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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 Data unknown, not to be published or not meaningful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
- Ni

Discrepancies in the totals are due to rounding.

Commentaries

Economic conditions

Underlying trends

Despite worsening pandemic situation, economic activity unlikely to experience notable setback in Q4 2020

Real gross domestic product (GDP) is likely to have roughly stagnated in the final quarter of last year. The higher infection rates and considerable tightening of measures introduced again in stages to contain the pandemic put a brake on the German economy's catch-up momentum. Nevertheless, the greater restrictions are unlikely to have led to a major setback. This is because some sectors of the economy not directly affected by the measures continued to recover. Industry is particularly noteworthy in this context. According to figures available up to November, output rose sharply here on the back of a dynamic pick-up in demand. Construction also recorded a steep rise, however. In addition, retail sales grew considerably up to November. This counterbalanced the losses likely to have been incurred as a result of the mandatory closing of bricks-and-mortar retail stores in mid-December. According to the ifo business climate index, corporate sentiment brightened in December despite the increasing headwinds whipped up by the pandemic.1 Service providers (excluding trade) even reported an improved assessment of the situation overall, although operations in particularly contactintensive sectors such as the hotel and restaurant sector were still severely restricted. These encouraging signals regarding the resilience of the German economy suggest that the restrictions extended and tightened even further at the beginning of the new year may well not prove to be too much of a setback for the economic recovery. Positive impetus is also being provided by an improvement in prospects for foreign business, in part due to the trade agreement reached between the EU and the United Kingdom. If, however, the infection rates do not diminish significantly and the current restrictions on economic activity persist for a longer period or continue to be tightened even further, the economy might still be faced with a distinct setback.

The pandemic also left a deep mark on German economic output in 2020 as a whole. According to preliminary calculations by the Federal Statistical Office, real GDP fell by 5.0% (calendar-adjusted: 5.3%) on the year. The decline almost reached the magnitude of that recorded in 2009, when economic output fell by 5.7% in the wake of the global financial and economic crisis. Unlike then, owing to the pandemic a particularly strong decline in activity was seen in contact-intensive services, such as the hotel and restaurant sector or some parts of bricks-and-mortar trade. Industry likewise took a major hit, however. Only a few areas, such as construction or online trading, were able to increase their value added. The expenditure side of GDP shows a similar pattern. In contrast to 2009, private consumption also underwent a massive decline, alongside exports and investment in machinery and equipment. Only construction investment and government consumption experienced growth in this crisis year dominated by the pandemic.

Preliminary results show GDP dropped by 5% in 2020

Industry

Industrial output continued to rise markedly in November 2020, increasing by a seasonally adjusted 11/4% on the month. On an average of November and October, it overshot the average of the third quarter by 53/4%. Output in the automotive sector posted particularly sharp growth. The production of capital goods was

Further marked rise in industrial output in November

¹ The impact of the intensified measures from mid-December onwards is probably only reflected here to a small extent as, according to the ifo Institute, most of the responses to the survey had already been submitted beforehand

² According to data provided by the Association of the Automotive Industry (VDA), the number of passenger cars produced declined significantly in December in seasonally adjusted terms, but was still markedly above the average level of the third quarter.

Economic conditions in Germany*

Seasonally adjusted

ocasorially a	ajastea						
	Orders received (volume); 2015 = 100						
	Industry						
		of which:		Main con-			
Period	Total	Domestic	Foreign	struction			
2020 Q1 Q2 Q3 Sep. Oct. Nov.	97.8 75.9 98.6 100.9 104.2 106.6	92.7 80.1 93.0 95.3 98.3 99.9	101.7 72.8 102.9 105.1 108.6 111.7	125.5 117.2 120.8 125.3 125.4			
1404.			111.7				
	Output; 201						
	Industry	aflai ala .					
		of which:					
	Total	Inter- mediate goods	Capital goods	Con- struction			
2020 Q1 Q2 Q3 Sep. Oct. Nov.	97.5 79.2 90.9 92.3 95.6 96.7	101.0 84.5 93.2 95.3 99.1 101.5	93.4 70.5 85.9 86.7 91.5 92.7	118.5 114.7 112.5 114.8 116.7 118.3			
	Foreign trad			Memo			
	Exports	Imports	Balance	item: Current account balance in € billion			
2020 Q1 Q2 Q3	322.87 252.50 304.30	270.39 228.09 254.03	52.48 24.41 50.27	62.75 37.50 64.04			
Sep.	103.93	86.33	17.60	20.85			
Oct. Nov.	104.88 107.16	86.66 90.76	18.22 16.40	22.46 19.91			
	Labour mark	et					
	Employ- ment	Vacan- cies ¹	Un- employ- ment	Un- employ- ment rate			
	Number in t	housands		%			
2020 Q2 Q3 Q4 Oct. Nov. Dec.	44,659 44,580 44,605 44,602	592 566 596 588 598 603	2,818 2,905 2,814 2,853 2,813 2,776	6.2 6.3 6.1 6.2 6.1 6.1			
	Prices; 2015	= 100					
	Import prices	Producer prices of industrial products	Con- struction prices ²	Harmon- ised con- sumer prices			
2020 Q2 Q3 Q4 Oct. Nov. Dec.	95.5 96.8 97.3 97.7	103.0 103.3 103.8 104.1	118.3 115.7 116.0	106.2 105.5 105.4 105.4 105.4 e 105.5			

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

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up substantially overall (+71/4%) and intermediate goods saw a rise of a similarly high level. By contrast, the output of consumer goods declined (-11/4%). Despite edging up further, industrial output was still almost 3% lower in November than the pre-crisis level of the final quarter of 2019. Producers of capital goods showed the largest shortfall, but consumer goods production was also still significantly lower. By contrast, the production of intermediate goods exceeded pre-crisis levels.

Industrial orders continued their steep upward movement in November 2020, rising by 21/4% on October in seasonally adjusted terms. On an average of November and October, the inflow of orders was up by as much as 7% on the average of the third quarter. Demand for German industrial products now thus clearly exceeded the pre-crisis level of the final quarter of 2019. Orders for intermediate goods rose especially sharply compared with the third quarter (+93/4%), but orders for capital goods were also substantially higher (+6%), with significantly more demand for computer, electronic and optical products, in particular. Orders received by the automotive sector were dampened in November but remained above the pre-crisis level. There was a relatively small increase in demand for consumer goods (+13/4%). In a regional breakdown, incoming orders from Germany and abroad grew at similar rates. The inflow of orders from non-euro area countries was particularly high but demand from the euro area also rose steeply.

Nominal industrial turnover increased markedly in November 2020, like industrial output, rising by 11/4% on the month. Taking November and October together, it was 5% higher than the third-quarter level. In line with developments in industrial output, substantial growth in capital goods and intermediate goods was recorded. By contrast, sales of consumer goods were slightly lower. Broken down by region, there was a somewhat stronger rise in export sales than sales to domestic customers compared with the third quarter. This was due to high

Industrial orders strong

Industrial turnover, exports of goods and imports of goods up further

sales growth outside the euro area. Nominal exports of goods were also substantially higher in seasonally adjusted terms, with a month-onmonth rise of 21/4% in November. On an average of November and October, they were up on the third quarter by as much as 41/2%. Nominal imports of goods grew more strongly than exports in November, rising by 43/4% on the month. Taking November and October together, in a comparison with the third quarter, growth was only slightly higher than that seen for exports, however. Nominal imports were down on pre-crisis levels by a slightly smaller degree than exports (-11/2% and -4%) towards the end of the period under review. In real terms, imports in November were even back to significantly exceeding their pre-crisis level. Unlike in the nominal calculation, the sharp decline in energy prices compared with the pre-crisis period did not have a dampening effect.

Construction

Construction output expanded in November

According to the information available to date, the construction sector has remained largely unaffected by the second wave of the coronavirus pandemic and the measures taken to contain it. Construction output even posted a distinct month-on-month increase in seasonally adjusted terms (+11/4%) in November. On an average of November and October, it was up substantially on the third quarter (+41/2%). Output in the main construction sector rose more moderately than in the finishing trades, where the data are prone to revision. The latter had still seen a distinct decline in the third guarter. The order situation in the main construction sector is likewise still favourable, with new orders in October up sharply on the quarter (+33/4%). The reach of the order books, as measured by the ifo Institute, remained at a high level in December. According to the ifo Institute, equipment utilisation continued to rise at the end of the year and the assessment of the business situation improved.

Labour market

The labour market remained remarkably stable despite the renewed tightening of measures to combat the pandemic. There were more registrations for short-time work in November and December, with 1.3 million employees subject to social security contributions affected when taking the two months together. However, this corresponds to only a fraction of the notifications filed last spring. The current notifications are mainly limited to the hotel and restaurant area and parts of the retail sector affected by enforced closures. According to provisional figures provided by the Federal Employment Agency, which currently extend to October, the number of workers actually in short-time work schemes has fallen to 2.0 million. This number is likely to have risen only slightly in the last two months of 2020. As a rule, not all employees registered for short-time work are actually transferred to short-time working arrangements at a later date. Furthermore, short-time work was probably scaled back further in other sectors of the economy.

December, as it had done in the two preceding months. The official unemployment figure was 37,000 lower than in the previous month after seasonal adjustment and the unemployment rate remained unchanged at 6.1% due to rounding. This implies a continuation of the positive trend despite the partial lockdown from the beginning of November. The further tightening of contact restrictions from mid-December onwards is not yet reflected here, however, as the cut-off date for the December data had already passed. Up until this point, as was the case in October and November, unemployment had declined, especially in the category of SGBIII job seekers (those receiving unemployment benefits under the statutory unemployment insurance scheme), which is more conditioned by economic activity than

unemployment under category SGBII, where

persons receive basic social benefits.

Registered unemployment declined distinctly in

Short-time work fell up until October, but is likely to have risen again slightly at year-end

Unemployment down throughout reporting period

Employment broadly stable

Although employment stabilised quickly following the decline in the second quarter, the recovery thereafter can be regarded as extremely small following a downward revision of the data by the Federal Statistical Office. Total employment no longer showed any improvement at all in November. According to initial estimates by the Federal Statistical Office for 2020 as a whole, this is likely to be no different in December. Nevertheless, the number of employees continued to rise slightly, while selfemployment declined significantly in line with the trend that has been evident for some time now. The leading employment indicators were mixed recently, reflecting the current high level of uncertainty. While the Ifo employment barometer fell clearly, the labour market barometer of the Institute for Employment Research (IAB) showed a slight improvement. The number of vacancies also continued to increase. At the current juncture, employment is not expected to decline considerably despite the stricter lockdown.

Prices

Crude oil prices continue to rise

The past few weeks have seen an acceleration in the upward movement for crude oil prices, which had begun in November. This was mainly due to positive news on vaccination research and the OPEC+ decision for an only gradual expansion of production volumes in 2021. Up to the start of January, prices had risen by 25% compared with November, which is almost one-fifth below the level of a year ago. As this report went to press, the price of a barrel of Brent crude oil stood at US\$56. Crude oil futures were trading at considerable discounts. The discount on crude oil futures was US\$1 for deliveries six months ahead and US\$2½ for deliveries 12 months ahead.

Import and producer prices higher

Import prices rose markedly in November overall, mainly as a result of the steep hike in energy prices. By contrast, other imported goods cost scarcely more than in the previous month. Domestic industrial sales prices were

also up markedly. The rise in energy prices was much the same as that for other goods. As in the previous month, prices at the import level were just under 4% down on the year and domestic industrial sales prices were 0.5% lower.

On the basis of preliminary data, consumer prices rose slightly in December for the first time since the spring in seasonally adjusted terms. This was mainly due to distinctly higher energy prices. Services also became slightly more expensive. By contrast, food was cheaper than in the previous month. Prices for industrial goods excluding energy likewise declined as a result of high discounts on clothing. The price collection was unaffected by the mandatory closures of further businesses and services from mid-December to contain the spread of the virus, as it was largely complete when this entered into force. The Harmonised Index of Consumer Prices (HICP) was still down by 0.7% on the year.3 Excluding energy and food, it is likely to have remained 0.1% below the previous year's level. If clothing and travel are also excluded, the rate rose slightly to +0.4%.

Averaged across 2020, headline inflation is likely to have declined from +1.4% to +0.4% significantly on an average of 2020 due to one-off effects one-off effects was probably +0.7%, after likewise standing at

being allocated for the consumption of refined petroleum products and gas. In addition, VAT rates have been raised again. However, there is uncertainty as to whether the impact of changed tax rates can be fully reflected in the price statistics given the ongoing closure of businesses.

+1.4% in 2019. Inflation is likely to be clearly

positive again in January 2021. From the beginning of the year, CO₂ emission permits are

Consumer prices higher too

³ For the national consumer price index (CPI), the rate was -0.3%, likewise unchanged from November.

⁴ For more information on passing on changes in VAT rates to consumers, see Deutsche Bundesbank (2020a).

Public finances

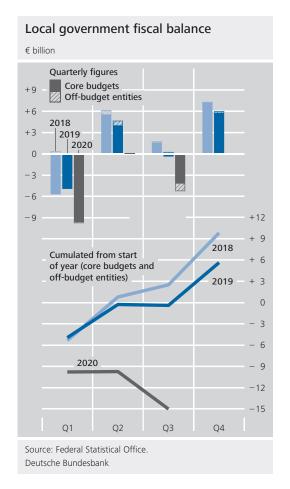
Local government finances

Considerable deficit in 2020 Q3: revenue down ...

Local government budgets (core budgets and off-budget entities) ended the third quarter of 2020 with a deficit of just under €5½ billion. In the same quarter of the previous year, they had registered only a small deficit. Revenue declined by 2½% (-€2 billion), chiefly owing to tax revenue (-9%, or €2½ billion). Here, revenue from shares in income tax fell somewhat more sharply than net receipts from local business tax. Although receipts from fees fell distinctly by 71/2%, the decline was half of that seen in the second quarter of 2020 when more local amenities had been closed. Transfers from state governments rose significantly by 41/2%, although large-scale general purpose grants had already been brought forward to the previous quarter in North Rhine-Westphalia. The increase might be due to the passing on of central government funds intended to ease the pandemic-related burdens of local public transport enterprises. Central government had transferred €2½ billion to state governments for this purpose.

... and expenditure up significantly

Expenditure rose significantly overall by 5% (+€3½ billion). At 3½%, growth in the large expenditure item personnel costs distinctly outpaced the 1% increase in remuneration for salaried employees. Spending on social benefits also rose by 31/2%. Accommodation costs for those receiving unemployment benefit II went up only slightly more strongly, although the eligibility criteria had been eased. Other operating expenditure declined moderately, with restrictions on local amenities likely to have played a role here. By contrast, grants to nongovernment entities, probably also including local public transport enterprises, recorded large growth (+9%, or €½ billion). Despite the coronavirus crisis, fixed asset formation continued to expand strongly (+13%, or €1 billion), with sharper growth originating from purchases of land and equipment than from construction investment. Developments in the off-



budget entities in North Rhine-Westphalia had a noticeable impact here.

In the first three quarters of 2020 combined, local government budgets recorded a very large deficit of €15 billion. Their budgets had practically been balanced in the same period a year earlier. In the final quarter of 2020, central government and state governments paid a one-off sum of €11 billion to compensate local governments for shortfalls in local business tax arising from the coronavirus pandemic. The amount was based on the expected shortfalls compared with the tax estimate in autumn 2019. Moreover, in the fourth quarter, central government assumed an additional quarter of the accommodation costs for recipients of unemployment benefit II with retroactive effect from the start of 2020 (permanent annual relief of approximately €3½ billion). Together with these payments, the local government budget deficit stemming from the first three quarters

Deficit very large in first three quarters, but considerable relief provided by central government and state governments in final quarter

of 2020 could have been largely offset in the final quarter.

Central government and state governments shielded local governments from costs related to the coronavirus in 2020, but burdens will persist Overall, central government and state governments largely shielded local governments from the burdens caused by the coronavirus crisis in 2020. This year, the effects of the crisis will probably continue to put strain on regular local government receipts. In the absence of special adjustments, state government transfers from the municipal revenue-sharing scheme, for instance, would be much smaller than anticipated before the crisis. Moreover, the tax estimate for 2021, too, indicated large revenue shortfalls for local governments as a result of the crisis. However, central government does not plan to provide further compensation for local government tax shortfalls, and there is limited scope for budget adjustments at the local level. As a result, state governments – in line with their fundamental responsibility - will be required to step in. The crisis is making it clear that local government finances are in need of reform. Substantial adjustments appear advisable in order to ensure stable and crisis-proof financing.5

Limited rise in local government debt – and partially in cash advances Over the course of the third quarter of 2020, local government debt rose by €1½ billion to reach €139 billion (including liabilities to the public sector). This indicates that most of the quarterly deficit was covered using reserves. Credit market debt rose by €1 billion to just under €98 billion. The volume of cash advances increased by just over €½ billion. It thus grew to over €38½ billion, after having declined for several years until the end of 2019. North Rhine-Westphalia and Lower Saxony made particular contributions to this rise. By contrast, cash advances were repaid in the majority of the non-city states in the quarter under review. On balance, local governments in Bavaria, in particular, largely paid back the cash advances taken up in the second quarter of 2020.

Securities markets

Bond market

In November 2020, issuance in the German bond market stood at €120.0 billion in gross terms (previous month: €128.8 billion). After deducting redemptions, which were significantly lower than in the previous month, and taking account of changes in issuers' holdings of their own debt securities, the outstanding volume of domestic bonds grew by €26.6 billion. By contrast, the outstanding amount of foreign debt securities in Germany decreased by €5.2 billion. The funds raised from sales of domestic and foreign debt securities in the German market therefore amounted to €21.3 billion.

High net issuance in the German bond market in November 2020

The public sector issued bonds totalling €27.1 billion net in the reporting month. Ultimately, this was chiefly attributable to central government (€20.3 billion). Above all, it issued five-year Federal notes (Bobls: €15.6 billion) as well as two-year Federal Treasury notes (Schätze: €4.5 billion) and ten-year Federal bonds (Bunds: €3.4 billion). By contrast, central government redeemed Treasury discount paper (Bubills) in net terms (€3.6 billion). State and local government issued bonds worth €6.7 billion net.

Rise in public sector capital market debt

German enterprises increased their capital market debt by €0.5 billion net in the reporting month. Insurance companies were the chief issuers of bonds, on balance, but other financial intermediaries were also active in the market. The majority of the bonds issued had maturities of more than one year. By contrast, non-financial corporations redeemed their own bonds.

Weak net issuance by enterprises

The outstanding volume of debt securities issued by domestic credit institutions fell by €1.0 billion in November, following a decline of €16.3 billion in the preceding month. On bal-

Fall in credit institutions' capital market debt ance, primarily debt securities issued by specialised credit institutions (\leqslant 1.3 billion) and mortgage Pfandbriefe (\leqslant 1.2 billion) were redeemed. This contrasted with net issuance of other bank debt securities that can be structured flexibly worth \leqslant 2.4 billion.

Purchase of debt securities

Among the various investor groups, the Bundesbank was the main buyer in November on balance, acquiring debt securities in the net amount of €27.7 billion – for the most part under the Eurosystem's asset purchase programmes. Domestic credit institutions and domestic non-banks increased their holdings of bonds by €1.5 billion and €1.1 billion, respectively. While banks primarily purchased foreign securities, non-banks' focus was on domestic securities. Foreign investors disposed of German debt securities totalling €8.9 billion net.

Equity market

Net issuance in the German equity market In the reporting month, domestic enterprises placed €0.2 billion worth of new shares in the German equity market (October: €1.1 billion). The outstanding volume of foreign shares in the German market rose by €9.6 billion over the same period. Domestic non-banks and domestic credit institutions were, on balance, the main purchasers of equities (€8.1 billion and €1.9 billion, respectively), while foreign investors marginally reduced their equity exposure in Germany (€0.2 billion).

Mutual funds

German mutual funds record moderate inflows In November, domestic mutual funds sold shares totalling €7.5 billion net in the market (previous month: €11.7 billion). In net terms, fresh funds were injected in almost equal measure into retail funds and specialised funds reserved for institutional investors (€3.8 billion and €3.7 billion, respectively). Among the various asset classes, mixed securities-based funds (€4.1 billion) and equity funds (€4.0 billion) attracted the most inflows. By contrast, bond

Sales and purchases of debt securities

€ billion

	2019	2020	
Item	Nov.	Oct.	Nov.
Sales			
Domestic debt securities ¹ of which:	38.4	- 17.9	26.6
Bank debt securities Public debt securities	13.5 18.4	- 16.3 - 3.7	- 1.0 27.0
Foreign debt securities ²	7.0	18.5	- 5.2
Purchases			
Residents Credit institutions ³ Deutsche	28.9 5.6	48.5 9.3	30.3 1.5
Bundesbank Other sectors ⁴ of which: Domestic debt	7.5 15.8	24.6 14.6	27.7 1.1
securities	13.0	4.6	8.3
Non-residents ²	16.4	- 47.9	- 8.9
Total sales/purchases	45.3	0.6	21.3

 Net sales at market values adjusted for changes in issuers' holdings of their own debt securities.
 Transaction values.
 Book values, statistically adjusted.
 Residual.
 Deutsche Bundesbank

funds redeemed their own shares to the tune of €2.0 billion net. Foreign mutual funds placed shares worth €7.6 billion in the German market in the reporting month. On balance, domestic non-banks were virtually the sole purchasers, adding a net €14.4 billion worth of mutual fund shares to their portfolios. Foreign investors acquired German mutual fund shares for €0.9 billion net, while domestic credit institutions sold shares for €0.1 billion net.

■ Balance of payments

Germany's current account recorded a surplus of €21.3 billion in November 2020, down €1.6 billion from the previous month's level. This was primarily attributable to a decrease in the goods account surplus. The surplus in invisible current transactions, which comprise services as well as primary and secondary income, expanded slightly.

Decrease in current account surplus

€ billion

	2019	2020	
Item	Nov.	Oct.	Nov.p
Current account Goods Receipts Expenditure Memo item:	+ 23.5 + 17.9 110.6 92.7	+ 22.9 + 20.3 110.2 89.9	+ 21.3 + 18.5 110.6 92.1
Foreign trade1 Exports Imports 2. Services Receipts Expenditure 3. Primary income Receipts	+ 18.5 113.2 94.7 + 0.5 25.6 25.1 + 8.7 18.1	+ 19.4 112.1 92.7 - 0.4 22.9 23.3 + 7.2 16.1	+ 17.2 111.7 94.6 + 1.9 22.2 20.3 + 8.2 16.0
Expenditure 4. Secondary income	9.4	8.9 - 4.3	7.7 - 7.5
II. Capital account	- 0.5	- 1.3	- 0.9
III. Financial account (increase: +) 1. Direct investment	+ 34.8 + 5.2	+ 29.2 + 5.3	+ 15.9 + 5.8
Domestic investment abroad Foreign investment	+ 14.1	+ 13.1	+ 35.7
in the reporting country 2. Portfolio investment Domestic investment	+ 8.9 + 0.9	+ 7.8 + 75.2	+ 29.9 + 19.5
in foreign securities Shares ² Investment fund	+ 17.2 + 4.1	+ 26.5 + 4.2	+ 11.1 + 8.7
shares ³ Short-term debt	+ 6.1	+ 3.7	+ 7.6
securities ⁴ Long-term debt securities ⁵	- 0.1 + 7.1	+ 3.3 + 15.2	1.83.4
Foreign investment in domestic securities Shares ² Investment fund shares Short-term debt	+ 16.3 - 0.2 + 0.1	- 48.7 - 0.5 - 0.4	- 8.4 - 0.3 + 0.9
securities ⁴ Long-term debt	+ 9.6	- 11.6	- 6.5
securities ⁵ 3. Financial derivatives ⁶ 4. Other investment ⁷	+ 6.9 + 1.5 + 27.6	- 36.3 + 0.8 - 52.3	2.59.018.5
Monetary financial institutions ⁸ of which:	- 19.0	- 11.0	- 18.0
Short-term Enterprises and	- 9.8	- 10.5	- 7.8
households ⁹ General government Bundesbank 5. Reserve assets	+ 5.3 + 2.9 + 38.4 - 0.4	- 3.6 + 2.2 - 39.8 + 0.1	- 7.4 - 3.3 + 10.1 + 0.1
			- 4.5
IV. Errors and omissions ¹⁰	+ 11.8	+ 7.6	- 4.5

1 Special trade according to the official foreign trade statistics (source: Federal Statistical Office). 2 Including participation certificates. 3 Including reinvestment of earnings. 4 Short-term: original maturity of up to one year. 5 Long-term: original maturity of more than one year or unlimited. **6** Balance of transactions arising from options and financial futures contracts as well as employee stock options. 7 Includes, in particular, loans and trade credits as well as currency and deposits. 8 Excluding the Bundesbank. 9 Includes the following sectors: financial corporations (excluding monetary financial institutions) as well as nonfinancial corporations, households and non-profit institutions serving households. 10 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.

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In November, the surplus in the goods account Narrower surfell by €1.8 billion on the month to €18.5 billion, with imports of goods recording a sharper increase than exports.

plus in goods account

The surplus on invisible current transactions went up slightly by €0.2 billion in November to €2.7 billion, as the increasing balances of the services account and in primary income more than offset the larger deficit in the secondary income account. In the services account, the deficit of €0.4 billion recorded in October turned into a surplus of €1.9 billion, chiefly owing to the reduction in expenditure linked to pandemic-related lower travel spending by residents. Receipts also declined overall, albeit less sharply, with lower receipts from financial services and travel having a dampening effect in particular. Net receipts on primary income went up by €1.0 billion to €8.2 billion, with a decline in dividend payments to non-residents on portfolio investment playing a major role. The deficit in the secondary income account widened by €3.2 billion to stand at €7.5 billion. This was mainly the result of higher general government payments to the EU budget in connection with financing related to gross national income.

Increases in services and primary income balances somewhat more pronounced than decline in secondary income balance

In November 2020, there was growing confidence in the international capital markets that the approval of the first vaccines against SARS-CoV-2 would allow the economy to normalise in 2021. In addition, the ultimately clear outcome of the US presidential election reduced political uncertainty. It was against this backdrop that Germany's cross-border portfolio investment recorded net capital exports of €19.5 billion (after €75.2 billion in October). Domestic investors purchased foreign securities worth €11.1 billion. They purchased shares (€8.7 billion) and mutual fund shares (€7.6 billion), while offloading bonds (€3.4 billion) and money market paper (€1.8 billion). Foreign investors divested themselves of German securities once more, albeit to a lesser extent (€8.4 billion, after €48.7 billion in October). They mainly sold money market paper (€6.5 billion), but also disposed of bonds (€2.5 billion), which

Portfolio investment sees outflows

affected long-term debt securities issued by the government and commercial banks. Non-residents also sold small amounts of German shares (€0.3 billion), but acquired mutual fund shares (€0.9 billion) on balance.

Financial derivatives Financial derivatives recorded net capital exports of €9.0 billion in November (October: €0.8 billion).

Direct investment posts net capital exports Direct investment generated net capital exports of €5.8 billion in November, following €5.3 billion in October. Domestic enterprises increased their foreign direct investment by €35.7 billion. These investors boosted their equity capital in non-resident affiliates by €12.8 billion, with reinvested earnings also playing a role here. In addition, they granted, on balance, €22.9 billion in loans to affiliated enterprises abroad. Foreign direct investment stocks in Germany rose by €29.9 billion as a result of transactions. Foreign enterprises supplied their affiliates in

Germany with €9.0 billion of equity capital and provided €20.9 billion on balance via intragroup lending.

Other statistically recorded investment, which comprises loans and trade credits (where these do not constitute direct investment), bank deposits and other investment, registered net inflows amounting to €18.5 billion in November (following €52.3 billion in October). Monetary financial institutions (excluding the Bundesbank) recorded net capital imports of €18.0 billion, while the Bundesbank recorded net capital exports (€10.1 billion). This was chiefly attributable to the €12.9 billion increase in the TARGET2 balance. On balance, further funds flowed to enterprises and households (€7.4 billion) and the government (€3.3 billion).

Other investment registers inflows

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

Reserve assets

List of references

Deutsche Bundesbank (2020a), Impact of the temporary reduction in VAT on consumer prices, November 2020, pp. 56-58.

Deutsche Bundesbank (2020b), Reform of local government finances: making financing crisis-proof and stable, Monthly Report, July 2020, pp. 10-11.

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The slowdown in euro area productivity growth

Economic growth and prosperity are largely determined by developments in labour productivity. It is therefore unsurprising that the long-observed slackening of productivity gains in many advanced economies has come to the fore of the economic policy debate. In the euro area, too, productivity growth has slowed markedly over the past 20 years, albeit with some pronounced differences between Member States.

On the one hand, the steep economic losses induced by the global financial and economic crisis and the subsequent sovereign debt crisis likely affected productivity growth not only in the short term. Beyond this, however, there are also clear signs of structural influences. Growth in total factor productivity – a key driver of labour productivity – had already declined in large swathes of the euro area prior to the onset of the global financial crisis. This can be attributed, amongst other things, to a decline in entrepreneurial innovation and adoption activities in some sectors of the economy and decreasing allocative efficiency. Continued demographic change is likely to have contributed to this. Other possible explanatory factors include the institutional and regulatory frameworks in place. The relative loss of importance of the industrial sector, which was accompanied by a shift in labour input to economic sectors with comparatively low productivity growth, also slowed overall output growth. Increased productivity gains in some service sectors were unable to offset this.

The ageing of the population and reduced labour force growth could continue to dampen labour productivity growth in the future. At present, it is difficult to assess what impact the coronavirus pandemic will have on productivity developments. The macroeconomic turmoil triggered by the pandemic is likely to weigh on future labour productivity growth. The extent to which the exceptional challenges presented by the current crisis will lead to a wave of innovation that counteracts such burdens remains to be seen.

Labour productivity developments in the euro area and the Member States

Productivity as a key economic metric

Recently, the focus has mainly been on current economic developments on account of the coronavirus pandemic. However, the longobserved trend of slowing labour productivity growth in a great number of advanced economies remains a core economic policy issue. Labour productivity, defined as the ratio of output to labour input, is a key measure of economic efficiency.1 Trend developments in labour productivity are an indicator of economies' growth potential. Owing to its close link to per capita income, labour productivity is often also interpreted as a measure of prosperity.

Measuring labour productivity using different labour input metrics

The output measure typically used for the calculation of labour productivity is the priceadjusted gross domestic product (GDP) or real value added, while labour input is determined

Labour productivity growth in the euro area Average annual change Contribution to labour Growth in ... productivity growth output per in percentage points hour worked1 Real GDP output per Hours worked person employed² +2.5Persons employed +2.0 + 1.5 +1.0 +0.50 -0.5-1.0

Sources: Eurostat and Bundesbank calculations. 1 Labour productivity measured as the ratio of real GDP to the number of hours worked. 2 Labour productivity measured as the ratio of real GDP to the number of persons employed. Deutsche Bundesbank

2008

to 2012

2013

to 2019

1999

to 2007

-1.5

1999

to 2019

hours worked is considered to be the more precise measure of labour input, as both trend changes in average hours worked as well as temporary reductions in hours worked or absences are taken into account.

based on the number of hours worked or the

number of persons employed. The number of

For the euro area as a whole, a marked slowdown in productivity growth can be observed between 1999 and 2019, irrespective of the labour input measure used. Greater differences between the two metrics become apparent during the global financial and economic crisis as well as the subsequent sovereign debt crisis. Between 2008 and 2012, the number of hours worked fell more sharply than the number of persons employed.2 Growth of output per hour during this period was accordingly markedly higher than that of output per person employed.

Slowdown in euro area productivity growth

A look at the euro area as a whole conceals what are, in some instances, considerable variations between the Member States. For instance, labour productivity in Estonia, Ireland, Latvia, Lithuania, Slovakia and Slovenia increased significantly more strongly on average between 1999 and 2019 than the euro area average. While the above-average rise in labour productivity in central and eastern European Member States is to be viewed against the backdrop of the ongoing convergence process, the statistical data on labour productivity in Ireland over the past few years have been strongly influenced by the recording of multinational enterprises' business activities.3 By contrast, labour productivity in the five largest euro area countries increased much more moderately. While labour productivity growth in Germany, France and the Netherlands rose on average by about 1% per year, the development of prod-

Heterogeneous labour productivity developments in the euro area countries

3 See also Deutsche Bundesbank (2018, 2019b).

¹ It follows from the definition above that labour productivity growth can be approximated by the difference between the rates of growth of output and labour input.

² This was due, amongst other things, to the hoarding of labour, which was exacerbated by short-time work schemes. See also Deutsche Bundesbank (2015)

Average annual labour productivity growth

Average annual percentage change

	Real GDP per person employed				Real GDP per hour worked				
Country	Total period 1999 to 2019	1999 to	2008 to 2012	2013 to 2019	Total period 1999 to 2019	1999 to	2008 to 2012	2013 to 2019	
,									
Euro area ¹	0.6	0.9	0.1	0.6	0.9	1.2	0.6	0.7	
Austria	0.7	1.5	- 0.3	0.3	1.2	2.0	0.6	0.6	
Belgium	0.8	1.4	- 0.1	0.5	0.8	1.3	0.0	0.6	
Cyprus	0.8	1.7	- 0.1	0.3	1.1	2.0	0.1	0.6	
Estonia ²	3.3	6.3	0.0	1.9	3.5	6.1	1.2	2.6	
Finland	0.8	2.1	- 1.0	0.5	1.2	2.5	- 0.5	0.8	
France	0.8	1.1	0.2	0.6	1.0	1.5	0.2	0.9	
Germany	0.6	1.1	- 0.1	0.5	1.0	1.4	0.5	0.7	
Greece	0.1	2.7	- 3.6	- 0.5	0.3	2.7	-3.4	0.0	
Ireland	3.1	2.4	1.7	5.1	3.6	2.9	3.1	4.8	
Italy	- 0.2	0.1	- 1.0	0.0	0.2	0.4	0.0	0.2	
Latvia	4.0	6.8	1.5	2.2	4.3	7.5	0.9	2.8	
Lithuania	4.2	6.9	2.0	2.3	4.0	6.1	2.5	2.3	
Luxembourg	0.1	1.2	- 2.3	0.5	0.4	1.4	- 1.6	0.5	
Malta ³	1.0	1.3	0.5	1.0	1.7	1.8	1.8	1.4	
Netherlands	0.7	1.3	- 0.1	0.6	0.9	1.7	0.2	0.3	
Portugal	0.9	1.3	0.6	0.6	1.0	1.4	1.1	0.3	
Slovakia	2.9	4.7	1.8	1.3	3.2	4.9	1.8	2.1	
Slovenia	1.7	3.3	- 0.2	1.2	2.1	3.8	- 0.1	1.6	
Spain	0.6	0.0	1.7	0.5	0.7	0.3	1.7	0.6	
Other advanced economies									
Canada	0.8	1.1	0.4	0.6	1.1	1.5	0.6	0.9	
Japan ⁴	0.7	1.4	0.2	0.2	0.7	1.1	0.2	0.5	
United Kingdom	0.9	1.8	-0.2	0.5	1.0	2.1	0.0	0.4	
United States ⁵	1.4	1.8	1.2	0.9	1.6	2.3	1.4	0.7	

Sources: Eurostat and Bundesbank calculations. 1 19 countries as of 2015. 2 Data for productivity based on the number of hours worked in Estonia available from 2001. 3 Data for labour productivity in Malta available from 2001. 4 Data for labour productivity in Japan available up to 2018. 5 Data for labour productivity in the United States available up to 2018.

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uctivity was considerably lower in Spain. In Italy, labour productivity growth virtually stagnated.

Moderate productivity growth prior to the global financial and economic crisis ... Looking at individual sub-periods, productivity growth before the global financial and economic crisis was larger in most euro area countries than in later years. In the pre-crisis period, labour productivity expanded particularly strongly in the Baltic States. Productivity gains in Italy and Spain, by contrast, were strikingly small.

area countries collapsed. In several euro area countries, labour productivity even declined. Spain represents an exception in this respect. As a result of the disproportionately large reduction in labour input, hourly labour productivity growth there increased more than fivefold during the crisis period.⁴

Productivity growth picked up again in subsequent years, but in most euro area countries it fell short of its pre-crisis rates. Spain was again

Economic recovery amid subdued productivity growth

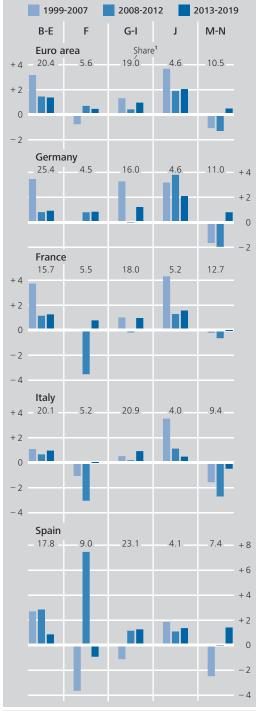
Ilowed In the wake of both the global financial and economic crisis and the subsequent sovereign debt crisis, productivity growth in most euro

... was followed a broad-based slump

⁴ See also Deutsche Bundesbank (2016). A similar phenomenon can be seen in Ireland, where average labour productivity growth also increased during the crisis years.

Labour productivity growth in selected economic sectors and sector groups*

Average annual percentage change



Sources: Eurostat and Bundesbank calculations. * Sector classification according to NACE. **B-E:** mining and quarrying; manufacturing; electricity, gas, steam and air conditioning supply; and water supply; sewerage, waste management and remediation activities; **F:** construction; **G-I:** wholesale and retail trade; repair of motor vehicles and motorcycles; transportation and storage and accommodation and food service activities; **J:** information and communication; **M-N:** professional, scientific and technical activities and administrative and support service activities. **1** Sector or sector group's average percentage share in aggregate nominal gross value added over the observation period 1999 to 2019.

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a notable exception, with GDP rising at an above-average rate during the recovery period, whilst employment growth remained subdued. In the other countries hit hard by the crisis, however, productivity gains remained clearly below the euro area average. Labour productivity increased only marginally in Italy and continued to decline in Greece despite a certain degree of economic recovery.

At present, it is difficult to assess how the current coronavirus pandemic will affect trend labour productivity growth. At the current end of the data, the reduction of labour input during the crisis, coupled with simultaneous efforts to maintain employment, result in significant differences between the development of the growth rates of output per hour and output per person employed. Alongside these short-term effects, however, longer-term impacts are to be expected (for more on this, see the box on pp. 36 f.).

Difficult to gauge impact of the coronavirus pandemic on productivity growth

The flattening of productivity growth between 1999 and 2019 was observed in several economic sectors. It was particularly pronounced in manufacturing, especially in Germany and France. The manufacturing sector had previously been characterised by above-average productivity gains, which also had a marked impact on average productivity growth owing to the importance of this sector. A similarly strong slowdown was observed in the communication and information sectors. However, productivity growth here, as in manufacturing, was still above average over the period under review.

Slowdown in productivity growth in manufacturing

In other services sectors, by contrast, productivity growth was rather subdued over the whole observation period. This was particularly true for the provision of professional, scientific, technical, administration and support service

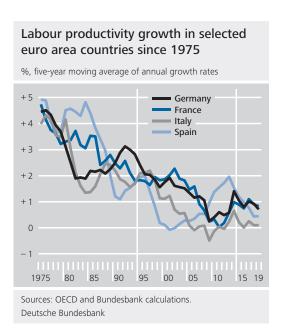
Marked regional differences in services sector and construction industry, in some cases

⁵ The sectoral analysis is based on the Statistical classification of economic activities in the European Community (Nomenclature générale des activités économiques dans les Communautés européennes (NACE)), Rev. 2.

activities.6 Productivity growth in this area accelerated only recently, particularly in Germany and Spain. In wholesale and retail trade, transportation and storage, and accommodation and food service activities, too, euro area labour productivity increased only slowly for the most part following the introduction of the single currency. In the construction sector, productivity was subject to what were, in some cases, considerable fluctuations. In Italy and France, it outright collapsed between 2008 and 2012. Between 2013 and 2019, output in the affected countries recovered perceptibly, but productivity growth remained subdued. In Spain, by contrast, the sharp contraction in construction output during the crisis was accompanied by an even greater reduction in the use of mostly low-productivity workers, resulting in a significant increase in average labour productivity growth. Productivity has since fallen once again somewhat.7

Weakened productivity momentum outside the euro area, too A comparison with other advanced economies shows that subdued productivity developments since 2013 are not a specific feature of the euro area. In the United States, average growth of output per hour was only around one-third of its pre-crisis average; in the United Kingdom, it stood at only one-fifth. Productivity growth also decelerated markedly in Canada and Japan. Meanwhile, the decline in the euro area was comparatively moderate; hourly productivity growth here between 2013 and 2019 did not differ markedly from that in other advanced economies. By contrast, hourly productivity growth in the euro area had been below average before the onset of the financial crisis.

Diminished productivity growth in the four large euro area countries even prior to the financial crisis Both cyclical and structural factors may provide possible explanations for the subdued productivity dynamics. It is conceivable that severe recessions, as seen during the global financial and economic crisis and the subsequent sovereign debt crisis, could affect productivity gains in the longer term by weakening the development and adoption of innovations, or disrupt the allocation of production factors (see also



the box on pp. 28 f.).8 However, data for the past four decades show that the slowdown in productivity growth started prior to the global financial and economic crisis, at least in the four largest euro area countries. This finding contradicts a purely cyclical explanation of declining productivity growth and also points to structural causes.

Explanatory approaches to the slowdown in labour productivity growth

Key drivers of labour productivity

Growth accounting is one way to study labour productivity developments in greater detail. Most commonly, the change in labour productivity is decomposed into the contributions of

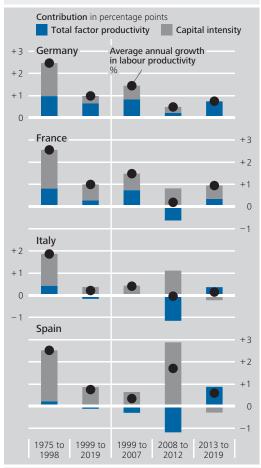
Productivity slowdown, according to growth decomposition ...

6 It should, however, be borne in mind that measuring labour productivity in the services sector sometimes presents a challenge, for instance, when taking into account quality improvements.

7 A clear shift away from building construction, which has declined particularly sharply, towards civil engineering, where per capita value added is just over 40% higher, also contributed to the considerable increase in labour productivity seen in the Spanish construction sector since 2008. See Deutsche Bundesbank (2014).

8 See, inter alia, Comin and Gertler (2006), Liu and Wang (2014), and Anzoategui et al. (2019).

Contributions of capital intensity and total factor productivity to labour productivity growth*



Sources: European Commission (AMECO database) and Bundesbank calculations. * Capital intensity defined as the ratio of the capital stock to the number of hours worked. Labour productivity measured as the ratio of real GDP to the total number of hours worked.

