current taxes on income, etc.	wealth	Total		Personal betwee resident nonresid househo	and dent	<i>of which</i> Workers remittar	′	Total		Non-pro non-fina assets		Capital transfer	5
2011 2012 2013 2014 2015	- - - -	35,520 39,858 43,758 40,653 39,550	- - - -	21,293 25,493 29,708 28,169 25,546	- - - -	4,446 5,214 5,611 6,076 7,065	+ + + +	6,718 5,206 6,177 8,088 9,800	- - - -	14,227 14,366 14,050 12,485 14,004		2,977 2,952 3,250 3,476 3,540	- - -	2,977 2,952 3,229 3,451 3,523	+ - + +	1,642 413 591 1,138 159	+ + + +	1,148 1,745 1,076 2,782 2,136	+ - - -	494 2,158 1,667 1,643 2,295
2015 Q1 Q2 Q3 Q4	- - - -	15,822 7,052 6,628 10,048	- - - -	12,975 1,803 3,850 6,918	- - -	2,614 1,161 1,196 2,094	+ + + +	1,327 6,278 1,212 981	- - -	2,847 5,249 2,778 3,130	- - - -	885 885 885 885	- - - -	881 881 881 881	++++	218 1,098 703 2,178	- + + +	10 1,143 870 134	+ - - -	228 45 167 2,312
2016 Q1 Q2 Q3		13,460 4,482 10,682	- - -	10,054 998 6,952		2,704 1,618 1,702	+ + +	1,284 5,527 1,753		3,406 3,484 3,731	- - -	1,270 1,056 1,053	- - -	1,267 1,053 1,049	- + +	417 1,557 448	- + +	676 2,072 1,110	+ - -	259 516 662
2016 Jan Feb Mar		2,275 7,518 3,666	- - -	1,167 6,258 2,629		1,181 1,079 444	+ + +	586 281 416		1,109 1,260 1,038		441 441 388	- - -	440 440 387	+	89 426 754	++	2 188 866	- + +	91 238 112
Apr May June		1,692 591 2,199	- + -	703 555 850	- - -	509 408 701	+ + +	1,217 3,020 1,290		989 1,147 1,348	- - -	354 351 351	- - -	353 350 350	++++++	1,267 153 137	++++++	1,411 244 417		144 91 281
July Aug Sep		3,435 4,510 2,737	- - -	2,335 3,013 1,603	- - -	451 983 268	+ + +	378 257 1,118		1,100 1,497 1,133	- - -	352 350 351	- - -	350 350 350	- - +	135 114 697	++++++	98 157 855		233 271 158
Oct Nov P	-	3,783 3,979	-	2,857 2,940	-	658 449	+++	326 20		926 1,040	-	352 353		350 350	-	175 74	- +	8 255	-	167 329

 ${\bf 1}$ Excluding capital transfers, where identifiable. Includes current international cooperation and other current transfers. ${\bf 2}$ Includes insurance premiums and claims

(excluding life insurance policies). ${\bf 3}$ Transfers between resident and non-resident households.

7 Financial account of the Federal Republic of Germany (net)

€ million

						201	U	_						_		_	
m	2013	20	14	20	15	Q1		Q2		Q3		Sep		Oct		No	V P
I Net domestic investment abroad (Increase: +)	+ 60,70	5 +	299,954	+	253,658		154,533	+	162,379	+	50,196	+	20,785	_	47,813	+	32,
1 Direct investment			85,658		98,017		30,747	+	11,281	+	21,261	+	14,841	I 1	9,422	+	9,
								I						I 1		I	
Equity of which	+ 43,580	5 +	66,413	+	69,542	+	22,203	+	10,478	+	17,012	+	5,046	+	7,013	+	6,
Reinvestment of earnings 1	+ 17,880		21,373		15,866		7,335		5,100		9,721	+	3,167		3,325	+	1,
Debt instruments	+ 25,10		19,246		28,475		8,544	I	804	+	4,249	+	9,795	I 1	2,409	+	3
2 Portfolio investment	+ 140,36		149,023		124,134		47,212	I 1	34,264	+	19,775	+	12,054	I 1	5,483	-	
Shares ² Investment fund shares ³	+ 18,940		12,380 41,302		19,737 35,495	+++	1,314 9,724		4,668 7,875	+++	8,154 8,857	++++	2,784 3,952		1,628 6,546	+	2
Long-term	- 52,40	Π [±]	41,502	T	55,455	ľ	5,724	T.	7,075	T	0,057	Т	5,552	T.	0,540		
debt securities 4	+ 84,469	9 +	95,794	+	73,923	+	31,209	+	26,381	+	5,903	+	5,956	-	1,590	-	1
Short-term debt securities 5	+ 4,543	3 -	454	_	5,021	+	4,965	_	4,659	_	3,138	_	637	-	1,101	-	
3. Financial derivatives and					.,.		,		,						, -		
employee stock options 6	+ 23,94	4 +	31,769	+	25,796	+	4,925	+	3,940	+	10,024	+	5,093	+	4,421	+	5
4. Other investment 7	- 173,13	1 +	36,069	+	7,923	+	70,420	+	112,132	-	604	-	10,507	+	28,631	+	18
Monetary financial institutions 8	- 56,929	9 +	76,305	-	90,287	+	11,342	+	38,457	-	29,468	_	46,801	+	47,742	-	22
Long-term	- 50,77		21,149	-	2,803	+	1,948		8,368		7,704	+	910		6,418	+	12
Short-term	- 6,152	2 +	55,156	-	87,484	+	9,394	+	30,089	-	37,172	-	47,711	+	41,324	-	35
Enterprises and households 9	+ 21,33	5 - 15	7,517	_	13,097	+	29,038	_	605	_	11,317	_	4,038	_	5,828	-	1
Long-term	+ 7,03		2,091	+	12,588	-	772	-	219	+	996	-	1,372		186	+	1
Short-term	+ 14,302	2 -	9,608	-	25,685	+	29,810	-	386	-	12,313	-	2,667	-	5,642	-	3
General government	+ 7,98		17,161	-	12,057	+	5,061		2,400	+	5,124	+	1,684		5,524	-	2
Long-term Short-term	+ 15,663		405 17,566	2	7,425 4,632	- +	1,367 6,428	-	832 3,232	-+	982 6,106	+++	69 1,615	-	501 5,023	+	3
Bundesbank	- 145,519		49,880	+	123,364		24,980	I	71,881	+	35,056	+	38,648	_	7,760	+	46
5. Reserve assets	+ 838		2,564	Ľ	2,213		1,228	I	761	_	261	Ľ	695		145	. +	40
Net foreign investment in the reporting country			2,501		2,213		1,220		,		201		055				
(Increase: +)	- 158,374	4 +	55,510	+	28,106	+	130,669	+	88,503	-	7,455	-	1,676	+	19,660	+	2
1 Direct investment	+ 47,079	9 +	6,240	+	41,579	+	26,907	+	28,169	+	8,742	+	11,990	-	6,558	+	6
Equity	+ 68	5 +	23,991	+	18,498	+	6,492	+	5,101	+	3,377	+	99	+	973	+	
of which Reinvestment of earnings 1	- 4,53	3 +	3,662	+	5,765	+	3,677	₊	800	+	3,548	+	994	+	1,248	₊	1
Debt instruments	+ 46,394		17,751		23,081		20,416		23,068		5,365	+	11,891	<u>-</u>	7,531		6
2 Portfolio investment	- 20,184	4 +	11,583	-	75,003	+	6,102	-	32,275	-	29,040	-	6,992	-	16,190	-	15
Shares 2)	+ 4,933	3 +	5,137	+	10,255	-	2,998	-	5,660	+	1,195	_	636	+	3,449	-	
Investment fund shares 3	+ 6,069	9 -	5,154	+	5,515	-	2,777	-	1,864	-	2,298	-	210	+	116	-	1
Long-term debt securities 4	- 8,329	- e	14,785	_	97,980	_	6,427	_	32,283	_	23,893	_	13,810	_	12,928	_	
Short-term																	
debt securities 5	- 22,85		3,185				18,303	I	7,533	-	4,044	+	7,663	I 1	6,827		13
3. Other investment 7	- 185,270) +	37,687		61,529		97,659	I	92,608		12,843	-	6,674		42,408	I	11
Monetary financial institutions 8	- 158,518		32,484 14,555		41,137 19,517	+	41,213 3,913		68,410		884 5,499		35,422		43,368		2
Long-term Short-term	- 141,699		47,039		21,621		45,126		3,177 71,587		4,615		316 35,738		778 42,590		1 1
Enterprises and											, .						
households 9	- 1,95		16,777		18,120		39,419		486		23,546		2,308		3,596		4
Long-term Short-term	- 13,160		2,008 18,785		15,290 2,829	+	141 39,278		1,454 968		3,839 27,385	+	2,701 393		2,512 1,084	-	4
								I						I 1		I	
General government Long-term	- 1,900 + 8,979		5,610 931	2	11,235 3,654		5,643 2,478		6,643 2,897	-	2,770 54	-	409 19		377 59	+	1
Short-term	- 10,878		4,680		7,582		8,121		3,746	-	2,716	-	390		319	+	1
Bundesbank	- 22,89	5 -	5,964	+	95,782	+	11,384	+	18,042	+	38,274	+	26,849	-	4,933	+	11
Net financial account																	
(Net lending: + / net borrowing: -)	+ 219,079	9 +	244,445	+	225,551	+	23,864	+	73,876	+	57,651	+	22,462	+	28,153	+	30,

1 Estimate based on data on direct investment stocks abroad and in the Federal Republic of Germany (see Special Statistical Publication 10). **2** Including participation certificates. **3** Including reinvestment of earnings. **4** Up to and including 2012, without accrued interest. Long-term: original maturity of more than one year or unlimited. **5** Short-term: original maturity up to one year. **6** Balance of transactions

arising from options and financial futures contracts as well as employee stock options. **7** Includes in particular loans, trade credits as well as currency and deposits. **8** Excluding Bundesbank. **9** Includes the following sectors: financial corporations (excluding monetary financial institutions) as well as non-financial corporations, households and non-profit institutions serving households.