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capital intensity, which is defined as the ratio of the capital stock to labour input, and total factor productivity (TFP).9 The TFP contribution is measured as a residual. It captures the part of productivity growth that cannot be attributed to changes in the factor inputs, serving as a yardstick for the increased efficiency of production processes. 10 The long-term development of TFP is sometimes also seen as an indicator of disembodied technological progress. In the short term, though, it is difficult to make such an interpretation. Even in the case of severe economic downturns, decreases in technological progress can, if at all, only be regarded to a very limited extent as a plausible explan-

ation for calculated TFP declines. Furthermore, due to its residual character, the contribution of TFP can also pick up other influences on labour productivity. Against this background, there is good reason to interpret TFP more broadly and to view it as a metric of production efficiency.¹¹

According to the growth accounting exercise, TFP growth in the four largest euro area economies has lost significant momentum over the past 45 years. An examination of individual subperiods shows that the average TFP development between 1999 and 2019 was considerably burdened by the crisis years between 2008 and 2012. In Germany and France, however, the TFP growth rate also remained under its average of the pre-crisis period in the subsequent recovery phase. In Italy, TFP growth provided no stimulus even prior to the outbreak of the global financial crisis, whilst in Spain, TFP even decelerated. Recently, however, TFP has risen in Spain in particular. Nevertheless, according to the calculations, production efficiency overall has also been lower in Italy and Spain in the past 20 years than before the turn of the millennium. Although the declining TFP growth rates in the four largest euro area countries heavily influence the development of the euro area as a whole simply by virtue of their aggregate economic output, a similar pattern can also be identified in a host of other euro area economies. 12

... due to declining TFP growth ...

The contributions of capital intensity to labour productivity growth in the four largest euro area countries were far lower in the period following the establishment of the monetary union than they had been in the preceding 25

... and reduced capital intensity contributions

- **9** The growth accounting approach is based on several assumptions. For instance, it is typically assumed that the relationship between output and the effective factor input can be depicted using a Cobb Douglas production function with constant returns to scale. Furthermore, it is assumed for the sake of simplicity that perfect competition exists in the goods and factor markets. See also Solow (1957).
- **10** See also Comin (2008).
- 11 See Hulten (2001).
- **12** A fall in TFP growth was also apparent in this period in Austria, the Netherlands and Belgium. Together with the four largest euro area countries, these countries account for approximately 90% of economic output in the euro area.

years. Subdued investment and increased labour input were key factors in this development.¹³ Between 2013 and 2019, the growth contributions of capital intensity contracted once more.

TFP measurement influenced by factors such as quality of work, capacity utilisation ...

Standard growth accounting provides initial information about the main driving forces behind the slowdown in productivity growth. However, the results cannot be interpreted without acknowledging certain caveats. This applies in particular to the TFP contributions. Due to their residual character, they can be biased if the actual factor inputs are not accurately measured. Thus far, for example, neither changes in the quality of the factor labour or fluctuations in the degree of utilisation of labour and capital have been taken into account.14 However, further analyses that control for these important factors confirm the finding of decreasing TFP growth, at least for the period since the establishment of monetary union (see also the box on pp.22 ff.).15

... and embodied technology Moreover, traditional growth accounting typically does not take into account the fact that technological progress can be embodied and, for example, only be released through investment in new equipment. This applies to a large extent to information and communication technologies. ¹⁶ The contribution of capital-embodied technological progress to labour productivity growth can be determined with a model-based analysis. Here, too, the larger euro area economies display declining growth rates. This supports the hypothesis of a structurally driven slowdown in productivity growth (see also the box on pp. 25 ff.).

Determinants of total factor productivity at the corporate level

With regard to the importance of total factor productivity for labour productivity, the question arises as to the underlying explanatory factors for the slowdown in TFP growth in large

parts of the euro area. A key determinant of the overall TFP path is the development of TFP at the enterprise level,¹⁷ which is a function of enterprises' power to innovate and adopt new technologies. The former measures an enterprise's ability to develop new products and processes, while the latter assesses how well enterprises are able to integrate new technology into their production processes. Enterprises' innovation and adoption abilities have recently become a focal point.¹⁸

Macroeconomic productivity development shaped by enterprises' ability to innovate and adopt

Own analyses of corporate data selected from a group of euro area countries¹⁹ suggest that the previously above-average TFP growth of highly productive enterprises in the manufacturing sector slowed significantly (for more details, see the box on pp. 28 f.). By contrast, the innovative power of service providers with the highest TFP level even seems to have increased over time, in spite of burdens resulting from the global financial crisis and the subsequent sovereign debt crisis. Thus, although there is no evidence of a general lack of innovation at the enterprise level, there are indications of a shift in innovation toward services.

No evidence of a general decline in innovative power but rather of a shift toward services

- 13 See also Deutsche Bundesbank (2016). The temporary increase in the contribution of capital intensity to hourly labour productivity growth in Italy and Spain during the global financial and economic crisis and the subsequent sovereign debt crisis was the arithmetical effect of the considerable decline in labour input during this period.
- **14** For example, actual labour input may differ between employed persons working the same number of hours on account of their training, professional experience and other individual characteristics. For more information on quality adjustments to the factor labour and the difficulties entailed, see, inter alia: OECD (2001).
- 15 Further measurement problems arise in the price adjustment of inputs and outputs as well as the recording of capital input, particularly in the case of intangible goods (see OECD (2001) and Deutsche Bundesbank (2002)). The assumptions of constant returns to scale and perfect competition are also gross simplifications (see Hulten (2001, 2010)).
- **16** See, inter alia, Solow (1960), Greenwood et al. (1997), Sakellaris and Wilson (2004) and Hulten (2010).
- 17 See also Syverson (2011).
- **18** See, inter alia, Andrews et al. (2015, 2019) and OECD (2015).
- **19** The analysis is based on data for Germany, Spain, France, Italy, Belgium and Portugal for the period 2004-2017.

Measuring total factor productivity in the euro area

Total factor productivity (TFP) captures the fraction of output that cannot be explained by the amount of production factors. It is thus a key indicator for the efficiency of production processes. However, TFP is not directly observable and, therefore, has to be estimated. A common approach is to capture TFP developments by decomposing output growth into the contributions of the primary production factors, i.e. labour and capital, as well as a residual component. The latter, also known as the Solow residual, is interpreted as a measure of TFP growth.

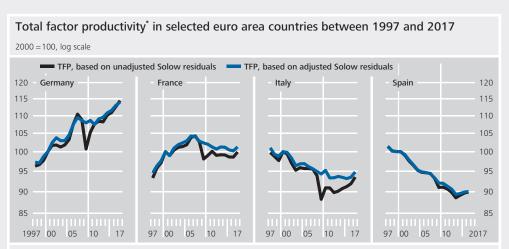
One key challenge for the determination of TFP developments lies in precise measurement of the used production factors.³ For example, idle assets or not fully utilised employees can cause an overestimation of factor inputs and thereby an underestimation of TFP growth. As the rate of capacity utilisation is typically procyclical, this might particularly bias the measurement of TFP in boom and bust phases.

By incorporating an indicator for the degree of capacity utilisation, it is possible to better account for the actual use of production factors and, as a result, to measure TFP growth more accurately.⁴ One such indicator can be found in the European Commission's business and consumer surveys.⁵

Not least in order to make full use of the available information, the growth decompositions are conducted at the sectoral level.⁶ The Solow residual in each economic sector is calculated as the difference between the growth rate of price-adjusted gross value added and the growth rates of capital and (quality-adjusted) labour input weighted by the respective production elas-

ticities.⁷ The Solow residuals are then regressed in a panel on the percentage change in the economic sectors' average rates of capacity utilisation and sectorspecific indicator variables.⁸ Utilisationadjusted TFP growth of an economic sector

- 1 See Comin (2008).
- 2 See Solow (1957). The decomposition is based on a Cobb-Douglas production function with constant returns to scale, which characterises output as a function of the capital and labour inputs (weighted by the production elasticities) as well as TFP. Assuming perfect competition on the factor and product markets, cost minimisation by firms implies that the production factors are remunerated according to their marginal products. The production elasticity of labour can therefore be determined by the ratio of the wage bill to gross value added, while the elasticity of capital is equal to one minus the elasticity of labour. See Deutsche Bundesbank (2012) and Hulten (2010).
- **3** This is only one possible bias. Distortions in the measurement of TFP can also result, inter alia, from disregarding factor-embodied technological progress or imperfect competition. See Hulten (2001, 2010) and Baqaee and Farhi (2020).
- 4 See Comin et al. (2020).
- **5** For the big euro area countries, quarterly data on the degree of capacity utilisation are available from the first quarter of 1985 onwards for the manufacturing sector and from the third quarter of 2011 onwards for the services sectors (Italy from the third quarter of 2010 onwards). See European Commission (2020).
- **6** The data were taken from the EU KLEMS database (https://euklems.eu/).
- 7 In the EU KLEMS data, labour input is weighted, inter alia, by the average educational attainment and age of the persons employed in the respective economic sector in order to incorporate the characteristics of the production factor. Capital services are based on the capital stock weighted by the user cost of capital. See EU KLEMS (2019). In order to account for the dynamics of the production elasticities, these are calculated as the average of the current and previous year. 8 The methodology follows the approach outlined by Basu et al. (2006) for the United States. Comin et al. (2020) use a similar approach to determine TFP measures for selected euro area countries. For the years prior to 2011 (for Italy prior to 2010), the capacity measures for the services sectors are extended backwards by using the growth rate of average capacity utilisation in the manufacturing sector (see Comin et al. (2020)). Due to a lack of data availability, the average capacity utilisation for the manufacturing sector is also used for the construction, trade as well as energy and water supply sectors. Survey data from the ifo Institute and the National Institute of Statistics and Economic Studies (Institut national de la statistique et des études économiques) are used for the German and French construction sectors, respectively.



Sources: EU KLEMS, European Commission and Bundesbank calculations. * Unadjusted total factor productivity (TFP) was calculated using a prototypical Solow decomposition. Survey data on capacity utilisation were used in an econometric model to adjust TFP for changes in the rate of capacity utilisation.

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is then computed as the difference between the Solow residual and the estimated impact of changes in capacity utilisation.⁹

Since changes in capacity utilisation can, in turn, be triggered by exogenous changes in TFP, an instrumental variables approach is used for the estimation. The approach requires variables that are correlated with capacity utilisation, but not with TFP growth. The following structural shock series that were obtained in separate analyses prove suitable: an international oil price shock, an international financial market shock and macroeconomic uncertainty shocks.¹⁰ Finally, aggregate TFP growth is derived by aggregating the adjusted TFP growth rates of the various economic sectors, weighted by gross value added shares.11

The calculations were performed for each of the four major Member States using data for 19 economic sectors. 12 To account for differences in the effect of capacity utilisation across different areas of the economy, the economic sectors were divided into three groups (durable manufacturing, non-durable manufacturing, and other economic sectors, in particular services). The

panel estimations were conducted separately for each group.

While the time series of the unadjusted and adjusted TFP measures show similar trends, they can differ significantly in the short term. This is especially true for the years during the global financial and economic crisis. Whilst, according to the standard Solow decomposition, TFP contracts sharply in most countries during this period, the adjusted measure shows no or only a comparatively moderate decline.¹³ Temporary

9 Capacity utilisation is only taken into account if the estimated coefficient is significant at the 90% level.

¹⁰ The oil price shock is calculated on the basis of movements in the Brent oil price (see Basu et al. (2006)). The uncertainty shocks stem from structural macroeconomic models (see Jurado et al. (2015) and Meinen and Röhe (2017)). The financial market shock is based on the indicator introduced by Gilchrist and Zakrajšek (2012) for the non-predictable component of risk premia on US corporate bonds. Statistical tests certify that the instruments are sufficiently correlated with the capacity utilisation of the sectors provided in the surveys.

¹¹ See Hulten (1978).

¹² The estimation period spans from 1997 to 2017 (Spain: 1997 to 2016). The models comprise sections D-E, F, G, H, I, J, K, M-N, R-S of the Statistical classification of economic activities in the European Community (NACE) as well as NACE divisions C10-C12, C13-C15, C16-C18, C20-C21, C22-C23, C24-C25, C26-C27, C28, C29-C30 and C31-C33 of the manufacturing sector.

¹³ This can also be observed, inter alia, in Austria, the Netherlands and Belgium.

reductions in typical, unadjusted TFP indicators can therefore often be explained by changes in capacity utilisation and, consequently, do not represent efficiency declines.

Over the longer term, the estimations confirm the findings from macroeconomic growth decompositions which are based on aggregate data (see also the remarks on pp. 19 ff.). In Germany, a slowdown in TFP growth is apparent following the global financial and economic crisis, whilst in France, TFP even stagnated. The picture is somewhat different for Italy and Spain. Following a continuous decline over most of the observation period, TFP improved for the first time in these countries before the onset of the current economic downturn.

Signs of enterprises' waning ability to adopt new technologies also apparent With regard to enterprises' ability to adopt new technologies, there have been indications of a growing discrepancy between the TFP growth of highly productive enterprises and that of other enterprises since the global financial and economic crisis. The manufacturing sector is showing a similar development, although the differences between the groups of enterprises are noticeably smaller than those seen for services. Overall, the empirical analysis thus provides a differentiated picture of the reasons behind a flattening-out of TFP growth.

Reduced capacity to innovate and adopt new technologies may have both cyclical and structural causes A decline in an enterprise's capacity for innovation and technology adoption can have a variety of causes. In addition to cyclical influences – in the form of severe recessions, for example – these include structural impediments such as a lack of quality in the institutional environment,²⁰ rigidities in the labour and product markets,²¹ an increasing market concentration²² or a lack of availability of (specific) human capital.²³ Thus, the considerable economic tur-

moil in the wake of the global financial and economic crisis and the subsequent sovereign debt crisis are just one possible cause of the slowdown in innovation capabilities and diffusion in the euro area countries. For example, there are also indications in the euro area of a clear need for reform in the institutional and regulatory frameworks, in some cases.²⁴ Added to this is the skills mismatch observed in the euro area labour market,²⁵ which is likely to become increasingly important in view of the ongoing demographic change (see also the remarks on pp. 33 ff.).

²⁰ See, inter alia, Parente and Prescott (2000), Manca (2010) and Mokyr (2018).

²¹ See, inter alia, Andrews et al. (2019).

²² See, inter alia, Autor et al. (2020).

²³ See, inter alia, Bartel and Lichtenberg (1987), Abowd et al. (2005) and Berlingieri et al. (2020).

²⁴ See, inter alia, Deutsche Bundesbank (2019a).

²⁵ See European Centre for the Development of Vocational Training (2015, 2019).

Capital-embodied technological progress and its importance for labour productivity: a DSGE analysis

Not least in view of the role played by information and communication technology (ICT), a range of studies has emphasised the importance of capital-embodied technological progress for the economy as a whole.1 This specific form of technological change requires capital investment to become effective, and it impacts labour productivity, inter alia, by improving the quality of the capital stock.2 Investment by firms in new, more powerful computer equipment is commonly cited as an example of capitalembodied technological progress enhancing productivity. Standard growth accounting approaches, which are based solely on disembodied technological progress, ignore these relationships.3

Dynamic stochastic general equilibrium (DSGE) models⁴ are one way to grasp the macroeconomic role of capital-embodied technological progress.⁵ This framework can also be used to estimate its contribution to trend labour productivity growth.⁶

To illustrate the approach, this box analyses labour productivity growth in the three largest euro area countries and the United States based on a DSGE model with different types of capital. In order to evaluate the extent to which capital-embodied technological progress specifically in the field of ICT contributes to labour productivity growth, we divide the capital stock (excluding structures) into two types of capital: ICT capital, which comprises information and communication technology plus software and databases, and other assets (non-ICT capital).⁷

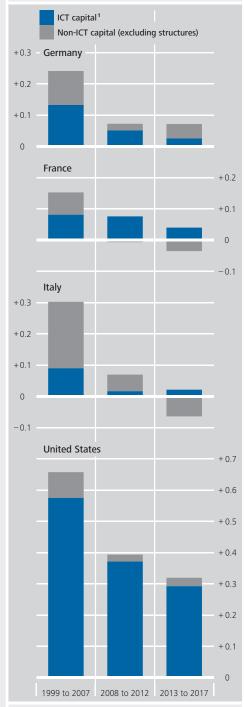
In the model, the total contribution of capital-embodied technological change is equal to the weighted sum of the technological progress associated with each of these types of capital.8 Capital-specific technological progress can be measured by the development of the ratio of consumption

goods prices to investment goods prices.⁹ The idea here is that investment-specific innovations will lower the price of investment goods relative to that of consumption goods.¹⁰ The resulting increase in demand for investment goods is ultimately what enables technological progress to have its productivity-enhancing effect. However, the importance of capital-embodied technological progress of a specific capital type for labour productivity growth is also determined by its relative weight in the production process. Assuming a Cobb-Douglas production function with constant returns

- 1 See, inter alia, Solow (1960), Greenwood et al. (1997), Hercowitz (1998), Cooper et al. (1999) and Greenwood and Jovanovic (2001).
- **2** The terms "capital-embodied technological progress" and "investment-specific technological progress" are therefore often used interchangeably in the literature.
- **3** See Solow (1957).
- 4 A typical feature of this model class is the way it seeks to explain macroeconomic relationships and developments based on the individual optimal decisions of rational economic agents. More specifically, it assumes that economic agents do not make any systematic errors when forming their expectations and that they make optimum use of all the information available to them. In this sense, they behave "rationally". This model framework is presented in detail, inter alia, in Christiano et al. (2018).
- **5** See, inter alia, Justiniano et al. (2011), Schmitt-Grohé and Uribe (2012) and Díaz and Franjo (2016).
- **6** See, inter alia, Greenwood et al. (1997), Bakhshi and Larsen (2005) and Rodríguez-López and Torres (2012).
- **7** The analysis for the three euro area countries is based on data from the EU KLEMS database on the capital stock, depreciation rates, the labour income share and labour productivity. These data are available over the period 1999 to 2017. For the United States, meanwhile, the relevant data are sourced from the US Bureau of Economic Analysis (national income and product accounts and fixed assets accounts) and the US Bureau of Labor Statistics.
- **8** The assumption here is that exogenous capitalembodied technological progress can be described by a stochastic trend. See also Schmitt-Grohé and Uribe (2011).
- **9** The model assumes that there is a linear relationship between the relative price and capital-embodied technological progress. Empirical evidence suggesting that such a relationship exists can be found, inter alia, in Schmitt-Grohé and Uribe (2011).
- **10** See Greenwood et al. (1997), Fisher (1999) and Pakko (2002).

Contributions of capital-embodied technological progress to average annual labour productivity growth in selected countries*

Percentage points



Sources: EU KLEMS, Haver Analytics and Bundesbank calculations. * Contributions of capital-embodied technological progress, broken down by type of capital, to the average annual (aggregate) growth rate of labour productivity (real GDP per hour worked). Computed from a dynamic stochastic general equilibrium model. 1 Investment capital in the areas information and communication technology, software and databases. Deutsche Bundesbank

to scale, the weight is given by the ratio of the respective capital income to total labour income. 11.12 This allows both technological progress and its relative importance for aggregate productivity to be derived in a model-consistent manner from macroeconomic data. In traditional growth accounting approaches, by contrast, the contribution of (disembodied) technological progress to labour productivity growth is typically measured as a residual. This might lead to considerable mismeasurement of technological progress (see also the box on pp. 22 ff.). 13

However, the approach outlined above relies on a number of simplifying assumptions. These include, in addition to the basic principles of the standard neoclassical model, the assumption of a closed economy and of labour being a homogenous production factor. 14,15 The model furthermore presumes that there is a direct inverse relationship between capital-embodied technological progress and the respective relative price of ICT and non-ICT investment goods. This requires that the prices of investment goods are accurately captured in the official statistics. 16

- 11 One particular feature of the model specification chosen here is the assumption of time-varying production elasticities. Therefore, unlike in the prototypical approach, there is no need to confine the analysis to an assessment of long-term equilibria (where it is standard practice to assume constant parameters as production elasticities that are calibrated to average values). Instead, changes in capital and labour income shares can be taken into account. In the above DSGE approach, exogenous stochastic shocks are assumed to capture the time-varying production elasticities. See Young (2004), Ríos-Rull and Santaeulàlia-Llopis (2010) and Lansing (2015).
- 12 See Eden and Gaggl (2018).
- 13 See also Greenwood and Krusell (2007).
- **14** For a critical discussion of these assumptions, see, inter alia, Chen and Wemy (2015).
- **15** The impact of capital goods imports on investment-specific technological progress is discussed, inter alia, in Cavallo and Landry (2010).
- **16** In this regard, the literature notes that in the field of ICT especially, insufficient attention has been given to adjustments for changes in quality, which can lead to a mismeasurement of technological progress. See, inter alia, Byrne et al. (2017).

Model-based growth accounting shows that the contributions of capital-embodied progress in ICT to aggregate labour productivity growth turned out to be smaller in all countries under observation during the post-crisis period compared to the time before the global financial and economic crisis. In this context, it is noteworthy that ICTspecific technological progress had a comparatively low relative weight for labour productivity over the entire observation period.¹⁷ This suggests that the at times fairly large ICT-specific growth contributions to labour productivity, particularly in the 1999-2007 sub-period, can be attributed to exceptionally strong growth rates of capitalembodied technological progress. This is particularly the case for the United States. 18

Non-ICT-specific technological progress evolved in a similar way over time, its contribution to labour productivity growth likewise decreasing markedly and even changing signs in part in recent years.

Taken as a whole, all countries considered saw the growth contributions of capital-embodied technological progress decline in the post-crisis period relative to the preceding era. This outcome is consistent with the finding that TFP dynamics have been receding, as outlined by traditional growth accounting exercises (see the remarks on this topic on pp. 19 ff.).¹⁹

17 Average ICT capital income shares range between 2% (Italy) and 5% (United States) over the total observation period. By contrast, capital income shares for non-ICT assets vary from 10% in the United States to 19% in France.

18 The United States records significantly higher contributions of ICT-specific technological progress to labour productivity growth than the three euro area countries over all periods under observation. This finding is consistent with the results of other empirical studies. See, inter alia, van Ark et al. (2003) and Cette et al. (2015).

19 See Cette et al. (2016).

The role of factor allocation and business dynamism in the development of total factor productivity

TFP growth also influenced by factor allocation between enterprises In addition to within-firm dynamics, the distribution of production factors, such as labour and capital, across enterprises plays an important role in aggregate productivity growth. The reallocation of production factors from relatively low-productivity enterprises to high-productivity enterprises is a key driver of aggregate TFP growth.²⁶ By contrast, systematic misallocations reduce aggregate production efficiency.

ging marginal revenue products within an industry suggest that value added can be pushed up by decreasing (increasing) the input of production factors in enterprises with a relatively low (high) marginal revenue product. In case of an efficient allocation, the marginal revenue products of enterprises in an industry should be similar to each other.²⁷

Corporate data provide an opportunity to examine the development of marginal revenue products. For the euro area, however, limited data availability across countries and sectors ... points to increasing misallocation in the euro area

Increasing dispersion of marginal revenue products within economic sectors ... A comparison of the marginal revenue products of capital and labour across enterprises within an industry provides an important indication of whether production factors have been misallocated. The marginal revenue product shows how revenue would change if an enterprise raised its factor input marginally. Diver-

26 See, inter alia, Foster et al. (2001, 2006), Bartelsman et al. (2013) and Restuccia and Rogerson (2017).

27 In macroeconomic models, the marginal revenue products of enterprises in an industry are, under certain assumptions, identical in a first-best scenario. These models assume, in particular, identical production functions of the Cobb-Douglas type as well as perfect price adjustments to changes in demand. See Hsieh and Klenow (2009) and Restuccia and Rogerson (2017).

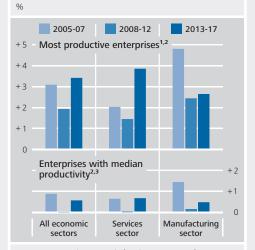
Developments in innovation activity and productivity growth in Europe

In recent years, the advanced economies have seen a marked decline in productivity growth. "Techno-pessimists" attribute this to a slowdown in technological progress, i.e. a general low level of innovation.¹ From the point of view of "techno-optimists", however, technological progress is generally still intact. In their opinion, weak productivity growth is more a result of mismeasurement, allocation inefficiencies, and a reduced diffusion of innovation.²

The question of the extent to which weak productivity growth in Europe stems more from a low level of innovation or more from reduced diffusion can be investigated using a dataset covering enterprises from six euro area countries (Belgium, France, Germany, Italy, Portugal and Spain); this data can be used to calculate growth rates in total fac-

tor productivity (TFP) for each enterprise and each year.3 The findings are inconsistent: while TFP growth among highly productive enterprises4 - interpreted here as a measure of innovative power - actually appears to have increased recently in the services sector, it declined in the manufacturing sector. According to the calculations, productivity growth among the leading enterprises in the high-technology segments of the manufacturing sector in particular - such as pharmaceuticals, mechanical engineering and IT hardware - has fallen distinctly over time.5 One reason for this may have been waning business dynamics (as measured by rates of market entry and exit). At the very least, this is suggested by the relatively high and sharply increasing average age of the leading enterprises in

Average annual TFP growth rates for enterprises at and behind the technology frontier



Sources: iBACH (micro Bank for the Accounts of Companies Harmonized), ECCBSO (European Committee of Central Balance-Sheet Data Offices), Orbis (Bureau van Dijk), and ECB and Bundesbank calculations. 1 Weighted sum of the average annual growth rates in total factor productivity (TFP) of the most productive 5% of enterprises in each industry (NACE level 4). 2 The weighted aggregate across industries is calculated using the average number of employees in each industry during the period from 2005 to 2017. 3 Weighted sum of the TFP growth rates of those enterprises with the median TFP level in each industry (NACE level 4).

Deutsche Bundesbank

- 1 See Gordon (2016) and Bloom et al. (2020a).
- 2 See Brynjolfsson and McAfee (2014), van Ark (2016) and OECD (2015).
- 3 The analysis is based on the iBACH database (micro Bank for the Accounts of Companies Harmonized) processed by the ECB and expanded to include data from the Orbis database (Bureau van Dijk). This database contains annual balance sheet data from a multitude of non-financial enterprises from the six aforementioned countries. The database provides information on a considerable portion of the relevant enterprises in France, Italy, Portugal, Spain and, to a limited extent, in Belgium. Germany is represented only by a comparatively small number of large enterprises, which are included in the Orbis database. Annual and enterprisespecific TFP levels and growth rates were calculated using an estimated production function. The dataset covers the period from 2005 to 2017 as well as the following NACE sections: C (excluding C12 and C19), F, G, H (excluding H51), I, J, L, M (excluding M75) and N (excluding N78 and N82).
- **4** For each year, the most productive enterprises are defined as the 5% of enterprises with the highest TFP level in a given industry (NACE level 4) in that year.
- **5** The segments of the manufacturing sector are divided into those with relatively intensive usage of high technology and those with comparatively limited usage of high technology on the basis of the corresponding Eurostat classification. The group of high-technology industries includes NACE divisions C20, C21, C26, and C27 to C30.

this subgroup.⁶ On the whole, however, the enterprise data provide no indication of a general low level of innovation.⁷

With regard to TFP growth among less productive enterprises, ⁸ which comprise the majority of enterprises in every sector, the findings are similarly complex. In this case, too, the TFP growth of enterprises in the manufacturing sector appears to have declined noticeably. By contrast, TFP growth in the services sector stagnated despite heightened innovation activity among the leading enterprises. As a result, the gap in productivity between highly productive and less productive service providers widened considerably, which may be interpreted as a sign of a reduced diffusion of technology.⁹

There are a number of possible explanations for the decline in technology diffusion observed in some sectors. For instance, the nature of technological progress over recent years, often characterised by the use of digital technologies and intangible capital, may have made it more difficult to close productivity gaps. 10 In addition, a general rise in market power – not necessarily induced by technology – may have reduced incentives to adapt technologies or innovate. 11 In Europe, however, there is very little evidence to suggest a broadly based increase in market concentration and market power.12 Ultimately, even if there are incentives to adapt innovations, it is likely that, in many cases, enterprises simply lack the corresponding complementary resources required to do so (such as well-trained and skilled workers or a specific infrastructure). 13

In summary, the results of the enterprise data analysis suggest that there are multifaceted reasons for weak macroeconomic productivity. They do not provide any indication of a general low level of innovation. The findings suggest that the leading, highly

productive enterprises should be given sufficient scope to develop their growth potential, at least to the extent that this does not excessively subdue their incentives to innovate or third parties' incentives to imitate. Less successful competitors should not be prevented from exiting the market and the subsequent reallocation of resources should not be obstructed. Such an approach would most likely boost macroeconomic productivity growth.

6 In the subgroup of industries that utilise high technology less intensively, the average age of enterprises at the technology frontier (known as "frontier firms") rose by just over 1 year from 14 years (in the period from 2006 to 2007) to around 15¼ years (in the period from 2013 to 2017). For industries characterised by greater usage of high technology, this figure rose by around 5½ years to just under 19 years during the same period.

7 Here, it also cannot be ruled out that, especially during phases of cyclical upturn and downturn, TFP growth is captured only imprecisely (for more information, see the box entitled "Measuring total factor productivity in the euro area").

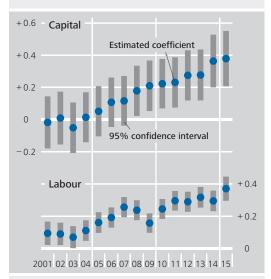
8 In this context, the productivity growth of this group is approximated based on the TFP growth of the enterprise with the median TFP level in each year and each industry (NACE level 4).

9 A number of studies have reached similar overall conclusions for the services sector in particular. See Andrews et al. (2015, 2019), Lotti and Sette (2019), Cette et al. (2018) and Decker et al. (2016).

10 In this vein, it is argued that the rising use of digital technologies and intangible capital, which is often associated with high fixed costs and network effects, also leads to increasing economies of scale. See Haskel and Westlake (2018), Aghion et al. (2020) and De Ridder (2020). Such economies of scale cannot be replicated at will. Increasing economies of scale could also result in "superstar effects" (see Autor et al. (2020)): especially in less mature sectors, market leaders may use economies of scale to capture large market shares within very short periods of time, thus leading to rising market concentration and market power. This may reduce the incentives to invest in innovation and adapting technologies, which would ultimately have a dampening effect on productivity growth. See Aghion et al. (2020), De Ridder (2020) and Le Mouel and Schiersch (2020).

- **11** For example, multiple studies suggest a broadly based increase in market power for the United States in particular over the past few years. See De Loecker et al. (2020).
- 12 See Deutsche Bundesbank (2017), OECD (2018) and Gutierrez and Philippon (2020).
- 13 In particular, there may be a lack of sufficient human capital (see Berlingieri et al. (2020)). This applies especially with regard to digital technologies that require employees with relevant IT skills in order to be utilised successfully. See Autor et al. (2003) and OECD (2016).

Estimated changes in the dispersion of marginal revenue products of capital and labour in the euro area*



Sources: CompNet and Bundesbank calculations. * Changes in the average dispersion of (standardised) marginal revenue products within selected economic sectors compared with the base year 2000, derived from a panel model with indicator variables for countries, sectors and years. The estimations include data from 11 euro area countries (Belgium, Finland, France, Germany, Italy, Lithuania, the Netherlands, Portugal, Slovakia, Slovenia and Spain) and 57 NACE divisions from sections C, F, G, H, I, J, L, M and N.

Deutsche Bundesbank

complicates this analysis.²⁸ Nonetheless, by using a panel model with indicator variables for industries, countries and years, it is possible to estimate how the dispersion of marginal revenue products has changed on average across economic industries.29 The estimated coefficients of the annual indicators reflect how the dispersion has changed on average across all industries and countries over time. They show that the dispersion of marginal revenue products has increased since the mid-2000s, and that this rise accelerated again slightly at the end of the estimation horizon.30 Moreover, this fairly continuous development suggests that these are not purely cyclical phenomena. Rather, allocation efficiency within euro area industries appears to have deteriorated structurally, which is likely to have contributed to the slowdown in euro area productivity growth.31

Changes in business dynamism are one possible explanation for the declining allocation efficiency between enterprises. For instance, a

number of studies stress the importance of enterprise births and deaths for reallocation processes and productivity growth.³² Schumpeterian growth models, in which the entry of young innovative firms into the market increases the degree of competition and the pressure for competitors to innovate, thus leading to the exit of less profitable producers ("creative destruction"), also indicate a link between business dynamism and productivity growth.³³

Owing in particular to the limited availability of data, a panel model is estimated to answer the question of how business dynamism has developed in the euro area.³⁴ Country-specific sectoral market entry and exit rates are regressed on a constant and indicator variables

Data on enterprise births and deaths in the euro area ...

28 Data on marginal revenue products are taken from the CompNet database (www.comp-net.org). An enterprise's marginal revenue product is calculated as a product of the production elasticity of labour or capital and the ratio of revenue to labour or capital input, assuming a Cobb-Douglas production function and perfect competition. The dispersion is calculated as the standard deviation of the marginal revenue products across enterprises within an industry, with these being normalised at the industry level (see Kehria (2011)).

29 The estimates include data from eleven euro area countries and 57 industries for the years 2000 to 2015. The latter belong to the following NACE sections: "manufacturing" (C), "construction" (F), "wholesale and retail trade; repair of motor vehicles and motorcycles" (G), "accommodation and food service activities" (I), "information and communication" (J), "transportation and storage" (H), "real estate activities" (L), "professional, scientific and technical activities" and "administrative and support service activites" (M-N). The data situation varies considerably across countries. For example, only data for NACE section C are available for Germany. See CompNet (2020).

30 It should be noted that estimation uncertainty is higher due to a smaller number of observations for the dispersion of the marginal revenue product of capital.

31 The finding is consistent with indications that misallocations have increased in southern European countries (Gopinath et al. (2017)) and selected OECD countries (Corrado et al. (2019)). When interpreting the results, it should be borne in mind that an aggregate analysis may mask potential differences between countries.

32 See, inter alia, Foster et al. (2001, 2006, 2008), Lentz and Mortensen (2008) and Decker et al. (2017).

33 See, inter alia, Schumpeter (1934), Nelson (1981), Aghion and Howitt (1992), Caballero and Hammour (1996) and Aghion et al. (2014).

34 The inclusion of cross-sectional information in the form of sectoral data on enterprise births and deaths provides an opportunity to shed light on the development of business dynamism in the euro area, despite a limited time series dimension and existing data gaps.

for countries, years and sectors.^{35,36} The changes in the annual enterprise birth and death rates in the euro area are then derived from the estimated coefficients of the time indicators.³⁷ The data cover 19 euro area countries, each with nine economic sectors,³⁸ for the years 1999 to 2017.

... tend to show slowing business dynamism There are signs that business dynamism in the euro area has undergone a slowing trend. However, developments have not been steady and the estimates are subject to considerable uncertainty. The development between 2013 and 2017 is particularly striking. Despite the broad-based economic upturn over this period, the rates of enterprise births and deaths declined markedly. As the economic situation was favourable overall, one would normally have expected a rise in enterprise births.³⁹ A possible explanation for this development is the similarly unusual marked decline in the market exit rate. If fewer firms exit the market, this can impede the entry of potential candidates, as competition for sales markets and scarce production factors is then greater. 40 The question therefore arises as to whether the extended policy meas-

35 The birth rate (death rate) is defined as the ratio of the number of enterprise births (enterprise deaths) to the total number of active enterprises in the respective year. The analysis only considers enterprises with at least one employee in order to ensure better comparability across countries. See Eurostat (2007).

36 The country data on enterprise demographics reported by Eurostat only go back to 1997, with data availability varying across member countries. In addition to fundamental differences regarding when data were first recorded, the country data are incomplete in some cases. Furthermore, a conceptual revision of the statistical classification of economic activities in the European Community (NACE) makes it more difficult to examine business dynamism over time. The updated version of statistics relating to economic activities (NACE Rev. 2) has been applicable since 1 January 2008. See Eurostat (2008).

37 Average enterprise birth and death rates over time are calculated from the estimated coefficients of the country and sector indicators.

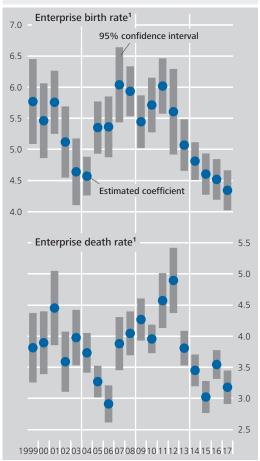
38 The economic activities covered include NACE sections C, F, G, I, J and H, and L to N, as well as the sections "mining and quarrying" (B), "electricity, gas, steam and air conditioning supply" and "water supply; sewerage, waste management and remediation activities" (D-E) and "financial and insurance services" excluding holding companies (K, excluding NACE group 642).

39 See also Koellinger and Thurik (2012), Lee and Mukoyama (2015) and Tian (2018).

40 See also Caballero et al. (2008) and Acharya et al. (2019).

Estimated enterprise birth and death rates in the euro area*





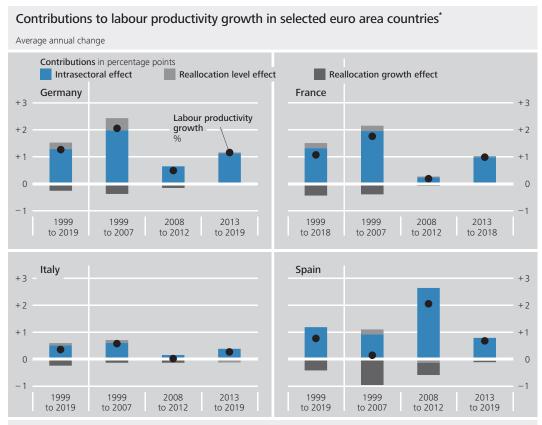
Sources: Eurostat and Bundesbank calculations. * Estimated birth and death rates for enterprises with at least one employee. The underlying panel estimations include data for all 19 euro area countries and the following nine economic sectors or sector groups according to NACE Rev. 2: B, C, D-E, F, G, I, J and H, K and L-N. 1 Number of enterprise births or deaths relative to the total number of active enterprises in the respective year. Deutsche Bundesbank

ures implemented during this period were beneficial to established enterprises in particular and could have thus dampened business dynamism.

Structural change as a possible cause of flattening productivity growth

Productivity-dampening effects can also emerge from the changing economic structure and the associated intersectoral shifts in production factors. One prominent hypothesis in this context is that the share of employees in

Impact of reallocation of labour input between economic sectors on aggregate productivity growth



Sources: Eurostat and Bundesbank calculations. * Contributions to growth in labour productivity (real gross value added per hour worked) in the market sector, which comprises NACE sections A, B-E, F, G-I, J, K, M-N and R-S. Deutsche Bundesbank

the workforce working in economic sectors with comparatively low productivity growth increases on account of consumer preferences.41 This curbs overall productivity growth even without changes in productivity or its growth rate in individual enterprises or sectors.42 The significance of this reallocation effect can be illustrated by breaking down productivity growth into three sub-components. A "reallocation level effect" captures the contribution to aggregate productivity growth that results from a shift in labour input between sectors with different productivity levels. A "reallocation growth effect" measures the impact of a shift in working hours between sectors with different productivity growth rates. In addition, there is an "intrasectoral effect", which is calculated as the weighted sum of productivity growth in the economic sectors under consideration and which reflects, amongst other things, sectorspecific TFP growth.⁴³ When viewed in isolation, the reallocation growth effect causes aggregate hourly productivity to rise when labour

input increases (decreases) in areas with positive (negative) productivity growth. The reallocation level effect makes a positive contribution to labour productivity growth if hours worked are increased (reduced) in sectors with a comparatively high (low) hourly productivity relative to aggregate labour productivity.⁴⁴ Consequently, factor reallocation across economic activities can help to increase aggregate labour

⁴¹ For example, consumers do not want to give up services provided by sectors with low productivity growth, and even increase their demand for such services.

⁴² See Baumol (1967) and Baumol et al. (1985).

⁴³ The literature contains various methods of decomposing labour productivity growth in this manner. In order to avoid distortions that may arise when adding chained volume data, the "generalised exactly additive decomposition" (GEAD) method was used to break down hourly productivity. A detailed description of the method can be found in Tang and Wang (2004) and Dumagan (2013).

⁴⁴ In the context of this kind of labour productivity decomposition, some simplifying assumptions are typically made, including the fact that no differences in the quality of the labour input are taken into account.

productivity even if sectoral productivity growth is stagnant.⁴⁵

Decomposition of aggregate productivity growth shows industry's relative loss of importance

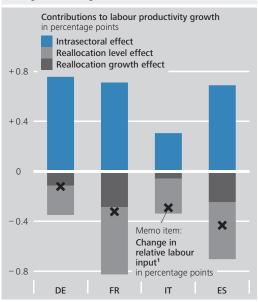
A corresponding decomposition for the four largest euro area economies shows that, on average, productivity growth over the years 1999 to 2019 was driven mainly by the intrasectoral effect.46 Nevertheless, reallocation effects in countries where the intrasectoral effect is relatively small can have a noticeable impact on aggregate productivity growth. However, it can be seen that the direction of impact of the two reallocation effects is often divergent. For instance, the reallocation level effect was mostly positive on average across all of the sectors under consideration (labour input shifted on average to sectors with above-average productivity), while the reallocation growth effect was negative (labour input shifted on average to sectors with below-average productivity growth).47 The latter was mainly driven by the relative loss of importance of the industrial sector. The negative impact of the reallocation growth effect was particularly strong in the pre-crisis period from 1999 to 2007. Nevertheless, in France, Italy and Spain a productivitydampening effect – albeit only marginal at times – caused by shifts in the number of hours worked to economic sectors with comparatively weak productivity growth can also be seen in the economic recovery period from 2013 to 2019.

The impact of demographic change

Ageing population has direct impact on productivity Demographic change is another structural factor with a potential impact on labour productivity. The progressive ageing of the population can dampen productivity growth in a number of ways. First, there are indications that individual productivity varies across age groups and tends to decline at an older age.⁴⁸ There is also growing evidence that societal ageing reduces innovation and technology adoption.⁴⁹

Contributions of the industrial sectors to aggregate labour productivity growth between 1999 and 2019*

Average annual change



Sources: Eurostat and Bundesbank calculations. * Contributions of the industrial sectors (NACE sections B-E) to average growth in labour productivity (real gross value added per hour worked) in the market sector (NACE sections A, B-E, F, G-I, J, K, M-N and R-S). Data for France up to 2018. 1 Relative labour input reflects the share of hours worked in the industrial sectors. Deutsche Bundesbank

45 Alongside changes in labour input, sectoral relative price changes can also influence the contributions of reallocation effects in the GEAD decomposition. Although these price effects can be isolated by modifying the GEAD method, this comes at the cost of giving up an isolated assessment of the two reallocation effects; see Diewert (2015). It is evident, however, that the price effects have a negligible impact on the results of the analysis carried out here.

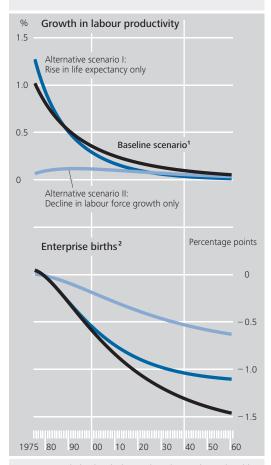
46 Only the following NACE sections are considered here: A (agriculture, forestry and fishing), B-E, F, G-I, J, K, M-N and R-S (arts, entertainment and recreation and other service activities). The reasons for this selection include the partial absence of market prices in public services data and, with regard to the aim of measuring efficiency, a distorting effect in the case of real estate activities. In the case of the latter, total rents from real estate including the use of owner-occupied dwellings are recorded. See also Institute for the World Economy (2017).

47 In the four euro area countries considered in the analysis, the positive reallocation level effect between 1999 and 2019 is due, in particular, to a relative increase in labour input in "professional, scientific and technical activities" and "administrative and support service activities" (NACE sections M and N). Although these areas showed belowaverage productivity growth over the period under review, their level of productivity was above average.

48 See Feyrer (2007), Jones (2010), Aiyar et al. (2016) and Maestas et al. (2016).

49 Empirical studies suggest that an ageing population negatively affects the number of patent applications (Aksoy et al. (2019)), enterprise births (Ouimet and Zarutskie (2014)) and the ability to adopt new technologies (Weinberg (2004) and Skirbekk (2004)).

Effects of demographic change on labour productivity and enterprise births



Sources: Bundesbank calculations based on Röhe and Stähler (2020). **1** The baseline scenario shows the combined effect of rising life expectancy and a decline in the growth rate of the labour force on labour productivity growth and the entry rate of enterprises in an OLG-DSGE model. The simulation period spans from 1970 to 2060. The model is calibrated for the United States. **2** Deviation from the state with constant population growth and unchanged life expectancy.

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Other possible transmission channels of demographic change Furthermore, it is conceivable that societal ageing, as a result of declining growth of the labour force and rising life expectancy, may also influence TFP growth through its impact on market dynamics. A dynamic general equilibrium model with overlapping generations as well as endogenous market entry and exit of enterprises demonstrates this. 50 In this model, ageing reduces fluctuations in the number of enterprises. 51 This is due, in particular, to the savings decisions prompted by higher life expectancy, which depress the real interest rate. 52 As a result, incumbent enterprises find it easier to refinance their fixed assets, with the result that fewer enterprises close. This creates a

competitive disadvantage for potential market entry candidates, which is reflected in a decline in the birth rate of enterprises in the long term. Business dynamism, however, is an important driver of TFP growth. The model framework also illustrates that societal ageing can dampen labour productivity growth over time, even without having a direct impact on TFP.⁵³

In order to empirically examine the impact of demographic change on productivity growth in the euro area, a vector autoregressive model with a panel structure is estimated. In this model, important macroeconomic variables for a number of Member States are regressed on their own lagged values and exogenous variables. The dependent variables comprise yearon-year labour productivity growth, the saving and investment ratio, the short-term real interest rate and the inflation rate. The exogenous variables are demographic indicators: the shares of the population that are categorised as young (below 20), middle aged (aged 20 to 64) and elderly (aged 65 and above).⁵⁴ Because of the data's cross-sectional dimension, the model can also take advantage of variations in the ageing process across Member States to identify the effect of demographic changes on endogenous variables. The panel model comEmpirical analyses of euro area based on a vector autoregressive model ...

50 A detailed description of the model, calibrated for the United States, can be found in Röhe and Stähler (2020).

51 This finding is consistent with studies that see ageing as a key factor in the decline in business dynamism in the United States. See Pugsley and Sahin (2019), Hopenhayn et al. (2018) and Karahan et al. (2019).

52 See also Carvalho et al. (2016) as well as Kara and von Thadden (2016).

53 For example, although a higher life expectancy leads to a clear rise in capital intensity – assuming a prototypical production function – its growth rate declines steadily over time, which is reflected in a slowdown in labour productivity growth.

54 See Aksoy et al. (2019). The estimating equation $Y_{ii} = a_i + AY_{ii-1} + DW_{ii} + \varepsilon_{ii}$, where Y_{ii} encompasses the dependent variables and W_{ii} the age structure of country i in year t (a_i and ε_{ii} are a country-specific constant and a residual). To avoid exact linear dependencies, the differences between the share of the population classed as young and middle aged to the share of the population classed as elderly are entered as exogenous variables. The influences of the individual age groups can then be derived from the estimated coefficients. Vector W_{ii} also includes lagged values of an international oil price.

Projected change in population shares and labour productivity growth

%

	Euro area		Germany		France		Italy		Spain	
Population share	2017	Δ 20301	2017	Δ 20301	2017	Δ 20301	2017	Δ 2030 ¹	2017	Δ 20301
Below 20 Aged 20 to 64 Aged 65 and above	20.3 59.3 20.4	- 1.4 - 3.7 5.1	18.5 60.1 21.4	0.4 - 5.2 4.8	24.0 56.3 19.7	- 1.9 - 2.6 4.5	18.2 59.3 22.5	- 2.4 - 3.0 5.4	19.4 61.4 19.1	- 2.4 - 3.5 5.9
Δ LP growth ² 90% confidence bands		1.4; – 0.7)		1.2		1.3		1.6; – 0.9)		1.8; – 1.0)

Source: UN World Population Prospects and Bundesbank calculations. 1 Projected change in the respective population share between 2017 and 2030 (in percentage points). 2 Estimated change in growth rate of labour productivity (real GDP per hour worked) caused by the projected change in the age structure between 2017 and 2030 (in percentage points).

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prises 17 euro area Member States and is estimated over the period from 1971 to 2017.55

... suggest a distinct negative impact of ageing on labour productivity growth ... As demographic variables typically only change slowly over time, the analysis focuses on longterm relationships, which can be derived from the estimated coefficients of the panel model.⁵⁶ This analysis suggests that an increase in the share of the elderly population – with a concurrent fall in the young and middle-aged population shares - is likely to have dampened labour productivity growth in the euro area countries. Between 2007 and 2017, for example, the share of the population aged over 65 in the euro area increased by around 2.5 percentage points. According to the estimation, overall productivity growth in the euro area would have been around 0.8 percentage point higher during this period if the age structure had remained unchanged.

... and also indicate that productivity growth will be dampened going forward United Nations projections suggest that the percentage of the euro area population aged over 65 years will rise even more sharply in the future. Between 2017 and 2030, their share is expected to increase from around 20% to more than 25%. According to the estimates, this would depress euro area productivity growth by a total of 1.4 percentage points over this period. On average, this corresponds to a decline of just over 0.1 percentage point per year.

The picture is similar for the euro area's four major economies. However, productivity growth in Italy and Spain would, in fact, decline somewhat more sharply, as the ageing process is forecasted to be more rapid there. When interpreting the projections, it should, however, be noted, that the estimation results (as well as the population forecasts) are subject to uncertainty. Moreover, no account is taken of potential factors that could counteract the adverse effects of ageing. And finally, the calculations are based on the simplifying assumption that changes in the age structure have the same impact on productivity trends in all the countries included in the analysis.

Conclusion and outlook

Growth in labour productivity in the euro area has slowed significantly over the past 20 years. This slowdown was broad based across the Member States and was evident in numerous sectors of the economy. It can be attributed, amongst other things, to a reduction in the

Slowdown in productivity growth in the euro area attributable to cyclical as well as structural factors

⁵⁵ The estimate covers all Member States except Luxembourg and Malta. Due to data availability, the length of the time series used varies across countries.

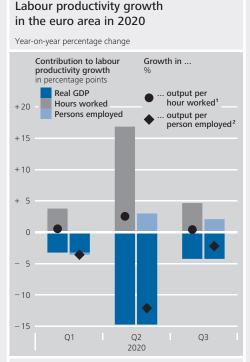
⁵⁶ The long-term impact of the demographic variables is derived from the long-term equilibrium of the model. This results from a combination of the coefficient matrices: $(I-A)^{-1}D$. See Aksoy et al. (2019).

Possible impact of the coronavirus pandemic on productivity growth in the euro area

In the light of the current severe economic crisis and its specific nature, the question arises as to the implications for euro area productivity growth. In the short term, both the pandemic-induced constraints on production and also its recovery are having a direct impact on labour productivity. In this context, it is of significance that governments' efforts are currently aimed at safeguarding as many jobs as possible. One instrument in this respect is government-assisted short-time work. As a consequence, output per person employed in the euro area initially fell significantly before recovering again.

The development of output per hour worked was more remarkable. It rose sharply at times, as it already had done in some countries during the global financial and economic crisis. Compositional effects are likely to have played a role in this, as the containment measures mainly affected sectors with below-average labour productivity. This probably obscured possible productivity-reducing effects caused by abrupt, pandemic-related changes in working methods, such as the switch to teleworking. The temporary closure of child daycare facilities and schools presumably has also affected not only labour supply but also labour productivity.²

Beyond these short-term impacts, longerterm effects need to be taken into account. For example, despite the massive economic and monetary policy interventions, investment activity suffered significantly, also owing to the temporarily steep rise in uncertainty.3 If the decline in investment is not compensated for sufficiently fast, it is likely to weigh on enterprises' innovation performance and technology adoption, and therefore hamper productivity growth. Beyond this, reduced investment activity impedes labour productivity via its negative impact on capital intensity. These factors may possibly be countered by productivity increases induced by the pandemic. The crisis forced enterprises and employees to try new ways of working. Some of the lessons learned could also be useful in the future.4 Examples include more flexible working models and virtual conference formats. In general, there are signs of a boost to digitalisation.



Sources: Eurostat and Bundesbank calculations. 1 Labour productivity measured as the ratio of real GDP to the number of hours worked. 2 Labour productivity measured as the ratio of real GDP to the number of persons employed.

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- 1 See Bloom et al. (2015) and Bloom (2020).
- 2 In addition, there may possibly be longer-term implications for productivity as a result of a deterioration in the quality of school education. See also Fuchs-Schündeln et al. (2020).
- 3 See Baker et al. (2020).
- 4 See also European Central Bank (2020).

Without extensive government assistance, many enterprises would probably have had to exit from the market owing to the massive slump in some sectors. Even the assistance measures will probably not be able to entirely prevent this in the longer term. This, too, may influence productivity growth. If mainly low-productivity enterprises or economic sectors are affected by closures, this may have a positive impact on average productivity.5 However, if the freed-up production factors are not, or only insufficiently, absorbed, this will weigh on macroeconomic developments. Moreover, market concentration may increase, with potentially adverse effects on competition and productivity gains.

productivity growth, the overall effect is difficult to gauge. Specifically, it remains to be seen to what extent a crisis-induced boost to innovation – in the form of increased digitalisation, for example – will impact on future productivity growth.

To sum up, the pandemic may influence future productivity growth via multiple channels. Although the severe macroeconomic disruptions are likely to weigh on

5 See Bloom et al. (2020b).

growth rates of total factor productivity. Analyses of the underlying driving forces point to cyclical influences as well as, in particular, structural factors. For some sectors of the economy, there are indications to suggest that enterprises' ability to innovate and adopt may have diminished. Moreover, inefficiencies in the allocation of production factors appear increasingly to have contributed to the slowdown in productivity growth. Alongside the institutional and regulatory framework, demographic change is another possible structural factor. As a society ages, enterprises' ability to innovate and adopt may be impaired. The decline in labour force growth and the increase in life expectancy can also affect business dynamics and, via this channel, also impede aggregate TFP growth. An empirical analysis for the euro

area suggests that demographic change has indeed dampened productivity growth.

The continued ageing of the euro area's popu- Outlook lation could continue to dampen productivity growth in the future. Moreover, the observed slowdown in the pace of reforms in the euro area suggests that economic policy will not provide any decisive stimulus for productivity growth. At present, it is difficult to assess what impact the coronavirus pandemic will have on developments in productivity. The macroeconomic turmoil triggered by the pandemic is likely to weigh on future labour productivity growth. The extent to which this can be counteracted by a wave of innovation in response to the exceptional challenges presented by the crisis remains to be seen.

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Methodology and analytical options for the expanded statistics on banking groups' securities holdings

The statistics on holdings of securities by reporting banking groups were expanded in 2018. For the first time, they provide a granular insight into the risk structure of the securities held by significant banking groups in their own portfolios. Thus, risk concentrations can be identified at an early stage. All 113 significant banking groups in the euro area directly supervised by the European Central Bank (ECB) – 21 of which are domiciled in Germany – report their own holdings of securities held domestically and abroad as well as additional risk-related attributes.

Together, the 21 significant German banking groups hold securities (debt securities, equities, investment fund shares) with a market value of €610 billion in their own portfolios (as at September 2020). The majority of these are long-term debt securities (85%). A large portion of the total portfolio of securities (74%) is held by group entities domiciled in Germany.

The regional breakdown shows that the country risk of the securities held by significant German banking groups is broadly diversified across the issuers' countries of domicile. Those issuers are roughly split into thirds between Germany (36%), other European Union (EU) countries (37%) and countries outside the EU (27%).

The 21 significant German banking groups predominantly hold unencumbered securities, which are securities that can be sold or used for other purposes, such as central bank refinancing, at any time without restrictions. The quality of the own holdings of securities, measured by the probability of default of the issuer, is largely equivalent to investment grade.

During the COVID-19 pandemic, the share of short-term debt securities and securities with a lower risk weight held by significant German banking groups has increased perceptibly.

Introduction

Risk-related information for each security is available in the expanded group statistics The expanded statistics on holdings of securities by reporting banking groups (referred to as "banking group statistics" in the remainder of this article) for the first time capture the global own holdings of securities of significant banking groups as well as additional information on risk-related attributes of those holdings. This article begins by outlining the statistical methodology for collecting the data. The results are then presented in three sections: an analysis of the global own holdings of securities of significant German banking groups, 1 an evaluation of the risk exposure of these holdings, and a description of how both aspects evolved as the COVID-19 pandemic began.

Germany) – have been subject to reporting requirements for the banking group statistics. The actual reporting population is reviewed annually by the Governing Council of the ECB and adjusted if necessary. The relevant criteria for being assigned "significant" status include size, economic importance, level of cross-border activities, and whether direct financial support has been provided by the European Stability Mechanism (ESM) or the European Financial Stability Facility (EFSF).

In addition, the statistics now also collect risk-related attributes so as to better capture the importance of banking groups and their stability for the financial sector and the real economy. Another reason behind this is that the areas of financial stability, monetary policy, risk

Data collection includes risk-related information on securities – for an array of uses

Data collected and purpose of the expanded banking group statistics

Banking group statistics focus on banking groups and their global own holdings of securities The banking group statistics capture the global own holdings of securities of significant banking groups on a security-by-security basis. To this end, the respective head of the group reports information on the securities held by group entities in their own portfolios (debt securities, equities and investment fund shares).2 Thus, the focus is on the banking group as a single unit comprising the head of the group as well as all of its domestic and foreign subsidiaries and branches. The Bundesbank collects information from all significant banking groups domiciled in Germany on a monthly basis. These data constitute Germany's contribution to the ESCB's Securities Holdings Statistics Database (SHSDB) for the euro area.

All 113 significant euro area banking groups report data

The banking group statistics, introduced in December 2013, were expanded in September 2018 in terms of both the number of reporting agents and the information to be reported.³ Since September 2018, all banking groups directly supervised by the ECB – currently 113 in the euro area (of which 21 are domiciled in

- 1 In this article, the term "significant German banking groups" corresponds to the banking groups domiciled in Germany which have been classified as significant by the ECB and are therefore subject to its direct supervision.
- 2 A banking group within the meaning of these statistics comprises the head of the group, i.e. a credit institution or a financial holding company, as well as all associated financial subsidiaries and branches which do not constitute insurance corporations. The basis of consolidation was determined in line with prudential supervisory regulations (see Directive 2006/48/EC). The reported data are broken down by the individual group members, with each legally independent financial subsidiary presented individually with its country of domicile, and with legally dependent branches grouped by country of domicile.
- 3 The legal basis for the collection of banking group statistics is Regulation (EU) 2016/1384 of the European Central Bank of 2 August 2016 amending Regulation (EU) No 1011/2012 (ECB/2012/24) concerning statistics on holdings of securities (ECB/2016/22), published in the Official Journal of the European Union (OJ, L 222, p. 85) on 17 August 2016
- **4** The ECB provides the current list of significant euro area banking groups on its website: https://www.bankingsupervision.europa.eu/banking/list/who/html/index.en.html
- **5** To qualify as significant, banks must fulfil at least one of these criteria:
- the total value of its assets exceeds €30 billion;
- economic importance for the specific country or the EU economy as a whole;
- the total value of its assets exceeds €5 billion and the ratio of its cross-border assets/liabilities in more than one other participating Member State to its total assets/ liabilities is above 20%;
- it has requested or received funding from the European Stability Mechanism or the European Financial Stability Facility.

A supervised bank can also be considered significant if it is one of the three most significant banks established in a particular country.

management and banking supervision needed more information for the following tasks:

- expansion/enhancement of the pool of data for stress tests;
- early warning indicators;
- study of the transmission mechanism of monetary policy;
- portfolio analysis of securities holdings;
- identification of risks in the financial system and of significant cross-border risk concentrations;
- business model analysis.

The original attributes of securities holdings

These issues could not be fully covered by the attributes collected in the original banking group statistics, as only holding amounts were collected prior to the expansion.

Using the international securities identification number (ISIN), reference data on the individual securities are added from the Centralised Securities Database (CSDB)⁶ and do not have to be reported by the reporting agent.⁷

The additional risk-related attributes

In line with the new user requirements, the attributes shown in the adjacent overview, which focus on assessing the risk of the issuer or the security, were introduced as of September 2018.8

6 The CSDB is a standardised master and reference database based on individual ISINs. It contains security-by-security information on the security itself, the issuer and the price. For more information, see European Central Bank (2010).

Overview of attributes in the statistics on banking groups

Original attributes prior to September 2018

Attributes per security:

International Securities Identification Number (ISIN)

Reporting basis

Issuer is part of reporting group

Name of group entity

Country of domicile of group entity

Holdings per group entity

Further reference data for securities without an ISIN

Additional attributes since September 2018¹

Accounting standard applied by group and each entity

Attributes per security at group level:

Issuer is part of reporting group (since 2018, split between prudential and accounting scope of consolidation)

Status of forbearance and renegotiation (+ date)

Performing status of the instrument (+ date)

Default status of the issuer (+ date)

Default status of the instrument (+ date)

Probability of default of the issuer

Loss given default in downturns

Loss given default in normal economic times

Risk weight

Attributes per security at entity level:

Carrying amount

Type of impairment

Impairment assessment method

Accumulated impairment amount

Source of encumbrance

Accounting classification of instruments

Prudential portfolio

Accumulated changes in fair value due to credit risk

Cumulative recoveries since default

Exposure value (also referred to as exposure at default)

Capital calculation approach for prudential purposes

Exposure class

1 Listed here are attributes for securities with an official ISIN. Additional attributes are collected for securities with an internal securities identification number.

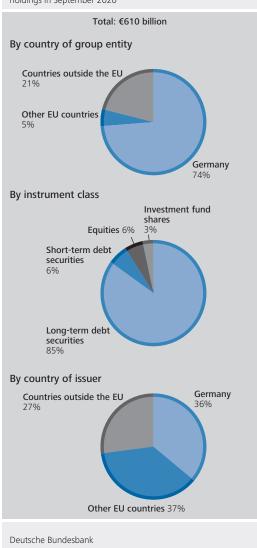
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⁷ For securities with no ISIN, the reporting agent must provide reference data (e.g. information on the security type, price, interest rate and issuer) for each security.

⁸ For a comprehensive description of all attributes in the banking group statistics, see Deutsche Bundesbank (2020b).

Own holdings of securities of significant German banking groups

As a percentage of the total volume (market value); holdings in September 2020



roughly 34% of the own holdings of securities of all financial institutions domiciled in Germany.¹¹

Data from the banking group statistics can be used to analyse the own holdings of securities of significant German banking groups at a more granular level and to divide them into different categories. With the methodology used to collect data for the banking group statistics, it is possible to determine the countries in which significant banking groups hold individual securities. In total, the significant German banking groups hold securities worth €160 billion (26% of the total volume) in their group entities domiciled outside Germany. The largest shares are held in the United Kingdom, the United States, Luxembourg, Poland and Singapore. The remaining own holdings of securities are spread across 31 other countries. By capturing securities held abroad, the banking group statistics thus provide a global picture of the groups' own holdings of securities.

Securities worth €160 billion held in group entities outside Germany

The securities held in the group-wide own portfolio can also be broken down by instrument class using the CSDB. Measured in terms of the total volume, significant German banking groups predominantly hold long-term debt securities (85%). By contrast, short-term debt securities (6%), equities (6%) and investment fund shares (3%) make up a comparatively small share.

Significant German banking groups mainly hold long-term debt securities

Own holdings of securities of significant German banking groups in the banking group statistics

The 21 significant banking groups domiciled in Germany which are required to report to the banking group statistics hold securities with a combined total market value⁹ of €610 billion in their global own portfolios.¹¹ Of this amount, €450 billion (74% of the total volume) is held by group entities domiciled in Germany. This means that the share of securities held by significant banking groups in Germany equates to

- **9** The market value is generally used for comparisons, as this allows for a more up-to-date evaluation. The banking group statistics also provide information on the carrying amount and nominal value. Portfolios can be broken down into banking book and trading book holdings.
- **10** At the time this report went to press, quality-assured data from September 2020 were available, so this is chosen as the reference period below.
- 11 The volume of securities held in Germany in the own portfolios of all financial institutions domiciled in Germany comes to a market value of around €1,321 billion. This information can be obtained from the sectoral statistics of the Securities Holdings Statistics, for which all banks domiciled in Germany report their own holdings of securities held in Germany to the Bundesbank. For an overview of the sectoral statistics of the Securities Holdings Statistics, see Deutsche Bundesbank (2015).

Significant
German banking
groups hold
€610 billion
worth of
securities – 74%
of which in
Germany

Own holdings of securities mainly issued by enterprises A breakdown of the own holdings of securities by issuer sector shows that 38% of the volume of securities held were issued by general government.¹² The remaining 62% are spread across deposit-taking corporations (36%), financial corporations¹³ (excluding deposit-taking corporations) (20%), and non-financial corporations (5%).

36% of the own holdings of securities were from issuers domiciled in Germany When analysing the country risk of the own holdings of securities, one relevant factor is the regional distribution of the issuers' countries of domicile. The group-wide own holdings of securities were split roughly into thirds between issuers domiciled in Germany (36%), in other EU countries¹⁴ (37%) and in countries outside the EU (27%) – see the chart on p. 50. Besides Germany itself, the issuers' countries of domicile accounting for the largest shares are the United States (10%), France (6%), Luxembourg (6%) and the United Kingdom (5%).

Group entities inside and outside Germany hold own portfolios of securities with different country risk

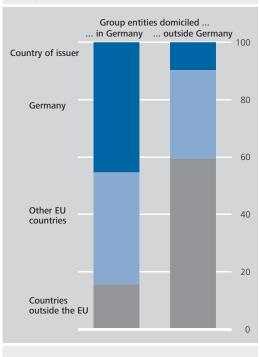
Microprudential and macroprudential risk analysis raises the question of whether significant German banking groups hold different securities portfolios in Germany and in their group entities domiciled outside Germany. It is evident that there are, in particular, differences in the regional distribution of issuers of the securities held. For instance, significant German banking groups predominantly hold securities from issuers domiciled in Germany (45%) or in the other EU countries (39%) in group entities domiciled in Germany. By contrast, group entities domiciled outside Germany mainly hold securities from issuers located in countries outside the EU (59%).

In each case, long-term debt securities make up the lion's share of the securities held in the group entities domiciled both inside and outside Germany.

The significant banking groups domiciled in Germany predominantly hold long-term debt securities in their own portfolios and largely hold these securities in Germany. Using SHSDB data on all significant banking groups in the

Own holdings of securities of significant German banking groups in Germany and abroad by country of issuer

As a percentage of the total volume (market value); holdings in September 2020



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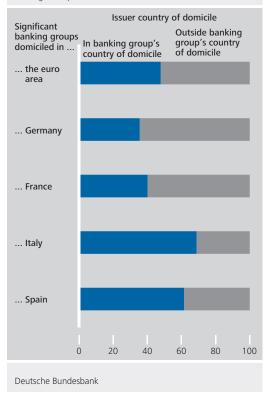
euro area (113 banking groups), it is possible to determine the volumes of German banking groups in proportion to significant banking groups in the rest of the euro area. Overall, all significant banking groups in the euro area have own holdings of securities with a total market value of €4,533 billion.¹⁵ The significant French banking groups account for the largest share, at 29%. The significant banking groups domiciled in Germany have the fourth largest

Significant
German banking
groups hold
13% of the total
volume of
securities held
by all significant
banking groups
in the euro area

- **12** The 38% government share is divided into central government (25%), state government (11%), local government (1%) and social security funds (less than 1%). This subdivision corresponds to the general government sector (S.13) of ESA 2010.
- **13** The financial corporations sector (S.12) comprises corporations and quasi-corporations principally engaged in financial intermediation and/or auxiliary financial activities.
- 14 This includes securities issued by EU Member States and enterprises based in the respective EU countries, as well as issuance by European institutions (e.g. the European Investment Bank and the European Commission).
- **15** At the time this report went to press, quality-assured data for the euro area from September 2020 were available, so this is chosen as the reference period here, too.

Own holdings of securities of significant euro area banking groups

As a percentage of the total volume in each case (market value); holdings in September 2020



share, at around 13%, after Spain (17%) and Italy (17%).

Different proportions of own holdings of securities issued in the home country

A comparison between significant German banking groups and all significant banking groups in the euro area reveals that, at 36%, German banking groups hold fewer securities from issuers located in their home country than the euro area average of all banking groups (48%). There is a clear difference between the four countries with the largest own holdings of securities (France, Italy, Spain and Germany) when it comes to whether there is a preference for securities issued in their home country. Significant German banks hold a comparatively large share of securities not issued in their home country (64%). By contrast, in the case of significant banking groups in Spain and Italy, the share of own holdings of home-issued securities is higher - at 62% and 69% respectively - than the euro area average of 48%. Furthermore, as a proportion of their total own holdings, significant Italian banking groups

hold a smaller share of securities from issuers outside their home country than the euro area overall, at 31% compared with 52%.

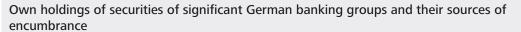
Selected risk attributes covered by the banking group statistics

As well as allowing for analysis of global own holdings, the expanded banking group statistics – augmented to incorporate risk-related attributes in 2018 – permit an evaluation of the risk embedded in banking groups' own portfolios. This broad range of risk-related information is reported monthly by the banking groups in addition to the holding amounts and is of relevance for microprudential and macroprudential issues. First, enhanced data on the issuer and instrument provide information about economic loss events (e.g. an instrument or issuer default). The same is true of the performing status of the instrument, which is used to identify distressed assets. Second, the new attributes take into account hypothetical developments in the economic setting (e.g. the loss given default in normal economic times or in the event of a crisis), which can be used to conduct risk analyses. The risks emanating from the issuer of the securities play a crucial role here. Taken together, this allows for a comprehensive picture of the risk to the banking group stemming from its own holdings of securities. Wherever possible, the newly added attributes closely interlink the reporting requirements with the legal bases for banking supervision. A selection of the additional attributes are presented below by way of example.

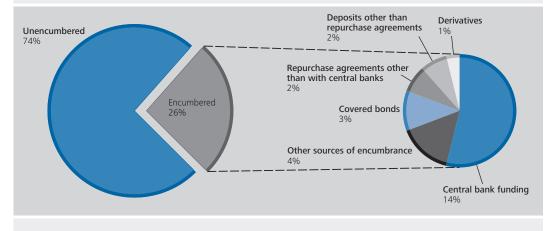
The source of encumbrance¹⁶ indicates whether an asset is regarded as encumbered or tied up,

16 For the purposes of the group statistics, the source of encumbrance is defined in line with Annexes XVI and XVII to Regulation (EU) No 680/2014 (Commission Implementing Regulation (EU) No 680/2014 of 16 April 2014 laying down implementing technical standards with regard to supervisory reporting of institutions according to Regulation (EU) No 575/2013 of the European Parliament and of

Additional attributes provide new possibilities for analysis



As a percentage of total volume (market value); holdings in September 2020



Deutsche Bundesbank

Source of encumbrance is a feature for assessing risk

preventing it from being freely available at any time to the banking group. This is always the case if the asset (in the context of the banking group statistics, the security) is pledged or lent, or is being used to collateralise potential obligations arising from derivatives transactions or for the purposes of credit enhancement in balance sheet or off-balance-sheet transactions. If the enterprise runs into crisis, constraints apply to the sale of any encumbered securities. By looking at the degree to which assets are encumbered, it is possible to derive an assessment of the bank's solvency in the event of asset default.

Significant
German banking
groups hold
predominantly
unencumbered
own holdings of
securities

Looking at all own holdings of securities for which the source of encumbrance attribute was reported by the significant German banking groups, the majority of these holdings are unencumbered (74%).¹⁷ The encumbered portion of securities is mainly utilised for central bank funding (14%), issuance of covered bonds (3%) or for repurchase transactions (2%).

Risk weight as a core element of the risk position

Another important risk-related attribute in the banking group statistics is the risk weight. ¹⁸ The size of the risk weight is based on the provisions contained in the Capital Requirements Regulation (CRR). ¹⁹ The risk weight plays a role in determining the applicable regulatory capital requirements under the CRR, that is to say the

amount of own funds that banking groups must hold in reserve to back banking business subject to credit risk in the banking book. For example, in the case of debt securities, issuer insolvency gives rise to credit risk. There may be a relationship between the risk weight and the rating assigned to the issuer by rating agencies. There are two different approaches that may be applied to calculate the capital required to cover credit risk, namely the credit risk standardised approach (CRSA) and the internal ratings-based (IRB) approach.

The banking group statistics can be used to analyse the distribution of the risk weights

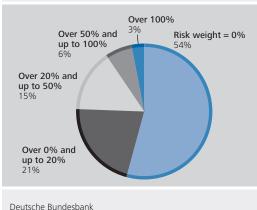
17 The source of encumbrance attribute does not need to be reported when the issuer is part of the same reporting group as the holder (prudential consolidation group) or for "pure" short positions (i.e. items for which no positive amount is held and recorded on the assets side of the balance sheet). This means that no source of encumbrance was reported for €37 billion worth of securities (6% of the total volume). The percentages cited are based only on those securities for which a source of encumbrance has been reported.

18 Risk weight does not need to be reported when the issuer is part of the same reporting group as the holder, nor is it required in the case of off-balance-sheet holdings, items deducted from capital and "pure" short positions (i.e. items for which no positive amount is held and recorded on the assets side of the balance sheet).

19 Regulation (EU) No 575/2013 of the European Parliament and of the Council of 26 June 2013 on prudential requirements for credit institutions and investment firms and amending Regulation (EU) No 646/2012. For the rules relating to risk weights see Part Three, Title II, Chapter 2, Section 2.

Risk weights of own holdings of securities of significant German banking groups

As a percentage of the total volume in the banking book (market value); holdings in September 2020



Vast majority of own holdings of securities have a reported probability of default of under 0.4%

Significant German banking groups' own holdings of securities mostly have a low risk weight

attached to the own holdings of securities in the banking book of significant German banking groups.²⁰ More than half of the total volume of securities held in the banking book (54%; €245 billion) have a risk weight of 0%. A further 21% have a risk weight of between 0% and 20%.

The volume-weighted average of the risk weight across all significant banking groups is 25%. However, it differs widely from group to group. Accordingly, there is also variation between the banking groups in terms of the average regulatory capital required under the CRR for the securities portion of their assets. In summary, it can be said that, overall, significant banking groups domiciled in Germany mostly have own holdings of securities with a risk weight towards the lower end of the scale.

Probability of default of issuer a further risk indicator

An additional indicator that may be used to analyse risk is the probability of default of the issuer.21 This refers to the risk of the issuer proving unable to meet a claim. In the case of securities, default risk stems most notably from an issuer's inability to service its bonds, for example as a result of liquidity difficulties or bankruptcy.22 Here, the reported probability of default means the forecast probability that the issuer of the security will default within a oneyear horizon. Where the CRSA is used, the

For 88% of the own holdings of securities for which a probability of default has been reported, the probability of default of the issuer is 0.4% or less (see the chart on p. 55). In credit assessment terms, this corresponds to an external rating of at least BBB-, hence qualifying as investment grade.23 76% of the holdings for which a default probability has been reported have a probability of default of the issuer no higher than 0.1% (meaning that they have a rating of at least A- in credit assessment terms).

probability of default is calculated using exter-

nal ratings; under the IRB approach, the prob-

ability of default is estimated by the banks

themselves.

The default status of the issuer and of the instrument²⁴ provide information on securities and issuers that are assessed negatively when

Default status of the issuer and of the instrument

- 20 The significant German banking groups have €453 billion in own holdings of securities in their banking book and €104 billion in their trading book. For a volume of €53 billion, no information on the prudential portfolio is available as this attribute does not need to be reported for all secur-
- 21 The probability of default is estimated according to the procedures laid down in the CRR.
- 22 It is only mandatory to report the probability of default attribute if this is required in accordance with the capital calculation approach for prudential purposes. In addition, the attribute need not be reported when the issuer is part of the same reporting group as the holder or for offbalance-sheet holdings, items deducted from capital and "pure" short positions. Overall, no probability of default has been reported for holdings with a market value totalling €143 billion (23% of the total volume of own holdings of securities). The percentages cited are based only on those securities for which a probability of default has been reported.
- 23 When performing credit assessments, the Bundesbank identifies two credit quality bands on the basis of the Eurosystem credit assessment framework. The first covers anything up to a forecast probability of default of 0.1%. The second band is for forecast probabilities of default between 0.1% and 0.4%. The first credit quality band encompasses credit quality steps 1 and 2 and is equivalent to a rating of at least "A-" from Fitch or Standard and Poor's (S&P) or "A3" from Moody's. The second band comprises credit quality step 3 and is equivalent to a rating of "BBB+ to BBB-" from Fitch or S&P or "Baa1 to Baa3" from Moody's. See Deutsche Bundesbank (2019) and European Central Bank (2015).
- 24 The reporting of these attributes follows the same criteria as the prudential reporting in accordance with Regulation (EU) No 575/2013.

examining a banking group's risk exposure.²⁵ The own holdings of securities held by the significant banking groups domiciled in Germany were issued almost entirely by issuers who have not defaulted. The volume of securities reported as being distressed stands at just €909 million (0.1% of the total market value).

13% of the holdings are securities with an issuer belonging to the same reporting group

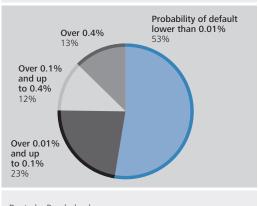
Information on intra-group issuance, where the issuer is part of the same reporting banking group as the holder, can be used to examine the financial links within the respective banking group. Around €80 billion worth (13%) of all own holdings of securities held by significant banking groups domiciled in Germany were issued by entities in the same group as the holder (prudential scope). The majority were long-term debt securities (€57 billion) and equities (€22 billion). This equates to 11% and 64%, respectively, of the total volume of securities held in that instrument class. As a result, if securities issued intra-group are excluded when looking at the instrument classes held by the significant German banking groups, the proportion of the total portfolio accounted for by equities shrinks from 6% to 2%, while the percentage accounted for by other instrument classes sees a slight increase.

Conclusion

The banking group statistics underwent significant expansion in 2018. All 113 significant banking groups in the euro area directly supervised by the ECB – 21 of which are domiciled in Germany – report their own holdings of secur-

Own holdings of securities of significant German banking groups and probabilities of issuer default

As a percentage of total volume (market value); holdings in September 2020



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ities held domestically and abroad as well as additional risk-related attributes. This makes it possible to break down securities positions in a variety of ways — by instrument class, the issuers' countries of domicile, the group entity holding the position and a range of risk attributes, for instance. The statistics thus open up a broad array of new possibilities for granular analysis, for example with regard to the risk structure of the securities portfolios of significant banking groups and the changes that they undergo (for example in response to the COVID-19 pandemic).

25 Since reporting of these attributes is not mandatory for all securities, no default status of the issuer and of the instrument has been reported for just under 17% of the total volume in market value terms (€103 billion). This exemption from reporting applies where the issuer is part of the same reporting group as the holder as well as to off-balance-sheet items, "pure" short positions, financial assets held for trading, and equities and investment fund shares.

Trends in group data in recent times of crisis

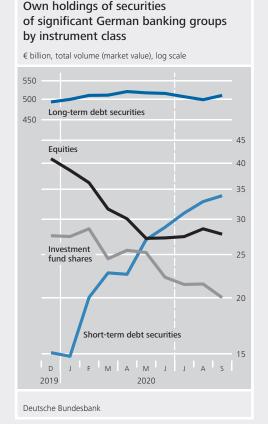
The COVID-19 pandemic has been dominating social life and real economic activity across the globe since the beginning of 2020. The dynamic evolution of the pandemic has led to high volatility in the financial markets. For instance, up until March 2020 the DAX stock price index, which comprises Germany's 30 largest public limited enterprises, temporarily lost as much as 35% of its value compared to year-end 2019. However, it subsequently rallied quickly to recoup large portions of its losses, which meant that, by the end of the second quarter, it had returned to around 90% of its 2019 year-end mark.

The statistics on banking groups can be used to take a detailed look at Germany's significant banking groups. 1 Upon the outbreak of the pandemic in early 2020, the

market value of the total volume of own holdings of debt securities rose. The volume of short-term debt securities, in particular, more than doubled by July 2020 and even continued its rise thereafter. This also reflects German banks facing an elevated need for liquidity upon the onset of the COVID-19 pandemic.² On the whole, up until September 2020 own holdings of short-term debt securities had increased by 124%. The volume of long-term debt securities, on the other hand, went back down after April 2020.³

A countermovement of own holdings of equities and investment fund shares can be observed at the beginning of the pandemic. From end-2019 until June 2020, they fell by 33% and 19%, respectively, even though the DAX had recouped large portions of its losses in June 2020. In the third quarter of 2020, too, the volume of equities remained at the lower level and, for investment fund shares, fell even further.

In respect of the quality, measured in terms of risk weights, of own holdings of securities, a strong increase in the volume of securities with a 0% risk weight can be detected between end-2019 and end-March 2020. By contrast, the volume of securities with a high risk weight fell over the same period.



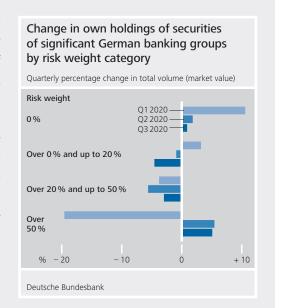
¹ In order to avoid changing the set of underlying data, the evaluations in this chapter refer to those 17 significant German banking groups which were continuously subject to reporting requirements between December 2019 and September 2020.

² See Deutsche Bundesbank (2020a).

³ Changes in the volume of securities can be caused by changes in holdings or prices. The developments cited here show the overall effect. Since the banking group statistics contain holdings based on individual securities, changes in holdings and prices can also be identified separately for each individual security.

A detailed look at the banking group statistics shows that, in March 2020, roughly two-thirds of the decline in the volume of own holdings of securities with a risk weight greater than 50% was caused by a fall in the volume of equities and investment fund shares of this risk weight category. The overall result was that the average risk weight across the entire own holdings of securities of significant German banking groups dropped from a one-time figure of 31% to 25% in March 2020 and also remained at that new level until September 2020.4

In summary, the composition of the own holdings of securities of the significant German banking groups has changed since the outbreak of the COVID-19 pandemic. In autumn 2020, the significant German banking groups had, in particular, more short-term debt securities in their own holdings and a



portfolio with an, on average, lower risk weight than as recently as the end of 2019.

4 The risk weight assessments in this section refer to all holdings in the banking group statistics (i.e. to non-trading book and trading book holdings) for which a risk weight has been reported.

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The two-tier system for reserve remuneration and its impact on banks and financial markets

When operating in a negative interest rate environment, central banks have introduced tiering systems for the remuneration of excess liquidity holdings as a monetary policy measure. These tiering systems enable central banks to exempt a certain part of commercial banks' excess liquidity holdings from negative remuneration or to set a slightly more attractive rate of interest on this part. By contrast, the non-exempt tier of excess liquidity holdings continues to be remunerated at the regular, negative rate. This cuts banks' interest expenditure on excess liquidity held when the tiering system is introduced. In September 2019, the Governing Council of the European Central Bank (ECB Governing Council) decided that the euro area, too, should have a tiering system and introduced a two-tier system for excess reserve remuneration on 30 October 2019.

The aim of this measure was to support the bank-based transmission of monetary policy. At the same time, the ECB Governing Council sought to preserve the positive contribution of negative interest rates to the accommodative stance of monetary policy and thus to the continued sustained convergence of inflation to the ECB's aim. The two-tier system is designed in such a way that euro short-term money market rates are not unduly influenced.

The system prompted some banks to increase their central bank balances in order to take full advantage of their own exemption allowances. The resulting redistribution of liquidity between banks began as soon as the two-tier system was introduced and, to start with, this largely took place via the money market. Redistribution could be observed both domestically and within banking groups as well as across national borders, and it enabled almost all euro area banks to make full use of their allowances. Despite significant liquidity redistribution, short-term money market rates rose only temporarily and to a very small extent, which was also due to a large volume of excess liquidity holdings, which continued to expand over time, still being subject to negative remuneration.

In December 2020, euro area excess liquidity holdings stood at \leq 3,352 billion. Between the introduction of the two-tier system in October 2019 and December 2020, euro area banks' interest expenditure on excess liquidity holdings amounted to \leq 8.9 billion, and was thus \leq 4.7 billion lower than would have been the case without a tiering system but under otherwise identical conditions. At the same time, the lion's share of excess liquidity holdings (\leq 2,498 billion at last report) continued to be subject to negative remuneration.

Introduction

Two-tier system part of large package of measures aimed At its monetary policy meeting on 12 September 2019, the ECB Governing Council decided, in addition to other monetary policy measures, to introduce the two-tier system for reserve remuneration (hereinafter referred to as the "two-tier system"). Since 30 October 2019, banks have no longer been required to pay the Eurosystem negative interest on part of their excess reserve holdings.¹ Thus, for the first time, the Eurosystem has set two different interest rates for holding excess reserves.