8. External position of the Bundesbank since the beginning of European monetary union °

Internal part (%) Server (%) Server (%) Other (%) Server (%) S		€ million										
End Indal Goriand cale operator sprintor Sprintal sprintor (notal Sprintal contrast (notal Currency currency (notal Indal Sprintal strunts Sprintal contrast (notal Sprintal strunts Sprintal (notal Sprintal Sprintal Spr		External assets										
pend pend pend pende pe			Reserve assets					Other investme	nt			
1999 an 5 95,316 93,940 20,312 1,568 6,863 56,167 1,376 9,628 95,688 1999 141,958 93,039 32,287 1,948 6,838 52,420 48,919 22,275 5,836 7,647 - 6,851 6,857 6,857 6,857 6,857 6,857 6,857 6,857 6,857 6,857 10,477 55,670 50,00 30,688 86,181 47,924 1,601 2,9222 21,110 7,857 6,65 9,501 - 10,928 7,733 35,776 1,839 43,149 29,975 32,907 9,918 66,194 1,757 14,493 11,577 14,493 37,716 12,202 11,550 15,551 22,578 2,776 12,928 2,775 2,923 3,775 59,318 - 7,118 2,910,21 15,646 3,999 15,541		Total	Total		drawing	position in	deposits and	Total	Clearing accounts within the			external position (col 1 minus
1999 141951 933151 32,287 19,48 56,387 76,275 - 17,827 92,87 19,417 2000 176,147 33,151 35,005 2,002 6,889 40,469 - 17,084 86,713 77,775 2001 19,344 85,002 35,053 1,540 6,669 37,578 18,259 4,474 454 88,764 12,094 2004 33,110 1,335 35,533 1,540 6,669 37,578 18,259 4,444 452 18,785 4,474 454 88,769 12,092 2005 110,288 86,181 1,767 1,709 7,765 12,020 115,660 5,399 92 4,467 13,328 4,141 4,363 2,775 17,065 2,227 17,559 7,468 2,72,81 2,754 2,754 2,754 2,754 2,72,81 2,72,81 2,72,81 2,72,81 2,72,81 2,74,64 3,313 5,055 3,72,81 3,72,81 3,72		1	2	3	4	5	6	7	8	9	10	11
2000 100,7c2 93,815 33,076 1.894 5,868 53,377 6,694 - 6,887 - 10,477 65,670 2003 103,948 65,002 33,028 1,888 6,638 40,522 18,780 4,4995 166 662,13 37,735 2004 93,110 71,335 35,495 1,512 5,036 22,222 21,110 7,835 665 99,014 - 90,014 2005 110,438 84,765 53,114 1,525 1,486 2,646 18,640 90,028 171,035 2,292	1999 Jan 5	95,316	93,940	29,312	1,598	6,863	56,167	1,376	-	-	9,628	85,688
2001 16,147 93,215 93,005 2.022 6.689 44,489 - 17,068 9,0875										-		
2002 010,948 85,949 65,609 1,688 6,584 4,052 1,78,95 4,945 1.66 65,713 77,725 2004 93,130 77,755 55,495 1,512 5,036 22,232 21,11 78,516 665 95,014 - 1,904 2005 130,268 86,181 1,725 1,486 23,264 43,184 25,866 5,339 928 134,077 - 30,308 2005 129,492 92,545 65,433 1,169 17,707 129,020 115,507 27,757 129,020 115,507 27,757 129,020 115,507 27,574 232,253 23,047 232,553 33,720 333,707 333,720 330,222 334,22 34,433 </td <td></td> <td></td> <td></td> <td>· · · ·</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>· · · ·</td> <td></td>				· · · ·							· · · ·	
2003 99,340 76,680 95,353 1,400 6,660 22,380 12,205 4,474 4,444 454 82,305 12,305 2005 193,208 66,181 17,935 1,601 2,248 2,248 22,936 60,50 113,607 1,303 2005 173,472 94,755 56,413 1,467 496 22,626 123,007 17,468 2,527 17,567 2,223 2007 173,472 99,185 66,413 1,467 496 27,073 337,98 177,935 7,468 2,47,64 7,7,141 2007 273,073 14,105 4,636 27,973 337,973 14,353 46,676 7,7,351 44,674 36,662 2,42,94 46,628 46,674 32,693 44,674 46,678 42,999 42,999 42,999 42,995 44,674 46,674 43,674 44,512 2,7,624 42,999 44,674 43,674 43,513 44,674 43,684 44,124 44,13 4											· · · ·	
2005 130,288 86,181 47,92 1,601 2,948 33,706 43,184 29,886 902 115,377 1,4,891 2007 174,942 92,545 62,433 1,469 949 27,694 84,040 71,046 2,252 176,569 2,723 2008 232,286 125,541 83,393 13,263 2,705 25,533 190,283 7,458 237,341 345,643 2010 224,645 161,100 115,493 114,645 46,658 27,973 325,533 24,674 237,341 346,623 242,144 2013 271,741 143,753 94,675 12,627 7,961 28,080 523,153 510,201 54,84 401,524 232,111 2014 680,799 159,552 119,253 14,4261 6,564 34,939 76,748 52,429 40,514 400,544 401,524 401,524 401,524 401,524 402,451 445,434 396,623 28,946 328,946 328,946 <td< td=""><td></td><td></td><td></td><td>· · · ·</td><td></td><td></td><td></td><td></td><td></td><td></td><td>· · · ·</td><td></td></td<>				· · · ·							· · · ·	
2006 104.898 84.765 53.114 1,225 1.486 28.640 84.260 7.196 2.221 11.650 2.323 1.4677 9.338 0.233 2.237.88 0.237.88 0.237.88 0.237.88 0.237.88 0.237.88 0.7.18 2005 233.364 1.25.541 3.3393 1.32.63 1.7.09 1.7.957 1.7.353 1.7.465 2.37.283 2.7.231 2.23.245 2.3.164 2.3.2.16 3.3.023 2.3.2.16 3.3.023 2.3.2.16 3.3.023 2.3.2.16 3.3.023 2.3.2.16 3.3.023 2.3.2.16 3.3.023 2.3.021 2.3.023 2.3.021 2.3.023 2.3.021 2.3.023 2.3.021 2.3.023 2.3.021 2.3.023 2.3.021 2.3.023 2.3.021 2.3.023 2.3.021				· ·							· ·	
2007 17.942 9.9485 6.6.194 1.469 9.949 27.694 8.4.20 17.045 2.2.27 17.659 2.7.231 2008 223.275 123.245 125.541 8.8.193 13.263 2.7.051 123.020 117.025 17.045 2.7.045 2.7.3.241 2.7.3.41 2.8.143 2010 221.020 184.603 137.313 13.083 8.6.761 2.8.7.74 668.071 635.070 63.070 444.993 444.993 400.032 2014 721.744 143.753 107.475 1.4.261 6.5.64 30.642 47.3.74 460.846 46.784 496.52 300.51 2015 500.079 175.65 119.553 14.935 7.9.65 27.505 490.917 47.468 47.575 609.909 306.193 303.123 2014 or 669.251 150.048 100.271 13.493 7.6.55 27.663 445.977 443.544 446.403 466.627 309.618 27.8.447 29.994 456.5377				· · · ·							· · · ·	
2008 230,775 99,185 66,394 1,576 1,709 27,075 129,020 115,603 2,570 227,893 2,757 2009 323,286 112,100 113,603 113,603 12,705 22,634 337,921 325,533 2,4674 273,414 251,454 2011 714,662 118,600 113,573 115,833 64,706 22,474 666,672 665,672 665,672 655,670 64,749 330,903 330,930 <td></td> <td></td> <td></td> <td>· · · ·</td> <td></td> <td>,</td> <td></td> <td>,</td> <td></td> <td></td> <td>· · · ·</td> <td></td>				· · · ·		,		,			· · · ·	
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2011 71,462 124,602 132,274 14,18 8,176 29,433 47,994 46,311 54,845 333,730 380,922 2012 921,002 188,630 137,513 13,583 8,760 28,774 666,72 655,670 63,700 64,499 494,909 320,171 2014 678,804 158,525 107,775 119,253 151,855 5122 334,23 596,638 584,210 44,539 493,509 330,719 2014 669,986 150,049 100,574 13,213 7,152 7,754 440,117 47,788 52,792 403,503 399,788 224,414 May 660,521 154,885 105,317 13,497 7,382 27,622 474,248 461,817 50,899 382,216 301,323 Sep 669,882 155,357 104,629 14,113 7,929 443,348 49,699 371,120 224,341 Agg 669,820 155,856 104,524 104,541 14,616	2009	323,286	125,541	83,939	13,263	2,705	25,634	190,288	177,935	7,458	247,645	75,641
2012 921,002 18,839 17,713 12,833 7,961 28,774 68,672 55,670 67,804 424,99 449,002 2013 721,741 143,753 94,875 142,67 62,800 532,153 510,201 54,834 401,524 320,17 2014 678,804 158,752 105,722 15,185 5,123 33,423 576,638 542,10 445,89 493,509 307,199 2016 990,450 150,049 100,524 13,213 7,922 27,554 490,117 47,788 52,792 403,518 299,425 2014 Apr 660,521 156,407 104,609 13,121 7,752 27,524 440,121 50,699 33,021 224,472 June 661,521 156,417 104,629 14,143 7,752 22,639 447,224 446,303 48,619 33,021 31,323 Sep 661,520 156,447 109,445 14,245 7,628 30,646 47,224 446,030 <				· · · ·							· ·	