... supporting bank-based transmission of monetary policy ... The two-tier system reduces a portion of commercial banks' interest expenditure on holding excess reserves, which had risen as a result of the interest rate on the deposit facility being lowered by 10 basis points on 18 September 2019. By introducing the two-tier system, the ECB Governing Council sought to support the bank-based transmission of monetary policy. Literature on this topic suggests that an exceedingly long-lasting environment of low interest rates could, under certain conditions, hurt lending by banks,² meaning that they would no longer adequately fulfil their role in monetary policy transmission. This would impede the ECB Governing Council's intended objective of monetary policy easing.

... without undue influence on money market rates The ECB Governing Council took care to design the two-tier system in such a way that euro short-term money market rates are not unduly influenced. Tiering systems provide incentives for the redistribution of liquidity between banks: institutions that do not make full use of their exemption allowances under a tiering system can generate additional interest income by borrowing funds at negative interest rates and depositing them in their central bank account at the zero interest rate. Thus, in principle, the additional demand for liquidity from some banks that is triggered by a tiering system could raise short-term money market rates, which may run counter to the central bank's intended monetary policy stance.

Around one year after the launch of the two-tier system, this article examines whether and how this measure has achieved the effect intended by the ECB Governing Council without producing undesirable side effects in the money market. To this end, the article begins by discussing the background and motivation behind introducing the two-tier system, before examining the impact that the two-tier system has on interest expenditure on excess liquidity holdings³ in the banking sector. It concludes with an analysis of the resulting redistribution of central bank liquidity via money and other financial markets.

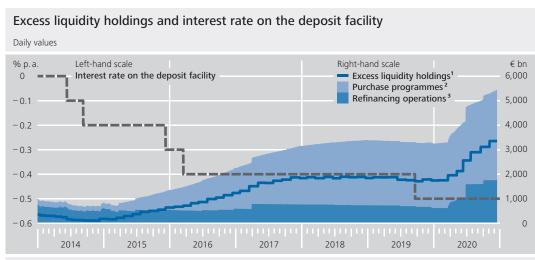
Review of first year of two-tier system

The two-tier system in a monetary policy context

Since the global financial and the European debt crises, the Eurosystem has been providing banks with significantly more central bank liquidity through non-standard monetary policy measures than they need overall.⁴ This excess liquidity is held on banks' accounts with the Eurosystem. In June 2014, the ECB Governing Council lowered the interest rate on the deposit facility from 0.0% to -0.1%. Thus, for the first time, the Eurosystem charged banks a negative rate of interest on excess liquidity holdings. Since then, the ECB Governing Council has adopted additional non-standard liquidity-providing monetary policy measures. These non-standard measures have gradually raised excess liquidity holdings even more (see the chart on p. 61). Together with further interest rate cuts, this has led to an increase in

Interest expenditure arising from negative interest rate on deposit facility and excess liquidity holdings

- 1 Excess reserves are the amount a bank holds on current accounts with the central bank which exceeds its minimum reserve requirements on average over a reserve maintenance period. Excess reserves do not include the deposit facility.
- 2 See Brunnermeier and Koby (2018).
- **3** Excess liquidity is the sum of deposits in the deposit facility and excess reserves.
- 4 Banks need central bank liquidity in the form of reserve holdings with the central bank in order to meet their minimum reserve requirements. Banks' reserve holdings are subject to fluctuations because current payments and the issuance and acceptance of cash by the central bank are ultimately also settled using central bank liquidity.



Source: Eurosystem. **1** Reserve maintenance period averages. **2** Asset purchase programme (APP), pandemic emergency purchase programme (PEPP), and remaining holdings from the covered bond purchase programmes (CBPP and CBPP1) and the securities markets programme (SMP). **3** Main refinancing operations and longer-term refinancing operations.

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banks' interest expenditure on excess liquidity holdings. The banking system as a whole is scarcely able to lower excess liquidity and therefore cannot reduce interest expenditure stemming from negative remuneration on its excess liquidity holdings in central bank accounts. Transactions between banks only result in excess liquidity being redistributed within the banking system.⁵

Two-tier system in connection with other monetary policy measures

In pursuit of its price stability objective, the ECB Governing Council decided in September 2019 to adopt an additional, comprehensive package of measures, lowering the interest rate on the deposit facility by 10 basis points to -0.5% and also making the interest rate on targeted longer-term refinancing operations (TLTRO-III) more attractive.6 In addition, the ECB Governing Council resumed net purchases under the asset purchase programme (APP) at a monthly pace of €20 billion starting in November 2019. The interest rate cut and the further rise in excess liquidity resulting from this package of measures pushed up banks' interest expenditure even further. To address this, the ECB Governing Council also introduced its two-tier system for excess reserve remuneration as a new item in its monetary policy toolkit. In an environment of expanding excess liquidity, the twotier system exempts part of credit institutions' excess liquidity holdings from negative remuneration at the rate applicable on the deposit facility, thereby reducing their interest expenditure. Prior to this, other central banks had already made similar arrangements for the remuneration of banks' excess central bank balances in connection with negative policy rates (see the box on pp. 64 ff.).

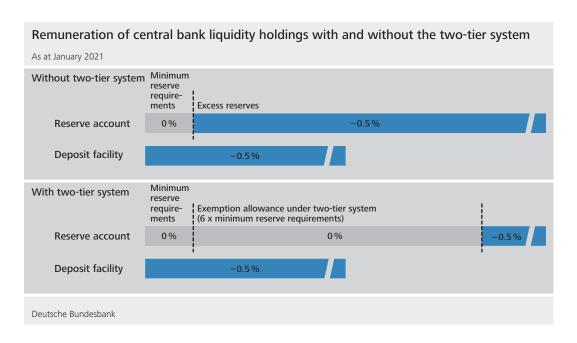
Design of the two-tier system

The tiering system established in the euro area on 30 October 2019 introduced two tiers for the remuneration of excess reserve holdings. A certain amount of excess reserve holdings is exempt from remuneration at the applicable deposit rate, i.e. it is remunerated at 0% instead. This exemption allowance is calculated as a multiple of an individual bank's minimum

Two-tier system exempts part of excess reserve holdings from negative remuneration

⁵ The banking system as a whole can only lower central bank liquidity and thus excess liquidity independently by exchanging liquidity holdings for banknotes or reducing refinancing operations.

⁶ For more information, see https://www.ecb.europa.eu/mopo/implement/omo/tltro/html/index.en.html.



reserve requirements.⁷ The multiplier is the same for all institutions. The ECB Governing Council stated that it would set the multiplier at a level which ensures that euro short-term money market rates are not unduly influenced. The Eurosystem determines the remuneration rate on and the size of the exempt tier on average over a reserve maintenance period.⁸ The ECB Governing Council set the multiplier at six.

Expectations, impact and role in monetary policy

Two-tier system aimed at supporting monetary policy transmission In the euro area, banks play a key role in transmitting monetary policy impulses. They pass on changes in the policy rates to the real economy by adjusting lending conditions. As a rule, policy rate cuts should encourage banks to ease lending conditions for their customers. In turn, this should raise the demand for and granting of credit, thereby increasing investment, private consumption and, ultimately, the price level. With its two-tier system, the ECB Governing Council aims to support the bank-based transmission of its monetary policy. In particular, it is designed to prevent the costs of borrowing for new loans from rising. In a prolonged period of low or negative interest rates, non-standard monetary policy measures, which generate

these high levels of excess liquidity, can have such undesirable side effects.

So far, banks have largely refrained from passing on negative interest rates to their depositors – households' deposits, in particular, are still largely unaffected. As low interest rates are becoming increasingly entrenched, banks that rely heavily on deposits as a source of funding are seeing their interest margins shrink. While the average lending rate continues to fall, banks are reluctant to lower their interest rate on deposits below zero. Interest income from lending therefore reacts more elastically to changes in interest rates than interest ex-

Persistently negative interest rates could have undesirable side effects; ...

- 7 Minimum reserves are compulsory deposits that commercial banks are required to hold with their respective euro area central bank and are calculated using the reserve base. The reserve base comprises deposits from non-banks or banks that are not subject to minimum reserve requirements as well as debt securities that have an agreed maturity or notice period of no more than two years. The Eurosystem applies a positive minimum reserve ratio of 1% at present to the components included in the reserve base. Minimum reserves are remunerated at the weighted average marginal allotment rate on main refinancing operations in the corresponding reserve maintenance period.
- **8** A reserve maintenance period lasts six or seven weeks, each starting shortly after the monetary policy meetings of the ECB Governing Council. For more information and the indicative calendar for reserve maintenance periods, see https://www.bundesbank.de/en/tasks/monetary-policy/minimum-reserves.
- **9** For more information, see the euro area monetary financial institution (MFI) interest rate statistics, Heider et al. (2019) and Eisenschmidt and Smets (2019).

penditure on households' deposits. 10 Viewed in isolation, this could worsen banks' profitability. If this decreased profitability has an impact on banks' capital, they could reduce their credit supply or charge higher lending rates. 11

The exemption allowance is calculated as a multiple of the relevant institution's minimum reserve requirements. Minimum reserves currently comprise 1% of enterprises' and households' deposits subject to reserve requirements. They are largely determined by the amount of deposits held by households, which is roughly three times the amount of deposits held by enterprises. It is precisely those banks with predominantly deposit-based funding that are the main lenders to enterprises and households in the euro area. This is why banks that are involved in lending to enterprises and households tend to be the main beneficiaries of the two-tier system. If the two-tier system helps banks to uphold their credit supply even in the low interest rate environment, it fulfils the ECB Governing Council's objective of supporting the bank-based transmission of monetary pol-

... no negative effects seen so far

So far, there have been no signs either in the euro area or Germany of banks restricting their credit supply because of the negative remuneration on their excess liquidity holdings. Expansionary monetary policy is supporting economic activity and is aimed at meeting the price stability objective in the medium term. The favourable economic situation prior to the coronavirus crisis enabled European banks to compensate for narrower interest margins in the low interest rate environment, allowed them to reduce their loan loss provisions and ensured robust credit demand. Consequently, banks were able to keep their profitability largely stable. Until the onset of the coronavirus crisis, there were no signs of banks being less willing to lend. 12 Bundesbank and ECB analyses confirm that monetary policy continued to have a stimulating effect in this environment.13

The interest expenditure that banks have to pay for excess liquidity holdings is relatively low compared with their other interest-dependent business. From the beginning of the negative interest rate policy period to the end of 2019, declining interest margins cost banks in Germany around four times as much as interest expenditure on excess liquidity holdings. 14 This interest expenditure is a side effect of the negative interest rate policy in combination with high levels of excess liquidity holdings resulting from other monetary policy measures. Taken in isolation, it is a profit-reducing factor that is affected directly by monetary policy. To avoid monetary policy potentially having unwanted side effects in this area, the two-tier system therefore exempts part of banks' excess liquidity holdings from negative remuneration.

In setting the multiplier, the ECB Governing Council calculated the exemption allowances such that the short-term money market rates would not be unduly influenced. 15 The two-tier system encouraged banks to make use of their allowances and thus the more favourable level of remuneration. In this way, the Eurosystem set interest rate incentives for bank transactions that result in a more even distribution of excess liquidity in the system. Money markets had a key role to play, as this is where banks typically trade liquidity. Given that levels of negatively remunerated excess liquidity holdings remained high, there was indeed no sustained rise in the relevant benchmark interest rates for the money market.16

Two-tier system is intended to reduce likelihood of adverse impact from negative interest rates ...

, rates

... whilst avoiding undue

influence on

money market

¹⁰ See Deutsche Bundesbank (2020).

¹¹ See Brunnermeier and Koby (2018).

¹² See European Central Bank (2020).

¹³ See Deutsche Bundesbank (2020) and Schnabel (2020).

¹⁴ See Deutsche Bundesbank (2020).

¹⁵ See also European Central Bank (2019).

¹⁶ In November 2019, when the two-tier system was introduced, the outstanding volume of negatively remunerated excess liquidity held with the Eurosystem stood at around €1,000 billion, and it has risen since then.

Tiering systems in other currency areas

Other central banks besides the Eurosystem have also cut policy rates, pushing their deposit rates into negative territory: these are the Bank of Japan (BoJ), Danmarks Nationalbank, Sveriges Riksbank and the Swiss National Bank (SNB). Each of these central banks has introduced a tiering system in one form or another. The ways in which these tiering systems differ go beyond remuneration and the size and calculation of exemption allowances. For example, Sveriges Riksbank absorbs a certain amount of

excess liquidity, which is otherwise negatively remunerated, by issuing deposit certificates on a weekly basis. This arrangement is therefore not a tiering system in the narrower sense, but it is similar in its effect. The systems adopted by the SNB and the BoJ, which are outlined below, illustrate how differently tiering systems in the narrower sense, too, can be structured and calibrated.

Short-term money market rates and volumes in Switzerland Deviation from the deposit rate¹ + 20 **SARON** 2015 **=** 2019 40 2020 60 - 80 -100 Volume in SARON² +14Deviation compared with day prior +12 to introduction, in CHF billion - 10 - 20 - 10 0 + 10 + 20 Days prior to and following introduction of tiering system and multiplier increases

Sources: SIX Swiss Exchange and Bundesbank calculations. 1 Difference between the Swiss Average Rate Overnight (SARON) and the SNB's interest rate on sight deposits. SARON is a reference interest rate for the Swiss franc. 2 The volume referred to here is the volume used to calculate SARON.

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The SNB's tiering system is similar in design to that of the Eurosystem. In January 2015, the SNB had lowered the interest rate on banks' sight deposits held with the SNB from 0% to -0.75% in order to ensure that the appreciation of the Swiss franc following the discontinuation of the minimum EUR/CHF exchange rate did not lead to an inappropriate tightening of monetary conditions.1 When it introduced its negative deposit rate, it exempted around two-thirds of domestic banks' deposits from this negative interest. The aim of this was to limit the negative interest rate burden on banks to the minimum deemed necessary by the SNB for the implementation of monetary policy while still keeping secured short-term money market rates close to the policy rate.2 The exemption allowance for domestic banks subject to minimum reserve requirements was initially equal to 20 times their minimum reserve requirements ("multiplier"). The SNB deducted the cash holdings reported in the last reserve maintenance

¹ See Swiss National Bank (2015).

² See Swiss National Bank (2019) and Maechler and Moser (2020).

Comparison with tiering systems in other currency areas

Currency area	Start of negative interest rate policy	Start of tiering system	Deposit rates	Average remuner- ation rate ¹	Exempt tier ¹	Calculation of exemption allowance
Denmark ²	July 2012	-	0% (facility) or – 0.6% (certificates)	- 0.48%	18%	1.55% to 3% of current account deposits ³
Euro area	June 2014	Oct. 2019	0% or – 0.5%	- 0.37%	25%	6 x minimum reserve requirements
Switzerland	Jan. 2015	Jan. 2015	0% or – 0.75%	4 - 0.15%	4 80%	30 x minimum reserve requirements ⁵
Sweden ⁶	Feb. 2015	-	0% (certificates) or – 0.1% (facility)	- 0.06%	44%	Set each week based on liquidity surplus
Japan	Jan. 2016	Jan. 2016	0.1%; 0% or - 0.1% ⁷	8 0.04%	8 93%	Range of factors

Sources: Bank of Japan, Danmarks Nationalbank, Eurosystem, Sveriges Riksbank, Swiss National Bank and Bundesbank calculations. 1 Applies to banks' excess liquidity and actual use of exemption allowances. Estimate based on data made available to the public by the respective central banks and may deviate from actual values due to reasons such as the lack of bank-level data. As at (end of reserve maintenance period in) December 2020 (Denmark, euro area, Sweden) or November 2020 (Switzerland, Japan). 2 Negative interest rate policy was suspended for a time. Dual interest rates on the deposit facility and certificates were the norm even prior to the start of the negative interest rate policy period. 3 Depending on the size of current account deposits. 4 Estimate applies exclusively to domestic banks subject to minimum reserve requirements. Full use of exemption allowances is assumed. 5 Less the amount of cash held in the last reserve maintenance period. The exemption allowance is at least CHF 10 million per sight deposit account holder. 6 Sveriges Riksbank had already brought in negative interest rates temporarily back in 2009. The Riksbank absorbs a certain amount of excess liquidity by issuing certificates on a weekly basis. This arrangement is therefore not a tiering system in the narrower sense. 7 For individual regional banks, less 10 basis points in the special deposit facility. 8 The additional interest on deposits held in the special deposit facility for regional banks is not factored into this estimate.

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period from this.³ In response to the significant increase in total sight deposits, in November 2019 the SNB raised its exemption allowance to 25 times banks' minimum reserve requirements, before raising it further to 30 times the requirements in April 2020 in response to the coronavirus crisis.⁴ In terms of volume, the exemption allowances granted to domestic banks subject to minimum reserve requirements comprised around four-fifths of these banks' sight deposits in November 2020, making the average interest rate on the banks' sight deposits held with the SNB likely to have been just under -0.2% per annum.

Trading in the Swiss franc money market increased significantly following the introduction of the tiering system and the subsequent increases in the multiplier. The secured short-term money market rate (Swiss Average Rate Overnight – SARON) rose and temporarily drifted away from the SNB's deposit rate. This was not desirable from a

monetary policy perspective. Since November 2019, the SNB has conducted a number of liquidity-providing operations, bringing SARON back into line with the SNB policy rate.⁵

3 Since November 2019, there have been two methods for calculating the exemption allowance, also referred to as the exemption threshold: (i) For domestic banks subject to minimum reserve requirements, the moving average of their minimum reserve requirements over the preceding three years is multiplied by the threshold factor and updated on a monthly basis. Previously, the calculation of individual banks' minimum reserve requirements was static. The cash holdings reported in the last reserve maintenance period are deducted from this. (ii) The SNB sets a fixed threshold for all other sight deposit account holders. The exemption allowance amounts to at least CHF 10 million for all sight deposit account holders. See also Swiss National Bank (2019).

- **4** The SNB took this action to help banks play their key role in economic developments. See Swiss National Bank (2020).
- **5** From November 2019 to July 2020 via fine-tuning operations in the overnight segment of the repo market, and since July 2020 by auctioning one-month funds on the repo platform. See Maechler and Moser (2020).

In January 2016, the BoJ introduced a tiering system at the same time as it implemented a negative interest rate policy. The BoJ's intention was to prevent an excessive decrease in Japanese banks' earnings stemming from the implementation of negative interest rates that could weaken their function as financial intermediaries. 6 The Japanese tiering system has three tiers. In the first component of the tiering system, the basic balance, a portion of the deposits held by banks in BoJ accounts is still remunerated at a positive rate of 0.1% per annum. The amount of this positive interest-bearing component for each financial institution corresponds to that institution's average outstanding current account balance at the BoJ in 2015. The minimum reserve requirement is deducted from this. The first component is therefore fixed and amounted to just under half of total deposits in November 2020. In the second component of the tiering system, the macro add-on balance,7 a zero interest rate is applied to other deposits (also slightly less than half of total deposits in November 2020). The third component, the policy-rate balance, only comes into play if a financial institution's outstanding balance is in excess of the first two tiers: these excess reserves are subject to negative remuneration at -0.1% per annum. The BoJ adjusts the level of the macro add-on balance each month in both directions to ensure that this negative interest-bearing policy-rate balance accounts for a very low share of total deposits: in November 2020, it only comprised around 7% of deposits. At the end of the period under review, the combination of the three tiering system components produced slightly positive average remuneration overall for deposits held with the BoJ. In Japan, too, the tiering system has led to liquidity being redistributed via the money market.

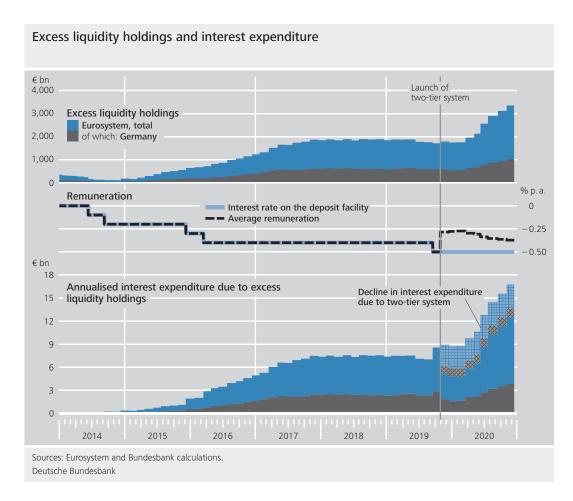
In November 2020, the BoJ added a further component to its tiering system. As a three-year measure, it set up a special deposit facility with interest rates specifically for regional banks that meet certain requirements, namely an additional 0.1 percentage point on each of the three tiering system components. The BoJ hopes that this will strengthen regional economies and ensure financial system stability. For example, the specific eligibility conditions for the more attractive rate of remuneration promote consolidation in the regional banking sector.

The tiering systems of other central banks show how they can differ in terms of structure and specific objectives. All central banks that have introduced negative policy rates in recent years have also adopted a tiering system in one form or another to reduce the potential side effects of the negative interest rate environment. The Japanese tiering system is much more complex and appears, more recently, to have been supporting structural policy in addition to providing interest rate relief. The SNB's experience confirms that a large exempt tier of excess liquidity holdings and significantly negative interest rates can temporarily raise money market rates.

⁶ See Bank of Japan (2016).

⁷ The macro add-on balance comprises minimum reserve holdings plus the basic balance multiplied by a benchmark ratio (expressed as a percentage). It also contains other components, such as the amount outstanding of the BoJ's provision of credit through the loan support programme and its funds-supplying operation to support financial institutions in disaster areas. In the past, the macro add-on balance used to be adjusted quarterly, but since May 2020 it has been adjusted on a monthly basis via the benchmark ratio. The macro add-on balance has risen almost continuously since its introduction in 2016.

⁸ See Bank of Japan (2020).



Impact on interest expenditure in the banking system

When the interest rate on the deposit facility was first lowered into negative territory in 2014, banks in the euro area had to pay just under €0.2 billion per year in interest for holding excess liquidity. In the years that followed, rising excess liquidity holdings led to a continuous increase in the interest paid by banks to the Eurosystem. In September 2019, their annualised interest expenditure on excess liquidity holdings came to €6.8 billion.¹¹ When the ECB Governing Council lowered the interest rate on the deposit facility by 10 basis points to -0.5% in the same month, this expenditure rose to an annualised figure of €8.6 billion (see the chart

Introduction of the two-tier system

The introduction of the two-tier system at the end of October 2019 reduced the absolute annualised interest expenditure on excess liquidity holdings of euro area banks to €5.1 billion.¹8 This means that the two-tier system reduced banks' annualised interest expenditure by just under €3.5 billion and thus lowered their total annual burden by €1.7 billion net after adjustment for the interest rate cut implemented around the same time. Initially, it thus more than offset the impact of the last cut to the deposit facility rate (see the chart on p. 68). Adding together the savings across all reserve maintenance periods from the introduction of the two-

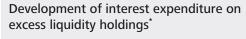
Two-tier system has cut euro area banks' costs by €4.7 billion so far

Rising interest expenditure as a result of negative deposit facility rate and high levels of excess liquidity holdings

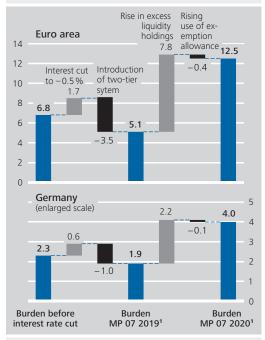
above).

¹⁷ The period referred to here and below is the sixth reserve maintenance period of 2019, from 18 September to 29 October 2019.

¹⁸ The period referred to here is the seventh reserve maintenance period of 2019, from 30 October to 17 December 2019.



€ billion



Sources: Eurosystem and Bundesbank calculations. * Interest expenditure on excess liquidity holdings averaged across one reserve maintenance period, annualised. 1 Seventh reserve maintenance period in 2019 and 2020, respectively.

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tier system to December 2020, the interest banks paid on their excess liquidity holdings in this period was, in fact, €4.7 billion lower in total than it would have been without the two-tier system. Around one-quarter of this reduction was accounted for by banks in Germany.

The most recent figures show an increase in the annualised interest expenditure on excess liquidity holdings to around €12.5 billion, which is due to the significant rise in excess liquidity holdings.

Use of the exemption allowances

The impact of the two-tier system is maximised when all banks make full use of their individual exemption allowances. If the distribution of excess liquidity holdings had been the same as it was before the two-tier system was introduced, banks would have been able to use only

72% of the available allowances. Excess liquidity holdings are distributed heterogeneously both across euro area countries and among banks in individual countries.¹9 For example, before the introduction of the two-tier system, the German banking system was holding €571 billion in excess liquidity (around 33% of total excess liquidity holdings in the euro area). However, given the set multiplier of six, only 69% of the €221 billion in available allowances would have been used in the reserve maintenance period before the two-tier system was launched.

Banks were already using the bulk of their allowances during the introductory phase of the two-tier system in the seventh reserve maintenance period of 2019, both in the euro area as a whole and in Germany. The banking sectors of some euro area countries recorded net inflows of liquidity in connection with allowances being used up. On aggregate, the excess liquidity held by the banking sectors in Italy, Greece, Portugal and Slovakia was initially lower than the allowances granted. In the first reserve maintenance period after the two-tier system was introduced (from 30 October 2019 to 17 December 2019), banks in the euro area were able to use 95% of their allowances as a result of liquidity redistribution. One year later, in December 2020, this figure had risen to 99% (see the chart on p. 69).

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... began when

two-tier system

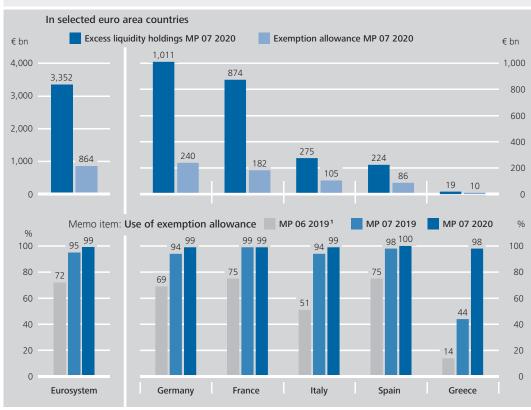
was introduced

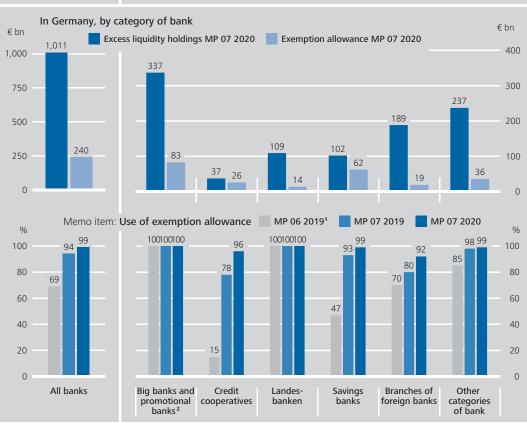
Before the introduction of the two-tier system, the volume of excess liquidity held in the German banking system, particularly by some savings banks, credit cooperatives and branches of foreign banks, was in some cases significantly smaller than the allowances granted by the ECB Governing Council. These institutions often hold liquidity indirectly via their central and parent institutions. In the first reserve maintenance period after the two-tier system was launched, some savings banks immediately received inflows of liquidity, above all from Landesbanken, enabling them to use 93% of their exemption

In Germany, allowances left partly unused by savings banks, credit cooperatives and branches of foreign banks

The liquidity redistribution required for full use of exemption allowances ...

Excess liquidity holdings and two-tier system exemption allowance





Sources: Eurosystem and Bundesbank calculations. **1** The use of the two-tier system in the reserve maintenance period 06 2019 is a hypothetical value, as the two-tier system was introduced with effect from the reserve maintenance period 07 2019. **2** Big banks and banks with special, development and other central support tasks.

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The two-tier system and liquidity holding in finance associations

German finance associations in the cooperative and savings bank sectors are characterised by special liquidity management and therefore also by special liquidity movements in the two-tier system. In particular, central institutions often assume a liquidity distribution function within the financial group and offer central services, such as indirect holding of minimum reserves. Exemptions specific to finance associations in the supervisory capital and liquidity requirements may apply to these arrangements. In this context, the introduction of the two-tier system triggered special liquidity movements.

Liquidity pooling in accounts with the central bank

Prior to the introduction of the two-tier system, some cooperatives and savings banks did not have large enough balances on their accounts with the Bundesbank for them to make full use of their exemption allowances. By contrast, their central institutions did hold sufficient excess liquidity on their Bundesbank accounts. As an alternative to their accounts with the Bundesbank, savings banks and cooperative banks also hold liquid funds in the form of deposits with the central institution of their association as part of their intra-group liquidity management - e.g. for settling payments. They can transfer balances between these accounts in order to make best use of their allowances in the two-tier system. However, they may also generate additional deposits from other sources (e.g. borrowing on the money market or liquidating securities).

The central institutions themselves are not necessarily dependent on their affiliated institutions' deposits to be able to make use of exemption allowances. They have sufficient liquidity from other sources. Nevertheless, it is in their interest for their affiliated institutions to hold liquidity with them on their current accounts, as intra-group deposits with the central institution are given preferential treatment in the liquidity coverage ratio (LCR) and can therefore improve this ratio.¹

In some cases, central institutions improved the conditions for their affiliated institutions in order to retain these deposits after the introduction of the two-tier system. This affected both the conditions for deposits held with the central institutions and the interest rates for interbank lending.

Under the two-tier system, affiliated institutions have shifted deposits from their central institution accounts to the Bundesbank and have also procured additional liquidity to make use of their exemption allowances. Around three-quarters of the increase in central bank balances observed in the first reserve maintenance period following the introduction of the two-tier system (30 October 2019 to 17 December 2019) came from shifts and around one-quarter from additional borrowing. This additional liquidity is

¹ The LCR defines the minimum stock of high-quality liquid assets credit institutions must hold as liquidity reserves in order to cover their net cash outflows under a severe 30-day stress scenario. Affiliated institutions' deposits are particularly attractive for the central institutions of finance associations with regard to the LCR if these deposits are treated as operational deposits pursuant to Article 27(1) of Commission Delegated Regulation (EU) 2015/61 of 10 October 2014 and are given a reduced outflow factor of 25% (compared with a 100% outflow rate for non-operative interbank deposits). However, this is accompanied by an equally reduced inflow rate (25% instead of 100%) for the association member which provides the deposits.

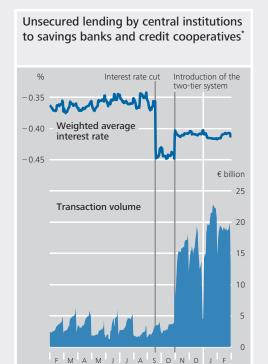
also largely provided by central institutions as the affiliated institutions are not usually active in the money market themselves.

Indirect holding of reserves

Exemption allowances in the two-tier system can also be used more efficiently within finance associations when the affiliated institutions use indirect holding of minimum reserves² to pool their allowances at the central institution. With indirect holding of reserves, the affiliated institution transfers the responsibility for fulfilling the minimum reserve requirement to the central institution and thus also its exemption allowance. By combining the management of minimum reserves in this way, the association is able to use its aggregate exemption allowances without having to shift any liquidity. The central institution can pass on the resulting interest rate advantage to the affiliated institutions.

The advantages of this procedure for member institutions with indirect reserve holdings are that they do not necessarily need to have a Bundesbank account, their minimum reserve requirements are met by the central institution and, in some cases, their deposits with the central institution are remunerated more attractively. The disadvantage is that the institutions may only be able to count excess reserves on their current accounts with the central institution as a 25% weighted inflow in their LCR.3 By contrast, their balances with the Bundesbank in excess of the minimum reserve requirement could always be included at a rate of 100% as high-quality liquid assets in the LCR.

Following the introduction of the two-tier system, more individual institutions switched from holding minimum reserves directly to indirectly than vice versa. It



Sources: Money market statistical reporting and Bundesbank calculations. * Volume and interest rate refer to overnight transactions.

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appears that the benefits of indirect holding of minimum reserves outweighed the disadvantages it poses for fulfilling regulatory ratios.

² However, indirect holding of minimum reserves is only possible in the cooperative sector. Landesbanken do not perform this intermediary function for savings banks.

³ Article 27 of Commission Delegated Regulation (EU) 2015/61, in particular Article 27(1) (b) in relation to deposits within a group.



allowances on average. Credit cooperatives and branches of foreign banks tended to be slower to increase their liquidity and initially used only 78% and 80% of their allowances, respectively. In the months that followed, the institutions in both of these categories used an ever greater proportion of their allowances, with utilisation of these allowances reaching over 90% one year after the launch of the two-tier system (see the chart above). Redistribution in the savings bank and credit cooperative sectors was strongly influenced by liquidity management features specific to these sectors, and by regulatory requirements (see the box on pp. 70 f.). Both factors prevented some of these institutions from using up their allowances more quickly.

On the whole, big banks, promotional banks and Landesbanken did not need any additional liquidity inflows. When the two-tier system was introduced, they already had sufficient excess liquidity holdings to use more than 99% of their allowances.

Aggregated across all institutions domiciled in Germany, the unused allowances in the first reserve maintenance period after the two-tier system was introduced came to €14.3 billion, which corresponds to 94% utilisation. One year later, the respective figures were €2.9 billion and 99%.

Average remuneration on excess liquidity holdings

By changing the level of remuneration on excess liquidity holdings, the ECB Governing Council is able to directly influence the interest expenditure - and thus also the interest margin - of banks in the euro area. Until the twotier system was introduced, the rate of remuneration on excess liquidity holdings was the same as the Eurosystem's interest rate on the deposit facility. Prior to the launch of the twotier system, average remuneration stood at -0.5% beginning in September 2019, whereas once the two-tier system was introduced on 30 October 2019, average remuneration rose from -0.5% to -0.29%. The average interest rate was thus higher than before the interest rate cut in September 2019, when it stood at -0.4% per year. Although the average remuneration on excess liquidity holdings had fallen back to -0.37% per year by December 2020 due to non-standard monetary policy measures increasing excess liquidity holdings to over €3 trillion,20 it remained higher than before the interest rate cut.

Two-tier system increased average remuneration on excess liquidity holdings ...

 $[{]f 20}$ Averaged across the sixth reserve maintenance period of 2020.

... with variation across individual banks

In the two-tier system, the average remuneration on the excess liquidity holdings of individual banks varies considerably. For most institutions, average remuneration is either 0% or -0.5% (see the chart on p. 72). This is because smaller institutions, in particular, remain within the scope of their exemption allowance and thus do not hold any excess liquidity subject to negative remuneration. Other institutions do not have an allowance because, for example, they do not hold any liabilities subject to minimum reserve requirements and therefore do not have a minimum reserve requirement from which the allowance would be calculated. These institutions have to pay negative interest from the very first euro of excess liquidity they hold.

Cut-off interest rate on excess liquidity holdings usually the same as deposit facility rate After most banks had made full use of their allowances, in December 2020 the cut-off interest rate, i.e. the opportunity cost of holding an additional euro of excess liquidity, stood at -0.5% for just under 70% of banks in the euro area.²¹ In view of this cut-off interest rate, undue influence on money market rates is unlikely. Consequently, the ECB Governing Council's interest rate policy is likely to continue to deliver an expansionary stimulus.

Money market rates and liquidity channels

Negatively remunerated excess liquidity holdings significantly exceeded unused allowances It was intended that the introduction of the two-tier system and the liquidity redistribution it triggered should not unduly influence short-term money market rates, which would therefore remain close to the interest rate on the deposit facility. For this purpose, it was envisaged that a sufficiently large volume of excess liquidity would continue to be remunerated at the negative interest rate on the deposit facility. The liquidity supply of those banks that made full use of their exemption allowances would thus sufficiently exceed the liquidity demand of banks with unused allowances.

Response of money market rates to the introduction of the two-tier system*



Sources: Eurosystem, MMSR and Bundesbank calculations. * Based on one-day transactions in the money market statistical reporting (MMSR) dataset. In the daily MMSR statistics, the reporting agents report all of their transactions in the secured and unsecured money market segments, amongst others. See Deutsche Bundesbank (2017) for more information. 1 Only banks with hypothetically unused exemption allowances in the reserve maintenance period 06 2019.

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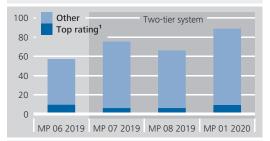
When the two-tier system was introduced, banks which would already have been able to make full use of their allowances at that point in time held an additional €1,140 billion in excess liquidity on top of these allowances. By contrast, the hypothetical liquidity demand of banks with unused allowances came to €227 billion in total.²² Consequently, aggregate potential liquidity demand met with such a large liquidity supply that, given functioning markets, money market rates could be expected to respond only weakly, if at all.

²¹ This share rises to over 90% when banks are weighted by the size of their minimum reserves as a possible approximation of their economic relevance.

²² These figures are based on the sixth reserve maintenance period of 2019, which ran from 18 September to 29 October 2019 and thus pre-dates the two-tier system. They are therefore theoretical, based on the assumption that the two-tier system had already been adopted at that point in time.

Collateral provided for overnight borrowing by banks with unused exemption allowances, broken down by country rating*

€ billion, weekly average of reserve maintenance periods



Sources: MMSR and Bundesbank calculations. * Bilateral operations only. Only banks with hypothetically unused exemption allowances in the 06 2019 reserve maintenance period. 1 Collateral from countries that have a minimum country rating of Aa/AA+ from Moody's/S&P/Fitch.

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Development of short-term money market rates

Short-term money market rates rose only temporarily In practice, the two-tier system did indeed have barely any impact on money market rates, just as the ECB Governing Council had intended. This was reflected by the euro short-term rate (€STR),²³ which rose only slightly – by around 1 basis point – up to the end of 2019. Secured interest rates such as the STOXX GC Pooling Indices and the RepoFunds Rates²⁴ likewise saw only minor increases.

Distinguishing between banks with and without unused exemption allowances results in slightly higher interest rates on the borrowing of banks with unused allowances than on the borrowing of banks that would have already made full use of their allowances before the two-tier system was introduced. Banks with unused allowances had a greater interest in obtaining liquidity. The higher interest rates incurred by these banks in the unsecured money market had almost completely receded again within a few days.

They remained elevated for somewhat longer in the secured money market. This is explained by the fact that banks with unused allowances made increasing use of securities, which – all

other business conditions being equal – lead to somewhat higher interest rates than, say, German Federal bonds (Bunds) (see the adjacent chart). The slightly higher interest rates in the secured money market are likely to also be due to growth in bilateral transactions.²⁵

Increase in secured money market rates owing to modified collateral structure

Channels of liquidity movements

Such a rapid liquidity redistribution of around €200 billion, triggered by an adjustment in the monetary policy framework, is unusual. Investigating it can provide information as to the state of the banking system and the financial markets in the euro area. In this context, the observed shift in liquidity is mainly of interest in terms of its market channels, magnitude, speed and geographical focus. This analysis is principally confined to the fourth quarter of 2019. During this period, liquidity shifts due to the two-tier system had largely been concluded and the financial markets were not yet experiencing the impact of the coronavirus pandemic.

In the two-tier system, banks with unused exemption allowances were interested in obtaining liquidity as long as the rate of interest on this was lower than the remuneration rate on the allowance. Banks holding excess liquidity subject to negative remuneration were expected to lend some of it, provided that the remuneration was higher than the rate of interest

Essentially three channels open for liquidity increase

25 Unlike transactions with a central counterparty (CCP), secured bilateral transactions are not settled centrally. This means that the contracting parties are unable to benefit from the advantages of a CCP (e.g. offsetting various positions, easier provision of collateral) and therefore charge somewhat higher interest rates in some cases. Between the introduction of the two-tier system and the end of 2019, the percentage of bilateral transactions had increased from around 22% to more than 34% for banks with unused allowances.

²³ The unsecured transaction-based overnight rate, which is published by the ECB on a daily basis.

²⁴ The STOXX GC Pooling Indices and the RepoFunds Rates are based on secured money market transactions executed via the electronic trading platforms Eurex Repo GmbH (for the former) and BrokerTec and MTS (for the latter).

on the deposit facility. These conditions essentially produce three channels for the redistribution: the money market, the capital market (especially through the sale of highly liquid assets²⁶) and participation in the targeted longer-term refinancing operations of the Eurosystem.²⁷

Role of the money market

Liquidity initially redistributed within banking groups

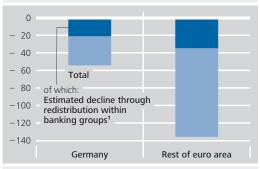
In order to offset liquidity differences among themselves, banks can first shift funds within banking groups and close alliances – such as the German associations. In this way, banks were already able to fill more than one-quarter of their unused exemption allowances as soon as the two-tier system came into operation. In Germany, banks filled roughly one-third of their unused allowances through intra-group shifts and shifts within associations (see the adjacent chart).²⁸

Banks can borrow not only within their group and association but also in the money market.²⁹ On the first day of the two-tier system, outstanding net borrowing³⁰ by banks with unused allowances rose significantly. Large institutions were thus able to reduce their unused allowances by roughly one-third.³¹ They borrowed around 90% of the additional liquidity in the secured money market. By contrast, banks that made full use of their allowances expanded their lending, thus reducing their net borrowing (see the upper chart on p. 76).³² Non-banks, too, participated in this redistribution, principally through secured transactions.

Majority of liquidity distributed through money market When the two-tier system was introduced, the short-term money market was an obvious opportunity for banks to rapidly increase their liquidity holdings. For one thing, the money market rates were (and are) well below 0%, i.e. the rate of remuneration on the exemption allowance. For another, the short-term liquidity coverage of unused allowances introduces flexibility because it can be scaled back again at any time.

Decline in unused exemption allowances

 $\ensuremath{\mathfrak{E}}$ billion, change from the sixth to the seventh reserve maintenance period of 2019



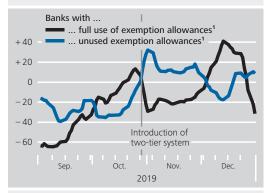
Sources: Eurosystem and Bundesbank calculations. **1** The estimate uses the change in the aggregate unused exemption allowances of a banking group adjusted for the increase in its holdings of excess liquidity. In the case of Germany, both savings banks and cooperative banks are considered as a banking group, respectively.

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- **26** Another possibility would be the sale of other assets such as corporate bonds or shares. Here, however, it is assumed that banks chiefly scale back assets that have particularly low returns. Reducing euro government bonds, in particular, would therefore seem purposeful.
- 27 Above and beyond that, there are yet further channels for obtaining liquidity, such as accepting customer denosits
- 28 An analysis of TARGET2 data confirms this development and shows heightened transactions by banks with unused allowances at the time the two-tier system started, especially within banking groups. Money market transactions in TARGET2 can be identified by an algorithm, described in Arciero et al. (2016) and elsewhere.
- 29 The money market is that part of the financial market in which short-term liquidity (maturity of up to one year) is traded
- **30** The outstanding net volume of borrowed funds is the difference between the outstanding volume of borrowing and the outstanding volume of lending.
- 31 Estimate for MMSR reporting agents taking into account individual banks' unused allowances from the sixth reserve maintenance period of 2019 and the change in net borrowing in the money market between the sixth and seventh reserve maintenance periods of 2019. If net borrowing rises above the theoretically unused allowance for an individual bank, it is no longer taken into account. The aggregate also takes into account any decrease in net borrowing. The 48 banks for which MMSR data are available represent approximately €63 billion of €227 billion in theoretically unused allowances.
- **32** The MMSR statistics reflect a large part of the money market operations of the reporting banks and thus also the borrowing of counterparties outside the banking sector. For this reason, even some institutions with clear excess liquidity holdings report net borrowing.

Change in money market net borrowing*

€ billion

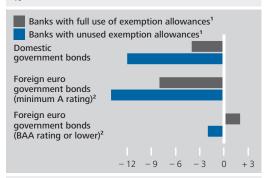


Sources: Eurosystem, MMSR and Bundesbank calculations. * Absolute change in outstanding net borrowing, normalised as at 29 October 2019. Centred moving five-day average. All maturities. 1 Hypothetical in the reserve maintenance period prior to the introduction of the two-tier system.

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Change in bond holdings from banks' perspective in the final quarter of 2019*

0/6

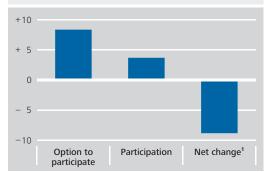


Sources: Eurosystem, securities holding statistics and Bundesbank calculations. * Relative change in own holdings at nominal values compared with previous quarter. 1 Hypothetical in the reserve maintenance period prior to the introduction of the two-tier system. 2 Moody's rating.

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Use of second TLTRO-III to reduce unused exemption allowances*

€ billion



Sources: Eurosystem and Bundesbank calculations. * Amounts are shown only if banks were able to use them to fill their unused exemption allowances for the seventh reserve maintenance period of 2019. **1** After deduction of repayments of TLTRO-II operations.

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Additional channels for liquidity inflows

Liquidity can also be generated in the capital market, for instance by banks actively selling securities or not reinvesting principal payments. Banks with unused exemption allowances, in particular, have reduced their government bond holdings. This was generally remunerative in the case of securities with a return below 0%. In the fourth guarter of 2019, these securities included the government bonds of several euro area countries. Furthermore, the Eurosystem's resumption of net purchases under its asset purchase programmes boosted market demand. There are indications that banks covered roughly one-quarter of their unused allowances by reducing their own holdings of government bonds.33 It was mainly domestic government bonds that were sold. There are no signs of banks reducing foreign government bonds with somewhat lower ratings to a greater extent (see the adjacent middle chart). In the aggregate, there is no evidence of any obvious sales of other securities, such as corporate bonds or shares, or of a disproportionate increase in bond issuance, for banks with unused allowances. 34

Additional liquidity obtained through reduction of securities holdings

Another way of obtaining liquidity at a negative interest rate was provided by participation in the Eurosystem's monetary policy refinancing operations. There are no apparent indications, however, of banks with unused allow-

Obtaining
liquidity through
additional
Eurosystem
refinancing
operations
insignificant

33 Estimate taking account of individual banks' unused allowances in the sixth reserve maintenance period of 2019 and the changes in holdings of euro government bonds between the third and fourth quarters of 2019. Reductions beyond the theoretically unused allowance are not taken into account. Any increase in holdings by individual banks reduces the aggregate estimated value. The estimate is calculated using the market and nominal values from the securities holdings statistics. The 249 banks for which data are available from these statistics account for roughly €93 billion of €227 billion in theoretically unused allowances. 34 Higher net issuance by banks with unused allowances was not observable in the individual balance sheet items (IBSI) dataset. Banks could also have obtained liquidity in the capital market through bond issuance. However, owing to the fact that funds are tied up in bonds for a relatively long period of time compared with other alternatives (in contrast to short-term central bank liquidity), issuing bonds is initially not as attractive for this purpose.

ances participating in greater numbers in the second TLTRO-III operation in December 2019. To fully utilise their allowances, they could have borrowed €8 billion in this operation, but they used only €4 billion of this amount. Taking account of the repayments of the outstanding second series of targeted longer-term refinancing operations (TLTRO-II), the liquidity effect for these banks is in fact negative (see the lower chart on p. 76). Even so, banks with unused allowances made somewhat greater use of their bidding opportunities overall than those that had already made full use of their allowances.

The allotments of the later TLTRO-III operations, which are now also remunerated more attractively, as well as the additional asset purchases by the Eurosystem meanwhile caused excess liquidity to increase further from mid-March 2020. As a result, banks probably do not have to obtain as much additional liquidity to make full use of their still unused allowances.

Cross-border liquidity flows

Cross-horder liquidity flows ...

As already highlighted, for some countries liquidity had to flow in from outside so that the banks in those countries could utilise their exemption allowances in full.35 In the first few days following the start of the two-tier system, banks with unused allowances additionally borrowed roughly €16 billion via the money markets in other euro area countries. Cross-border money market transactions within Europe as a percentage of the total volume thus increased by just under 2 percentage points to 20%.

... lead to somewhat more homogenous liquidity distribution and temporarily reduce TARGFT2 balances

These cross-border liquidity shifts were reflected not only in an altered distribution of excess liquidity but also in temporarily lower TARGET2 balances.36 On 30 October 2019, total TARGET2 claims and liabilities fell by €32 billion. During the first few weeks of the twotier system, there was a reduction especially in the TARGET2 claims of Germany, France, the Netherlands and Belgium and a correlated de-

Change in TARGET2 balances and excess liquidity holdings from MP 06 to MP 07 2019 € billion TARGET2 balance (outflows: -/inflows: +) Excess liquidity holdings Germany France Netherlands Belgium Italy Rest 0 -30 -20 -10+10 +20 +30 +40 +50 Sources: Eurosystem and Bundesbank calculations

cline in these countries' relative share of excess liquidity holdings. By contrast, liquidity flowed into the Italian banking system, evidenced in particular by a €48 billion decline in Italian TARGET2 liabilities³⁷ and a considerable rise in excess liquidity held in the Italian banking system of €46 billion to €115 billion (see the chart above). Following the initial effects of the twotier system, developments in TARGET2 balances were rapidly again dominated by other cross-

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35 As far as liquidity is not created locally, for example through Eurosystem refinancing operations.

36 Countries with TARGET2 claims often correspond to banking systems that hold a relatively large amount of excess liquidity. In line with this, a redistribution from countries with high excess liquidity to countries with relatively low excess liquidity is also accompanied by a decline in the respective TARGET2 claims and/or liabilities. This, in turn, leads to a decline in total TARGET2 claims and/or liabilities. 37 Here and below: on an average of the sixth to the seventh reserve maintenance period of 2019. Liquidity did not necessarily flow directly between the countries mentioned

border transactions.³⁸ The distribution of excess liquidity in the euro area remains exceedingly heterogeneous, too.

of excess liquidity in the euro area is, at present, still subject to the negative interest rate on the deposit facility.

Conclusion

With two-tier system, ECB Governing Council has achieved its aims The data and facts analysed here suggest, as an interim conclusion, that the ECB Governing Council has achieved its intended aims with the introduction of the two-tier system. The twotier system is likely to have assisted bank-based transmission, for example, through having reduced interest expenditure on holding excess liquidity by €4.7 billion up to December 2020. As was intended, short-term money market rates have not been unduly influenced. They are, in fact, somewhat lower at present than when the two-tier system was introduced. With regard to money market rates, there is therefore no need to charge a negative rate of interest on all excess liquidity holdings. At €2,498 billion at last report, the vast majority The incentives of the two-tier system led to a redistribution of liquidity in the banking system, resulting in exemption allowances being very largely used up. The banks essentially achieved this directly after the introduction of the two-tier system via the money market, which proved to be stable. Banks carried out a large part of the redistribution within their banking groups and associations. Liquidity shifts also took place internationally. Some banks boosted the amount of liquidity they held by reducing their government bond holdings. Most banks managed to use up their allowances completely without recourse to additional Eurosystem refinancing.

38 Net asset purchases by the Eurosystem, in particular, lead to rising TARGET2 balances. See also Deutsche Bundesbank (2016), Eisenschmidt et al. (2017) and Avdjiev et al. (2019).

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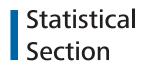
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2. 3. 4. 5.	Assets and liabilities of monetary financial institutions (excluding the Deutsche Bundesbank) in Germany
2. 3. 4. 5.	Assets and liabilities of monetary financial institutions (excluding the Deutsche Bundesbank) in Germany
2. 3. 4. 5. 6.	Assets and liabilities of monetary financial institutions (excluding the Deutsche Bundesbank) in Germany
2. 3. 4. 5. 6.	Assets and liabilities of monetary financial institutions (excluding the Deutsche Bundesbank) in Germany
2. 3. 4. 5. 6.	Assets and liabilities of monetary financial institutions (excluding the Deutsche Bundesbank) in Germany
2. 3. 4. 5. 6.	Assets and liabilities of monetary financial institutions (excluding the Deutsche Bundesbank) in Germany
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I. Key economic data for the euro area

1. Monetary developments and interest rates

	Money stock in v	arious definitions	1,2		Determinants of	the money stock 1		Interest rates		
	M1	M2	M3 3	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 percentag	ge change						% p.a. as a mont	hly average	
2019 Apr.	7.4	5.4	4.8	4.8	2.7	3.2	1.2	- 0.37	- 0.31	0.7
May	7.2	5.2	4.9	4.8	2.2	2.8	1.4	- 0.37	- 0.31	0.7
June	7.3	5.0	4.6	4.9	2.2	3.1	2.2	- 0.36	- 0.33	0.4
July	7.7	5.5	5.2	5.2	2.1	3.0	2.0	- 0.37	- 0.36	0.2
Aug.	8.4	6.1	5.8	5.5	2.3	3.3	1.7	- 0.36	- 0.41	- 0.1
Sep.	8.0	5.9	5.7	5.7	2.2	3.3	1.8	- 0.40	- 0.42	- 0.1
Oct.	8.3	6.0	5.7	5.6	2.4	3.7	1.5	- 0.46	- 0.41	- 0.0
Nov.	8.3	5.9	5.6	5.4	2.1	3.4	1.8	- 0.45	- 0.40	0.1
Dec.	8.0	5.7	4.9	5.2	2.0	3.3	1.5	- 0.46	- 0.40	0.2
2020 Jan.	8.0	5.6	5.2	5.2	1.9	3.2	1.2	- 0.45	- 0.39	0.2
Feb.	8.1	5.6	5.5	6.1	1.9	3.2	0.8	- 0.45	- 0.41	- 0.0
Mar.	10.4	7.4	7.5	7.1	3.6	4.2	0.2	- 0.45	- 0.42	0.2
Apr.	11.8	8.3	8.2	8.2	4.8	4.3	- 0.0	- 0.45	- 0.25	0.3
May	12.5	9.1	9.0	8.8	6.1	4.9	0.1	- 0.46	- 0.27	0.2
June	12.7	9.3	9.3	9.4	6.9	4.6	- 0.5	- 0.46	- 0.38	0.2
July	13.5	10.0	10.1	9.6	7.4	4.7	- 0.6	- 0.46	- 0.44	0.0
Aug.	13.3	9.6	9.5	10.0	7.7	4.7	- 0.2	- 0.47	- 0.48	- 0.0
Sep.	13.8	10.3	10.4	10.1	8.1	4.5	- 0.5	- 0.47	- 0.49	- 0.1
Oct. Nov. Dec.	13.8 14.5 	10.3 10.8 	10.5 11.0 	10.6 	8.3 8.5 	4.2 4.2 	- 0.6 - 1.2 	- 0.47 - 0.47 - 0.47	- 0.51 - 0.52 - 0.54	- 0.2 - 0.2 - 0.2

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 included: DE, FR, NL, BE, AT, FI, IE, PT, ES, IT, GR, SK, CY, SI.

2. External transactions and positions *

	Selected items of	of the euro area b	alance of payme	nts r		Euro exchange i	rates 1			
	Current account		Financial accour	nt			Effective excha	ange rate 3		
	Balance	of which: Goods	Balance	Direct investment	Portfolio investment	Financial derivatives 2	Other Reserve assets	Dollar rate	Nominal	Real 4
Period	€ million							EUR 1 = USD	Q1 1999 = 10	0
2019 Apr.	+ 10,425	+ 24,208	- 19,485	+ 6,784	- 44,907	+ 8,035	+ 7,365 + 3,237	1.1238	97.7	93.0
May	- 1,806	+ 27,139	- 1,154	- 27,382	- 48,846	+ 3,715	+ 69,514 + 1,845	1.1185	98.2	93.4
June	+ 11,164	+ 26,624	+ 8,676	- 67,830	+ 26,867	+ 4,975	+ 46,933 - 2,269	1.1293	98.8	93.9
July	+ 32,210	+ 34,396	+ 28,999	- 16,204	- 23,706	+ 8,832	+ 54,628 + 5,449	1.1218	98.4	93.4
Aug.	+ 32,290	+ 22,786	+ 24,907	+ 38,111	- 5,898	- 5,344	- 2,591 + 629	1.1126	98.9	93.9
Sep.	+ 38,352	+ 28,258	+ 39,786	+ 9,321	- 13,235	- 5,561	+ 55,201 - 5,939	1.1004	98.2	93.1
Oct.	+ 28,919	+ 36,559	+ 38,980	+ 20,355	+ 35,243	+ 6,382	- 23,895 + 894	1.1053	98.1	92.9
Nov.	+ 23,454	+ 29,955	+ 22,053	- 54,009	+ 42,274	+ 346	+ 37,313 - 3,870	1.1051	97.5	92.2
Dec.	+ 33,443	+ 31,059	+ 1,997	- 66,001	+ 66,535	- 11,982	+ 12,987 + 458	1.1113	97.4	92.1
2020 Jan.	- 8,191	+ 9,346	- 9,299	+ 8,076	- 44,974	+ 7,304	+ 19,312 + 983	1.1100	97.0	91.4
Feb.	+ 15,155	+ 29,044	+ 18,700	+ 26,238	- 27,181	+ 6,827	+ 13,925 - 1,108	1.0905	96.3	90.7
Mar.	+ 25,083	+ 38,239	+ 4,707	- 7,526	- 116,404	- 1,848	+ 126,935 + 3,550	1.1063	99.0	93.1
Apr.	+ 11,273	+ 11,210	- 30,556	- 34,009	+ 158,892	+ 10,904	- 168,045 + 1,702	1.0862	98.2	92.6
May	- 591	+ 16,592	+ 14,661	- 34,804	+ 42,674	+ 8,709	- 3,592 + 1,673	1.0902	98.4	92.8
June	+ 19,104	+ 27,879	+ 57,279	- 23,135	- 19,501	+ 18,405	+ 81,673 - 163	1.1255	99.8	94.0
July	+ 25,023	+ 35,876	- 735	+ 24,210	- 49,449	+ 5,069	+ 19,992 - 558	1.1463	100.5	94.6
Aug.	+ 22,573	+ 24,536	+ 51,426	+ 23,887	+ 24,321	- 14,419	+ 16,332 + 1,304	1.1828	101.6	95.1
Sep.	+ 35,285	+ 35,487	+ 43,811	+ 7,007	- 1,792	- 21,604	+ 57,564 + 2,637	1.1792	101.6	95.0
Oct. Nov. Dec.	+ 34,071 	+ 39,005 	+ 34,639 	+ 19,002 	+ 85,942 	- 985 	- 72,230 + 2,911 	1.1775 1.1838 1.2170	101.4 100.7 101.9	p 94.9p 94.4p 95.5

^{*} Source: ECB, according to the international standards of the International Monetary Fund's Balance of Payments Manual (sixth edition). 1 Monthly averages, see also Tables

XII.10 and 12, pp. 82*/ 83*. **2** Including employee stock options. **3** Against the currencies of the EER-19 group. **4** Based on consumer price indices.

I. Key economic data for the euro area

3. General economic indicators

Period	Euro area	Belgium	Germany	Estonia	Finland	France	Greece	Ireland	Italy	Latvia
		domestic pro	oduct 1							
2018 2019 2020	Annual percenta 1.9 1.3	1.8 1.7 	1.3 0.6 – 5.0	4.4 5.0 	1.3 1.1 	1.8 1.5 	1.6 1.9 	8.5 5.6 	1.0 0.3 	4.0 2.1
2019 Q2 Q3 Q4	1.3 1.4 1.0	1.7 1.8 1.6	- 0.3 1.2 0.2	3.3 6.3 5.3	1.3 2.0 0.7	1.9 1.9 0.8	3.0 3.0 0.6	5.6 6.3 5.9	0.2 0.8 0.1	1.7 2.6 0.8
2020 Q1 Q2 Q3	- 3.2 - 14.7 - 4.3	- 2.0 - 13.9 - 4.5	- 1.7 - 11.3 - 3.9	- 0.7 - 6.9 - 1.9	- 0.7 - 6.3 - 3.0	- 5.3 - 18.9 - 4.5	– 1.0 – 15.3 	6.0 - 3.2 8.1	- 5.6 - 18.4 - 5.2	- 1.0 - 8.9 - 2.6
	Annual percenta									
2017 2018 2019 2019 Q2 Q3	3.0 0.7 - 1.3 - 1.6	2.9 1.2 4.8 5.9 4.3	3.4 1.0 - 4.3 - 5.0 - 4.9	4.8 0.1 2.0 – 1.5	3.4 3.4 1.9 2.8 3.3	2.4 0.4 0.5 1.6 – 0.2	4.1 1.8 - 0.7 0.6 - 0.2	- 2.2 - 5.0 2.8 0.4 4.7	3.6 0.7 - 1.1 - 0.8 - 1.3	8.6 2.0 0.8 1.4 2.5
Q4 2020 Q1 Q2 Q3	- 2.1 - 6.0 - 20.1 - 6.6	5.9 - 0.3 - 11.7 - 3.5	- 5.1 - 6.7 - 21.7 p - 9.8	- 5.1 - 4.7 - 13.3 - 2.9	1.2 - 0.2 - 5.0 - 5.0	- 0.7 - 7.6 - 23.5 - 7.1	- 5.0 - 1.3 - 8.1 - 2.1	4.7 6.8 – 1.6 – 2.2	- 2.1 - 11.4 - 25.4 - 5.1	0.0 - 2.3 - 5.1 - 1.9
•		ilisation in ir								
2018 2019 2020 2019 Q3 Q4 2020 Q1	83.8 82.3 74.4 81.8 81.0 80.8	81.0 81.2 75.5 81.2 80.7 79.7	87.7 84.5 77.0 83.9 82.6 82.9	74.4 72.8 67.4 72.5 69.9 70.7	84.1 81.1 76.8 81.6 78.6 78.4	85.9 84.5 73.5 84.3 83.4 82.6	70.8 71.5 70.8 71.8 72.1 72.3	76.2 77.3 68.5 74.1 78.0 75.5	78.1 77.4 53.1 77.0 76.8 76.5	76.4 76.3 71.8 75.9 75.5 74.7
Q2 Q3 Q4	68.3 72.1 76.3	72.8 73.4	71.4 74.4	63.3 66.0 69.6	77.2 76.0	62.4 72.9 76.0	67.3 70.3 73.2	56.7 69.6 72.0	- 64.5	69.1 70.8
		ed unemploy of civilian labour								
2017 2018 2019 2020 June July	9.0 8.2 7.5 7.9 8.7	7.1 6.0 5.4 5.3 5.9	3.8 3.4 3.2 e 4.5 e 4.5	5.8 5.4 4.5 8.0 7.8	8.6 7.4 6.7 7.8 8.6	9.1 8.7 8.2 6.9 9.4	21.5 19.3 17.3 18.0 16.6	6.8 5.8 5.0 5.3 6.2	11.3 10.6 10.0 9.3 9.8	8.7 7.5 6.3 8.8
Aug. Sep. Oct. Nov.	8.6 8.5 8.4 8.3	6.5 6.6 6.3 6.1	e 4.5 e 4.5 e 4.5 e 4.5	8.0 8.1 8.1	8.5 8.4 8.1 7.8	9.0 8.8 8.6 8.8	16.5 16.1 	6.7 7.2 7.2 7.5	9.7 9.5 9.5 8.9	8.6 8.3 8.1 8.1
	Harmonise Annual percenta		onsumer Pric	es						
2018 2019 2020 2020 July Aug. Sep.	1.8 1.2 e 0.3 0.4 - 0.2 - 0.3	2.3 1.2 e 0.4 1.7 - 0.9 0.5	1.4 5,e 0.4 5 0.0 5 - 0.1 5 - 0.4	2.3 e - 0.6 - 1.3 - 1.3 - 1.3	1.1 e 0.4 0.7 0.3 0.3	1.3 e 0.5 0.9 0.2 0.0	0.5 e - 1.2 - 1.9 - 2.3 - 2.3	0.9 e - 0.5 - 0.6 - 1.1 - 1.2	0.6 e - 0.1 0.8 - 0.5 - 1.0	2.7 0.1 0.1 - 0.5 - 0.4
Oct. Nov. Dec.	- 0.3 - 0.3 e - 0.3	0.4 0.2 e 0.4	5 - 0.5 5 - 0.7 5,e - 0.7	- 1.7 - 1.2 e - 0.9	0.2 0.2 e 0.2	0.1 0.2 e 0.0	- 2.0 - 2.1 e - 2.4	- 1.5 - 1.0 e - 1.0	- 0.6 - 0.3 e - 0.3	- 0.7 - 0.7 - 0.5
	As a percentage	of GDP	nancial balan							
2017 2018 2019	- 0.9 - 0.5 - 0.6	- 0.8	1.8	- 0.5	- 0.9	- 3.0 - 2.3 - 3.0	1.0	- 0.3 0.1 0.5	- 2.2	- 0.8
2017 2018 2019	General go As a percentage 87.7 85.8 84.0	102.0 99.8	65.1 61.8	8.2	59.6	98.1	186.2	63.0	134.4	37.1

Sources: Eurostat, European Commission, European Central Bank, Federal Statistical Office, Bundesbank calculations. Latest data are partly based on press reports

and are provisional. **1** Euro area: quarterly data seasonally adjusted. **2** Manufacturing, mining and energy: adjusted for working-day variations. **3** Manufacturing:

I. Key economic data for the euro area

							Т		Ι					Ι		1
Lithuani	a	Luxembou	rg	Malta		Netherlands	Austria		Portugal		Slovakia		Slovenia	Spain	Cyprus	Period
													Real g	ross domesti	c product 1	
	3.9 4.3		3.1 2.3		4.8 5.3	2. 1.		2.6 1.4		2.9 2.2		3.8 2.3	4.4 3.2	2.4		
	 4.2		 3.1		 5.5	1.		 1.4		 1.9		 2.4	3.3	1.9	 2.8	1
	4.4 4.2		3.1 2.8		3.7 5.5	1. 1.	6	1.7 0.4		2.2 2.4		1.4 2.0	3.1 2.0	1.6	2.8 3.6	Q4
-	2.4 - 4.6 0.1	_	1.5 7.6 0.4	_	0.8 16.1 9.9	- 0. - 9. - 2.	4	- 3.4 - 14.1 - 4.0	-	2.3 16.2 5.7	- - -	3.6 12.1 2.4	- 2.4 - 13.0 - 2.6	- 21.6	1.1 - 12.2 - 4.1	Q2
														Industrial p	roduction ²	
	6.8 5.2	_	3.7 1.1		8.8 1.3	1.	6	5.9 4.9		3.5 0.1		3.3 4.3	8.1 5.3	3.3 0.4	centage change 8.0 6.9	2018
	3.5 5.5	- -	3.1 0.7		0.5	- 0. - 1.	4	0.0	-	1.7		0.5 3.0	2.8 3.2	1.4	4.0 2.4	2019 Q2
-	4.1 - 0.1	-	1.8 8.7		3.7 2.1	- 0.	9	- 0.4 - 4.5		3.5 0.5	_	2.8 4.7	2.6 1.7	0.3	4.6	Q4
		- - -	10.1 22.4 8.2	_	10.6 7.2 1.9	- 1. - 8. - 5.	6	- 5.8 - 16.8 - 3.2	-	1.3 23.8 1.6	- - -	7.3 28.2 1.5	- 2.7 - 17.3 - 3.6	- 24.6	- 1.3 - 19.7 - 5.2	Q2
													Capacit	y utilisation i	n industry ³ e of full capacity	
	77.5 77.3		81.2 79.8		80.3 77.3	84. 84.		88.7 86.6		81.6 78.7		85.4 87.7	85.3 84.4	79.5	61.4 63.8	
	72.9 77.5		72.2 80.3		70.4 75.9	78. 84.		79.2 86.7	1	75.5 80.1		79.3 89.4	78.2 83.6	1	51.7 64.2	
	77.2 76.4		79.0 83.4		78.0 78.8	84. 83.	2	85.3 84.8		77.4 80.6		84.1 82.2	83.8 83.0	80.0	63.6 63.3	2020 Q1
	70.0 71.9 73.4		53.8 76.3 75.3		61.1 68.0 73.5	75. 76. 78.	3	73.9 77.2 80.8		71.7 71.9 77.8		77.1 78.3 79.7	71.9 76.1 81.6	71.5	47.4 49.2 46.7	Q3
														ed unemploy percentage of civi		
	7.1 6.2		5.5 5.6		4.0 3.7	4.	9	5.6 4.9		9.0 7.1		8.1 6.6	6.6 5.1	17.3 15.3	11.1	2018
	6.3 8.8		5.6 7.6		3.6 4.4	3. 4.		4.5 5.5	1	6.5 7.3		5.8 6.8	4.5 5.4	1	7.1 7.7	
	9.6 10.2 10.5		7.2 6.8 6.7		4.5 4.5	4. 4. 4.	6	5.3 5.2 5.1		7.9 8.1 7.9		7.1 7.2 7.0	5.2 5.2 5.0	16.6	7.6 8.5 9.3	Aug.
	10.3 10.4 10.4		6.5 6.5		4.6 4.7 4.8	4.	3	5.1 5.2		7.5 7.2		7.0 7.1 7.1	4.9	16.2	10.5	Oct.
														idex of Consi	umer Prices	
	2.5 2.2		2.0 1.6		1.7 1.5	1.		2.1 1.5		1.2 0.3		2.5 2.8	1.9	1.7	rcentage change 0.8 0.5	
	1.1	e	0.0	e	8.0	1.	1 e	1.4	-	0.1	e	2.0	e _ 0.3	e – 0.3	e – 1.1	2020
	0.9 1.2 0.6	- -	0.1 0.2 0.3		0.7 0.7 0.5	1. 0. 1.	3	1.8 1.4 1.2	-	0.1 0.2 0.8		1.8 1.4 1.4	- 0.3 - 0.7 - 0.7	- 0.6	- 2.0 - 2.9 - 1.9	Aug.
	0.5 0.4 - 0.1	– – e –	0.4 0.7 0.3	e	0.6 0.2 0.2	1. 0.		1.1 1.1 1.0	-	0.6 0.4 0.3	e	1.6 1.6 1.6	– 0.5 – 1.1 e – 1.2	- 0.8	– 1.4 – 1.1 e – 0.8	Nov.
-	- 0.1		0.3		0.2	. 0.	۶۱ و	1.0	-	0.3	, `			ment financia	al balance ⁶	Dec.
1	0.5 0.6		1.3 3.1		3.2 2.0	1.		- 0.8 0.2		3.0 0.3	-	0.9 1.0	- 0.1	As a pe - 3.0	rcentage of GDP	
	0.3		2.4	l	0.5	1.	,	0.7	Ι -	0.1	_	1.4	0.5	- 2.9	1.5	
ı	39.1	I	22.3	I	48.8	56.	9	78.5	ı	126.1	I	51.7			rcentage of GDP	2017
	33.7 35.9		21.0 22.0		45.2 42.6	52.	4	74.0 70.5		121.5 117.2		49.9 48.5	70.3	97.4	99.2	

quarterly data seasonally adjusted. Data collection at the beginning of the quarter. {\bf 4} Monthly data seasonally adjusted. Germany: Bundesbank calculation based on

unadjusted data from the Federal Statistical Office. ${\bf 5}$ Influenced by a temporary reduction of value added tax. ${\bf 6}$ According to Maastricht Treaty definition.

II. Overall monetary survey in the euro area

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

€ billion

	I. Lending to r		n-MFIs)			II. Net		on residents			capital forma			
		Enterprises and househo	olds	General government									Debt	
Period	Total	Total	of which: Securities	Total	of which: Securities	Total		Claims on non- euro area residents	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
2019 Apr.	69.1	90.1	27.1	- 21.0	- 20.5	-	15.7	107.8	123.5	- 16.1	- 5.0	0.2	- 10.2	- 1.2
May	39.0	36.7	12.7	2.4	3.2		63.5	69.9	6.3	11.0	- 2.9	0.6	7.6	5.7
June	– 0.4	23.0	– 13.5	- 23.4	- 22.6		78.1	– 15.3	– 93.4	41.8	19.9	1.1	6.2	14.7
July	49.7	61.3	- 1.4	- 11.6	- 14.3	-	35.0	165.1	130.1	0.7	- 21.9	0.4	5.0	17.1
Aug.	25.2	19.2	- 7.9	5.9	5.7		3.9	26.6	30.5	- 16.2	- 15.5	- 0.4	- 7.3	7.0
Sep.	6.6	26.5	25.9	- 19.9	- 13.7		41.8	– 45.7	– 87.5	36.1	25.1	- 1.1	- 1.4	13.5
Oct.	43.7	63.3	- 9.2	- 19.6	- 25.7	_	17.3	16.2	- 1.1	- 11.5	- 1.9	- 1.8	- 19.8	12.1
Nov.	54.4	54.9	30.9	- 0.5	3.3		10.4	- 21.5	- 31.9	19.0	0.8	- 0.8	4.7	14.3
Dec.	– 118.6	- 79.8	- 25.2	- 38.8	- 20.6		21.8	- 299.1	- 277.3	- 7.9	7.1	- 1.4	- 6.1	- 7.6
2020 Jan.	101.8	51.7	1.7	50.2	28.0	_	24.6	295.6	271.0	- 5.4	- 6.2	- 1.0	13.1	- 11.2
Feb.	60.7	50.1	20.1	10.7	22.1		41.5	92.7	51.2	- 2.6	- 3.0	- 0.7	- 3.3	4.4
Mar.	322.7	180.6	– 21.1	142.1	127.8		5.8	101.6	107.4	- 32.8	1.2	- 1.0	- 42.9	9.9
Apr.	293.0	101.1	54.4	191.9	180.9	-	99.0	14.7	113.7	- 34.2	- 9.4	- 1.1	- 4.1	- 19.7
May	291.9	119.9	30.6	172.1	176.8		8.8	- 42.4	- 51.2	19.7	3.9	- 0.8	- 0.7	17.4
June	136.5	– 15.8	16.3	152.3	160.5		68.7	- 146.0	- 214.7	- 0.6	- 6.2	- 1.1	- 8.8	15.6
July	155.3	75.9	28.9	79.5	78.9	-	48.1	77.8	125.9	- 5.4	1.5	- 0.1	- 12.6	5.8
Aug.	84.6	25.9	17.3	58.7	66.7		17.3	- 2.7	- 20.1	13.5	9.6	- 0.4	- 11.5	15.8
Sep.	83.2	– 3.6	– 3.2	86.9	86.1		46.2	- 26.1	- 72.2	10.4	– 11.0	- 0.2	19.4	2.3
Oct.	71.0	31.4	- 5.4	39.6	33.6	-	21.5	91.5	112.9	- 16.8	- 4.2	- 0.4	- 29.5	17.3
Nov.	97.0	44.1	1.5	52.9	53.7	-	39.1	86.4	125.5	- 26.0	0.6	- 0.5	- 16.4	- 9.8

b) German contribution

	I. Lending to r		n-MFIs)			II. Net claims non-euro area				capital forma itutions (MFIs)			
		Enterprises and househo	olds	General government								Debt	
Period	Total	Total	of which: Securities	Total	of which: Securities	Total	Claims on non- euro area residents	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
2019 Apr.	7.6	12.7	- 0.5	- 5.1	- 6.1	19.2	14.8	- 4.5	- 6.6	- 2.7	0.2	- 4.0	0.0
May	19.3	19.8	0.5	- 0.5	1.4	11.8	2.4	- 9.3	9.1	- 1.7	0.6	7.5	2.6
June	25.7	26.4	4.3	- 0.7	1.2	– 8.0	10.3	18.3	11.5	1.5	0.6	2.4	7.1
July	9.5	7.8	0.0	1.6	- 0.8	42.6	6.3	- 36.4	0.8	- 2.2	- 0.3	- 1.1	4.4
Aug.	25.2	19.9	1.0	5.2	5.5	- 13.6	2.4	16.0	- 6.2	- 4.4	- 0.3	- 3.7	2.3
Sep.	5.7	11.8	- 0.8	– 6.1	- 1.3	- 2.8	– 24.3	- 21.5	4.3	- 0.7	- 0.6	0.0	5.6
Oct.	10.2	11.0	1.2	- 0.8	- 4.2	56.3	2.4	- 53.9	- 2.6	- 0.7	- 0.8	- 3.6	2.5
Nov.	25.3	20.4	5.2	4.9	3.9	- 23.5	- 17.6	5.9	3.0	- 1.9	- 0.9	1.6	4.2
Dec.	– 4.4	1.5	0.8	- 5.9	- 1.1	- 38.9	- 47.5	- 8.6	- 4.4	- 0.3	- 1.1	- 5.8	2.7
2020 Jan.	16.3	9.5	1.9	6.8	2.6	74.7	37.7	- 37.0	- 9.0	- 2.6	- 1.5	3.8	- 8.6
Feb.	24.5	25.4	4.3	- 0.9	1.2	- 4.3	14.1	18.4	- 4.6	- 1.2	- 0.6	4.8	- 7.6
Mar.	47.3	31.4	– 6.1	15.9	14.3	- 34.3	18.5	52.8	- 8.3	- 3.7	- 0.7	– 8.2	4.3
Apr.	33.0	16.0	1.3	16.9	14.8	- 28.8	8.9	37.6	- 23.8	- 5.1	- 0.8	- 2.1	- 15.8
May	58.3	27.1	10.0	31.2	32.7	11.7	- 22.1	- 33.8	2.3	- 1.5	- 0.4	- 1.2	5.4
June	26.4	2.6	3.5	23.7	25.9	- 45.6	- 20.9	24.7	- 7.9	- 7.1	- 1.0	- 7.9	8.1
July	25.9	13.8	0.3	12.2	10.3	9.4	- 9.7	- 19.1	- 3.0	- 6.9	- 0.6	1.2	3.3
Aug.	9.3	7.5	1.9	1.8	7.9	5.6	- 8.1	- 13.7	- 5.2	- 2.2	- 0.4	- 4.4	1.8
Sep.	22.6	4.6	1.3	18.1	15.8	– 34.8	22.9	57.8	10.4	- 3.4	- 0.4	5.1	9.1
Oct.	48.7	22.1	6.6	26.7	23.9	30.1	- 16.6	- 46.8	- 2.0	- 0.5	- 0.4	- 4.5	3.4
Nov.	43.9	19.5	4.5	24.3	26.0	- 15.6	7.0	22.6	0.6	- 1.6	- 0.4	0.3	2.3

^{*} 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" of the Statistical Series Banking Statistics). 1 Source: ECB. 2 Excluding MFIs' portfolios. 3 After

deduction of inter-MFI participations. **4** Including the counterparts 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. **8** Less German MFIs' holdings

II. Overall monetary survey in the euro area

a) Euro area 1

		V. Other fac	tors	VI. Money st	ock M3 (balan	ce I plus II less	s III less IV les	s V)							
ı					Money stock	M2							Debt s		
			of which: Intra-			Money stock	M1						ities w maturi	ties	
1	IV. De- posits of central gov- ernments	Total 4	Eurosystem liability/ claim related to banknote issue	Total	Total	Total	Currency in circu- lation	Overnight deposits 5	Deposits with an agreed maturity of up to 2 years 5	Deposits at agreed notice of up to 3 months 5,6	Repo transac- tions	Money market fund shares (net) 2,7,8	of up t 2 years (incl. m market paper) (net) 2,	s noney t	Period
	- 33.1 17.8 33.6	28.9 - 7.4 - 71.2	0.0 0.0 0.0	73.8 81.1 73.5	55.4 88.6 87.2	46.2 87.6 98.4	7.4 5.1 7.5	38.9 82.5 90.8	2.5 - 12.4 - 14.5	6.7 13.4 3.4	22.3 - 7.7 - 20.7	14.3 - 9.7 - 11.9	-	0.4 5.8 2.0	2019 Apr. May June
	- 13.0 6.3 5.8	47.0 - 81.9 42.9	0.0 0.0 0.0	50.0 113.1 – 36.5	31.1 110.1 – 18.4	25.7 86.1 – 1.0	9.0 1.3 3.3	16.7 84.7 – 4.3	1.4 19.1 – 15.6	4.0 4.9 – 1.8	17.9 4.7 – 17.9	21.1 18.0 – 13.9	- - -	5.2 13.5 0.4	July Aug. Sep.
	- 37.7 - 1.1 - 66.5	51.8 - 53.7 - 25.9	0.0 0.0 0.0	58.3 100.6 - 40.2	45.6 103.3 1.5	60.1 122.4 8.3	2.8 6.9 16.3	57.3 115.5 – 8.1	- 10.1 - 17.6 - 9.7	- 4.5 - 1.5 2.9	42.1 - 14.7 - 33.6	1.4 3.1 – 22.6	 - -	6.5 0.7 18.3	Oct. Nov. Dec.
	84.6 43.7 4.7	42.0 - 34.7 - 3.9	0.0 0.0 0.0	5.2 95.9 348.8	- 44.3 82.7 321.2	- 52.0 84.1 300.5	- 7.3 5.2 23.8	- 44.7 79.0 276.8	0.2 - 1.2 16.2	7.6 - 0.3 4.5	- 7.1 19.7 30.0	34.8 - 4.7 - 19.3		14.0 4.9 22.8	2020 Jan. Feb. Mar.
	72.1 100.9 123.4	- 17.3 - 38.0 - 0.1	0.0 0.0 0.0	173.4 218.0 82.5	174.9 226.3 78.9	175.2 189.5 88.5	20.4 20.1 13.1	154.8 169.5 75.4	- 15.0 16.8 - 20.5	14.7 19.9 10.9	- 4.6 9.6 - 42.7	24.0 0.1 14.4	- - -	16.9 9.1 5.5	Apr. May June
	- 4.6 40.5 20.2	- 65.9 29.5 10.7	0.0 0.0 0.0	183.1 18.5 88.1	149.3 35.5 82.3	123.4 45.0 63.6	14.3 5.9 3.5	109.1 39.1 60.1	20.1 - 18.6 16.7	5.8 9.1 1.9	18.1 - 4.8 - 29.5	29.9 - 0.1 8.2	- - -	11.0 4.1 3.3	July Aug. Sep.
	- 17.2 - 98.5	- 29.2 59.4	0.0 0.0	112.7 123.0	85.8 120.4	101.2 146.0	7.8 11.8	93.4 134.2	- 17.8 - 33.6	2.4 8.1	5.3 3.7	14.0 - 0.7	_	16.4 1.0	Oct. Nov.

b) German contribution

			V. Oth	er factor	s		VI. Money	stoc	k M3 (balance I	plus II less	III less	s IV less V) 1	0							
					of which:				Components o	f the mone	y stoc	:k								
1	IV. De- posits c central ernmer	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		maturities with maturities of up to 2 (incl. mon market paper)(net	years ey	Period
	-	15.2 19.0 3.7	 - -	33.9 20.1 7.7	3.9 4.0 3.0	2.1 0.8 2.1	2	4.7 3.0 0.3	17.9 23.8 10.3	- -	3.7 0.4 1.4	- -	0.0 0.3 0.4	-	1.1 1.3 1.7	- -	0.1 0.1 0.0	-	0.6 0.4 0.2	2019 Apr. May June
	-	27.1 10.7 9.9	- -	74.0 26.8 6.6	3.6 5.8 4.9	3.2 - 0.7 0.8	3	4.4 3.9 4.7	7.2 26.1 0.1	- -	3.3 5.7 4.8	- - -	0.6 1.2 0.7	-	1.0 3.1 1.1		0.1 0.0 0.1		0.1 0.3 1.7	July Aug. Sep.
	-	19.8 8.2 2.0	 - -	74.2 29.5 32.4	4.3 4.5 4.9	0.2 0.7 3.4	2	4.7 0.0 4.5	18.7 24.1 – 0.4	- - -	0.4 3.4 6.6	=	1.0 0.7 0.6	-	0.3 0.4 1.8	- - -	0.1 0.2 0.1	-	2.3 0.2 0.0	Oct. Nov. Dec.
	-	5.6 24.4 7.5	 - -	108.0 14.0 71.9	2.1 4.9 12.2	- 0.6 0.1 0.9	1	2.5 4.5 5.7	- 7.8 17.7 93.3	_	5.9 1.2 0.4	- - -	3.0 1.7 3.4	- - -	1.0 0.6 0.3	-	0.1 0.1 0.4	 - -	3.4 2.2 3.8	2020 Jan. Feb. Mar.
		17.9 28.6 57.8	 - -	8.6 9.3 69.3	3.2 0.3 – 0.4	4.3 5.3 4.7	4	1.5 8.4 0.1	9.9 43.4 9.9	- -	8.1 6.2 7.7	_	0.1 0.3 0.1	_ _	1.7 1.0 1.6	- - -	0.1 0.1 0.2	- - -	1.9 0.4 0.3	Apr. May June
		14.2 21.0 15.3	- - -	11.1 14.2 58.3	2.4 3.8 2.7	3.9 0.9 0.6	1	5.2 3.3 0.4	27.4 18.6 26.2	- -	8.6 4.9 5.2	-	1.1 0.2 0.1	_ _	1.3 0.4 0.4	-	0.2 0.3 0.2	- - -	0.8 0.3 0.2	July Aug. Sep.
	<u>-</u> -	20.0 12.7		70.5 3.5	2.4 1.3	1.7 3.0		0.3 6.9	30.6 44.8	-	0.1 14.3	-	0.0 0.2		0.2 7.6	_	0.6 0.3	- -	1.0 1.1	Oct. Nov.

of paper issued by euro area MFIs. **9** Including national banknotes still in circulation. **10** 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. **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).