2013 721,741 143,753 94,876 12,837 7,961 28,080 523,153 510,201 54,834 401,524 320,217 2014 878,894 158,745 107,775 14,261 5,132 33,423 596,858 584,210 44,539 499,050 307,199 2014 990,450 175,765 119,024 13,323 7,952 27,524 400,846 52,729 400,530 289,426 2014 990,450 150,048 101,564 13,927 7,753 407,527 445,548 405,577 445,548 461,817 396,678 289,426 389,9 668,1324 155,457 104,627 14,113 7,751 29,873 447,528 446,303 386,161 330,001 330,212 330,323 59,869 455,977 445,548 49,859 380,010 330,213 332,23 59,873 446,303 461,817 386,216 331,523 30,615 446,393 461,817 386,216 32,2451 330,301 355,41				· · · ·								
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2016 990,450 175,765 119,253 14,938 6,581 34,993 767,128 754,263 47,557 609,090 380,541 2014 Apr May 680,286 150,048 100,274 13,213 7,793 27,550 474,245 246,622 466,622 403,530 229,426 June 660,521 153,017 104,600 13,213 7,562 27,622 474,245 461,817 50,874 399,786 227,834 Aug 661,521 156,367 104,629 14,113 7,751 29,873 443,384 49,659 378,120 282,401 Sep 666,802 155,424 103,425 14,125 7,752 30,615 441,136 467,782 460,864 46,784 396,623 282,191 Nov 682,966 155,424 103,245 14,045 7,520 30,615 441,35 460,876 46,623 452,203 296,833 Nov 682,966 155,424 107,475 14,957 55,757 54,130 </td <td></td> <td></td> <td></td> <td>· · · ·</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>· ·</td> <td>· · · ·</td> <td></td>				· · · ·						· ·	· · · ·	
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July Aug Sep660,521 681,324 (566,822)154,885 156,411 156,417105,917 104,62913,947 13,794 14,1137,665 7,339 7,33928,406 29,973443,548 446,30349,699 446,303378,120 380,011282,401 310,323Oct Nov681,909 622,969 767,864155,424 155,424101,929 103,24514,125 102,4577,520 14,40430,645 7,520 30,615448,136 440,24446,786 460,86646,521 460,86636,645 46,78436,645 46,784282,345 282,1192015 Jan Feb Nar776,756177,721 176,741116,647 116,64714,956 15,3116,361 5,94433,157 5,5795525,795 5,31,36546,623 46,637443,548 46,637443,548 444,0682015 Jan May767,856177,724 176,741116,647 119,98814,956 15,1245,746 5,74434,833 5,679551,756 5,31,36546,623 46,637443,548 43,5366332,490July Apr T56,263767,850 168,299113,88815,122 15,1275,746 5,74434,833 3,536,617552,191 5,17446,058 44,66344,612 44,023316,029 316,029July Aug Sep T74,428163,916 168,29910,929 113,88815,126 15,1275,138 5,139557,321 3,34455,136 5,13944,657 44,45344,452 44,657337,764 44,453Adg Aug Sep Aug Sep Aug Mar163,921 163,93610,829 164,65715,127 5,12853,137 5,138 <t< td=""><td></td><td></td><td></td><td>· · · ·</td><td></td><td></td><td></td><td></td><td></td><td>· ·</td><td>· ·</td><td>· · ·</td></t<>				· · · ·						· ·	· ·	· · ·
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Sep696,802156,367104,62914,1137,75129,873449,248479,20048,08738,6216310,581Oct681,790154,133101,92914,1257,62830,650481,136468,786467,866467,786396,623285,345Dec678,080158,745107,47514,0457,62830,666480,294467,86646,784396,623282,1112015 Jan751,062776,741121,60714,8956,36134,157527,698515,26646,623444,069303,489Apr767,855176,742116,84214,9675,7966,38134,157527,995513,36546,637436,617325,820June752,623178,842118,14115,1245,74434,833538,619526,19146,039437,079321,421June756,263162,917110,887215,1705,1145,16454,620555,17444,657443,522337,764Aug788,500163,816110,01215,1725,1145,161555,103561,28444,657443,522337,764Sep774,428163,071108,87215,1755,139567,602555,17444,657443,522337,764Oct786,694166,66415,2765,1973,423567,602555,17444,657443,522337,764Peb833,336177,977112,85815,1755,19733,23656	July	660,521	154,885	105,317	13,497	7,665	28,406	455,977	443,548	49,659	378,120	282,401
Oct Nov681,790 682,969 678,804154,133 155,424101,229 103,24514,125 14,0457,628 7,520 6,636130,645 30,645480,294 467,866466,521 47,274396,445 400,850285,119 282,1192015 Jan Feb751,062 767,856176,741 172,120116,647 116,64714,895 14,9566,361 6,361 5,94433,751 5,5795551,365 544,13046,623 46,623444,069 446,684330,643 444,069Apr May762,637 756,263176,922 118,829118,141 118,14114,956 15,1245,744 5,74434,164 35,679532,192 544,13046,639 44,6039437,079 321,421July Apr Sep762,247 774,428163,071 161,92210,8592 113,83815,100 15,1025,174 3,19434,167 3,194555,013 543,50254,162 551,1344,657 44,639440,233 437,079321,421 316,029July Apr Apr Apr Sep166,664 110,82215,126 110,9295,199 14,94134,107 5,191555,013 3,844544,620 555,17444,617 44,46130,02,833 44,627July Apr Apr Apr166,664 80,909110,929 163,81615,126 16,9595,199 14,94133,033 5,191575,263 3,324854,152 555,17444,617 44,62130,02,833 3,336July Apr Feb 833,336166,664 112,86515,126 117,8475,191 14,49333,502 5,197555,174 3,3238562,818 542,81844,784 44,85344,852 <b< td=""><td>-</td><td></td><td></td><td>· · · ·</td><td></td><td></td><td></td><td></td><td></td><td></td><td>· · · ·</td><td></td></b<>	-			· · · ·							· · · ·	
Nov Dec682,969 678,804155,424 158,745103,245 110,7475114,045 14,2617,520 6,36430,645 30,645480,294 473,274467,866 46,86447,250 46,864400,850 396,623222,181 222,1812015 Jan Feb754,652 76,7856176,741 176,724121,607 119,98814,895 15,3116,361 5,94433,757 35,679551,565 544,13046,623 531,701440,609 46,804300,483 446,804Apr May762,437 75,563171,758 168,299116,812 118,81814,967 113,8385,796 5,617134,184 34,833544,620 531,051532,192 544,13046,058 46,6371440,033 46,030322,820 332,1421July Sep763,247 77,428163,071 162,997108,872 10,01214,934 15,1125,1164 5,1191555,013 3,844544,620 555,013552,158 543,864446,673 440,033316,029 337,764July Nov Reb 833,355162,917 163,816108,820 10,92215,156 110,0125,1176 14,9345,117 5,21713,320 3,337575,246 552,17444,657 44,932446,671 440,233316,029 307,1942016 Jan May May807,971 837,355164,565 177,917111,126 122,53515,197 122,53533,2749 15,19553,376 5,217567,600 33,37443,888 584,210485,028 43,959322,943 33,7452016 Jan May May May884,887 83,365175,738 133,273111,126 122,55214,793 15	Sep	696,802	156,367	104,629	14,113	7,751	29,873	492,348	479,920	48,087	386,216	310,586
Dec678,804158,745107,47514,2616,36430,646473,274460,84646,784396,623282,1812015 Jan Feb744,552176,721121,60714,8956,48833,751527,698515,26646,623444,069300,483Mar767,856176,922119,98815,11544,157524,180531,70146,603444,069332,490Apr Mar756,263177,3242116,81214,9565,79634,184544,620522,19246,058436,079321,421June756,263168,299113,83815,0005,61733,844543,502551,01344,063447,023316,029July763,247163,071108,87215,1724,91934,107555,013542,85545,162446,157317,090Aug781,286166,291110,01215,1724,91934,107555,17444,463443,522337,764Sep774,428161,922108,95914,9445,19132,831567,602555,17444,657443,522337,764Oct786,694166,664112,83615,1755,19733,623575,246562,81844,858491,813321,506Nov813,320163,816108,82015,1755,19733,623596,638584,21044,4558493,509307,1992016 Jan807,971164,656111,26515,1975,19733,378567,62												