- II. Overall monetary survey in the euro area
- 2. Consolidated balance sheet of monetary financial institutions (MFIs) *

		Assets									
		Lending to non-	-banks (non-MFIs	s) in the euro are	a						
			Enterprises and	households			General govern	ment			
										Claims	
End of	Total assets or	Total	Total	Lanns	Debt	Shares and other	Total	Loons	Debt securities 3	on non- euro area	Other
month	liabilities Euro area (Total (€ billion) 1	Total	Loans	securities 2	equities	Total	Loans	securities 3	residents	assets
2018 Oct.	27,077.1	18,151.7	13,555.3	11,266.2	1,510.9	778.1	4,596.4	1,002.6	3,593.8	5,667.4	3,258.0
Nov.	27,216.6	18,243.5	13,638.0	11,337.8	1,516.2	784.1	4,605.5	1,001.0	3,604.5	5,694.7	3,278.5
Dec.	26,990.0	18,173.2	13,568.7	11,295.5	1,502.0	771.2	4,604.5	1,002.8	3,601.8	5,557.1	3,259.8
2019 Jan.	27,392.5	18,309.1	13,637.4	11,345.0	1,517.2	775.3	4,671.7	1,015.9	3,655.8	5,770.3	3,313.0
Feb.	27,436.4	18,354.8	13,683.9	11,368.3	1,528.3	787.3	4,670.9	1,001.2	3,669.7	5,763.8	3,317.9
Mar.	27,733.7	18,397.2	13,735.5	11,413.7	1,526.2	795.7	4,661.7	1,001.4	3,660.3	5,841.6	3,494.9
Apr.	27,886.9	18,468.4	13,828.8	11,472.8	1,529.8	826.1	4,639.6	1,001.1	3,638.6	5,942.4	3,476.2
May	28,185.6	18,497.0	13,854.0	11,494.6	1,549.1	810.4	4,643.0	1,000.3	3,642.7	6,027.7	3,660.8
June	28,305.8	18,522.0	13,874.9	11,521.2	1,552.5	801.2	4,647.1	1,000.0	3,647.1	5,991.6	3,792.1
July	28,772.3	18,601.9	13,939.3	11,583.7	1,550.8	804.7	4,662.6	1,002.8	3,659.8	6,208.8	3,961.7
Aug.	29,374.0	18,658.9	13,961.4	11,612.7	1,549.4	799.3	4,697.5	1,003.1	3,694.4	6,311.5	4,403.7
Sep.	29,193.7	18,651.6	13,971.2	11,595.9	1,566.6	808.7	4,680.4	996.7	3,683.7	6,300.2	4,241.9
Oct.	28,966.1	18,689.3	14,042.6	11,660.4	1,550.6	831.5	4,646.8	1,002.5	3,644.3	6,259.5	4,017.3
Nov.	29,017.9	18,729.5	14,099.4	11,684.4	1,569.3	845.7	4,630.0	998.6	3,631.4	6,270.8	4,017.6
Dec.	28,327.9	18,591.5	14,008.6	11,617.0	1,543.9	847.7	4,582.9	981.0	3,601.9	5,930.8	3,805.6
2020 Jan.	29,020.9	18,722.5	14,062.6	11,668.8	1,542.9	850.9	4,659.8	1,003.4	3,656.5	6,302.2	3,996.2
Feb.	29,486.5	18,767.4	14,101.9	11,697.4	1,563.2	841.3	4,665.5	992.2	3,673.3	6,414.4	4,304.6
Mar.	30,019.3	19,013.6	14,239.5	11,885.0	1,557.4	797.2	4,774.1	1,006.7	3,767.4	6,486.4	4,519.3
Apr.	30,447.4	19,307.7	14,348.3	11,933.3	1,612.6	802.5	4,959.4	1,018.0	3,941.4	6,585.2	4,554.5
May	30,496.9	19,607.9	14,466.6	12,020.5	1,643.3	802.8	5,141.3	1,013.7	4,127.6	6,465.6	4,423.4
June	30,405.0	19,758.4	14,448.4	11,981.0	1,651.3	816.1	5,309.9	1,005.3	4,304.7	6,298.1	4,348.6
July	30,603.8	19,909.3	14,331.3	12,012.5	1,504.3	814.5	5,578.0	1,006.0	4,572.1	6,276.3	4,418.2
Aug.	30,431.8	19,982.4	14,352.5	12,018.1	1,523.4	811.0	5,629.9	997.8	4,632.1	6,242.3	4,207.1
Sep.	30,521.5	20,081.3	14,346.2	12,017.8	1,518.5	809.9	5,735.1	998.6	4,736.5	6,239.4	4,200.8
Oct.	30,689.4	20,159.4	14,373.2	12,054.0	1,517.9	801.3	5,786.2	1,004.3	4,781.9	6,342.7	4,187.2
Nov.	30,727.0		14,417.9	12,034.0	1,488.6			1,004.3	4,839.9	6,331.4	4,134.4
	German co	ontribution (€ billion)								
2018 Oct.	6,154.2	4,303.6	3,339.1	2,888.2	185.3	265.6	964.5	300.8	663.7	1,208.1	642.4
Nov.	6,177.4	4,323.4	3,356.8	2,905.6	188.1	263.0	966.7	299.8	666.9	1,202.7	651.3
Dec.	6,194.1	4,317.4	3,353.6	2,903.7	187.8	262.2	963.7	296.4	667.3	1,208.5	668.2
2019 Jan.	6,252.9	4,333.5	3,366.6	2,917.4	188.8	260.4	966.9	299.2	667.7	1,232.6	686.9
Feb.	6,243.9	4,343.3	3,382.0	2,932.6	189.2	260.2	961.3	296.6	664.7	1,221.0	679.6
Mar.	6,392.0	4,373.9	3,414.7	2,963.7	189.7	261.3	959.2	293.9	665.3	1,265.4	752.8
Apr.	6,408.7	4,379.3	3,427.3	2,976.4	189.1	261.9	951.9	294.8	657.1	1,278.2	751.2
May	6,524.8	4,402.6	3,446.8	2,995.6	190.0	261.1	955.8	293.1	662.8	1,284.5	837.7
June	6,619.8	4,431.8	3,473.1	3,017.0	194.4	261.7	958.6	291.2	667.5	1,294.2	893.7
July	6,698.2	4,445.3	3,481.1	3,024.8	194.0	262.3	964.2	293.7	670.5	1,312.3	940.7
Aug.	6,973.5	4,478.6	3,501.8	3,044.3	196.5	261.0	976.8	293.5	683.3	1,330.9	1,163.9
Sep.	6,872.6	4,462.9	3,497.0	3,040.4	196.0	260.5	965.9	288.3	677.6	1,311.9	1,097.8
Oct.	6,769.9	4,466.0	3,506.4	3,049.0	195.9	261.4	959.5	291.6	667.9	1,303.7	1,000.3
Nov.	6,785.4	4,490.1	3,527.4	3,064.8	199.7	262.9	962.6	292.6	670.0	1,289.6	1,005.8
Dec. 2020 Jan.	6,716.1 6,847.7	4,480.4 4,503.3	3,527.3 3,527.3 3,537.5	3,064.0 3,071.5	197.9 198.2	265.4 267.8	953.1 965.8	288.5 292.8	664.6 673.0	1,236.4 1,290.1	999.3
Feb.	7,028.5	4,531.0	3,562.2	3,092.6	203.2	266.4	968.8	290.8	678.0	1,306.1	1,191.4
Mar.	7,148.1	4,567.1	3,589.0	3,128.9	202.1	258.0	978.1	292.4	685.7	1,321.3	1,259.6
Apr.	7,258.0	4,605.2	3,606.5	3,143.8	206.5	256.1	998.7	294.8	703.9	1,346.6	1,306.2
May	7,230.4	4,666.4	3,640.1	3,167.2	215.9	257.1	1,026.2	293.8	732.5	1,326.0	1,238.1
June	7,225.3	4,692.6	3,641.6	3,164.7	220.4	256.6	1,051.0	291.5	759.6	1,304.2	1,228.5
July	7,267.6	4,718.8	3,634.9	3,175.5	202.7	256.7	1,083.9	293.4	790.5	1,282.9	1,265.8
Aug.	7,167.3	4,723.0	3,642.2	3,180.7	202.9	258.6	1,080.8	287.4	793.3	1,268.8	1,175.5
Sep.	7,236.4	4,749.2	3,647.1	3,184.0	204.9	258.1	1,102.1	289.7	812.4	1,293.8	1,193.4
Oct.	7,257.1	4,801.4	3,670.3	3,200.4	210.7	259.3	1,131.1	292.0	839.1	1,278.8	1,176.8
Nov.	7,240.5	4,841.7	3,688.6	3,213.7	214.3	260.6	1,153.1	290.2	862.9	1,261.9	1,136.9

^{*} 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 $^{\bullet}$). Excluding MFIs' cash in hand (in euro). The German contribution includes the volume of

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II. Overall monetary survey in the euro area

iabilities]
	Deposits of non-	banks (non-MFIs) i	n the euro area							
			Enterprises and h	ouseholds						
					With agreed maturities of			At agreed notice of 6		
Currency n irculation 4	Total	of which: in euro 5	Total	Overnight	up to 1 year	over 1 year and up to 2 years	over 2 years	up to 3 months	over 3 months	End of month
								Euro area	a (€ billion) ¹	
1,152.2	12,639.5	11,788.3	11,848.3	6,668.8	812.8	203.6	1,872.0	2,239.0	52.1	2018 O
1,157.5	12,719.4	11,861.8	11,912.4	6,750.6	801.6	200.7	1,866.9	2,241.2	51.3	N
1,175.4	12,713.3	11,926.3	11,989.2	6,797.9	801.0	200.7	1,888.7	2,249.5	51.5	2019 Ja
1,162.4	12,768.0	11,911.1	11,976.6	6,776.6	798.4	199.4	1,888.0	2,262.9	51.3	
1,165.6	12,833.0	11,959.7	12,005.4	6,805.1	795.7	196.8	1,887.9	2,268.8	51.2	F-
1,171.7	12,947.7	12,078.5	12,135.0	6,930.4	786.3	199.5	1,886.3	2,281.3	51.3	
1,179.1	12,958.0	12,120.9	12,180.6	6,969.3	788.9	201.8	1,880.4	2,288.5	51.5	Δ
1,184.2	13,059.3	12,198.6	12,257.0	7,048.4	776.2	201.4	1,876.7	2,302.3	52.1	Ν
1,191.7	13,181.6	12,288.1	12,335.7	7,121.7	762.8	198.3	1,894.2	2,305.5	53.2	J
1,200.7	13,178.8	12,300.1	12,350.5	7,146.8	767.8	198.9	1,873.6	2,309.7	53.7	J
1,202.0	13,283.3	12,388.8	12,438.4	7,226.5	782.5	201.0	1,860.5	2,314.5	53.4	A
1,205.4	13,298.4	12,383.2	12,446.2	7,221.7	769.3	200.8	1,886.9	2,314.4	53.0	S
1,208.2 1,215.1 1,231.5	13,292.6 13,388.9 13,311.3	12,422.5 12,520.7 12,508.3	12,487.1 12,572.4 12,583.4	7,283.5 7,386.6 7,391.8	758.8 741.1 738.5	201.3 200.6 200.2	1,883.1 1,885.1 1,892.6	2,311.1 2,310.4 2,314.1	49.4 48.6 46.2	N D
1,224.1 1,229.3 1,253.1	13,359.5 13,477.0 13,775.3	12,460.6 12,528.4 12,782.3	12,555.5 12,615.5 12,903.7	7,362.8 7,430.6 7,698.1	734.6 731.7 759.6	200.1 198.6 192.1	1,890.9 1,888.5 1,883.2	2,322.3 2,322.0 2,327.6	44.7 44.1 43.1	2020 J F
1,273.5	13,996.0	12,953.0	13,065.1	7,852.4	762.5	188.2	1,876.5	2,343.4	42.1	/
1,293.5	14,301.2	13,162.3	13,263.2	8,009.7	779.9	188.4	1,880.1	2,363.7	41.4	N
1,306.6	14,476.7	13,207.3	13,309.2	8,066.5	763.7	186.8	1,876.0	2,375.5	40.6	J
1,320.9	14,591.4	13,274.7	13,362.0	8,090.1	783.4	186.3	1,880.7	2,381.1	40.4	
1,326.8	14,666.7	13,302.7	13,389.6	8,117.1	767.8	184.4	1,890.4	2,390.0	40.0	Д
1,330.3	14,757.1	13,359.4	13,466.0	8,175.8	781.0	195.5	1,881.9	2,392.0	39.8	<u>9</u>
1,338.1 1,349.9	14,813.4 14,800.1	13,430.0 13,513.8	13,544.0 13,608.4	8,266.4 8,358.3	782.9 758.0	181.8 179.3	1,878.9 1,871.5	•	39.4 39.0	(N
							Germa	n contribution	on (€ billion)	
256.3 257.2 260.0	3,730.6 3,774.2 3,766.4	3,595.8 3,632.0 3,629.3	3,453.9 3,482.3 3,481.1	2,092.2 2,127.4 2,120.4	155.1 149.8 152.5	33.6 33.2 33.7	596.9 595.9 596.7	538.0 538.5 540.6	38.1 37.4 37.2	2018 C N
267.6 268.0 269.1	3,737.2 3,747.2 3,785.8	3,622.2 3,634.2 3,652.3	3,471.2 3,474.2 3,490.2	2,113.7 2,117.5 2,136.2	154.3 153.9 152.2	33.5 33.2 33.0	592.1 591.0 587.7	540.9 541.8 544.0	36.7 36.7 37.1	2019 J F
271.3	3,782.3	3,667.4	3,506.4	2,156.4	151.2	32.8	584.8	544.1	37.2	/
272.1	3,824.2	3,689.1	3,523.2	2,176.6	149.4	32.7	582.9	543.7	37.9	
274.2	3,837.7	3,697.8	3,528.6	2,183.2	147.8	32.3	583.5	543.3	38.4	
277.3	3,812.4	3,701.4	3,532.6	2,191.7	147.0	31.6	581.4	542.7	38.1	,
276.6	3,849.7	3,730.3	3,550.9	2,213.2	149.7	31.7	576.9	541.5	37.8	
277.4	3,853.5	3,722.1	3,546.0	2,213.9	146.4	31.5	576.1	540.8	37.2	
277.6	3,848.5	3,734.8	3,571.5	2,240.3	148.6	31.2	575.2	539.9	36.4	
278.4	3,874.7	3,753.7	3,580.0	2,257.7	143.0	30.8	573.7	539.2	35.6	
281.8	3,863.9	3,744.4	3,574.3	2,250.5	144.8	31.0	573.5	540.0	34.5	
281.2	3,850.4	3,733.8	3,572.3	2,255.2	145.3	31.0	570.6	537.2	33.0	2020 .
281.3	3,890.4	3,750.4	3,576.3	2,265.3	142.0	31.3	569.8	535.4	32.5	
282.2	3,982.8	3,830.4	3,655.2	2,346.4	147.3	30.5	567.2	532.0	31.8	
286.5	3,997.3	3,828.9	3,665.7	2,359.6	149.2	30.0	563.6	532.2	31.1	
291.8	4,080.7	3,885.8	3,710.9	2,396.9	158.3	29.0	563.6	532.5	30.7	
296.5	4,132.2	3,873.6	3,711.6	2,408.7	152.1	29.6	559.0	532.6	29.7	
300.4	4,170.7	3,880.3	3,716.8	2,409.9	163.5	30.0	552.8	531.5	29.2	
301.3	4,202.4	3,889.9	3,720.2	2,419.2	159.3	30.1	551.3	531.6	28.8	
301.9	4,235.6	3,905.7	3,745.0	2,445.3	160.3	30.3	549.2	531.5	28.4	
303.6 306.6	4,245.3	3,935.3	3,781.4	2,476.4 2,507.8	165.4	30.5 30.6	549.7 548.9	531.5 531.8	28.0 27.6	,

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.

- II. Overall monetary survey in the euro area
- 2. Consolidated balance sheet of monetary financial institutions (MFIs) * (cont'd)

	Liabilities (co	nt'd)											
	Deposits of n	non-banks (nor	n-MFIs) in the	euro area (con	ıt'd)								
	General gove	ernment							Repo transac			Debt securiti	es
		Other genera	l government						with non-bar in the euro a				
				With agreed	maturities of		At agreed no	tico of 2					
				with agreed	over		At agreed no	tice of 2		of which:	Money market		of which:
End of	Central govern-			up to	1 year and up to	over	up to	over		Enterprises and	fund shares		Denom- inated
month	ment	Total	Overnight	1 year	2 years	2 years	3 months	3 months	Total	households	(net) 3	Total	in euro
2018 Oct.	Euro area	a (€ billion 415.5)	84.0	32.3	55.7	25.8	4.5	237.4	236.9	511.5	2,165.4	1,474.6
Nov.	383.1	423.9	218.9	85.1	33.6	56.3	25.7	4.3	268.8	268.4	511.8	2,162.9	1,469.0
Dec.	322.5	401.6	203.7	78.7	34.2	56.9	23.8	4.3	254.5	254.2	513.3	2,158.0	1,471.8
2019 Jan.	389.2	402.2	196.8	86.0	34.9	55.8	24.2	4.5	270.1	269.6	524.5	2,176.2	1,484.6
Feb.	407.9	419.6	207.3	92.2	34.2	56.3	25.1	4.5	270.5	269.7	516.3	2,205.0	1,506.2
Mar.	386.0	426.7 424.6	212.1	92.6	35.4 34.5	56.7 56.9	25.5 25.3	4.4	272.7 295.0	272.3 294.6	520.2	2,185.7 2,174.9	1,489.6
Apr. May June	352.9 370.7 404.2	431.6 441.8	212.2 216.9 224.4	91.4 94.9 94.6	33.4 35.1	57.0 58.1	25.3 25.1 25.2	4.4 4.3 4.4	287.4 286.0	287.0 285.7	532.3 522.6 510.6	2,174.9 2,191.0 2,182.2	1,488.0 1,497.2 1,493.8
July	391.2	437.1	221.5	93.8	34.1	58.2	25.2	4.4	284.1	283.8	533.0	2,189.1	1,492.7
Aug.	397.4	447.4	228.3	97.2	34.1	58.3	25.3	4.3	289.0	288.5	550.9	2,173.6	1,484.1
Sep.	402.9	449.3	231.4	98.0	31.7	58.9	25.0	4.2	257.0	256.5	537.1	2,181.1	1,484.7
Oct.	365.0	440.5	224.5	95.5	32.3	59.1	25.2	3.9	298.8	298.3	538.6	2,174.6	1,488.4
Nov.	363.9	452.6	235.7	95.5	33.8	59.1	24.8	3.8	284.3	283.7	541.6	2,187.8	1,493.0
Dec.	297.5	430.4	224.7	85.9	33.7	59.1	23.6	3.6	250.3	249.8	520.3	2,153.8	1,486.7
2020 Jan.	381.8	422.3	209.6	92.7	33.2	59.5	23.2	4.1	243.4	242.9	555.1	2,187.7	1,500.2
Feb.	425.5	436.0	219.8	96.8	32.8	59.2	23.3	4.0	263.2	262.7	550.5	2,191.4	1,497.8
Mar.	430.2	441.4	232.8	93.3	31.0	58.2	22.3	3.9	293.2	292.6	530.9	2,175.2	1,484.3
Apr.	502.3	428.6	233.9	84.0	29.4	56.4	21.1	3.8	289.0	288.6	554.9	2,159.1	1,472.6
May	603.1	434.8	245.9	81.7	28.4	54.7	20.3	3.8	297.8	297.5	554.9	2,134.2	1,470.8
June	726.5	441.1	259.5	82.4	24.6	51.8	19.3	3.4	254.8	254.6	569.4	2,105.3	1,453.5
July	788.0	441.4	264.1	80.1	23.2	51.0	19.4	3.5	271.8	271.6	599.3	2,054.9	1,434.1
Aug.	828.6	448.5	273.6	79.5	22.1	50.3	19.6	3.5	266.9	266.7	599.9	2,036.4	1,424.9
Sep.	849.0	442.1	274.8	74.4	20.8	49.1	19.5	3.4	237.7	237.5	608.1	2,059.5	1,429.9
Oct.	831.8	437.6	277.4	69.5	20.8	47.0	19.5	3.4	243.1	242.9	622.2	2,047.1	1,418.1
Nov.	733.3	458.4	307.1	64.6	17.8	46.1	19.4	3.3	246.4	246.4	621.5	2,019.3	1,398.2
	German	contribution	on (€ billio	on)									
2018 Oct.	56.1	220.6	66.1	73.9	28.0	48.9	3.1	0.6	2.4	2.4	1.9	544.5	286.9
Nov.	65.7	226.3	69.4	74.8	28.7	49.7	3.1	0.7	1.3	1.3	2.2	544.9	290.3
Dec.	60.3	225.0	74.6	67.5	29.3	49.9	3.0	0.6	0.8	0.8	2.2	532.5	283.4
2019 Jan.	41.8	224.2	67.1	74.8	30.0	48.7	3.0	0.6	1.7	1.7	2.2	546.6	294.1
Feb.	38.8	234.3	71.8	80.3	29.3	49.1	3.1	0.6	2.0	2.0	2.2	560.4	302.9
Mar.	56.4	239.2	75.9	80.0	30.3	49.4	3.1	0.6	11.4	11.4	2.0	557.3	298.2
Apr.	41.2	234.7	73.6	78.4	29.4	49.6	3.1	0.6	12.5	12.5	1.9	552.8	293.5
May	60.3	240.7	77.4	81.7	28.3	49.6	3.2	0.5	11.2	11.2	2.0	560.1	300.1
June	64.0	245.1	80.4	81.5	29.0	50.6	3.1	0.5	12.9	12.9		558.0	301.8
July Aug.	36.9 47.6 57.3	242.9 251.2 250.3	79.6 84.7 84.6	80.7 83.8 85.0	28.2 28.1 25.8	50.8 50.9 51.1	3.1 3.2 3.1	0.5 0.5 0.5	13.9 16.9 1.5	13.9 16.7 1.3	2.0 2.0 2.2	559.4 557.3 563.5	296.9 295.0 297.7
Sep. Oct. Nov.	37.4 45.4	239.6 249.3	76.3 83.4	82.4 83.9	26.1 27.4	51.3 51.1	3.1 3.1 3.1	0.5 0.5	1.2 1.7	1.0 1.5	2.1 1.9	555.2 560.4	299.2 302.2
Dec.	43.4	246.2	89.5	75.4	27.0	51.0	2.9	0.4	3.5	3.4	1.8	551.4	301.6
2020 Jan.	37.8	240.2	77.8	81.4	26.6	51.3	2.7	0.4	2.5	2.4	1.8	560.9	306.5
Feb.	62.2	251.9	85.5	86.0	26.3	50.9	2.8	0.4	2.0	1.8	1.8	563.9	310.3
Mar.	69.7	257.9	97.6	82.5	24.7	49.8	2.8	0.4	1.7	1.6	2.2	553.0	310.7
Apr.	87.5	244.0	94.7	74.4	23.7	48.3	2.7	0.4	3.4	3.3	2.1	550.6	306.2
May	116.2	253.6	108.0	72.9	22.9	46.7	2.8	0.3	2.4	2.3	1.9	543.1	305.4
June	174.0	246.5	106.1	74.1	19.5	44.0	2.5	0.3	0.9	0.7	1.8	532.8	297.2
July	208.5	245.3	109.6	71.4	18.3	43.2	2.5	0.3	2.1	2.0	1.6	523.3	293.3
Aug.	229.5	252.8	118.7	71.3	17.4	42.4	2.6	0.3	1.7	1.5	1.9	517.9	291.1
Sep.	244.7	245.8	119.4	66.0	16.5	41.1	2.5	0.3	1.3	1.1	2.0	525.3	296.1
Oct.	224.8	239.1	119.1	61.7	16.6	39.0	2.5	0.3	1.4		2.7	519.9	296.2
Nov.	212.1		131.6				2.5	0.2	9.1	9.1			

^{*} 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 DEM banknotes still in circulation (see also footnote 4 on p. 109). **9** For the German contribution, the difference between the volume of euro banknotes

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II. Overall monetary survey in the euro area

								Memo item:]
issued (net) ³	3					Other liability	/ items		gregates 7 German contri rency in circula				
With maturit	ties of						of which: Intra- Eurosystem-					Monetary liabilities of central	
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	liability/ claim related to banknote issue 9	M1 10	M2 11	M3 12	Monetary capital forma- tion 13	govern- ments (Post Office, Treasury) 14	End of month
										Eu	ıro area (€	billion) 1	
39.6	23.7	2,102.1	4,704.7	2,709.2	- 14.4	2,971.7	0.0	8,160.1	11,581.4	12,226.4	6,795.6	149.7	2018 Oct.
38.9	21.7	2,102.3	4,659.6	2,711.2	6.6	3,018.8	0.0	8,256.6	11,668.3	12,313.3	6,792.3	153.3	Nov.
47.5	20.7	2,089.8	4,503.3	2,727.3	8.7	2,936.1	0.0	8,301.7	11,714.7	12,363.6	6,818.5	149.8	Dec.
36.3	23.9	2,116.1	4,696.6	2,752.7	10.8	3,031.2	0.0	8,262.9	11,693.2	12,349.0	6,868.4	151.7	2019 Jan.
33.2	26.1	2,145.8	4,661.2	2,740.4	15.1	3,029.3	0.0	8,303.9	11,741.1	12,389.0	6,886.1	150.4	Feb.
16.0	22.5	2,147.2	4,647.4	2,766.7	23.2	3,198.4	0.0	8,441.7	11,886.7	12,519.2	6,912.6	151.9	Mar
17.0	21.4	2,136.5	4,770.1	2,760.9	14.1	3,202.5	0.0	8,487.7	11,942.4	12,591.3	6,890.6	151.5	Apr.
23.4	22.1	2,145.4	4,776.2	2,774.6	26.3	3,364.1	0.0	8,575.0	12,032.4	12,675.1	6,910.1	149.7	May
20.0	21.6	2,140.6	4,640.6	2,830.3	33.6	3,469.1	0.0	8,669.1	12,114.5	12,741.2	6,980.7	155.2	June
16.1	21.3	2,151.6	4,796.8	2,878.9	25.7	3,685.3	0.0	8,697.8	12,150.2	12,798.2	7,020.3	151.7	July
2.7	20.7	2,150.1	4,854.7	2,940.4	- 2.9	4,083.0	0.0	8,786.7	12,264.2	12,915.0	7,066.9	152.7	Aug
3.2	19.0	2,158.9	4,803.5	2,942.8	25.4	3,943.1	0.0	8,788.8	12,251.2	12,883.4	7,104.7	153.4	Sep.
7.5	19.8	2,147.2	4,768.1	2,935.0	34.3	3,716.0	0.0	8,846.0	12,293.3	12,936.6	7,077.6	152.9	Oct.
6.8	19.5	2,161.5	4,770.3	2,922.8	31.2	3,675.9	0.0	8,971.7	12,401.5	13,041.9	7,080.9	157.9	Nov.
– 11.3	19.2	2,145.9	4,452.2	2,913.5	25.1	3,469.9	0.0	8,975.4	12,395.9	12,995.5	7,060.8	152.0	Dec.
- 0.4	21.9	2,166.2	4,759.3	2,950.9	24.4	3,716.4	0.0	8,927.4	12,357.6	13,006.6	7,116.2	154.9	2020 Jan.
3.6	23.4	2,164.4	4,817.2	2,967.8	26.5	3,963.5	0.0	9,012.7	12,442.0	13,104.7	7,128.0	156.9	Feb.
29.9	21.7	2,123.7	4,908.2	2,930.7	11.7	4,140.9	0.0	9,312.6	12,762.2	13,454.2	7,042.8	152.5	Mar.
12.8 3.8 - 0.1	21.5 22.3 21.1	2,124.8 2,108.1 2,084.4	5,048.8 4,946.7 4,711.9	2,947.0 2,952.7 2,977.9	- 25.6 - 33.2 - 4.4	4,204.8 4,049.0 4,006.7 4,066.3	0.0 0.0 0.0	9,490.6 9,682.0 9,768.9	12,941.3 13,166.3 13,243.0	13,631.9 13,848.7 13,929.0 14,024.9	7,050.6 7,040.8 7,034.2	153.0 154.7 158.0	Apr. May June
- 12.1 - 15.4 - 14.6 - 1.2	20.2 19.2 15.8 18.4	2,046.8 2,032.5 2,058.3 2,029.9	4,734.4 4,700.6 4,656.8 4,778.4	3,017.8 3,015.2 3,011.7 3,038.7	- 53.1 - 39.0 - 16.5 - 48.1	3,858.3 3,876.9 3,856.6	0.0 0.0 0.0 0.0	9,812.9 9,856.0 9,923.4 10,025.7	13,308.0 13,340.6 13,428.0 13,516.3	14,024.9 14,040.9 14,135.2 14,250.1	7,040.3 7,031.9 7,044.3 7,037.3	159.4 160.0 163.9 165.3	July Aug Sep. Oct.
- 1.2 - 3.7	19.7	2,029.9	4,778.4 4,859.2	2,984.1	- 48.1 - 43.7	3,890.0	0.0	10,025.7	13,629.3		6,947.4	172.4	Nov.
20.2	11.0	513.2	952.8	676.1	- 1,031.2	1,277.1	394.6	2,158.3	2,990.0	3,025.5	1,873.8	0.0	2018 Oct.
19.4	10.3	515.2	932.7	675.8	- 1,041.8	1,288.0	397.1	2,196.8	3,024.9	3,058.2	1,874.7	0.0	Nov.
17.7	10.1	504.6	967.9	689.9	- 1,063.4	1,297.9	401.1	2,195.0	3,021.7	3,052.5	1,879.0	0.0	Dec.
18.2	9.6	518.7	920.7	690.0	- 971.6	1,326.1	391.5	2,180.7	3,017.3	3,049.1	1,886.9	0.0	2019 Jan.
19.1	8.2	533.2	882.8	684.4	- 966.0	1,330.9	394.4	2,189.4	3,030.9	3,062.3	1,895.1	0.0	Feb.
19.2	8.3	529.8	958.7	695.9	- 1,031.3	1,412.2	396.9	2,212.1	3,054.7	3,095.5	1,900.4	0.0	Mar.
18.6	8.2	525.9	953.9	692.7	- 985.8	1,398.5	400.8	2,230.0	3,069.0	3,110.2	1,890.7	0.0	Apr.
18.9	8.4	532.9	944.9	702.5	- 1,016.3	1,496.1	404.8	2,254.0	3,093.0	3,133.5	1,906.3	0.0	May
19.7	7.6	530.7	957.2	722.3	- 1,013.1	1,542.9	407.8	2,263.6	3,100.7	3,142.8	1,926.0	0.0	June
19.7	7.9	531.9	925.0	735.6	- 950.3	1,600.3	411.4	2,271.3	3,104.7	3,148.2	1,938.3	0.0	July
20.3	7.6	529.4	944.3	757.0	- 980.7	1,826.9	417.2	2,297.9	3,135.9	3,182.8	1,952.6	0.0	Aug
22.3	7.4	533.8	927.2	755.6	- 992.1	1,761.2	422.1	2,298.5	3,131.2	3,164.7	1,954.3	0.0	Sep.
20.7	6.7	527.8	867.4	750.0	- 918.5	1,664.0	426.3	2,316.5	3,147.7	3,178.4	1,941.3	0.0	Oct.
21.4	5.8	533.1	877.7	749.1	- 951.9	1,671.9	430.8	2,341.2	3,168.5	3,199.3	1,943.1	0.0	Nov.
21.0	6.1	524.3	863.5	750.1	- 999.8	1,681.4	435.8	2,340.1	3,161.1	3,193.6	1,933.9	0.0	Dec.
23.9	6.7	530.2	831.0	757.2	- 900.5	1,744.6	437.9	2,333.0	3,157.1	3,192.1	1,942.8	0.0	2020 Jan.
21.7	6.8	535.4	850.2	764.8	- 912.0	1,867.4	442.7	2,350.9	3,174.6	3,207.0	1,953.8	0.0	Feb.
18.4	6.3	528.3	901.4	757.6	- 990.7	1,940.1	455.0	2,444.0	3,263.9	3,292.5	1,935.1	0.0	Mar.
15.9	6.9	527.8	942.0	759.1	- 1,003.6	2,007.1	458.2	2,454.3	3,266.4	3,294.7	1,930.3	0.0	Apr.
14.9	7.3	520.8	917.3	756.1	- 1,003.8	1,932.8	458.5	2,505.0	3,323.2	3,349.8	1,918.3	0.0	May
14.8	7.1	510.9	939.7	769.1	- 1,074.1	1,923.1	458.1	2,514.8	3,325.2	3,349.7	1,913.0	0.0	June
12.8 12.0 12.4	6.7 7.2 6.7	503.7 498.7 506.2	907.0 891.2 952.4	778.4 787.3	- 1,089.1 - 1,114.7 - 1,172.8	1,967.5 1,888.5 1,905.3	460.5 464.3 467.0	2,519.5 2,537.9 2,564.6	3,336.8 3,350.2 3,371.8	3,360.1 3,372.9 3,394.2	1,913.6 1,899.9 1,912.5	0.0 0.0 0.0	July Aug Sep.
11.1	7.0	501.8	906.4	794.7	- 1,107.6	1,894.1	469.4	2,595.4	3,403.6	3,425.7	1,913.5	0.0	Oct.
9.8	7.0	498.5	923.5	780.2	- 1,109.5	1,859.4	470.7	2,639.3	3,433.2	3,461.5	1,893.5	0.0	Nov.

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 two years and at agreed

notice of up to three 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 two years. **13** Deposits with agreed maturities of over two years and at agreed notice of over three months, debt securities with maturities of over two 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

	€ billion; perio	od averages of	daily positions									
	Liquidity-prov	iding factors				Liquidity-abs	orbing factors					
		Monetary pol	icy operations	of the Eurosys	stem							
Reserve maintenance period ending in 1	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	Credit institutions' current account balances (including minimum reserves) 7	Base money 8
enamy in	Eurosyst	em 2										
2019 Apr. May	678.6	5.7	720.3	0.1	2,635.9	619.6	0.0	1,215.8	270.5	555.6	1,379.0	3,214.4
June	689.7	5.5	718.6	0.4	2,630.6	601.9	0.0	1,228.2	248.2	561.9	1,404.6	3,234.7
July Aug.	710.3	4.6	700.1	0.0	2,620.4	570.8	0.0	1,240.8	295.9	592.2	1,335.7	3,147.4
Sep.	720.2	3.0	692.5	0.0	2,612.4	555.7	0.0	1,251.1	268.5	621.2	1,331.5	3,138.3
Oct. Nov.	758.5	2.0	668.5	0.0	2,608.7	456.6	0.0	1,252.7	298.6	641.3	1,388.5	3,097.8
Dec.	773.3	1.8	663.7	0.0	2,618.8	257.9	0.0	1,262.9	226.6	648.1	1,662.1	3,182.9
2020 Jan. Feb.	768.6	2.9	616.1	0.0	2,639.1	254.6	0.0	1,282.2	211.8	654.3	1,623.7	3,160.6
Mar.	767.1	1.4	615.9	0.0	2,666.7	244.6	0.0	1,277.1	268.6	618.4	1,642.3	3,164.1
Apr. May June	926.3 950.4	0.6 0.3	865.7 984.2	0.0 0.0	2,784.2 2,986.9	271.8 299.9	0.0 0.0	1,321.9 1,347.9	374.4 477.1	788.6 830.5	1,820.2 1,966.5	3,413.8 3,614.4
July	871.3	0.8	1,401.5	0.0	3,168.2	356.0	0.0	1,365.7	671.2	703.1	2,345.9	4,067.5
Aug. Sep.	865.9	1.3	1,593.2	0.0	3,323.6	413.2	0.0	1,381.2	712.9	651.0	2,625.7	4,420.1
Oct. Nov. Dec.	864.4 865.1	1.3 0.5	1,707.8 1,754.4	0.0 0.0	3,475.8 3,614.7	460.7 535.4	0.0	1,389.1 1,403.9	749.0 647.0	653.5 687.7	2,797.0 2,960.7	4,646.8 4,900.0
	Deutsche	e Bundesb	ank									
2019 Apr. May	160.8	0.6	86.7	0.0	563.7	172.5	0.0	296.1	61.2	– 199.4	481.6	950.1
June	163.6	0.6	86.1	0.0	565.2	166.3	0.0	299.6	58.0	- 213.6	505.3	971.1
July Aug.	169.4	0.7	85.3	0.0	563.1	150.1	0.0	303.0	65.7	- 175.0	474.5	927.7
Sep.	172.5	0.5	84.9	0.0	562.7	150.1	0.0	305.6	57.6	- 157.6	464.9	920.6
Oct. Nov.	182.8	0.4	82.8	0.0	560.0	151.5	0.0	306.5	70.8	- 159.4	456.6	914.7
Dec.	186.9	0.4	82.4	0.0	566.1	82.2	0.0	307.6	55.9	- 135.3	525.4	915.3
2020 Jan. Feb.	186.0	0.9	74.0	0.0	567.9	73.6	0.0	311.7	52.7	- 95.7	486.5	871.8
Mar.	185.0	0.4	74.0	0.0	573.7	65.4	0.0	311.2	64.4	– 125.0	517.1	893.7
Apr. May	238.0	0.2	106.8	0.0	585.3	76.3	0.0	324.1	102.0	- 174.5	602.8	1,003.2
June	248.7	0.1	122.5	0.0	623.1	85.0	0.0	326.4	137.6	- 172.6	618.1	1,029.5
July Aug.	222.1	0.5	235.2	0.0	655.9	108.2	0.0	331.5	205.0	- 238.1	707.1	1,146.8
Sep.	212.1	0.8	284.0	0.0	692.0	136.0	0.0	336.4	239.6	- 298.0	774.8	1,247.3
Oct. Nov. Dec.	212.1 213.0	0.7 0.3	319.5 333.9	0.0 0.0	729.0 768.7	145.5 166.6	0.0 0.0	338.1 341.2	254.7 217.9	- 302.9 - 294.5	826.0 884.7	1,309.6 1,392.5

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 asset purchase programmes. 4 From August 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 national central banks of the Eurosystem and which are still in circulation. In accordance with the accounting procedure chosen by the Eurosystem for the issue of euro banknotes, a share of 8% of the total value of the euro banknotes in circulation is

II. Overall monetary survey in the euro area

Flows

Liq	uidit	ty-prov	viding fac	tors							Liquidity-ab	sorbing fa	actors									
			Moneta	ary po	licy oper	ations	of the E	urosys	stem]								
in g	t ass gold d for rrenc	eign	Main refinan operati	cing	Longer term refinar operat	r- ncing	Margin lending facility	al	Other liquidity providii operati	ng	Deposit facility	Other liquidity absorbii operatio	ng	Bankno in circulat		Central government deposits	Other factors (net) 6	Credit instituti current accoun balance (includi minimu reserve	t es ng im s) 7	Base money		Reserve maintenance period ending in 1
																			Eui	Osyste	2111 2	
	+	13.1	-	0.3	-	2.8	±	0.0	-	9.9	- 18.0	±	0.0	+	6.6	+ 13.2	- 15.8	+	14.2	+	2.7	2019 Apr. May
	+	11.1	-	0.2	-	1.7	+	0.3	-	5.3	- 17.7	±	0.0	+	12.4	- 22.3	+ 6.3	+	25.6	+	20.3	June
	+	20.6	-	0.9	-	18.5	-	0.4	-	10.2	- 31.1	±	0.0	+	12.6	+ 47.7	+ 30.3	-	68.9	-	87.3	July Aug.
	+	9.9	-	1.6	-	7.6	±	0.0	-	8.0	- 15.1	±	0.0	+	10.3	- 27.4	+ 29.0	-	4.2	-	9.1	Sep.
	+	38.3	-	1.0	-	24.0	±	0.0	-	3.7	- 99.1	±	0.0	+	1.6	+ 30.1	+ 20.1	+	57.0	-	40.5	Oct. Nov.
	+	14.8	-	0.2	-	4.8	±	0.0	+	10.1	-198.7	±	0.0	+	10.2	- 72.0	+ 6.8	+	273.6	+	85.1	Dec.
	-	4.7	+	1.1	-	47.6	±	0.0	+	20.3	- 3.3	±	0.0	+	19.3	– 14.8	+ 6.2	-	38.4	-	22.3	2020 Jan. Feb.
	-	1.5	-	1.5	-	0.2	±	0.0	+	27.6	- 10.0	±	0.0	-	5.1	+ 56.8	- 35.9	+	18.6	+	3.5	Mar.
	+	159.2 24.1	-	0.8 0.3		249.8 118.5		0.0 0.0	+ +	117.5 202.7	+ 27.2 + 28.1	± ±	0.0 0.0	+	44.8 26.0	+ 105.8 + 102.7	+170.2 + 41.9	+ +	177.9 146.3	+ +	249.7 200.6	Apr. May June
	_	79.1	+	0.5	+	417.3	±	0.0	+	181.3	+ 56.1	±	0.0	+	17.8	+ 194.1	-127.4	+	379.4	+	453.1	July
	-	5.4	+	0.5	+	191.7	±	0.0	+	155.4	+ 57.2	±	0.0	+	15.5	+ 41.7	- 52.1	+	279.8	+	352.6	Aug. Sep.
	-+	1.5 0.7	_	0.0 0.8		114.6 46.6	_	0.0 0.0	+ +	152.2 138.9	+ 47.5 + 74.7	_	0.0 0.0	+ +	7.9 14.8	+ 36.1 - 102.0	+ 2.5 + 34.2	+ +	171.3 163.7	+ +	226.7 253.2	Oct. Nov. Dec.
																	D	eutscl	he Bu	ndesb	ank	
	+	2.6	-	0.0	-	0.9	+	0.0	-	5.8	+ 9.1	±	0.0	+	1.8	+ 12.0	- 42.5	+	15.6	+	26.5	2019 Apr.
	+	2.8	+	0.0	-	0.6	-	0.0	+	1.4	- 6.2	±	0.0	+	3.5	- 3.2	- 14.2	+	23.7	+	21.0	May June
	+	5.7	+	0.0	-	0.9	+	0.0	-	2.1	- 16.2	±	0.0	+	3.5	+ 7.6	+ 38.6	-	30.7	-	43.5	July Aug.
	+	3.2	-	0.2	-	0.4	-	0.0	-	0.4	+ 0.0	±	0.0	+	2.5	- 8.1	+ 17.4	-	9.6	-	7.1	Sep.
	+	10.3	-	0.1	-	2.1	+	0.0	-	2.7	+ 1.4	±	0.0	+	1.0	+ 13.2	- 1.8	-	8.3	-	5.9	Oct. Nov.
	+	4.1	+	0.0	-	0.4	+	0.0	+	6.1	- 69.3	±	0.0	+	1.1	- 14.9	+ 24.1	+	68.8	+	0.6	Dec.
	-	0.9	+	0.4	-	8.5	+	0.0	+	1.8	- 8.6	±	0.0	+	4.1	- 3.2	+ 39.6	-	38.9	-	43.5	2020 Jan. Feb.
	-	1.0	-	0.5	+	0.0	-	0.0	+	5.8	- 8.2	±	0.0	-	0.5	+ 11.7	- 29.3	+	30.7	+	21.9	Mar.
	+	53.0	_	0.2	+	32.9	_	0.0	+	11.6	+ 10.9	±	0.0	+	12.9	+ 37.6	- 49.6	+	85.6	+	109.5	Apr. May
	+	10.7	-	0.1	+	15.7	+	0.0	+	37.8		±	0.0	+	2.3	+ 35.6	+ 2.0	+	15.3	+	26.3	June
	-	26.6	+	0.4	+	112.6	-	0.0	+	32.8	+ 23.2	±	0.0	+	5.1	+ 67.5	- 65.5	+	89.0	+	117.3	July Aug.
	-	10.0	+	0.3	+	48.9	+	0.0	+	36.1	+ 27.9	±	0.0	+	5.0	+ 34.6	- 59.9	+	67.6	+	100.5	Sep.
	+	0.0 0.9		0.1 0.4		35.5 14.4		0.0 0.0	+ +	37.0 39.8			0.0 0.0		1.7 3.1	1			51.2 58.7	+ +	62.3 82.9	Oct. Nov. Dec.

allocated to the ECB on a monthly basis. 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 share of the euro banknotes issued corresponding 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 balances".