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Apr May May June762,437 758,500171,758 173,842116,812 118,14114,967 15,124 15,1245,766 5,77434,833 3,844544,620 5,31,074522,192 46,03846,058 46,039436,617 44,023325,820 321,421July Aug Sep763,247 774,428163,071 162,917108,872 110,01215,172 14,9344919 5,16434,107 32,807555,013 573,712542,585 561,28444,617 44,657443,522 443,522337,764 337,764Oct Nov Dec786,694 800,709166,664 159,532112,836 105,79215,172 15,1855,197 5,21734,303 3,604,946562,818 592,51844,588 44,588447,882 443,539311,811 321,5062016 Jan Mar Mar 837,375807,971 171,266111,126 111,78415,055 117,9175,197 122,53533,728 3,302596,638 6,629584,210 6,63943,888 485,028485,028 43,985322,937 33,774Apr May May 884,887175,738 173,927121,562 118,13 14,9976,759 6,78033,946 3,3946663,201 6,7972655,744 6,61,017663,20 6,61,017663,20 6,61,017663,20 6,61,017663,20 6,61,017663,20 6,61,017663,20 6,61,017663,20 6,61,017663,20 6,61,017663,20 6,61,017663,20 6,61,017663,20 6,61,017663,20 6,61,017663,20 6,61,017663,20 6,61,017663,20 6,61,017663,20 6,61,017663,20 6,61,017663,20 6,61,017 <td></td> <td></td> <td></td> <td>· · · ·</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>				· · · ·								
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June756,263168,299113,83815,0005,61733,844543,502531,07444,461440,233316,029July763,247163,071108,87215,1724,91934,107555,013542,58545,162446,157317,000Aug781,286162,917110,01214,9345,16432,807573,712561,28444,657443,522337,764Sep774,428161,922108,95914,9415,19132,831567,602555,17444,903466,216308,212Oct786,694166,664112,83615,1265,19933,503575,246562,81844,784474,882311,811Nov813,320163,816108,82015,4755,21734,303604,946552,51844,558491,813321,506Dec800,709159,532105,79215,1855,19733,278599,427587,00043,888485,028322,943Feb837,375177,266117,84414,7306,73031,962617,617609,19044,491504,474323,22943Mar837,375171,266117,84414,7306,75932,623638,201625,77442,327505,222351,044Mar837,375171,266117,84414,7306,78034,439667,972655,54442,988502,22,762357,311Mar837,375171,26514,7936,78034,439667,972 <td< td=""><td></td><td></td><td></td><td>· · · ·</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>				· · · ·								
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Nov813,320163,816108,82015,4755,21734,303660,496592,51844,558491,813321,506Dec800,709159,532105,79215,1855,13233,423596,638584,21044,55944,559493,509307,1992016 Jan807,971164,656111,12615,0555,19733,278599,427587,00043,888485,028322,943Feb839,336177,917122,53515,1096,89933,374617,434605,00643,985501,590337,745Mar856,266175,738121,56214,7306,75932,623638,201625,77442,327505,222351,044May884,887173,927118,13314,9706,83933,984667,972655,54442,988508,57637,6311July904,044186,300130,41714,6986,73634,449672,748660,32044,996525,468378,577July918,692183,951128,17114,6856,64234,452689,906677,47944,834534,120384,572	•	, .	. ,.	· ·								
Dec 800,709 159,532 105,792 15,185 5,132 33,423 596,638 584,210 44,539 493,509 307,199 2016 Jan 807,971 164,656 111,126 15,055 5,197 33,278 599,427 587,000 43,888 485,028 322,943 Feb 839,336 177,917 122,535 15,109 66,899 33,374 617,434 605,006 43,985 501,590 337,745 Mar 856,266 175,738 121,562 14,793 66,759 32,623 638,201 625,774 42,327 505,222 351,045 May 884,887 173,927 118,133 14,970 66,399 33,984 667,972 655,544 42,988 508,576 376,311 June 922,232 184,628 128,963 14,746 67,80 34,439 667,972 655,544 42,988 508,576 376,311 Juny 904,044 186,300 130,417 14,698 67,36 34,449 <td></td>												
Feb839,336177,917122,53515,1096,89933,374617,434605,00643,985501,590337,745Mar837,375171,266117,84414,7306,73031,962621,617609,19044,491504,447332,928Apr856,266175,738121,56214,7936,75932,623638,201625,77442,327505,222351,045May884,887173,927118,13314,9706,83933,984667,972655,54442,988508,576376,311June922,232184,628128,96314,7466,78034,439693,498660,32044,996525,468378,577July904,044186,300130,41714,6986,73634,442660,320667,77944,834534,120384,572Aug918,692183,951128,17114,6856,64234,452689,906677,47944,834534,120384,572	Dec	800,709	159,532	105,792	15,185	5,132	33,423	596,638	584,210	44,539	493,509	307,199
Feb839,336177,917122,53515,1096,89933,374617,434605,00643,985501,590337,745Mar837,375171,266117,84414,7306,73031,962621,617609,19044,491504,447332,928Apr856,266175,738121,56214,7936,75932,623638,201625,77442,327505,222351,045May884,887173,927118,13314,9706,83933,984667,972655,54442,988508,576376,311June922,232184,628128,96314,7466,78034,439693,498660,32044,996525,468378,577July904,044186,300130,41714,6986,73634,442660,320667,77944,834534,120384,572Aug918,692183,951128,17114,6856,64234,452689,906677,47944,834534,120384,572	2016 Jan	807,971	164,656	111,126	15,055	5,197	33,278	599,427	587,000	43,888	485,028	322,943
Apr856,266175,738121,56214,7936,75932,623638,201625,77442,327505,222351,045May884,887173,927118,13314,9706,83933,984667,972655,54442,988508,576376,311June922,232184,628128,96314,7466,78034,139693,498681,07044,106522,762399,470July904,044186,300130,41714,6986,73634,449672,748660,32044,996525,468378,577Aug918,692183,951128,17114,6856,64234,452689,906677,47944,834534,120384,572		839,336	177,917		15,109	6,899	33,374	617,434	605,006	43,985	501,590	337,745
May884,887173,927118,13314,9706,83933,984667,972655,54442,988508,576376,311June922,232184,628128,96314,7466,78034,139693,498681,07044,106522,762399,470July904,044186,300130,41714,6986,73634,449672,748660,32044,996525,468378,577Aug918,692183,951128,17114,6856,64234,452689,906677,47944,834534,120384,572	Mar	837,375	171,266	117,844	14,730	6,730	31,962	621,617	609,190	44,491	504,447	332,928
June922,232184,628128,96314,7466,78034,139693,498681,07044,106522,762399,470July904,044186,300130,41714,6986,73634,449672,748660,32044,996525,468378,577Aug918,692183,951128,17114,6856,64234,452689,906677,47944,834534,120384,572	Apr	856,266	175,738	121,562	14,793	6,759	32,623	638,201	625,774	42,327	505,222	351,045
July 904,044 186,300 130,417 14,698 6,736 34,449 672,748 660,320 44,996 525,468 378,577 Aug 918,692 183,951 128,171 14,685 6,642 34,452 689,906 677,479 44,834 534,120 384,572				· · · ·							· · · ·	
Aug 918,692 183,951 128,171 14,685 6,642 34,452 689,906 677,479 44,834 534,120 384,572												
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Oct 947,718 181,623 126,245 14,708 6,631 34,039 720,795 708,029 45,300 556,076 391,642 Nov 991,108 177,348 121,032 14,917 6,572 34,826 766,905 754,057 46,855 567,692 423,417				· ·							· · · ·	
Dec 990,450 175,765 119,253 14,938 6,581 34,993 767,128 754,263 47,557 609,909 380,541												

o Assets and liabilities vis-à-vis all countries within and outside the euro area. Up to December 2000, the levels at the end of each quarter are shown, owing to revaluations, at market prices; within each quarter, however, the levels are computed on the basis of cumulative transaction values. From January 2001, all end-of-month levels are valued at market prices. **1** Mainly net claims on TARGET2 balances (according to

the respektive country designation), since November 2000 also balances with non-euro-area central banks within the ESCB. **2** Mainly long-term debt securities from issuers within the euro area. **3** Including estimates of currency in circulation abroad. **4** See Deutsche Bundesbank, Monthly Report, October 2014, p 22. **5** Euro opening balance sheet of the Bundesbank as at 1 January 1999.

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XII External sector

9 Assets and liabilities of enterprises in Germany (other than banks) vis-à-vis non-residents *

6 million

	€ million																				
	Claims on no	on-residents						Liabilities vis	-à-vis non-re	sidents											
			Claims on fo	oreign non-ba	anks					Liabilities vis-	à-vis foreign	non-banks									
					from trade of	credits						from trade of	redits								
End of year or month	Total	Balances with foreign banks	Total	from financial operations	Total	Credit terms granted	Advance payments effected	Total	Loans from foreign banks	Total	from financial operations	Total	Credit terms used	Advance payments received							
	All coun	tries																			
2012 2013 2014 2015	740,809 785,507 822,028 852,363	271,964 281,970 278,523 264,278	468,845 503,537 543,506 588,085	294,248 323,869 357,855 395,013	174,597 179,668 185,651 193,072	158,825 164,454 170,854 178,495	15,772 15,214 14,797 14,576	910,837 936,110 939,809 976,497	170,262 143,112 150,429 142,494	740,575 792,998 789,379 834,003	578,391 630,740 624,860 652,968	162,184 162,258 164,519 181,035	94,292 95,301 98,104 108,750	67,892 66,957 66,415 72,285							
2016 June July Aug Sep Oct r Nov	880,231 872,867 864,498 870,194 868,602 873,837	275,683 269,516 271,893 265,904 258,934 253,417	604,547 603,351 592,605 604,290 609,668 620,419	404,619 408,811 405,951 406,265 411,026 418,119	199,928 194,540 186,654 198,025 198,641 202,301	184,927 179,557 171,668 182,902 183,661 187,438	15,001 14,984 14,986 15,123 14,980 14,862	1,051,943 1,025,343 1,018,942 1,029,233 1,026,651 1,029,780	151,906 137,347 133,955 131,609 131,181 128,304	900,037 887,996 884,987 897,624 895,470 901,476	715,827 708,327 710,397 715,495 711,550 716,143	184,209 179,669 174,589 182,129 183,921 185,334	109,968 105,137 99,789 107,804 108,769 110,678	74,241 74,532 74,800 74,325 75,151 74,655							
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2012 2013 2014 2015	653,244 694,860 720,924 747,289	269,560 278,667 273,624 260,378	383,684 416,194 447,300 486,912	265,387 294,116 321,894 354,225	118,297 122,077 125,406 132,687	104,957 108,620 112,308 119,558	13,339 13,458 13,098 13,129	824,118 849,161 851,172 881,625	167,853 141,744 149,212 137,526	656,265 707,417 701,960 744,099	542,976 593,197 585,678 617,932	113,289 114,219 116,282 126,168	79,107 79,543 81,103 89,593	34,181 34,676 35,179 36,575							
2016 June July Aug Sep Oct r	773,332 767,312 760,349 765,037 761,601	271,873 265,844 268,276 262,134 255,158	501,459 501,468 492,073 502,903 506,444	363,357 368,406 365,959 366,502 370,239	138,102 133,062 126,114 136,401 136,205	124,648 119,682 112,725 122,931 122,795	13,454 13,380 13,389 13,471 13,410	950,300 930,002 922,549 934,092 932,199	141,757 132,545 128,036 125,582 126,322	808,543 797,457 794,514 808,510 805,877	680,114 673,228 675,080 681,410 676,951	128,428 124,229 119,434 127,099 128,925	91,144 87,151 82,278 90,063 91,367	37,285 37,078 37,155 37,036 37,558							
Nov	766,418 EU mei	249,476	516,942	376,876	140,066	126,728	13,338	935,971	123,939	812,032	682,093	129,939	92,754	37,185							
2012 2013 2014 2015	541,602 586,790 606,568 613,734	247,534 264,116 258,507 242,218	294,068 322,674 348,061 371,516	209,426 235,608 259,475 276,868	84,642 87,066 88,585 94,648	74,167 76,539 77,975 84,071	10,474 10,527 10,611 10,577	695,152 710,428 712,497 725,496	156,550 127,372 134,943 127,114	538,602 583,057 577,555 598,383	458,488 503,394 496,878 513,560	80,114 79,662 80,677 84,823	53,607 53,339 53,797 58,469	26,507 26,323 26,880 26,354							
2016 June July Aug Sep	636,918 632,816 628,502 629,382	254,792 248,022 251,471 244,777	382,126 384,794 377,032 384,605	284,614 291,338 288,412 288,917	97,513 93,456 88,620 95,688	86,675 82,665 77,811 84,849	10,838 10,791 10,809 10,840	778,440 762,484 754,013 760,149	128,084 122,432 118,565 114,895	650,357 640,052 635,448 645,254	564,103 557,228 555,534 559,864	86,253 82,824 79,913 85,390	59,287 56,116 53,039 58,731	26,966 26,708 26,874 26,659							
Oct r Nov	622,234 623,751	236,265 231,000	385,969 392,752	288,829 293,058	97,140 99,694	86,414 89,135	10,725 10,559	757,569 761,533	114,658 113,900	642,910 647,633	555,692 559,853	87,219 87,780	60,346 61,063	26,872 26,717							
	of whic	ch: Euro-	area men	nber stat	es ²																
2012 2013 2014 2015	392,642 427,049 449,392 457,947	188,317 197,297 203,069 195,011	204,325 229,752 246,323 262,936	149,452 173,609 189,755 201,414	54,873 56,143 56,568 61,522	48,975 49,968 50,348 54,913	5,898 6,175 6,220 6,609	572,475 602,056 598,660 589,407	110,053 101,150 105,883 91,735	462,423 500,906 492,777 497,672	408,485 447,404 440,290 444,542	53,937 53,502 52,487 53,130	36,741 36,670 35,568 37,976	17,196 16,832 16,919 15,155							
2016 June July Aug Sep	469,798 463,405 462,132 462,490	198,645 194,782 196,653 189,648	271,153 268,623 265,478 272,842	207,677 207,441 207,231 210,493	63,476 61,182 58,248 62,349	56,689 54,455 51,495 55,565	6,787 6,727 6,752 6,784	634,180 621,855 619,740 623,563	96,858 92,779 90,989 87,086	537,322 529,076 528,751 536,477	482,312 476,124 477,999 482,658	55,011 52,952 50,751 53,820	39,693 37,770 35,495 39,029	15,318 15,182 15,256 14,791							
Oct r Nov	455,585 453,290						6,687 6,642	619,908 614,905	86,221 80,742	533,686 534,163	478,599 478,805	55,087 55,358	40,150 40,642	14,938 14,717							
	Emergin	g econor	nies and	developi	ng count	ries ³															
2012 2013 2014 2015	87,552 90,640 101,101 104,086	2,404 3,303 4,899 3,093	85,147 87,337 96,202 100,994	28,858 29,751 35,957 40,788	56,289 57,586 60,244 60,205	53,856 55,829 58,546 58,758	2,432 1,757 1,699 1,448	86,688 86,946 88,634 90,701	2,409 1,368 1,217 997	84,279 85,578 87,417 89,704	35,415 37,543 39,182 34,836	48,864 48,035 48,235 54,868	15,181 15,755 17,001 19,157	33,683 32,280 31,234 35,710							
2016 June July Aug Sep Oct r Nov	105,866 104,512 102,872 103,847 105,662 106,046	2,995 2,855 2,566 2,676 2,646 2,791	102,871 101,656 100,306 101,171 103,016 103,255	41,228 40,370 39,957 39,729 40,753 41,207	61,643 61,286 60,348 61,443 62,263 62,048	60,096 59,682 58,751 59,790 60,693 60,524	1,547 1,604 1,597 1,653 1,570 1,524	92,780 91,998 91,505 90,013 90,519 90,439	1,526 1,659 1,272 1,156 1,208 1,252	91,254 90,339 90,232 88,857 89,311 89,187	35,513 34,900 35,118 33,885 34,373 33,850	55,741 55,440 55,115 54,972 54,938 55,337	18,785 17,986 17,470 17,701 17,362 17,884	36,956 37,453 37,645 37,272 37,576 37,453							

* The assets and liabilities vis-à-vis non-residents of banks (MFIs) in Germany are shown in Table 4 of Section IV, "Banks". Statistical increases and decreases have not been eliminated; to this extent, the changes in totals are not comparable with the figures shown in Table XI.7. From December 2012 onwards, the results base on a extended survey and a new calculation method. **1** From July 2013 including

Croatia. **2** From January 2011 including Estonia; from January 2014 including Latvia; from January 2015 including Lithuania. **3** All countries that are not regarded as industrial countries. From January 2011 including Bonaire, St.Eustatius, Saba and Curacao and St.Martin (Dutch part); up to June 2013 including Croatia. **r** Corrected.