III.Consolidated financial statement of the Eurosystem

1. Assets *

€ billion

	€ DIIIION								
			Claims on non-eur	o area residents der	nominated		Claims on non-euro a		
			in roreign carreins				residents denominat	La in care	
As at reporting date	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 ¹								
2020 June 12	5,630.3	509.8	362.2	85.0	277.1	86.1	13.1	13.1	-
19	5,636.4	509.8	361.3	85.1	276.2	63.8	12.6	12.6	-
26	6,236.1	509.8	361.0	85.1	276.0	50.7	13.3	13.3	-
July 3	6,289.0	548.8	358.0	84.3	273.7	37.5	13.3	13.3	-
10	6,309.2	548.8	356.9	84.3	272.6	35.7	13.6	13.6	-
17	6,322.6	548.8	356.3	84.3	272.0	35.4	13.3	13.3	-
24	6,351.4	548.7	357.1	84.3	272.8	32.9	12.9	12.9	-
31	6,360.8	548.7	357.0	85.9	271.1	32.4	13.6	13.6	-
Aug. 7	6,385.3	548.7	357.1	85.8	271.3	29.9	12.7	12.7	-
14	6,404.7	548.7	357.1	85.8	271.3	29.7	12.8	12.8	-
21	6,424.0	548.7	357.9	85.8	272.0	28.5	12.7	12.7	-
28	6,440.2	548.8	358.6	85.8	272.8	27.8	11.5	11.5	-
Sep. 4	6,458.9	548.8	359.5	85.8	273.7	27.5	13.8	13.8	-
11	6,474.6	548.8	359.3	85.8	273.5	25.5	12.0	12.0	-
18	6,502.4	548.8	360.4	85.8	274.6	24.1	11.7	11.7	-
25	6,534.8	548.8	360.5	86.6	273.9	24.6	12.5	12.5	-
Oct. 2 9 16 23 30	6,705.1 6,725.7 6,743.5 6,781.8 6,775.8	559.3 559.3 559.3 559.3 559.3	351.3 350.8 351.8 352.6 353.4	84.7 84.7 84.7 84.8 84.9	266.6 266.0 267.1 267.8 268.6	22.2 23.0 21.1 20.9 20.2	12.4 12.6 13.0 12.1 11.9	12.4 12.6 13.0 12.1 11.9	- - - -
Nov. 6 13 20 27	6,773.8 6,796.9 6,833.5 6,867.8 6,883.4	559.3 559.3 559.3 559.3	353.4 353.1 352.7 352.6 351.5	84.8 84.8 84.8 84.8	268.2 267.8 267.8 266.7	20.8 20.4 20.4 21.2	12.3 13.1 13.1 13.2	12.3 13.1 13.1 13.2	- - - -
Dec. 4	6,923.1	559.3	353.4	86.2	267.2	22.0	12.8	12.8	-
11	6,949.6	559.3	353.3	86.2	267.1	22.3	12.8	12.8	-
18	7,008.9	559.3	354.7	86.2	268.4	25.2	12.2	12.2	-
25	7,014.7	559.3	356.7	87.1	269.7	24.5	13.0	13.0	-
2021 Jan. 1	6,979.3	536.5	347.2	85.4	261.8	23.4	14.3	14.3	-
	Deutsche Bu	ndesbank							
2020 June 12	2,003.6	158.6	56.1	21.7	34.4	32.4	0.9	0.9	-
19	2,047.0	158.6	55.4	21.7	33.7	23.7	0.4	0.4	-
26	2,197.3	158.6	55.3	21.7	33.6	19.1	1.3	1.3	-
July 3	2,215.8	170.7	54.9	21.6	33.3	9.3	1.3	1.3	-
10	2,199.9	170.7	55.1	21.6	33.5	7.8	1.1	1.1	-
17	2,230.8	170.7	54.7	21.6	33.1	6.5	1.3	1.3	-
24	2,217.8	170.7	54.7	21.6	33.2	5.1	1.0	1.0	-
31	2,257.3	170.7	54.8	22.3	32.5	3.8	1.7	1.7	-
Aug. 7	2,271.2	170.7	54.7	22.3	32.4	1.6	1.0	1.0	-
14	2,277.4	170.7	54.3	22.3	32.1	1.2	1.2	1.2	-
21	2,274.8	170.7	54.7	22.3	32.4	1.1	1.3	1.3	-
28	2,293.3	170.7	54.5	22.3	32.3	1.0	0.4	0.4	-
Sep. 4	2,306.2	170.7	54.1	22.3	31.8	0.9	2.5	2.5	-
11	2,299.5	170.7	54.0	22.3	31.7	0.7	0.5	0.5	-
18	2,310.9	170.7	54.0	22.3	31.7	0.5	0.2	0.2	-
25	2,325.1	170.7	54.1	22.4	31.7	0.5	0.5	0.5	-
Oct. 2 9 16 23 30	2,383.8 2,379.0 2,382.2 2,401.0 2,394.5	174.0 174.0 174.0 174.0 174.0	53.2 53.1 53.3 53.4 53.3	21.9 21.9 21.9 21.9 21.9	31.2 31.2 31.4 31.5 31.4	0.1 0.1 0.1 0.1 0.1	1.2 1.4 1.7 0.8 0.8	1.2 1.4 1.7 0.8 0.8	- - - -
Nov. 6	2,373.1	174.0	53.3	21.9	31.4	0.1	1.3	1.3	-
13	2,406.2	174.0	53.2	21.9	31.3	0.1	1.9	1.9	-
20	2,409.1	174.0	53.6	21.9	31.7	0.1	1.7	1.7	-
27	2,450.9	174.0	53.4	21.9	31.5	0.1	1.4	1.4	-
Dec. 4	2,465.1	174.0	54.2	22.6	31.6	0.1	1.7	1.7	-
11	2,451.1	174.0	54.0	22.6	31.4	0.2	1.5	1.5	-
18	2,458.9	174.0	53.9	22.6	31.3	0.5	0.8	0.8	-
25	2,485.2	174.0	54.0	22.6	31.4	0.5	0.4	0.4	-
2021 Jan. 1	2,536.2	174.0	54.0	22.6	31.4	0.5	1.5	1.5	-

^{*} 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 end of the quarter. ${\bf 1}$ Source: ECB.

Lending to e denominated		lit institutions	related to mo	onetary policy	operations			Securities of e	euro area reside	nts				
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	As at reporting date	
											Euro	osystem ¹		
1,026.2 1,026.3 1,590.1	0.4 0.5 0.7	1,025.8 1,025.8 1,589.4	- -	=	0.0 0.0 0.0	_ 	30.7 34.9 39.3	3,297.9 3,325.9 3,365.1	3,094.9 3,123.2 3,162.5	203.0 202.7 202.7	23.3 23.3 23.3	280.9 278.6 283.4	2020 June	12 19 26
1,590.8 1,590.5 1,590.5 1,590.6 1,590.0	1.4 1.1 1.0 1.1	1,589.4 1,589.4 1,589.4 1,589.4 1,588.9	- - - -	- - - -	- 0.0 0.0 -	- - - -	37.3 33.3 33.1 37.7 34.0	3,391.9 3,416.2 3,435.2 3,462.8 3,477.5	3,188.4 3,213.5 3,232.5 3,259.7 3,274.7	203.5 202.8 202.7 203.2 202.8	22.8 22.8 22.8 22.8 22.8	288.7 291.3 287.3 285.9 284.7	July	3 10 17 24 31
1,595.5 1,595.6 1,595.9 1,595.9	1.0 1.0 1.3 1.6	1,594.6 1,594.6 1,594.6 1,594.3	- - -	- - -	- - 0.0	- - - -	34.9 32.0 33.3 32.0	3,499.3 3,518.1 3,537.7 3,554.3	3,296.2 3,316.1 3,335.3 3,351.2	203.2 202.1 202.4 203.1	22.8 22.8 22.8 22.8	284.3 287.8 286.6 288.5	Aug	J. 7 14 21 28
1,596.6 1,596.7 1,596.7 1,596.9	1.6 1.7 1.7 1.9	1,595.0 1,595.0 1,595.0 1,595.0	- - - -	- - -	0.0 - - -	- - - -	35.2 35.7 37.5 36.7	3,567.9 3,589.3 3,613.8 3,643.3	3,366.2 3,388.2 3,413.0 3,442.5	201.8 201.1 200.8 200.8	22.8 22.8 22.8 22.8	286.7 284.4 286.7 288.7	Sep.	. 4 11 18 25
1,753.3 1,754.3 1,754.1 1,754.1 1,754.1	1.2 1.2 1.0 1.0 1.0	1,752.1 1,753.1 1,753.1 1,753.1 1,753.1	- - - - -	- - - - -	- - 0.0 0.0	- - - - -	34.6 29.2 33.2 35.7 26.0	3,654.3 3,678.4 3,693.6 3,717.5 3,723.9	3,454.5 3,478.6 3,494.9 3,519.1 3,529.9	199.8 199.7 198.7 198.3 194.0	22.7 22.7 22.7 22.7 22.7	294.9 295.6 294.7 306.8 304.0	Oct.	. 2 9 16 23 30
1,754.7 1,754.4 1,754.3 1,754.5	0.9 0.6 0.5 0.6	1,753.8 1,753.8 1,753.8 1,753.9	- - - -	- - -	0.0 - - -	- - - -	36.6 40.0 42.1 41.6	3,738.7 3,769.3 3,801.0 3,816.6	3,546.2 3,576.0 3,607.8 3,622.5	192.6 193.2 193.2 194.1	22.7 22.7 22.7 22.7	298.7 301.6 302.2 303.0	Nov	7. 6 13 20 27
1,756.0 1,756.0 1,792.9 1,792.8	0.3 0.2 0.3 0.3	1,755.7 1,755.7 1,792.6 1,792.6	- - - -	- - -	0.0 - 0.0 0.0	- - - -	41.8 38.4 36.7 31.9	3,848.8 3,875.5 3,895.6 3,900.9	3,654.4 3,681.1 3,700.0 3,704.9	194.4 194.5 195.6 196.0	22.7 22.7 22.7 22.7	306.4 309.3 309.6 312.8	Dec	4 11 18 25
1,793.2	0.5	1,792.6	-	-	0.2	-	25.3	3,890.9	3,694.6	196.3	22.7	325.7	2021 Jan.	. 1
										De	utsche Bu	ndesbank		
138.3 138.2 284.0	0.3 0.1 0.2	138.0 138.0 283.8	- - -	-	0.0 0.0 0.0	- -	6.6 6.8 5.9	641.8 647.1 655.0	641.8 647.1 655.0	- - -	4.4 4.4 4.4	964.4 1,012.4 1,013.7	2020 June	12 19 26
284.8 284.6 284.5 284.7 284.7	1.0 0.8 0.7 1.0 0.9	283.8 283.8 283.8 283.8 283.8	- - - - -	- - - - -	0.0 0.0 0.0 0.0	- - - -	7.2 5.4 5.3 5.6 5.1	660.6 662.5 669.4 676.1 682.1	660.6 662.5 669.4 676.1 682.1	- - - - -	4.4 4.4 4.4 4.4	1,022.6 1,008.5 1,034.0 1,015.4 1,049.9	July	3 10 17 24 31
284.7 284.7 284.9 285.0	0.6 0.6 0.8 0.9	284.0 284.0 284.0 284.1	- - - -	- - - -	0.0 0.0 0.0 0.0	- - - -	5.6 5.7 5.2 5.2	685.6 690.3 694.8 699.5	685.6 690.3 694.8 699.5	- - - -	4.4 4.4 4.4 4.4	1,062.9 1,064.9 1,057.7 1,072.3	Aug	J. 7 14 21 28
285.1 285.1 285.0 285.1	0.8 0.8 0.7 0.8	284.3 284.3 284.3 284.3	- - - -	- - -	0.0 0.0 0.0 -	- - - -	8.1 4.5 5.6 5.9	701.8 703.4 710.4 718.2	701.8 703.4 710.4 718.2	- - - -	4.4 4.4 4.4 4.4	1,078.6 1,076.1 1,080.0 1,085.6	Sep	. 4 11 18 25
333.8 334.5 334.5 334.5 334.5	0.7 0.8 0.7 0.7 0.7	333.1 333.8 333.8 333.8 333.8	- - - -	- - - -	0.0 0.0 0.0 0.0	- - - -	6.0 4.8 5.8 9.1 5.0	723.5 730.5 732.9 740.2 745.2	723.5 730.5 732.9 740.2 745.2	- - - - -	4.4 4.4 4.4 4.4 4.4	1,087.5 1,076.1 1,075.5 1,084.5 1,077.3	Oct.	. 2 9 16 23 30
334.5 334.2 334.1 334.2	0.7 0.4 0.2 0.3	333.8 333.8 333.8 333.8	- - - -	- - -	0.0 0.0 0.0 0.0	- - - -	8.1 9.3 11.3 10.5	750.0 757.7 765.4 772.2	750.0 757.7 765.4 772.2	- - - -	4.4 4.4 4.4 4.4	1,047.4 1,071.4 1,064.6 1,100.8	Nov	7. 6 13 20 27
334.4 334.3 341.2 341.2	0.1 0.0 0.1 0.1	334.2 334.2 341.1 341.1	- - - -	- - -	0.0 0.0 0.0 0.0	- - - -	10.8 10.7 9.6 7.4	781.2 785.6 790.8 791.3	781.2 785.6 790.8 791.3	- - - -	4.4 4.4 4.4 4.4	1,104.4 1,086.6 1,083.7 1,112.1	Dec	11 18 25
341.4	0.2	341.1	-	-	0.2	-	2.4	791.1	791.1	-	4.4	1,166.9	2021 Jan.	. 1

III. Consolidated financial statement of the Eurosystem

2. Liabilities *

€ billion

	Common												
					redit institutions denomin		0				Liabilities to other euro a	rea residents	
			топесату р	oncy operation	ons denomin	ateu III euro			1		denominated		
									Other				
				Current					liabilities				
				accounts (covering			Fine-		to euro area credit				
As at		Banknotes		the minimum		Fixed-	tuning reverse	Deposits related to	institutions deno-	Debt certifi-		General	
reporting	Total	in circu-		reserve	Deposit	term	opera-	margin	minated	cates		govern-	Other
date	liabilities	lation 1	Total	system)	facility	deposits	tions	calls	in euro	issued	Total	ment	liabilities
	Eurosysten	n ³											
2020 June 12 19	5,630.3 5,636.4	1,359.2 1,360.7	2,327.1 2,253.3	2,080.5 1,985.7	246.5 267.6	_	_	0.0	9.3 7.2		701.4 799.2	569.7 668.9	131.7 130.4
26	6,236.1	1,363.2	2,233.3	2,531.0	299.2	_	-	_	7.2	-	828.3	699.3	128.9
July 3	6,289.0	1,368.2	2,919.4	2,500.4	418.9	-	-	-	9.2	_ _	764.1	702.8	61.3
10 17	6,309.2 6,322.6	1,372.0 1,372.7	2,957.8 2,916.1	2,498.1 2,463.7	459.7 452.4	_	_	_	8.2 6.9	_	741.9 792.6	674.8 724.7	67.1 67.9
24 31	6,351.4 6,360.8	1,374.6 1,377.8	2,928.6 2,997.8	2,638.8 2,650.4	289.8 347.4	_	-	0.0	6.8 6.0	_	816.0 760.8	750.9 697.7	65.1 63.1
Aug. 7	6,385.3	1,381.6	3,051.0	2,674.8	376.2	_	_	_	6.3	_	728.0	665.3	62.7
14	6,404.7 6,424.0	1,382.9 1,382.3	3,035.7	2,583.9	451.7 445.4	_	_	-	5.6 5.9	_	772.1	712.6	59.6
21 28	6,440.2	1,382.3	3,045.9 3,025.6	2,600.4 2,549.4	476.2	_	_	_	6.1	_	781.9 822.2	725.0 763.7	57.0 58.5
Sep. 4	6,458.9	1,384.5	3,115.1	2,621.9	493.2	-	-	-	9.6	-	737.8	679.2	58.5
11 18	6,474.6 6,502.4	1,385.7 1,385.7	3,123.2 3,060.9	2,623.1 2,732.1	500.1 328.8	_	_	_	6.2 7.4	_	747.1 836.1	690.4 784.4	56.7 51.7
25	6,534.8	1,386.1	3,056.1	2,722.2	333.8	-	-	-	7.4	-	862.4	810.1	52.3
Oct. 2 9	6,705.1 6,725.7	1,387.9 1,390.2	3,303.1 3,338.2	2,807.7 2,787.6	495.4 550.6	_	_	_	7.4 7.1	_	787.8 771.4	732.8 714.8	55.1 56.6
16	6,743.5	1,390.3	3,322.9	2,788.9	534.0	-	-	_	7.0	-	797.6	737.6	60.0
23 30	6,781.8 6,775.8	1,391.6 1,394.0	3,360.6 3,370.2	3,242.3 2,750.0	118.3 620.2	_	_	0.0 0.0	6.1 6.3	_	806.5 787.8	747.1 721.9	59.4 65.9
Nov. 6	6,796.9	1,396.7	3,456.3	3,015.2	441.0	-	-	_	9.2	-	713.9	645.8	68.1
13 20	6,833.5 6,867.8	1,397.7 1,399.7	3,470.1 3,429.7	2,999.2 2,884.4	470.9 545.3	_	_	_	10.9 12.3	_	723.4 788.9	654.8 721.1	68.6 67.8
27	6,883.4	1,403.2	3,463.8	2,896.1	567.7	-	-	-	11.5	-	753.3	684.4	68.8
Dec. 4 11	6,923.1 6,949.6	1,410.9 1,417.2	3,559.1 3,610.4	2,962.3 3,038.5	596.7 571.8	_		0.2 0.1	14.8 12.7	_	674.5 627.1	601.7 557.8	72.8 69.3
18	7,008.9	1,424.7	3,600.6	3,036.8	563.7	-	-	-	15.6	-	643.3	560.5	82.8
25 2021 Jan. 1	7,014.7 6,979.3	1,433.6 1,434.5	3,570.9 3,489.2	2,979.4 2,805.3	591.4 683.9	-	_	_	17.8	_	621.3	540.1	81.2 95.1
2021 Jan. 1	0,979.5	1,434.5	3,469.2	2,005.5	003.9	_		_	23.6		011.5	516.2	95.1
	Deutsche E	Bundesba	nk										
2020 June 12	2,003.6	329.4	708.6	647.6	61.0	-	-	-	3.7	-	190.2	165.0	25.3
19 26	2,047.0 2,197.3	329.3 330.2	707.6 836.6	646.2 761.1	61.4 75.5	_	_	_	2.1 3.1	_	235.9 264.0	207.7 236.0	28.2 27.9
July 3	2,215.8	332.5	874.1	733.5	140.7	-	-	-	4.2	-	228.7	221.2	7.5
10 17	2,199.9 2,230.8	334.0 334.4	884.5 879.8	734.8 718.7	149.8 161.1	_ _	_	_	3.0 2.2	_	200.3 231.0	192.8 223.5	7.5 7.4
24 31	2,217.8 2,257.3	334.6 334.2	874.0 908.2	786.5 812.3	87.4 95.9	_	_	_	1.8 1.4	_	228.1 233.6	220.8 226.6	7.3 7.0
Aug. 7	2,257.3	336.5	908.2	813.2	108.2	_	_	_	2.0	_	233.0	223.9	7.0
14	2,277.4	337.3	904.2	749.3	155.0	_ _	_	-	1.8	_	259.0	252.0	7.1 7.2
21 28	2,274.8 2,293.3	337.6 339.0	903.3 904.0	751.9 748.2	151.4 155.9	_	_	_	1.4 2.3] =	258.2 276.9	251.1 269.3	7.2
Sep. 4	2,306.2	336.4	947.4	773.9	173.5	-	-	-	5.5	-	238.6	231.4	7.2
11 18	2,299.5 2,310.9	337.4 337.8	934.1 905.4	760.5 810.9	173.6 94.6	_	_	_	2.3 2.9	_	246.8 286.3	239.7 279.0	7.1 7.3
25	2,325.1	338.3	908.3	812.5	95.8	-	-	-	2.9	-	286.3	278.9	7.3
Oct. 2 9	2,383.8 2,379.0	337.0 338.2	1,000.3 996.6	870.0 812.7	130.3 183.9	_	_	_	3.0 2.5	_	252.3 247.4	245.0 240.2	7.3 7.2
16 23	2,382.2 2,401.0	338.7	975.6	796.8	178.7	-	-	-	2.8		264.5 252.8	257.4	7.1
30	2,401.0	339.1 338.1	1,016.1 1,030.5	1,010.1 812.5	6.1 218.0	_ _	_	_	2.0 1.1	_	252.8	245.5 223.1	7.3
Nov. 6	2,373.1	339.3	1,027.6	918.1	109.4	-	-	-	3.8	-	213.0	206.0	7.0
13 20	2,406.2 2,409.1	339.8 340.0	1,039.2 1,031.8	912.8 854.6	126.4 177.1	_	_	0.0	5.1 6.9	_	231.2 240.3	224.1 233.0	7.1 7.3
27	2,450.9	341.4	1,051.7	866.4	185.2	-	-	-	5.8	-	250.9	243.1	7.8
Dec. 4 11	2,465.1 2,451.1	343.0 345.2	1,080.5 1,075.2	882.3 883.1	198.0 192.0	_	_	0.2 0.1	7.8 4.9	_	223.0 200.4	215.3 192.6	7.7 7.8
18	2,458.9	347.4	1,034.5	839.9	194.6	-	-	-	3.2	-	216.1	208.0	8.2
25 2021 Jan. 1	2,485.2 2,536.2	349.9 350.3	1,029.4 1,018.8	814.6 793.8	214.8 225.0	-	_	_	3.2 7.5	_	217.5 209.7	208.8 196.0	8.6 13.7
2021 7011.	2,330.2	I 330.3	1,010.0	, ,,,,,					,.5		1 205.7	150.0	15.7

^{*} 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 quarrter. 1 In accordance with the accounting procedure chosen by the Eurosystem for 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 monthy basis. The counterpart of this adjustment is disclosed as an "Intra-Eurosystem liability related to

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			Liabilities to nor residents denon foreign currency	ninated in							
Liabilities to non-euro area resident: denominated in euro		o area nts ign	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 2	Intra- Eurosystem liability related to euro banknote issue 1	Revaluation accounts	Capital and reserves	As at reporting date
	270.0	7.7	8.5	8.5		57.9	273.2	l -	507.1	Eurosystem ³ 108.9	2020 June 12
2	251.0 238.1	7.7 7.8 7.4	8.1 8.1	8.1 8.1	- -	57.9 57.9 57.9	275.2 275.2 278.9	=	507.1 507.1 507.1	108.9 108.9 109.0	19 26
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	230.0 228.9 237.0 227.2 224.2	6.9 6.1 6.0 5.6 5.7	7.4 7.7 7.5 7.9 7.4	7.4 7.7 7.5 7.9 7.4	- - - -	57.1 57.1 57.1 57.1 57.1	274.7 277.5 274.6 275.6 272.1	- - - -	542.9 542.9 542.9 542.9 542.9	109.0 109.0 109.0 109.0 109.0	July 3 10 17 24 31
2	220.3 210.6 209.6 204.2	5.6 5.9 5.6 5.4	7.5 7.5 7.7 7.4	7.5 7.5 7.7 7.4	- - - -	57.1 57.1 57.1 57.1	275.8 275.3 276.1 277.2	- - - -	542.9 542.9 542.9 542.9	109.0 109.0 109.0 109.0	Aug. 7 14 21 28
2 2	209.9 209.4 206.0 216.2	5.7 5.7 5.8 5.9	7.2 7.2 6.9 6.9	7.2 7.2 6.9 6.9	- - -	57.1 57.1 57.1 57.1	280.2 281.2 284.6 284.9	- - - -	542.9 542.9 542.9 542.9	108.9 108.9 108.9 108.9	Sep. 4 11 18 25
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	219.0 220.6 224.4 212.5	5.8 5.8 5.9 6.1	6.6 6.4 6.4 6.3	6.6 6.4 6.4 6.3	- - - - -	55.9 55.9 55.9 55.9	279.1 277.8 280.7 284.0	- - - -	543.5 543.5 543.5 543.5	108.9 108.9 108.9 108.9	Oct. 2 9 16 23
2	212.0 209.7 214.8 218.3	6.1 6.3 6.5	6.3 6.1 5.9 6.1	6.3 6.1 5.9 6.1	- - - - -	55.9 55.9 55.9 55.9	284.8 290.6 296.0 298.1	- - - -	543.5 543.5 543.5 543.5	108.9 108.8 108.8 108.8	30 Nov. 6 13 20
2 2 3	231.2 241.4 260.5 300.3	7.0 7.2 8.0 8.4	5.2 5.0 4.2 3.8	5.2 5.0 4.2 3.8	- - -	55.9 55.9 55.9 55.9	299.9 301.9 301.5 304.2	- - - -	543.5 543.5 543.5 543.5	108.8 108.8 108.8 108.8	27 Dec. 4 11 18
	349.2 131.1	8.0 7.8	4.1 3.9	4.1 3.9	-	55.9 54.8	301.7 301.4	_	543.5 512.9	108.8 108.8	25 2021 Jan. 1
•	•	'	'		•		•	•	Deutsche	Bundesbank	
	03.2	0.0	0.9 0.7	0.9 0.7	- - -	15.0 15.0	30.4 30.3	458.5 458.5	157.8 157.8	5.7 5.7	2020 June 12 19
	96.1 99.1	0.0 0.0	0.7 0.4	0.7 0.4	_	15.0 14.8	29.7 29.3	458.5 458.1	157.8 168.8	5.7 5.7	26 July 3
1	99.7 05.3 00.7 99.3	0.0 0.0 0.0 0.0	0.7 0.4 0.6 0.2	0.7 0.4 0.6 0.2	- - -	14.8 14.8 14.8 14.8	30.2 30.4 30.6 30.6	458.1 458.1 458.1 460.5	168.8 168.8 168.8 168.8	5.7 5.7 5.7 5.7	10 17 24 31
	99.6 94.4 93.0 89.9	0.0 0.0 0.0 0.0	0.2 0.2 0.7 0.5	0.2 0.2 0.7 0.5	- - - -	14.8 14.8 14.8 14.8	30.6 30.6 30.7 30.9	460.5 460.5 460.5 460.5	168.8 168.8 168.8 168.8	5.7 5.7 5.7 5.7	Aug. 7 14 21 28
	93.2 93.8 93.0 03.8	0.0 0.0 0.0 0.0	0.1 0.1 0.0 0.0	0.1 0.1 0.0 0.0	- - - -	14.8 14.8 14.8 14.8	31.3 31.4 31.8 31.8	464.3 464.3 464.3 464.3	168.8 168.8 168.8 168.8	5.7 5.7 5.7 5.7	Sep. 4 11 18 25
1 1 1	02.9 06.0 12.1 01.4 03.6	0.0 0.0 0.0 0.0 0.0	- 0.2 0.2 0.2	- 0.2 0.2 0.2	- - - - -	14.5 14.5 14.5 14.5 14.5	30.6 30.8 30.8 31.9 30.9	467.0 467.0 467.0 467.0 469.4	170.4 170.4 170.4 170.4 170.4	5.7 5.7 5.7 5.7 5.7	Oct. 2 9 16 23 30
	98.0 99.6 98.4 109.6	0.0 0.0 0.0 0.0	0.2 0.0 0.4 0.2	0.2 0.0 0.4 0.2	- - - -	14.5 14.5 14.5 14.5 14.5	31.3 31.3 31.3 31.3	469.4 469.4 469.4 469.4 469.4	170.4 170.4 170.4 170.4 170.4	5.7 5.7 5.7 5.7 5.7	Nov. 6 13 20 27
1 1	17.9 32.6 64.4 92.1	0.0 0.0 0.0 0.0	0.3 0.1 0.0 0.0	0.3 0.1 0.0 0.0	- - - -	14.5 14.5 14.5 14.5	31.4 31.5 31.9 31.9	470.7 470.7 470.7 470.7	170.4 170.4 170.4 170.4	5.7 5.7 5.7 5.7	Dec. 4 11 18 25
] 2	256.8	0.0	0.0	0.0	-	14.5	31.9	470.7	170.4	5.7	2021 Jan. 1

euro banknote issue". The remaining 92% of the value of the euro banknotes in circulation is allocated, likewise on an monthly basis, to the NCBs, with each NCB showing in its balance sheet the share of the euro banknotes issued corresponding 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 procedure and the value of euro banknotes put into circulation is also disclosed as an "Intra-Eurosystem claim/liability related to banknote issue". **2** For the Deutsche Bundesbank: including DEM banknotes still in circulation. **3** Source: ECB.

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

€ billion

			Lending to b	anks (MFIs) in	the euro area					Lending to n	on-banks (nor	n-MFIs) in the	
				to banks in t	he home coun	try	to banks in o	ther Member Sta	ates		to non-bank	in the home	country
												Enterprises a holds	nd house-
Period	Balance sheet total 1	Cash in hand	Total	Total	Loans	Securities issued by banks	Total	Loans	Securities issued by banks	Total	Total	Total	Loans
											Enc	l of year o	r month
2010	8,304.8	16.5	2,361.6	1,787.8	1,276.9	510.9	573.9	372.8	201.0	3,724.5	3,303.0	2,669.2	2,354.7
2011	8,393.3	16.4	2,394.4	1,844.5	1,362.2	482.2	550.0	362.3	187.7	3,673.5	3,270.5	2,709.4	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	7,528.9	18.7	2,145.0	1,654.8	1,239.1	415.7	490.2	324.6	165.6	3,594.3	3,202.1	2,616.3	2,354.0
2014	7,802.3	19.2	2,022.8	1,530.5	1,147.2	383.3	492.3	333.9	158.4	3,654.5	3,239.4	2,661.2	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
2016	7,792.6	26.0	2,101.4	1,670.9	1,384.2	286.7	430.5	295.0	135.5	3,762.9	3,344.5	2,805.6	2,512.0
2017	7,710.8	32.1	2,216.3	1,821.1	1,556.3	264.8	395.2	270.1	125.2	3,801.7	3,400.7	2,918.8	2,610.1
2018	7,776.0	40.6	2,188.0	1,768.3	1,500.7	267.5	419.7	284.8	134.9	3,864.0	3,458.2	3,024.3	2,727.0
2019	8,311.0	43.4	2,230.1	1,759.8	1,493.5	266.3	470.4	327.6	142.8	4,020.1	3,584.9	3,168.7	2,864.9
2019 Feb.	7,935.7	36.9	2,304.8	1,862.5	1,591.5	271.1	442.3	304.8	137.5	3,893.1	3,477.0	3,044.8	2,751.0
Mar.	8,121.3	37.0	2,343.5	1,885.9	1,614.7	271.2	457.6	319.3	138.4	3,921.0	3,488.4	3,059.8	2,765.7
Apr.	8,154.6	38.2	2,354.4	1,893.6	1,625.2	268.5	460.8	321.6	139.1	3,928.3	3,492.4	3,068.0	2,774.1
May	8,280.9	37.9	2,376.8	1,919.0	1,648.5	270.5	457.8	317.9	139.9	3,944.5	3,509.1	3,085.5	2,790.5
June	8,321.9	37.9	2,332.5	1,869.9	1,600.4	269.6	462.6	321.6	141.0	3,972.1	3,530.5	3,108.0	2,809.6
July	8,372.1	37.4	2,311.4	1,845.2	1,575.0	270.2	466.2	324.2	142.0	3,984.9	3,539.6	3,114.5	2,815.1
Aug.	8,645.5	38.3	2,327.7	1,857.2	1,589.6	267.6	470.5	327.6	142.9	4,009.7	3,554.6	3,127.0	2,827.3
Sep.	8,550.4	38.0	2,323.6	1,835.8	1,569.4	266.4	487.8	344.3	143.5	4,001.0	3,562.6	3,139.5	2,839.7
Oct.	8,445.6	39.3	2,312.0	1,810.4	1,543.9	266.5	501.6	358.5	143.1	4,008.1	3,569.7	3,149.2	2,847.6
Nov.	8,509.2	40.1	2,361.5	1,860.2	1,590.2	270.0	501.3	358.1	143.2	4,027.4	3,586.5	3,166.8	2,863.7
Dec.	8,311.0	43.4	2,230.1	1,759.8	1,493.5	266.3	470.4	327.6	142.8	4,020.1	3,584.9	3,168.7	2,864.9
2020 Jan.	8,482.2	39.4	2,293.1	1,800.7	1,531.5	269.2	492.4	348.1	144.3	4,033.9	3,591.5	3,173.1	2,867.5
Feb.	8,666.7	40.3	2,308.1	1,815.4	1,545.5	269.9	492.7	348.9	143.8	4,055.3	3,606.4	3,190.1	2,885.8
Mar.	8,912.6	48.1	2,421.0	1,920.7	1,651.9	268.8	500.4	357.5	142.8	4,096.9	3,641.9	3,215.5	2,915.9
Apr.	9,014.6	48.6	2,442.9	1,943.2	1,674.0	269.2	499.7	355.0	144.8	4,115.5	3,656.4	3,225.2	2,926.3
May	8,915.3	48.1	2,395.2	1,896.4	1,631.8	264.6	498.8	355.2	143.6	4,149.8	3,682.9	3,247.5	2,946.1
June	9,026.9	46.0	2,542.6	2,056.2	1,788.0	268.2	486.4	343.6	142.8	4,153.0	3,683.1	3,249.8	2,949.1
July	9,069.0	45.5	2,574.4	2,099.6	1,830.7	268.9	474.8	333.3	141.5	4,153.7	3,688.0	3,258.4	2,958.3
Aug.	8,985.5	46.0	2,595.4	2,127.5	1,858.5	269.0	467.9	328.0	139.9	4,148.3	3,691.9	3,266.7	2,966.1
Sep.	9,097.4	46.1	2,657.2	2,196.9	1,926.4	270.6	460.3	320.7	139.5	4,153.9	3,696.5	3,269.8	2,968.7
Oct.	9,124.3	46.3	2,686.7	2,226.8	1,957.0	269.8	459.9	320.9	139.0	4,181.8	3,713.6	3,283.1	2,980.6
Nov.	9,096.0	45.7	2,684.0	2,232.0	1,965.2	266.8	452.0	313.9	138.1	4,198.6	3,723.7	3,293.2	2,991.0
													hanges ³
2011	54.1	- 0.1	32.6	58.7	91.7	- 33.0	- 26.0	- 12.1	- 13.9	- 51.8	- 35.3	38.7	56.7
2012	- 129.2	2.9	- 81.9	- 28.4	3.0	- 31.4	- 53.5	- 39.7	- 13.8	27.5	27.7	17.0	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	- 191.4	0.3	- 18.2	- 12.1	66.1	- 78.2	- 6.1	6.6	- 12.8	64.8	64.1	68.1	56.6
2016	184.3	6.5	120.3	178.4	195.3	- 16.8	- 58.1	- 49.2	- 8.8	57.5	53.4	88.8	81.0
2017	8.0	6.1	135.9	165.0	182.6	- 17.6	- 29.1	- 19.6	- 9.5	51.3	63.5	114.8	101.1
2018	101.8	8.5	- 29.2	- 49.7	- 53.4	3.7	20.6	13.0	7.6	78.7	71.9	118.1	127.8
2019	483.4	2.8	20.7	- 3.8	- 2.3	- 1.5	24.5	16.9	7.5	161.8	130.5	148.2	140.9
2019 Mar.	124.6	0.2	32.4	25.5	26.3	- 0.8	6.9	6.5	0.4	12.4	10.7	14.4	14.6
	33.9	1.2	10.8	7.7	10.5	- 2.8	3.1	2.4	0.7	7.6	4.4	8.4	8.9
Apr. May June	124.6 50.5	- 0.3 0.0	22.1 - 42.3	25.4 - 48.3	23.2 - 47.7	- 2.1 - 0.6	- 3.2 6.0	- 3.9 4.8	0.7 1.2	16.3 27.8	16.3 21.7	17.4 22.9	16.2 19.4
July	49.8	- 0.5	- 23.0	- 25.4	- 26.0	0.6	2.4	1.5	0.9	12.1	9.1	6.8	5.6
Aug.	265.9	0.8	14.8	11.4	14.2	- 2.8	3.4	2.7	0.7	23.9	14.6	12.3	11.9
Sep.	- 100.4	- 0.3	- 19.8	- 19.0	- 18.0	- 1.0	- 0.7	- 1.3	0.6	7.9	8.2	12.1	12.1
Oct.	- 93.5	1.2	- 9.8	- 24.8	- 25.0	0.2	15.0	15.3	- 0.3	8.8	8.1	10.5	8.8
Nov.	55.4	0.8	48.2	49.3	45.9	3.3	- 1.1	- 1.2	0.1	18.6	16.6	17.3	15.8
Dec.	- 187.4	3.3	- 129.3	- 99.6	- 96.3	- 3.3	- 29.7	- 29.4	- 0.3	- 6.1	– 1.2	2.2	1.6
2020 Jan.	162.1	- 4.0	61.4	40.5	37.7	2.8	21.0	19.6	1.4	13.0	6.8	4.7	3.1
Feb.	193.8	0.8	20.5	18.6	13.8	4.8	1.9	0.5	1.3	21.8	15.0	17.2	18.3
Mar.	251.0	7.9	113.4	105.3	106.1	- 0.9	8.2	8.8	- 0.6	44.3	36.8	26.5	31.0
Apr.	96.1	0.5	20.8	21.8	21.5	0.3	- 1.1	- 3.0	1.9	18.2	14.2	9.8	10.5
May	- 40.6	- 0.6	22.6	22.4	19.3	3.1	0.2	1.3	- 1.1	27.3	24.9	20.5	18.0
June	118.6	- 2.1	149.4	161.5	157.8	3.7	- 12.1	- 11.2	- 0.9	5.0	1.7	3.6	4.3
July	67.5	- 0.5	36.5	45.1	44.3	0.8	- 8.6	- 7.5	- 1.1	3.1	6.6	10.2	10.8
Aug.	- 79.5	0.5	21.7	28.2	28.0	0.1	- 6.4	- 4.9	- 1.5	- 4.9	4.3	8.7	8.1
Sep.	104.9	0.1	60.5	69.0	67.5	1.5	- 8.5	- 8.0	- 0.4	5.2	4.5	3.0	2.6
Oct.	25.2	- 0.2	29.1	29.7	30.5	- 0.8	- 0.6	- 0.1	- 0.7	27.6	17.3	12.9	11.3
Nov.	1.5	- 0.7	26.3	34.5	36.0	- 1.5	- 8.2	- 7.4	- 0.8	17.6	10.7	10.7	11.1