10 ECB's euro foreign exchange reference rates of selected currencies *

	EUR 1 = currency units												
Yearly or monthly	Australia	Canada	China	Denmark	Japan	Norway	Sweden	Switzerland	United Kingdom	United States			
average	AUD	CAD	CNY 1	DKK	JPY	NOK	SEK	CHF	GBP	USD			
1999	1.6523	1.5840		7.4355	121.32	8.3104	8.8075	1.6003	0.65874	1.0658			
2000	1.5889	1.3706	2 7.6168	7.4538	99.47	8.1129	8.4452	1.5579	0.60948	0.9236			
2001	1.7319	1.3864	7.4131	7.4521	108.68	8.0484	9.2551	1.5105	0.62187	0.8956			
2002	1.7376	1.4838	7.8265	7.4305	118.06	7.5086	9.1611	1.4670	0.62883	0.9456			
2003	1.7379	1.5817	9.3626	7.4307	130.97	8.0033	9.1242	1.5212	0.69199	1.1312			
2004	1.6905	1.6167	10.2967	7.4399	134.44	8.3697	9.1243	1.5438	0.67866	1.2439			
2005 2006 2007 2008 2009	1.6320 1.6668 1.6348 1.7416 1.7727	1.5087 1.4237 1.4678 1.5594 1.5850	10.1955 10.0096 10.4178 10.2236 9.5277	7.4518 7.4591 7.4506 7.4560 7.4560 7.4462	136.85 146.02 161.25 152.45 130.34	8.0092 8.0472 8.0165 8.2237 8.7278	9.2822 9.2544 9.2501 9.6152 10.6191	1.5483 1.5729 1.6427 1.5874 1.5100	0.68380 0.68173 0.68434 0.79628 0.89094	1.2441 1.2556 1.3705 1.4708 1.3948			
2010	1.4423	1.3651	8.9712	7.4473	116.24	8.0043	9.5373	1.3803	0.85784	1.3257			
2011	1.3484	1.3761	8.9960	7.4506	110.96	7.7934	9.0298	1.2326	0.86788	1.3920			
2012	1.2407	1.2842	8.1052	7.4437	102.49	7.4751	8.7041	1.2053	0.81087	1.2848			
2013	1.3777	1.3684	8.1646	7.4579	129.66	7.8067	8.6515	1.2311	0.84926	1.3281			
2014	1.4719	1.4661	8.1857	7.4548	140.31	8.3544	9.0985	1.2146	0.80612	1.3285			
2015	1.4777	1.4186	6.9733	7.4587	134.31	8.9496	9.3535	1.0679	0.72584	1.1095			
2016	1.4883	1.4659	7.3522	7.4452	120.20	9.2906	9.4689	1.0902	0.81948	1.1069			
2016 Jan	1.5510	1.5447	7.1393	7.4619	128.32	9.5899	9.2826	1.0941	0.75459	1.0860			
Feb	1.5556	1.5317	7.2658	7.4628	127.35	9.5628	9.4105	1.1018	0.77559	1.1093			
Mar	1.4823	1.4697	7.2220	7.4569	125.39	9.4300	9.2848	1.0920	0.78020	1.1100			
Apr	1.4802	1.4559	7.3461	7.4427	124.29	9.3224	9.2027	1.0930	0.79230	1.1339			
May	1.5461	1.4626	7.3864	7.4386	123.21	9.3036	9.2948	1.1059	0.77779	1.1311			
June	1.5173	1.4477	7.4023	7.4371	118.45	9.3278	9.3338	1.0894	0.79049	1.1229			
July	1.4694	1.4428	7.3910	7.4390	115.25	9.3690	9.4742	1.0867	0.84106	1.1069			
Aug	1.4690	1.4557	7.4537	7.4408	113.49	9.3030	9.4913	1.0881	0.85521	1.1212			
Sep	1.4768	1.4677	7.4819	7.4475	114.22	9.1971	9.5655	1.0919	0.85228	1.1212			
Oct	1.4470	1.4594	7.4198	7.4402	114.47	9.0009	9.7073	1.0887	0.89390	1.1026			
Nov	1.4331	1.4519	7.3883	7.4406	116.93	9.0807	9.8508	1.0758	0.86894	1.0799			
Dec	1.4356	1.4070	7.2983	7.4362	122.39	9.0252	9.7095	1.0750	0.84441	1.0543			

 \star Averages: Bundesbank calculations based on the daily euro foreign exchange reference rates published by the ECB; for additional euro foreign exchange reference

rates, see Statistical Supplement 5, Exchange rate statistics. **1** Up to March 2005, ECB indicative rates. **2** Average from 13 January to 29 December 2000.

11 Euro-area member states and irrevocable euro conversion rates in the third stage of European Economic and Monetary Union

From	Country	Currency	ISO currency code	EUR 1 = currency units
1999 January 1	Austria	Austrian schilling	ATS	13.7603
	Belgium	Belgian franc	BEF	40.3399
	Finland	Finnish markka	FIM	5.94573
	France	French franc	FRF	6.55957
	Germany	Deutsche Mark	DEM	1.95583
	Ireland	Irish pound	IEP	0.787564
	Italy	Italian lira	ITL	1,936.27
	Luxembourg	Luxembourg franc	LUF	40.3399
	Netherlands	Dutch guilder	NLG	2.20371
	Portugal	Portuguese escudo	PTE	200.482
	Spain	Spanish peseta	ESP	166.386
2001 January 1	Greece	Greek drachma	GRD	340.750
2007 January 1	Slovenia	Slovenian tolar	SIT	239.640
2008 January 1	Cyprus	Cyprus pound	СҮР	0.585274
	Malta	Maltese lira	MTL	0.429300
2009 January 1	Slovakia	Slovak koruna	SKK	30.1260
2011 January 1	Estonia	Estonian kroon	EEK	15.6466
2014 January 1	Latvia	Latvian lats	LVL	0.702804
2015 January 1	Lithuania	Lithuanian litas	LTL	3.45280

XII External sector

12 Effective exchange rates of the Euro and indicators of the German economy's price competitiveness *

$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		1999 Q1=100														
Period Imail and an addition of the full sector o		Effective exchar	nge rate of the Eu	uro				Indicators of the German economy's price competitiveness								
Image Image <th< td=""><td></td><td>EER-19 1</td><td></td><td></td><td></td><td>EER-38 2</td><td></td><td>Based on the de</td><td>flators of total s</td><td>ales 3</td><td></td><td>Based on consu</td><td>mer price indices</td><td></td></th<>		EER-19 1				EER-38 2		Based on the de	flators of total s	ales 3		Based on consu	mer price indices			
Image:				In real terms	In real terms			26 selected indu	strial countries	5						
1999 963 960 961 960 965 95.8 97.6 99.5 95.8 97.6 98.2 98.0 97.9 2000 87.1 86.5 85.5 87.9 85.6 97.5 99.5 95.4 85.1 90.7 95.5 97.5 94.8 97.5 94.8 97.5 94.8 97.5 94.8 97.5 94.8 97.5 94.8 97.5 94.8 97.5 94.8 97.5 94.8 97.5 94.8 97.5 94.8 97.5 94.8 97.5 94.8 97.5 98.5 96.6 96.5 99.0 97.5 99.0 92.9 98.5 96.6 96.5 99.0 99.0 92.9 98.5 96.6 96.5 99.0 99.0 92.9 98.5 98.6 96.5 99.0 99.0 92.9 98.5 98.6 96.5 99.0 99.0 92.9 99.0 92.9 99.0 92.9 99.0 92.9 99.0 92.9 <td>Period</td> <td>Nominal</td> <td>terms based on consumer</td> <td>based on the deflators of gross domestic</td> <td>unit labour costs of national</td> <td>Nominal</td> <td>terms based on consumer</td> <td>Total</td> <td></td> <td>euro-area</td> <td></td> <td>selected industrial</td> <td></td> <td></td>	Period	Nominal	terms based on consumer	based on the deflators of gross domestic	unit labour costs of national	Nominal	terms based on consumer	Total		euro-area		selected industrial				
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$														97.7		
2006 102.8 103.5 100.4 101.2 109.4 101.8 93.5 99.4 91.2 99.6 69.5 99.9 2008 100.4 106.2 107.5 110.6 117.9 100.8 94.5 88.6 105.4 90.5 100.2 97.8 99.9 2009 110.6 101.3 96.2 103.5 111.5 97.8 92.2 88.6 90.6 98.3 98.4 98.2 97.6 86.3 98.3 98.6 98.3 98.6 98.3 98.6 98.3 98.6 98.3 98.6 98.3 98.6 98.3 98.6 98.5 99.9 97.5 98.7 98.7 98.7 98.7 98.7 98.7 98.7 98.7 98.7 98.7 98.7 98.7 98.7 98.7 98.7 <td< td=""><td>2000 2001 2002 2003 2004</td><td>87.1 87.8 90.1 100.7 104.5</td><td>86.5 87.1 90.2 101.2 105.0</td><td>85.9 86.5 89.5 100.4 103.3</td><td>85.2 86.1 89.5 100.8 104.3</td><td>87.9 90.5 95.0 106.9 111.5</td><td>85.8 86.9 90.5 101.4 105.1</td><td>91.7 91.5 92.2 95.6 95.9</td><td>97.3 96.4 95.4 94.5 93.3</td><td>85.1 85.9 88.4 97.5 99.9</td><td>90.7 90.0 90.6 94.8 95.0</td><td>92.9 92.9 93.5 97.1 98.5</td><td>91.9 91.4 91.9 96.5 98.0</td><td>90.8 90.8 91.7 96.7 98.3</td></td<>	2000 2001 2002 2003 2004	87.1 87.8 90.1 100.7 104.5	86.5 87.1 90.2 101.2 105.0	85.9 86.5 89.5 100.4 103.3	85.2 86.1 89.5 100.8 104.3	87.9 90.5 95.0 106.9 111.5	85.8 86.9 90.5 101.4 105.1	91.7 91.5 92.2 95.6 95.9	97.3 96.4 95.4 94.5 93.3	85.1 85.9 88.4 97.5 99.9	90.7 90.0 90.6 94.8 95.0	92.9 92.9 93.5 97.1 98.5	91.9 91.4 91.9 96.5 98.0	90.8 90.8 91.7 96.7 98.3		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	2006 2007 2008 2009	102.8 106.3 109.4 110.8	103.5 106.2 108.3 109.0	100.4 102.3 103.7 104.5	101.2 103.5 106.8 111.5	109.4 112.9 117.1 120.0	101.8 103.8 105.8 106.8	93.5 94.4 94.5 94.7	90.3 89.4 88.0 88.8	98.4 102.4 105.4 104.6	91.2 91.4 90.5 91.0	98.6 100.9 102.2 101.8	96.5 97.9 97.8 98.0	96.6 95.8 97.0 97.1 97.5		
2016 94.8 90.1 110.4 9 90.0 9 92.2 9 87.8 9 87.8 9 87.8 9 87.8 9 87.8 9 87.8 9 87.8 97.9 97.6 97.9 97.6 97.9 97.6 97.7 97.6 97.7 97.6 97.7 97.6 97.7 97.6 97.7 97.6 97.7 97.6 97.7 97.6 97.7 97.6 97.7 97.6 97.7 97.6 97.7 97.6 97.7 97.6 97.7 97.6 97.7 97.6 97.7 <td>2011 2012 2013 2014</td> <td>103.3 97.6 101.2 101.8</td> <td>100.2 95.0 98.2 97.8</td> <td>94.1 88.6 91.7 91.9</td> <td>102.1 95.9 99.0 100.0</td> <td>112.2 107.0 111.9 114.7</td> <td>97.2 92.4 95.5 96.0</td> <td>91.8 90.0 92.4 93.2</td> <td>88.2 88.2 88.7 89.6</td> <td>97.6 92.6 98.4 98.9</td> <td>86.3 83.7 85.7 86.5</td> <td>98.2 95.9 98.3 98.5</td> <td>92.8 89.8 91.6 91.8</td> <td>92.0 91.3 88.2 90.3 91.0</td>	2011 2012 2013 2014	103.3 97.6 101.2 101.8	100.2 95.0 98.2 97.8	94.1 88.6 91.7 91.9	102.1 95.9 99.0 100.0	112.2 107.0 111.9 114.7	97.2 92.4 95.5 96.0	91.8 90.0 92.4 93.2	88.2 88.2 88.7 89.6	97.6 92.6 98.4 98.9	86.3 83.7 85.7 86.5	98.2 95.9 98.3 98.5	92.8 89.8 91.6 91.8	92.0 91.3 88.2 90.3 91.0		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $								1								
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Feb	103.2	99.6	93.6	101.9	116.3	98.2	93.6	89.2	100.6	87.1	99.0	92.6	91.9 92.0 92.4		
Δu^{0}_{9} 101.5 97.5 91.2 99.5 111.2 93.9 92.9 89.7 98.1 86.2 98.4 91.8 91.8 91.8 91.6 99.1 99.0 99.0 94.9 99.0 94.9 99.0 94.9 99.0 94.8 91.7 111.1 93.2 92.7 90.0 97.0 85.5 97.7 90.4 88.5 2015 Jan 95.2 91.1 89.5 89.5 89.7 88.4 91.8 90.1 90.7 90.4 91.0 83.1 95.7 88.2 88	May	103.6	99.5	93.3	101.4	116.1	97.3	93.5	89.5	99.9	87.2	98.8	92.6	92.2 91.5 91.2		
Nov 99.0 94.9 89.5 97.4 111.9 93.2 92.7 90.0 97.0 85.5 97.7 90.4 83.7 2015 Jan 95.2 91.1 113.8 93.8 90.7 90.0 97.0 85.5 97.7 90.2 88.7 Mar 90.6 89.7 89.7 89.7 88.7 90.7 90.4 88.7 97.7 89.7 88.7 98.7 88.7 97.7 99.4 97.6 97.6 97.6 97.6 97.6 97.6 97.7 98.4 97.7 98.7 98.7 88.7 97.7 98.7 98.7 98.7 88.7 98.7	Aug	101.5	97.5	91.2	99.5	114.0	95.3	92.9	89.7	98.1	86.2	98.4	91.8	91.0 90.7 89.9		
Feb 93.3 89.5 84.2 \mathbf{p} 91.8 107.0 88.7 90.7 90.4 91.0 83.1 95.2 87.5 88.7 Apr 89.7 86.1 87.8 87.8 82.4 \mathbf{p} 89.8 102.4 84.7 90.4 90.6 89.8 82.4 94.0 85.7 86.6 94.0 85.7 94.0 85.7 94.0 85.7 94.0 85.7 94.0 89.8 82.4 94.0 85.7 86.8 90.4 90.6 89.8 82.4 94.0 85.7 86.8 90.4 90.6 89.8 82.4 94.9 86.6 94.3 86.3 86.8 90.6 90.8 91.0 90.8 91.0 90.8 91.0 90.8 91.0 90.8 91.0 90.8 91.0 90.8 91.0 90.8 91.0 90.8 91.0 90.8 91.0 90.8 91.0 90.8 91.0 90.8 91.0 90.8 91.0 90.8 91.0 90.8 91.0 91.0 90.8 91.0 91.0 91.0	Nov Dec	99.0 99.0	94.9	89.5	97.4	111.9 113.1	93.2 93.8	92.7	90.0	97.0	85.5	97.7 97.6	90.4	89.4 89.5 89.8		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Feb	93.3	89.5	84.2	p 91.8	107.0 103.8	88.7 85.9	90.7	90.4	91.0	83.1	95.2	87.5	87.5 86.8 85.2		
Aug 93.0 88.9 84.1 P 91.2 108.1 88.9 91.0 90.8 91.0 83.4 94.9 87.2 87.6 87.6 Sep 93.8 89.6 89.6 90.1 109.0 90.1 90.1 90.8 91.0 83.4 94.9 95.1 87.6 <td< td=""><td>May</td><td>91.6 92.3</td><td>87.8 88.5</td><td>82.4</td><td>p 89.8</td><td>104.7 106.0</td><td>86.5</td><td>90.4</td><td>90.6</td><td>89.8</td><td>82.4</td><td>94.6</td><td>86.6</td><td>84.5 85.6 86.1</td></td<>	May	91.6 92.3	87.8 88.5	82.4	p 89.8	104.7 106.0	86.5	90.4	90.6	89.8	82.4	94.6	86.6	84.5 85.6 86.1		
Nov Dec 91.1 92.5 87.1 88.3 87.1 88.3 90.6 106.0 108.0 p 86.8 88.3 91.0 91.0 90.8 83.5 94.1 94.3 86.3 86.7 p 86.3 86.7 p 86.3 86.7 p 86.3 p 86.3 91.0 91.0 90.8 83.5 94.1 86.3 p 86.3 p 86.3 p 86.3 p 86.3 p 91.0 90.8 81.0 p 94.3 86.3 p 86.3 p 91.0 90.8 91.0 90.8 91.0 90.8 91.0 91.0 90.8 83.5 94.1 86.3 p 86.3 p 91.0 90.8 91.0	Aug	93.0	88.9	84.1	p 91.2	108.1	88.9	91.0	90.8	91.0	83.4	94.9	87.2	85.6 87.0 87.7		
Feb Mar 94.7 90.0 P 85.6 P 91.9 111.3 P 90.8 91.4 91.2 91.5 84.2 94.9 87.6 P 97.7 91.7 91.7 91.7 91.7 91.7 91.7 91.7 91.7 91.7 91.7 91.7 91.7 91.7 <	Nov	91.1	87.1	84.1	p 90.6	106.0	p 86.8	91.0	91.0	90.8	83.5	94.1	86.3			
May June 95.1 90.5 P 86.1 P 92.2 111.1 P 90.7 91.5 91.2 91.7 84.5 95.2 88.1 P 85.3 July 94.7 90.2 90.4 110.5 P 89.9 95.2 95.4 95.2 87.9 P 97.9 P 97.1 P 97.1 P 97.1 P 97.1 P 97.1 P 97	Feb	94.7	90.0	p 85.6	p 91.9	111.3	p 90.8	91.4	91.2	91.5	84.2	94.9	87.6	p 87.7		
Aug 95.2 90.6 P 86.2 P 92.2 110.6 P 90.2 P 91.7 P 91.2 92.1 P 84.6 95.4 88.0 P 83.0 P 83.0 <td>May</td> <td>95.1</td> <td>90.5</td> <td>p 86.1</td> <td>p 92.2</td> <td>111.1</td> <td>p 90.7</td> <td></td> <td>91.2</td> <td>91.7</td> <td>84.5</td> <td>95.2</td> <td>88.1</td> <td>P 87.9</td>	May	95.1	90.5	p 86.1	p 92.2	111.1	p 90.7		91.2	91.7	84.5	95.2	88.1	P 87.9		
	Aug	95.2 95.4	90.6 90.6	p 86.2	p 92.2	110.6	p 90.2	p 91.7	p 91.2	92.1	p 84.6	95.4	88.0	P 87.5		
	Nov Dec	95.0 94.2	p 90.1 p 89.3			110.3 109.2	p 89.6 p 88.7					p 95.2 p 94.8	р 87.7 р 87.3	р 87.1 р 86.5		

* The effective exchange rate corresponds to the weighted external value of the currency concerned. The method of calculating the indicators of the German economy's price competitiveness is consistent with the procedure used by the ECB to compute the effective exchange rates of the euro (see Monthly Report, November 2001, pp 50-53, May 2007, pp 31-35 and August 2015, pp 40-42). For more detailed information on methodology see the ECB's Occasional Paper No 134 (www.ecb.eu). A decline in the figures implies an increase in competitiveness. **1** ECB calculations are based on the weighted averages of the changes in the bilateral exchange rates of the euro against the currencies of the following countries: Australia, Bulgaria, Canada, China, Croatia, Czech Republic, Denmark, Hong Kong, Witzerland, the United Kingdom and the United States. Where current price and wage indices were not available, estimates were used. **2** ECB calculations. Includes countries belonging to the EER-19 group (see footnote 1) and additional Algeria.

New Zealand, Philippines, Russian Federation, South Africa, Taiwan, Thailand, Turkey and Venezuela. **3** Annual and quarterly averages. **4** Data for Argentina are currently not available due to the state of emergency in the national statistical system declared by the government of Argentina on 7 January 2016. As a consequence, Argentina is not included in the calculation of the EER-38 CPI deflated series from February 2016. not included in the calculation of the EER-38 CPI deflated series from February 2016. The policy regarding the inclusion of Argentina will be reconsidered in the future depending on further developments. **5** Euro-area countries (from 2001 including Greece, from 2007 including Slovenia, from 2008 including Cyprus and Malta, from 2009 including Slovakia, from 2011 including Estonia, from 2014 including Latvia, from 2015 including Lituania) as well as Canada, Denmark, Japan, Norway, Sweden, Switzerland, the United Kingdom and the United States. **6** Euro-area countries and countries belonging to the EER-19 group. **7** Euro-area countries and countries belonging to the EER-38 group (see footnote 2).

Overview of publications by the Deutsche Bundesbank

This overview provides information about selected recent economic and statistical publications by the Deutsche Bundesbank. Unless otherwise indicated, these publications are available in both English and German, in printed form and on the Bundesbank's website.

The publications are available free of charge from the External Communication Division. Up-to-date figures for some statistical datasets are also available on the Bundesbank's website.

Annual Report

Financial Stability Review

Monthly Report

For information on the articles published between 2000 and 2016 see the index attached to the January 2017 Monthly Report.

Monthly Report articles

February 2016

- The current economic situation in Germany

March 2016

- On the weakness of global trade
- German balance of payments in 2015
- Household wealth and finances in Germany: results of the 2014 survey
- The role and effects of the Agreement on Net Financial Assets (ANFA) in the context of implementing monetary policy

April 2016

 Stock market valuations – theoretical basics and enhancing the metrics The Phillips curve as an instrument for analysing prices and forecasting inflation in Germany

May 2016

- The current economic situation in Germany

June 2016

- Outlook for the German economy macroeconomic projections for 2016 and 2017 and an outlook for 2018
- The macroeconomic impact of quantitative easing in the euro area
- Structure and dynamics of manufacturing production depth as reflected in the financial statements of German enterprises

July 2016

- Evolution of the Bank Lending Survey since the onset of the financial crisis
- Approaches to resolving sovereign debt crises in the euro area
- Bank recovery and resolution the new TLAC and MREL minimum requirements

August 2016

- The current economic situation in Germany

September 2016

- Distributional effects of monetary policy

- Globalisation and the transmission of global financial shocks to the euro-area countries
 implications for (national) economic policy
- The performance of German credit institutions in 2015

October 2016

- Local government finances: Development and selected aspects
- Significance and impact of high-frequency trading in the German capital market

November 2016

- The current economic situation in Germany

December 2016

- Outlook for the German economy macroeconomic projections for 2017 and 2018 and an outlook for 2019
- Wage dynamics amid high euro-area unemployment
- German enterprises' profitability and financing in 2015

January 2017

- The Eurosystem's bond purchases and the exchange rate of the euro
- Recent developments in the indebtedness of the private non-financial sector in selected euro-area countries

Statistical Supplements to the Monthly Report

- 1 Banking statistics^{1, 2}
- 2 Capital market statistics^{1, 2}
- 3 Balance of payments statistics^{1, 2}
- 4 Seasonally adjusted business statistics^{1, 2}
- 5 Exchange rate statistics²

Special Publications

Makro-ökonometrisches Mehr-Länder-Modell, November 1996³

Europäische Organisationen und Gremien im Bereich von Währung und Wirtschaft, May 1997³

Die Zahlungsbilanz der ehemaligen DDR 1975 bis 1989, August 1999³

The market for German Federal securities, May 2000

Macro-Econometric Multi-Country Model: MEMMOD, June 2000

Bundesbank Act, September 2002

Weltweite Organisationen und Gremien im Bereich von Währung und Wirtschaft, March 2013³

Die Europäische Union: Grundlagen und Politikbereiche außerhalb der Wirtschafts- und Währungsunion, April 2005³

Die Deutsche Bundesbank – Aufgabenfelder, rechtlicher Rahmen, Geschichte, April 2006³

European economic and monetary union, April 2008

For footnotes, see p 86°.

Special Statistical Publications

- 1 Banking statistics guidelines, July 2016^{2, 4}
- 2 Bankenstatistik Kundensystematik, July 2016^{2, 3}
- 3 Aufbau der bankstatistischen Tabellen, July 2013^{2, 3}
- 4 Financial accounts for Germany 2010 to 2015, May 2016²
- 5 Hochgerechnete Angaben aus Jahresabschlüssen deutscher Unternehmen von 1997 bis 2013, May 2015^{2, 3}
- 6 Verhältniszahlen aus Jahresabschlüssen deutscher Unternehmen von 2012 bis 2013, May 2016^{2, 3}
- 7 Notes on the coding list for the balance of payments statistics, September 2013²
- 8 The balance of payments statistics of the Federal Republic of Germany, 2nd edition, February 1991°
- 9 Securities deposits, August 2005
- 10 Foreign direct investment stock statistics, April 2016^{1, 2}
- 11 Balance of payments by region, July 2013
- 12 Technologische Dienstleistungen in der Zahlungsbilanz, June 2011³

Discussion Papers*

44/2016

Optimal fiscal substitutes for the exchange rate in a monetary union

45/2016

Support for the SME supporting factor – multicountry empirical evidence on systematic risk factor for SME loans

46/2016

Time-varying volatility, financial intermediation and monetary policy

47/2016

Macroeconomic now- and forecasting based on the factor error correction model using targeted mixed frequency indicators

48/2016

On measuring uncertainty and its impact on investment: cross-country evidence from the euro area

49/2016

The effect of conventional and unconventional euro area monetary policy on macroeconomic variables

50/2016

The imperfect-common-knowledge Phillips curve: Calvo versus Rotemberg

51/2016 Fire buys of central bank collateral assets

52/2016 Trade in value added: Do we need new measures of competitiveness?

o Not available on the website.

^{*} As of 2000 these publications have been made available on the Bundesbank's website in German and English. Since the beginning of 2012, no longer subdivided into series 1 and series 2. For footnotes, see p 86[•].

Banking legislation

- 1 Bundesbank Act, July 2013, and Statute of the European System of Central Banks and of the European Central Bank, June 1998
- 2 Banking Act, July 2014²

2a Solvency Regulation, December 2006² Liquidity Regulation, December 2006²

Only the headings and explanatory notes to the data contained in the German originals are available in English.
 Available on the website only.

3 Available in German only.

4 Only some parts of the Special Statistical Publications are provided in English. The date refers to the German issue, which may be of a more recent date than the English one.