 $^{^{\}star}$ 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

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euro area]
				to non-banks	s in other Mer	nber States				Claims on no residents	on-euro area		
	General gov	ernment			Enterprises a households	nd	General gove	ernment					
Securities	Total	Loans	Securities 2	Total	Total	of which: Loans	Total	Loans	Securities	Total	of which: Loans	Other assets 1	Period
End of	year or mo	nth											1
314. 294. 259. 262. 276.	3 561.1 8 594.0 3 585.8	418.4 359.8 350.3 339.2 327.9	215.3 201.2 243.7 246.6 250.4	421.6 403.1 399.2 392.3 415.0	289.2 276.9 275.1 267.6 270.0	164.2 161.2 158.1 144.6 142.7	132.4 126.2 124.1 124.6 145.0	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	792.7 770.9 745.0 690.5 805.0	1,181.1 1,313.8 1,239.4 849.7 1,055.8	2010 2011 2012 2013 2014
287. 293. 308. 297. 303.	6 538.9 7 481.9 2 433.9 8 416.2	324.5 312.2 284.3 263.4 254.7	250.6 226.7 197.6 170.5 161.6	417.5 418.4 401.0 405.8 435.2	276.0 281.7 271.8 286.7 312.6	146.4 159.5 158.3 176.5 199.0	141.5 136.7 129.1 119.2 122.6	29.4 28.5 29.8 28.6 29.4	112.1 108.2 99.3 90.6 93.2	1,006.5 1,058.2 991.9 1,033.2 1,035.8	746.3 802.3 745.3 778.5 777.5	905.6 844.1 668.9 650.2 981.5	2015 2016 2017 2018 2019
293. 294. 293. 295.	1 428.5 8 424.5	263.3 260.6 260.8 259.2	168.9 168.0 163.7 164.4	416.1 432.6 435.9 435.5	294.1 311.4 315.7 317.7	181.5 197.8 202.0 205.0	122.0 121.2 120.2 117.8	28.8 28.9 29.6 29.4	93.1 92.4 90.5 88.4	1,037.8 1,084.1 1,099.5 1,101.0	781.6 826.7 840.3 839.1	663.2 735.7 734.2 820.6	2019 Feb. Mar. Apr. May
298. 299. 299. 299.	5 422.5 4 425.0 7 427.6	257.7 260.2 260.2 255.1	164.7 164.8 167.4 168.1	441.6 445.3 455.1 438.3	320.9 322.2 330.1 313.4	207.2 209.5 216.8 200.6	120.7 123.1 125.0 124.9	29.0 29.0 28.9 28.8	91.7 94.1 96.1 96.1	1,103.8 1,114.6 1,122.3 1,106.8	841.8 851.7 857.7 841.9	875.6 923.8 1,147.5 1,081.1	June July Aug. Sep.
301. 303. 303.	6 420.5 1 419.8 8 416.2	257.1 257.7 254.7	163.4 162.0 161.6	438.4 440.8 435.2	313.1 315.2 312.6	201.3 201.0 199.0	125.3 125.6 122.6	30.1 30.5 29.4	95.2 95.1 93.2	1,102.8 1,091.3 1,035.8	842.5 828.7 777.5	983.5 989.0 981.5	Oct. Nov. Dec.
305. 304. 299. 298.	3 416.3 6 426.4 8 431.2	258.6 256.5 258.5 259.2	159.8 159.8 167.9 172.0	442.4 448.9 455.0 459.1	316.4 322.8 325.2 329.0	203.8 206.6 212.8 217.4	126.0 126.2 129.8 130.2	29.8 29.9 29.5 31.1	96.2 96.3 100.3 99.1	1,078.6 1,088.6 1,104.4 1,119.2	819.6 829.3 838.8 852.3	1,037.1 1,174.5 1,242.1 1,288.4	2020 Jan. Feb. Mar. Apr.
301. 300. 300. 300.	7 433.3 1 429.6	258.3 257.8 259.1 253.7	177.1 175.5 170.5 171.4	466.9 469.9 465.7 456.5	334.5 331.1 313.2 311.1	220.6 215.4 217.1 214.5	132.3 138.8 152.5 145.4	31.0 29.2 29.9 29.2	101.3 109.6 122.6 116.1	1,102.1 1,075.8 1,047.3 1,037.6	840.8 816.4 792.5 784.0	1,220.2 1,209.5 1,248.1 1,158.2	May June July Aug
301. 302. 302.	1 426.7 5 430.5 2 430.5	256.0 257.3 256.7	170.8 173.2 173.8	457.4 468.2 474.9	311.0 318.6 325.7	215.2 219.6 222.5	146.4 149.5 149.2	29.3 30.2 29.1	117.0 119.3 120.1	1,063.9 1,049.9 1,048.0	808.9 793.4 792.3	1,176.3 1,159.6	Sep. Oct. Nov.
Change		I 50.1	140	16.6	12.0		1 27		10.7	30.5	340	1120	2011
- 18.1 - 11.3 2.1 15.1	8	- 59.1 - 10.5 - 10.9 - 15.1 - 4.2	- 14.9 21.2 3.9 2.9 0.3	- 16.6 - 0.2 - 3.0 15.1 0.7	- 13.8 - 0.7 - 3.4 0.4 4.4	- 5.5 - 1.5 - 9.3 - 4.0	- 2.7 0.5 0.5 14.6 - 3.7	8.0 - 2.2 - 2.6 0.9 - 1.0	- 10.7 2.7 3.1 13.8 - 2.8	- 39.5 - 15.5 - 38.8 83.6 - 88.3	- 34.9 - 17.7 - 47.2 72.0 - 101.0	112.9 - 62.2 - 420.8 194.0 - 150.1	2011 2012 2013 2014 2015
7. 13. - 9. 7.	7 - 51.3 8 - 46.2 3 - 17.7	- 12.1 - 22.8 - 19.1 - 8.6	- 23.3 - 28.5 - 27.0 - 9.1	4.0 - 12.2 6.8 31.3	8.2 - 3.4 18.2 29.5	14.6 4.0 18.6 26.9	- 4.2 - 8.7 - 11.4 1.7	- 0.9 0.1 - 1.5 0.0	- 3.3 - 8.9 - 9.9 1.7	51.4 - 12.3 29.0 - 32.1	55.0 - 6.7 18.9 - 33.3	- 51.4 - 173.1 14.8 330.3	2016 2017 2018 2019
- 0. - 0. 1. 3.	4 - 4.0 2 - 1.0 5 - 1.2	- 2.8 0.2 - 1.7 - 1.5	- 1.0 - 4.2 0.7 0.3	1.7 3.1 - 0.1 6.1	3.0 4.2 2.3 3.4	2.5 4.3 3.1 2.7	- 1.2 - 1.1 - 2.4 2.6	0.0 0.7 - 0.2 - 0.4	- 1.8 - 2.2 3.1	16.1 15.8 0.0 10.5	17.2 14.1 - 2.8 9.9	63.6 - 1.5 86.5 54.5	Apr. May June
1. 0. 0. 1.	4 2.3 0 - 4.0 7 - 2.4	2.5 - 0.2 - 4.7 2.1	- 0.2 2.5 0.8 - 4.6	3.0 9.3 - 0.3 0.8	1.3 7.5 - 0.1 0.2	2.1 7.0 0.5 1.0	1.7 1.8 - 0.1 0.5	- 0.0 - 0.1 - 0.1 1.3	1.8 1.9 - 0.0 - 0.8	4.4 2.6 - 21.9 3.9	4.1 1.2 - 21.7 7.7	56.8 223.7 - 66.4 - 97.7	July Aug Sep. Oct.
1. 0. 1. – 1.	7 - 3.4 6 2.1 1 - 2.2	0.6 - 3.0 3.9 - 2.1	- 1.4 - 0.4 - 1.8 - 0.1	2.1 - 4.9 6.2 6.8	1.7 - 1.4 3.2 6.7	- 0.7 - 0.9 4.5 2.8	0.4 - 3.5 3.0 0.1	0.4 - 1.8 0.4 0.1	0.0 - 1.7 2.6 - 0.0	- 17.6 - 47.9 36.0 13.5	- 19.3 - 44.3 35.9 12.5	5.3 - 7.5 55.6 137.3	Nov. Dec. 2020 Jan. Feb.
- 4. - 0. 2. - 0.	7 4.5 5 4.4	2.0 0.6 - 0.9 - 0.3	8.3 3.9 5.3 – 1.6	7.5 4.0 2.5 3.3	3.3 3.7 0.8 - 3.2	6.5 4.3 – 1.2 – 4.9	4.2 0.3 1.6 6.4	- 0.4 1.6 - 0.6 - 1.8	4.6 - 1.3 2.2 8.2	17.8 10.4 - 23.0 - 22.9	9.3 - 18.2 - 21.2	67.6 46.3 - 67.0 - 10.8	Mar Apr. May June
- 0. 0. 0.	6 - 3.6 6 - 4.4 4 1.5	1.3 - 5.4 2.2	- 4.9 0.9 - 0.7	- 3.5 - 9.2 0.7	1.6 - 2.3 - 0.1	2.7 - 2.5 0.7	- 5.1 - 6.9 0.9	0.6 - 0.7 0.1	- 5.7 - 6.2 0.7	- 10.3 - 7.0 21.1	- 7.1 - 6.0 20.0	38.7 - 89.8 18.0	July Aug Sep.
- 1. - 0.		- 2.0 - 0.6	2.5 0.6	10.4 6.9	7.3 7.3	4.2 3.3	- 0.3	0.9	2.1 0.8	- 15.3 - 1.9	- 16.7 - 1.0	- 16.4 - 39.9	Oct. Nov

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

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

€ billion

	€ DIIIION												
		Deposits of being the in the euro a			Deposits of r	on-banks (no	n-MFIs) in the	euro area					
		332.34	of banks		1	Deposits of r	non-banks in th	he home coun	try	ı		Deposits of r	non-banks
			OT Burnes					With agrood	maturities	At agreed no	rtico		
								With agreed	maturities	At agreed IIC	, iice	1	
	Balance		in the	in other					of which:		of which:		
Period	sheet total 1	Total	home country	Member States	Total	Total	Overnight	Total	up to 2 years	Total	up to 3 months	Total	Overnight
	total	10101	country	States	10101	10101	overnight.	10101	z years	10101		d of year o	
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 2012	8,393.3 8,226.6	1,444.8 1,371.0	1,210.3 1,135.9	234.5 235.1	3,033.4 3,091.4	2,915.1 2,985.2	1,143.3 1,294.9	1,155.8 1,072.8	362.6 320.0	616.1 617.6	515.3 528.4	78.8 77.3	25.9 31.2
2013 2014	7,528.9 7,802.3	1,345.4 1,324.0	1,140.3 1,112.3	205.1 211.7	3,130.5 3,197.7	3,031.5 3,107.4	1,405.3 1,514.3	1,016.2 985.4	293.7 298.1	610.1 607.7	532.4 531.3	81.3 79.7	33.8 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
2016 2017	7,792.6 7,710.8	1,205.2 1,233.6	1,033.2 1,048.6	172.0 184.9	3,411.3 3,529.1	3,318.5 3,411.1	1,794.8 1,936.6	935.3 891.7	291.2 274.2	588.5 582.8	537.0 541.0	84.2 108.6	37.2 42.5
2018 2019	7,776.0 8,311.0	1,213.8 1,242.8	1,021.8 1,010.4	192.0 232.4	3,642.8 3,778.1	3,527.0 3,649.8	2,075.5 2,230.9	872.9 843.7	267.2 261.7	578.6 575.1	541.1 540.5	104.5 116.3	45.0 54.6
2019 Feb.	7,935.7	1,258.4	1,046.6	211.8	3,658.9	3,544.0	2,083.6	880.9	281.8	579.5	542.4	103.3	44.6
Mar. Apr.	8,121.3 8,154.6	1,281.9 1,298.3	1,050.1 1,061.2	231.8 237.0	3,676.8 3,689.3	3,554.7 3,569.8	2,095.7 2,117.1	877.1 870.5	280.6 276.7	582.0 582.2	544.7 544.7	109.9 105.8	51.7 47.5
May June	8,280.9 8,321.9	1,291.2 1,292.1	1,057.1 1,048.3	234.1 243.8	3,721.9 3,728.4	3,599.3 3,595.5	2,147.3 2,144.7	869.5 868.1	277.3 274.5	582.5 582.6	544.4 544.0	108.1 116.0	50.1 56.6
July	8,372.1	1,291.9	1,055.1	236.8	3,728.8	3,605.7	2,160.6	863.3	271.9	581.8	543.4	110.3	51.1
Aug. Sep.	8,645.5 8,550.4	1,306.3 1,299.7	1,062.2 1,038.3	244.1 261.4	3,754.1 3,745.4	3,626.8 3,618.0	2,182.9 2,179.8	863.7 859.2	276.0 273.5	580.2 579.0	542.2 541.5	114.6 115.2	54.3 55.7
Oct.	8,445.6	1,313.5	1,050.3	263.2	3,761.4	3,633.5	2,201.7	854.6	270.4	577.2	540.6	114.1	51.4
Nov. Dec.	8,509.2 8,311.0	1,326.4 1,242.8	1,057.3 1,010.4	269.1 232.4	3,791.3 3,778.1	3,663.8 3,649.8	2,238.9 2,230.9	849.3 843.7	266.7 261.7	575.6 575.1	539.9 540.5	115.8 116.3	52.6 54.6
2020 Jan. Feb.	8,482.2 8,666.7	1,293.2 1,313.5	1,033.0 1,047.8	260.2 265.7	3,775.6 3,794.5	3,647.0 3,664.6	2,229.5 2,249.1	846.8 847.1	267.2 270.3	570.7 568.4	537.5 535.8	116.3 117.0	54.3 55.2
Mar.	8,912.6	1,418.4	1,135.8	282.6	3,853.2	3,705.0	2,299.1	841.5	268.6	564.4	532.5	135.5	72.3
Apr. May	9,014.6 8,915.3	1,426.3 1,386.1	1,156.6 1,112.0	269.6 274.0	3,872.7 3,913.5	3,729.4 3,764.4	2,339.0 2,370.9	826.7 829.9	259.6 266.6	563.8 563.6	532.6 532.9	130.3 136.6	65.2 70.6
June	9,026.9	1,503.5	1,230.4	273.1	3,906.1	3,754.5	2,379.1	812.8	256.1	562.5	532.8	139.2	71.1
July Aug.	9,069.0 8,985.5	1,488.7 1,489.8	1,209.5 1,213.2	279.2 276.6	3,937.1 3,951.0	3,783.3 3,790.7	2,408.1 2,421.8	814.3 808.3	263.0 258.8	560.9 560.6	531.7 531.8	132.9 129.7	65.5 63.6
Sep. Oct.	9,097.4 9,124.3	1,523.9 1,536.3	1,252.4 1,264.9	271.5 271.4	3,975.9 4,015.2	3,795.1 3,827.0	2,436.7 2,473.1	798.3 794.2	251.4 249.1	560.1 559.7	531.7 531.7	140.6 140.8	72.8 69.6
Nov.	9,096.0	1,515.4	1,245.5	269.9	4,034.8	3,846.1	2,508.7	777.9	235.3	559.5	531.9	140.2	69.0
												_	Changes ⁴
2011 2012	54.1 - 129.2	- 48.4 - 68.7	- 28.8 - 70.0	- 19.6 1.3	102.1 57.8	97.4 67.1	52.4 156.1	47.6 - 90.4 - 56.3	58.8 - 50.2	- 2.6 1.5	1.3 14.1	- 1.4	5.4
2013 2014	- 703.6 206.8	- 106.2 - 28.4	- 73.9 - 32.2	- 32.3 3.9	39.1 62.7	47.8 71.6	111.5 106.0	- 56.3 - 32.1	- 26.6 3.1	- 7.3 - 2.4	4.0 - 2.4	2.6 - 2.5	3.3 - 0.0
2015	- 191.4	- 62.1 - 31.6	- 50.3 - 2.2	- 11.9 - 29.4	104.1	104.8	153.2	- 37.0	- 10.1	- 11.3	4.2	- 0.4	- 0.3
2016 2017	184.3 8.0	30.6	14.8	15.8	105.7 124.2	105.2 107.7	124.3 145.8	- 11.1 - 32.5	1.4 - 15.3	- 8.0 - 5.6	2.4 1.5	2.7 16.4	1.9 5.8
2018 2019	101.8 483.4	- 20.1 12.6	- 25.7 - 10.0	5.6 22.6	112.4 132.1	114.7 120.0	137.7 154.1	- 18.8 - 30.6	- 6.5 - 6.6	- 4.3 - 3.4	- 1.2 - 0.6	- 4.3 10.6	2.3 8.7
2019 Mar.	124.6	19.3	2.7	16.6	15.7	9.5	11.1	- 4.1	- 1.4	2.5	2.2	5.7	6.3
Apr. May	33.9 124.6	16.4 - 7.3	- 11.2 - 4.2	5.2 - 3.1	12.6 32.4	15.1 29.5	21.4 30.1	- 6.6 - 0.9	- 3.9 0.6	0.2 0.3	- 0.1 - 0.3	- 4.1 2.3	- 4.3 2.7
June	50.5	2.1	- 8.2	10.3	7.3	- 3.2	- 2.0	- 1.3	- 2.8	0.2	- 0.4	7.9	6.6
July Aug.	49.8 265.9	- 1.3 13.7	6.3 6.8	- 7.6 6.9	- 0.7 24.7	9.3 20.5	15.4 21.9	- 5.2 0.2	- 2.8 4.0	- 0.9 - 1.5	- 0.6 - 1.2	- 5.8 4.2	- 5.6 3.1
Sep. Oct.	- 100.4 - 93.5	- 19.2 15.0	- 21.7 12.5	2.5 2.5	- 9.5 17.1	- 9.5 16.2	- 3.5 22.5	- 4.7 - 4.5	- 2.7 - 3.1	- 1.2 - 1.8	- 0.7 - 1.0	0.5 - 0.9	1.3 - 4.2
Nov.	55.4	11.9	6.6	5.3	29.1	29.5	36.7	- 5.7	- 3.8	- 1.6	- 0.7	1.5	1.1
Dec. 2020 Jan.	- 187.4 162.1	- 82.4 49.3	- 46.4 22.2	- 36.0 27.2	- 12.2 - 3.4	- 13.2 - 3.5	- 7.3 - 2.0	- 5.4 2.9	- 4.9 5.3	- 0.5 - 4.5	0.6 - 3.0	0.7	2.2 - 0.4
Feb. Mar.	193.8 251.0	20.0 104.6	14.6 87.7	5.4 16.9	18.5 58.9	17.3 40.4	19.4 50.1	0.2 - 5.6	3.0	- 2.2 - 4.0	- 1.7 - 3.4	0.6 18.5	0.9 17.1
Apr.	96.1	7.0	20.3	- 13.3	18.8	24.0	39.6	- 15.0	- 9.2	- 0.7	0.1	- 5.3	7.1
May June	- 40.6 118.6	22.0 118.2	16.8 118.9	5.2 - 0.7	34.0 - 7.0	33.3 - 9.6	29.9 8.3	3.6 - 16.8	7.3 - 10.5	- 0.2 - 1.1	0.3 - 0.1	1.2 2.6	0.1 0.6
July	67.5	- 11.0	- 19.0	8.1	34.1	31.5	31.0	2.1	7.4	- 1.6	- 1.1	- 5.7	- 5.4
Aug. Sep.	- 79.5 104.9	1.6 33.1	4.0 38.7	- 2.4 - 5.7	14.4 24.1	7.7 3.7	13.8 14.4	- 5.9 - 10.2	- 4.1 - 7.6	- 0.2 - 0.5	- 0.2 - 0.1	- 3.2 10.7	- 1.9 9.1
Oct. Nov.	25.2	12.3	12.4 7.6	- 0.1 - 1.0	39.1 19.8	32.1 19.1	36.4 35.5	- 3.9 - 16.3	- 3.3 - 13.8	- 0.4 - 0.2	- 0.0 0.3	0.1	- 3.3 - 0.6
INOV.	1.5	6.6	/.6	- 1.0	19.8	19.1	35.5	- 10.3	- 15.8	- 0.2	U.3	- 0.5	- 0.6

 $^{^\}star$ 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 governments.

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IV. Banks

							Ι	Dake as societi	:	Ι			1
in other Men	ahar Statos 2			Deposits of				Debt securiti	es issued 3	1			
in other Men	iber States 2			central gove	rnments	Liabilities							
With agreed	maturities	At agreed no	tice		of which:	arising from	Money		of which:	Liabilities			
	of which: up to		of which: 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
	ear or mor												
46.4	16.1	2.8	2.2	39.8	38.7	86.7	9.8	1,407.8	82.3	636.0	452.6	1,290.2	2010
49.6	18.4	3.3	2.5	39.5	37.9	97.1	6.2	1,345.7	75.7	561.5	468.1	1,436.6	2011
42.3	14.7	3.8	2.8	28.9	25.9	80.4	7.3	1,233.1	56.9	611.4	487.3	1,344.7	2012
44.0	16.9	3.5	2.7	17.6	16.0	6.7	4.1	1,115.2	39.0	479.5	503.0	944.5	2013
42.0	15.9	3.3	2.7	10.6	10.5	3.4	3.5	1,077.6	39.6	535.3	535.4	1,125.6	2014
42.2 43.9 63.2 56.7 59.0	16.0 15.8 19.7 15.8 16.5	3.3 3.1 2.9 2.8 2.7 2.8	2.8 2.6 2.6 2.5 2.4 2.5	11.3 8.6 9.4 11.3 12.0 11.7	9.6 7.9 8.7 10.5 11.2	2.5 2.2 3.3 0.8 1.5 2.0	3.5 2.4 2.1 2.4 1.9 2.3	1,017.7 1,030.3 994.5 1,034.0 1,063.2 1,067.9	48.3 47.2 37.8 31.9 32.3 32.2	526.2 643.4 603.4 575.9 559.4 621.9	569.3 591.5 686.0 695.6 728.6 684.9	971.1 906.3 658.8 610.7 935.6 639.5	2015 2016 2017 2018 2019 2019 Feb.
55.4	14.9	2.8	2.5	12.1	10.5	11.4	2.1	1,065.3	32.7	666.8	699.3	717.8	Mar.
55.5	15.0	2.8	2.5	13.7	11.2	12.5	2.0	1,060.0	32.1	698.4	696.3	697.8	Apr.
55.2	14.8	2.8	2.5	14.4	12.0	11.2	2.0	1,071.8	32.4	688.6	703.5	790.6	May
56.6	16.1	2.8	2.5	17.0	14.0	12.9	2.0	1,071.1	33.1	676.3	706.6	832.5	June
56.4	15.6	2.8	2.5	12.8	11.2	13.9	2.1	1,075.3	33.4	667.9	709.9	882.4	July
57.5	17.4	2.8	2.5	12.8	11.2	16.9	2.2	1,072.7	33.9	676.2	713.0	1,103.9	Aug.
56.8	15.2	2.7	2.4	12.2	10.9	1.5	2.3	1,077.8	35.7	671.4	719.2	1,033.2	Sep.
60.1	17.8	2.7	2.4	13.8	10.6	1.2	2.2	1,067.5	33.4	657.4	711.0	931.3	Oct.
60.6	18.3	2.7	2.4	11.7	10.6	1.7	2.0	1,076.7	33.7	653.6	723.6	933.9	Nov.
59.0	16.5	2.7	2.4	12.0	11.2	1.5	1.9	1,063.2	32.3	559.4	728.6	935.6	Dec.
59.4	17.1	2.7	2.4	12.3	10.8	2.5	1.8	1,078.0	36.0	622.5	712.5	996.0	2020 Jan.
59.2	15.3	2.6	2.4	12.9	11.2	2.0	1.9	1,087.4	34.6	638.8	714.0	1,114.6	Feb.
60.6	16.5	2.6	2.4	12.8	11.2	1.7	2.5	1,074.1	30.8	674.1	713.4	1,175.2	Mar.
62.4	17.6	2.6	2.4	13.0	11.1	3.4	2.4	1,078.1	29.6	704.0	693.5	1,234.2	Apr.
63.4	16.4	2.6	2.4	12.5	10.8	2.2	2.2	1,076.9	28.8	693.7	686.4	1,154.4	May
65.4	19.2	2.6	2.4	12.5	11.8	0.9	2.1	1,074.0	28.6	696.8	702.1	1,141.4	June
64.8	20.2	2.6	2.3	20.8	20.1	2.1	1.9	1,067.4	25.9	698.3	694.7	1,178.9	July
63.6	19.3	2.6	2.3	30.6	29.8	1.7	1.9	1,063.9	25.5	682.1	699.9	1,095.2	Aug.
65.2	21.8	2.6	2.3	40.2	39.0	1.2	2.6	1,077.3	25.6	687.1	720.4	1,108.9	Sep.
68.6	25.0	2.6	2.3	47.3	46.6	1.4	2.7	1,075.1	24.6	687.8	712.4	1,093.3	Oct.
68.7	24.3	2.6	2.3	48.5	47.6	9.1	2.5	1,069.8	23.0	696.7	713.3	1,054.3	Nov.
Changes	4			•	•		•	•	•	•	•		•
- 2.2 - 7.2 - 0.5 - 2.3 - 0.1 1.1 10.8 - 6.4	1.7 - 3.6 2.2 - 1.2 0.0 0.0 4.2 - 4.1	0.5 - 0.3 - 0.2 - 0.0 - 0.3 - 0.1 - 0.1	0.3 0.3 - 0.1 - 0.1 - 0.1 - 0.0 - 0.0	- 0.1 - 7.9 - 11.3 - 6.4 - 0.4 - 2.2 - 0.0 2.1	- 0.7 - 9.2 - 10.0 - 4.8 - 1.9 - 1.2 - 0.0 2.1	10.0 - 19.6 4.1 - 3.4 - 1.0 - 0.3 1.1 - 2.6	- 3.7 1.2 - 3.2 - 0.6 - 0.0 - 1.1 - 0.3 0.3	- 76.9 - 107.0 - 104.9 - 63.7 - 86.8 8.6 - 3.3 30.0	- 6.6 - 18.6 - 17.6 - 0.2 - 7.7 - 1.3 - 8.5 - 5.9	- 80.5 54.2 - 134.1 35.9 - 30.3 116.1 - 16.1 - 36.0	13.7 21.0 18.9 26.1 28.0 26.4 34.1 7.4	137.8 - 68.5 - 417.1 178.3 - 143.2 - 39.5 - 162.3 10.3	2011 2012 2013 2014 2015 2016 2017 2018
2.0	0.6	- 0.1	- 0.1	1.4	1.4	5.6	- 0.5	22.3	0.1	- 47.9	30.0	329.1	Apr.
- 0.5	- 0.1	- 0.0	- 0.0	0.5	0.6	0.0	- 0.3	- 6.0	0.4	15.8	11.6	68.4	
0.1	0.1	0.0	- 0.0	1.7	0.8	1.1	- 0.0	- 5.3	- 0.5	31.6	- 3.0	- 19.4	
- 0.4	- 0.2	- 0.0	- 0.0	0.6	0.6	- 1.3	0.0	11.8	0.2	- 10.4	7.2	92.3	May
1.4	1.3	- 0.0	- 0.0	2.5	2.0	1.7	0.0	3.4	0.9	- 8.2	4.8	39.5	June
- 0.3	- 0.5	- 0.0	- 0.0	- 4.2	- 2.8	1.0	0.1	1.0	0.2	- 11.7	2.2	59.2	July
1.1	1.7	- 0.0	- 0.0	- 0.0	- 0.0	3.1	0.1	- 5.4	0.4	5.8	2.3	221.7	Aug.
- 0.8	- 2.2	- 0.0	- 0.0	- 0.5	- 0.2	- 1.1	0.1	1.3	1.7	- 8.3	5.3	- 69.0	Sep.
3.4	2.7	- 0.0	- 0.0	1.8	- 0.1	- 0.3	- 0.1	- 6.5	- 2.1	- 9.7	- 6.9	- 102.1	Oct.
0.4	0.4	- 0.0	- 0.0	- 2.0	0.2	0.4	- 0.2	5.6	0.2	- 7.2	11.5	4.2	Nov.
- 1.5	- 1.7	- 0.0	- 0.0	0.3	0.6	- 0.2	- 0.1	- 9.2	- 1.3	- 90.5	6.4	0.7	Dec.
- 0.3	0.5	- 0.0	- 0.0	0.3	- 0.5	1.1	- 0.1	11.0	3.5	59.9	- 17.2	61.4	2020 Jan.
- 0.3	- 1.8	- 0.0	- 0.0	0.6	0.4	- 0.6	0.1	8.6	- 1.4	15.5	1.3	130.4	Feb.
1.4	1.2	- 0.0	- 0.0	- 0.0	- 0.0	- 0.3	0.6	– 11.9	- 3.8	36.2	- 0.3	63.2	Mar.
1.8	1.1	- 0.0	- 0.0	0.1	- 0.1	1.7	- 0.1	1.6	- 1.3	27.6	- 20.7	60.3	Apr.
1.1	- 1.1	- 0.0	- 0.0	- 0.5	- 0.3	- 1.2	- 0.1	5.1	- 0.6	- 21.9	3.5	- 82.0	May
2.0	2.8	- 0.0	0.0	0.0	1.0	- 1.3	- 0.2	- 1.3	- 0.1	4.6	16.4	- 10.8	June
- 0.3	1.2	- 0.0	- 0.0	8.3	8.3	1.3	- 0.2	3.3	- 1.2	10.9	- 4.3	33.3	July
- 1.3	- 0.8	- 0.0	- 0.0	9.8	9.8	- 0.5	0.0	- 2.2	- 0.4	- 14.9	5.7	- 83.7	Aug.
1.6	2.4	- 0.0	- 0.0	9.6	9.2	- 0.5	0.7	10.5	0.0	2.6	19.6	14.9	Sep.
3.4	3.2	- 0.0	- 0.0	7.0	7.5	0.3	0.1	- 2.9	- 1.0	- 0.1	- 8.2	- 15.5	Oct.
0.1	- 0.7	- 0.0	- 0.0	1.2	1.0	7.6	- 0.2	- 6.8	- 3.1	8.9	3.6	- 38.0	Nov.

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. 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*

_			
€	bi	llıc)r

	C DIMOTI	c billion											
				Lending to b	anks (MFIs)		Lending to r	on-banks (no	n-MFIs)				
					of which:			of which:					
			Carlo in					Loans					
			Cash in hand and										
	Number of	<u>.</u> .	credit balances					for	,				
End of	reporting institu-	Balance sheet	with central	T-4-1	Balances and	Securities issued by	T-4-1	up to and including	for more than	D:II-	Securities issued by	Partici- pating	Other
month	All cated	ories of b	banks	Total	loans	banks	Total	1 year	1 year	Bills	non-banks	interests	assets 1
2020 luna				1 22042	1,880.4	1000	1 4505	1 405.3	1 2 220 4		l 600.7	I 09.1	1 220 0 1
2020 June July	1,530 1,527	9,082.2 9,126.2	819.6 859.0	2,384.2 2,353.6	1,853.2	498.9 495.7	4,459.5 4,454.7	405.3 405.3	3,339.4 3,348.1	0.3	690.7 678.0	98.1 98.5	1,320.8 1,360.4
Aug. Sep.	1,526 1,518	9,043.3 9,155.2	810.5 933.3	2,414.9 2,378.2	1,917.9 1,882.3	492.4 491.2	4,449.5 4,456.2	389.7 383.5	3,361.2 3,371.2	0.3 0.3	673.5 677.6	98.4 98.5	1,269.9 1,289.1
Oct.	1,511	9,183.4	859.7	2,462.0	1,968.1	489.5	4,490.9	389.4	3,387.4	0.3	688.4	98.6	1,272.1
Nov.	1,501			2,409.0	1,918.2	486.5	4,506.7	390.6	3,396.3	0.3	698.2	97.3	1,231.0
2020 Oct		cial banks		002.1	l 011.0	I 90.F	1 400 3	1 240.7	020.1	0.3	J 212.F	1 26.0	072.61
2020 Oct. Nov.	260 257						1,409.3 1,417.4						
	Big bar	nks ⁷											
2020 Oct. Nov.	3 3	2,270.1 2,244.8					670.4 673.0						892.1 860.8
		•		commerc		. 33	075.01	23		0.0		23.3	000.01
2020 Oct.	146	1,164.1	193.3	269.7	223.8								75.7
Nov.	144				196.0	45.1	631.4	84.1	442.0	0.1	102.4	5.3	74.5
2020 Oct.	Branch 111		ign banks 120.9		I 100 4	1.5	118.8	J 20.2	l 73.6	0.1			I 50I
Nov.	110						113.0		72.6 70.5	0.1 0.1			5.9 8.7
	Landesba	anken											
2020 Oct. Nov.	6 6												
	Savings k												•
2020 Oct.	377	1,446.4					1,097.0		878.4	0.0	170.5		
Nov.	377	1,455.8	137.0	179.4	61.3	117.9	1,102.4	46.9	883.4	0.0	171.5	14.9	22.2
	Credit co	operative	S										
2020 Oct.	822 815												
Nov.			46.0	195.5	02.5	112.6	779.9	32.9	020.1	0.0	1 110.0	10.2	23.0
2020 Oct.	Mortgag 10		8.6	23.2	13.3	9.8	200.9	3.3	178.4	l -	19.1	0.2	8.6
Nov.	10	240.3	8.4	21.7				3.3			18.9		8.6
	Building		associatio										
2020 Oct. Nov.	18 18			45.8 45.5	29.8 29.4				164.6 165.5	:	25.3 25.5		3.9 3.9
	Banks wi	th special	, develop	ment and	other cer	ntral supp	ort tasks						
2020 Oct.	18	1,443.8	111.5	781.2	683.8	94.8	412.5		289.8 290.9				
Nov.	18		l 124.8 eign banks		676.3	94.2	413.7	20.0	290.9	0.0	99.0	20.0	116.21
2020 Oct.	145		_		415.4	37.3	560.9	104.2	355.5	0.2	96.4	3.7	l 155.7 l
Nov.	144	1,430.2	263.5	451.8	413.8	37.5				0.2	98.9	3.7	155.7 147.3
	of whic			-owned b									
2020 Oct. Nov.	34 34	973.1 985.6									90.1 92.9	3.0 3.0	149.8 138.6

^{*} 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 (Handels-

gesetzbuch) read in conjunction with Section 35(1) number 1a of the Credit Institution Accounting Regulation (Verordnung über die Rechnungslegung der Kredit-institute) are classified under "Other assets and liabilities" as of the December 2010 reporting date. Trading portfolio derivatives are listed separately in Statistical Supplement 1 to the Monthly Report – Banking statistics, in Tables I.1 to 1.3. 2 For building and loan associations: including deposits under savings and loan contracts (see Table IV.12). 3 Included in time deposits. 4 Excluding deposits under savings and

	Deposits of	banks (MFIs)		Deposits of	non-banks (r	non-MFIs)							Capital		
ľ		of which:			of which:								including published		
						Time deposi	ts 2		Savings dep	osits 4			reserves, partici-		
	Total	Sight deposits	Time deposits	Total	Sight deposits	for up to and including 1 year	for more than 1 year 2	Memo item: Liabilities arising from repos 3	Total	of which: At 3 months' notice	Bank savings bonds	Bearer debt securities out- standing 5	pation rights capital, funds for general banking risks	Other liabi- lities 1	End of month
												All ca	tegories	of banks	
	2,065.1	603.9	1,461.1	4,042.0	2,530.5	270.4	640.1	36.8	569.0	538.6	32.1	1,179.5	539.1	1,256.6	2020 June
	2,051.8 2,040.4 2,084.0	614.3 601.0 610.3	1,437.5 1,439.3 1,473.7	4,074.1 4,084.0 4,103.9	2,553.4 2,562.5 2,588.3	282.3 279.1 270.4	639.4 643.9 647.6	41.9 40.8 34.1	567.3 567.0 566.5	537.5 537.6 537.4	31.8 31.5 31.1	1,162.0 1,162.2 1,188.5	540.2 540.0 544.8	1,298.1 1,216.6 1,234.1	July Aug. Sep.
	2,096.9 2,081.7	618.8 625.9	1,478.0 1,455.7	4,143.6 4,174.2	2,624.0 2,669.5	270.4 256.8	652.5 651.6	33.0 40.3	566.0 565.8	537.4 537.7	30.7 30.4	1,175.0 1,169.3	546.6 545.9	1,221.3 1,183.4	Oct. Nov.
												Co	mmercia	banks ⁶	
	1,025.9 1,010.0	447.7 452.3	578.2 557.7	1,630.1 1,645.1	1,115.2 1,138.5			30.6 37.8	98.1 98.3						2020 Oct. Nov.
													Big k	anks ⁷	
	471.7 443.3	170.7 172.4	301.0 270.9	793.3 824.7	529.4 571.6			30.4 33.8							2020 Oct. Nov.
									•				mercial b		
	306.1 310.0	119.9 119.3	186.1 190.7	667.8 651.6	470.9 451.3		127.9 129.3	0.2 4.1			10.8 10.7	42.1 42.0		56.8 61.4	2020 Oct. Nov.
													foreign b	_	
	248.2 256.7	157.1 160.6	91.1 96.1	169.0 168.8	115.0 115.5		21.3 22.2	_	0.3 0.4	0.3 0.4					2020 Oct. Nov.
														sbanken	
	283.7 279.8	61.8 59.3	221.9 220.6	256.9 252.3	137.7 139.6			2.2							2020 Oct. Nov.
	470.0													gs banks	
	172.3 171.5	5.3 4.4	167.0 167.1	1,081.9 1,092.2	765.1 776.0			- -	277.9 277.6						2020 Oct. Nov.
												Cr	edit coo	eratives	
	147.6 147.9	1.8 1.5	145.8 146.4	777.9 784.5	548.0 555.0			- -	183.4 183.3						2020 Oct. Nov.
													Mortgag	-	
	59.8 59.8	3.1 3.1	56.7 56.7	65.2 64.8	2.0 2.6	4.3 3.9		- -	-	- -	:	98.6 98.2	10.7 10.7		2020 Oct. Nov.
													loan asso	_	
	27.6 28.7	2.3 2.7	25.2 26.0	188.3 188.1		1.2	183.1		0.4 0.4		0.1	2.8	12.3	11.6	2020 Oct. Nov.
									pecial, de	•			• •		
	379.9 383.9		283.2 281.2							-		702.6 697.0	82.2	137.6	2020 Oct. Nov.
	547.0		254.4		452.0		740		100	10.5			Foreign		2020 0 1
	547.2 556.6		251.4 263.1					9.8	19.0	18.6	3.8	35.8	69.4	139.0	2020 Oct. Nov.
							'		of which				-		
	299.0 299.9		160.4 167.0				53.5 53.9	1.4 9.8	18.6 18.6	18.3 18.3	3.8 3.7	35.7 35.4	59.5 59.6	132.6 130.2	2020 Oct. Nov.

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; 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 Nov. 2009), Commerzbank AG, UniCredit Bank AG (formerly Bayerische Hypo- und

Vereinsbank AG), Deutsche Postbank AG (from December 2004 up to April 2018) and DB Privat- und Firmenkundenbank AG (from May 2018) (see the explanatory notes in the Statistical Supplement to the Monthly Report 1, Banking statistics, Table I.3, banking group "Big banks"). 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.

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

£	hil	llion

			Lending to d	omestic bank	s (MFIs)				Lending to d	omestic non-	banks (non-N	IFIs)	
Period	Cash in hand (euro area banknotes and coins)	Credit balances with the Bundes- bank	Total	Credit balances and loans	Bills	Negotiable money market paper issued by banks	Securities issued by banks	Memo item: Fiduciary loans	Total	Loans	Bills	Treasury bills and negotiable money mar- ket paper issued by non-banks	Securities issued by non- banks 1
											En	d of year o	month *
2010 2011 2012 2013 2014	16.0 15.8 18.5 18.5 18.9	79.6 93.8 134.3 85.6 81.3	1,686.3 1,725.6 1,655.0 1,545.6 1,425.9	1,195.4 1,267.9 1,229.1 1,153.1 1,065.6	- - 0.0 0.0	7.5 7.1 2.4 1.7 2.1	483.5 450.7 423.5 390.8 358.2	1.8 2.1 2.4 2.2 1.7	3,220.9 3,197.8 3,220.4 3,131.6 3,167.3	2,770.4 2,774.6 2,785.5 2,692.6 2,712.2	0.8 0.8 0.6 0.5 0.4	27.9 6.4 2.2 1.2 0.7	421.8 415.9 432.1 437.2 454.0
2015 2016 2017 2018 2019	19.2 25.8 31.9 40.4 43.2	155.0 284.0 392.5 416.1 476.6	1,346.6 1,364.9 1,407.5 1,323.5 1,254.7	1,062.6 1,099.8 1,163.4 1,083.8 1,016.2	0.0 0.0 0.0 0.0 0.0	1.7 0.8 0.7 0.8 0.7	282.2 264.3 243.4 239.0 237.9	1.7 2.0 1.9 5.9 4.5	3,233.9 3,274.3 3,332.6 3,394.5 3,521.5	2,764.0 2,823.8 2,894.0 2,990.2 3,119.2	0.4 0.3 0.4 0.2 0.3	0.4 0.4 0.7 0.2 3.3	469.0 449.8 437.5 403.9 398.7
2019 June July Aug.	37.7 37.2 38.0	477.9 460.1 462.1	1,362.5 1,355.5 1,365.8	1,121.2 1,113.6 1,126.4	0.0 0.0 0.0	0.9 0.9	240.3 241.0 238.4	5.2 5.1 4.8	3,467.1 3,476.1 3,491.7	3,067.0 3,075.1 3,087.2	0.2 0.2 0.2	1.3 2.3 2.9	398.5 398.6 401.4
Sep. Oct. Nov. Dec.	37.8 39.0 39.9 43.2	452.7 529.1 529.6 476.6	1,354.1 1,252.1 1,301.7 1,254.7	1,115.7 1,013.6 1,059.6 1,016.2	0.0 0.0 0.0 0.0	0.8 0.9 1.1 0.7	237.6 237.6 241.0 237.9	4.7 4.6 4.6 4.5	3,499.8 3,506.7 3,523.5 3,521.5	3,094.5 3,104.5 3,121.1 3,119.2	0.2 0.2 0.2 0.3	3.8 3.4 3.3 3.3	401.3 398.6 398.9 398.7
2020 Jan. Feb. Mar.	39.2 40.0 47.9	515.2 509.4 621.7	1,256.9 1,280.0 1,273.0	1,015.4 1,035.2 1,029.4	0.0 0.0 0.0	0.8 0.9 1.0	240.7 243.8 242.6	4.6 5.0 5.1	3,528.4 3,544.7 3,580.0	3,125.8 3,141.9 3,174.1	0.3 0.3 0.2	3.3 4.6 5.1	399.1 397.8 400.6
Apr. May June	48.4 47.8 45.7	582.3 586.2 767.6	1,334.6 1,291.8 1,270.4	1,090.6 1,044.7 1,019.6	0.0 0.0 0.0	1.2 1.1 1.1	242.8 246.0 249.6		3,594.3 3,620.9 3,621.1	3,185.3 3,204.2 3,206.6	0.2 0.1 0.2	7.2 10.1 8.0	401.6 406.4 406.2
July Aug. Sep.	45.2 45.7 45.8	810.5 760.8 884.4	1,270.5 1,348.1 1,293.9	1,019.2 1,096.7 1,041.1	0.0 0.0 0.0	1.2 1.1 1.0	250.0 250.3 251.8	7.5 7.8 8.3	3,625.7 3,629.7 3,634.2	3,217.2 3,219.6 3,224.4	0.2 0.2 0.2	8.0 9.4 8.4	400.3 400.5 401.3
Oct. Nov.	46.1 45.4	811.0 862.0	1,397.3 1,353.1	1,145.2 1,102.4	0.0	0.8	251.2 249.8	8.6 8.6	3,651.1 3,661.1	3,237.6 3,247.4	0.2 0.2	9.0 7.6	404.3 405.8
2011	- 0.2	l . 14.2	+ 47.3	+ 80.5		- 0.4	- 32.8	- 0.1	- 30.6	l – 3.2	+ 0.0) 21.5 –	Changes * I – 5.91
2012 2013 2014	+ 2.7 + 0.0 + 0.4	+ 14.2 + 40.5 - 48.8 - 4.3	+ 47.3 - 68.6 - 204.1 - 119.3	+ 80.5 - 37.5 - 170.6 - 87.1	+ 0.0 + 0.0	- 0.4 - 4.6 - 0.7 + 0.4	- 32.6 - 26.5 - 32.7 - 32.6	+ 0.1 - 0.2	+ 21.0 + 4.4 + 36.7	- 3.2 + 9.8 + 0.3 + 20.6	+ 0.0 - 0.2 - 0.1 - 0.1	- 21.5 - 4.3 - 0.6 - 0.6	- 5.9 + 15.7 + 4.8 + 16.8
2015 2016 2017 2018 2019	+ 0.3 + 6.5 + 6.1 + 8.5 + 2.8	+ 73.7 +129.1 +108.4 + 24.0 + 59.7	- 80.7 + 48.1 + 50.3 - 81.0 - 63.0	- 4.3 + 66.9 + 70.4 - 76.6 - 61.1	- 0.0 - 0.0 + 0.0 - 0.0	- 0.4 - 0.9 + 0.0 + 0.1 - 0.2	- 75.9 - 17.9 - 20.1 - 4.4 - 1.6	- 0.1 + 0.4 - 0.1 + 3.8 - 1.4	+ 68.9 + 43.7 + 57.0 + 71.5 + 126.7	+ 54.1 + 62.8 + 70.2 + 105.4 + 129.1	- 0.0 - 0.1 + 0.0 - 0.1 + 0.1	- 0.3 - 0.1 + 0.4 - 0.5 + 3.1	+ 15.1 - 18.9 - 13.6 - 33.2 - 5.5
2019 June	- 0.0	- 39.7	- 9.2	- 8.4	_	+ 0.2	- 0.9	- 0.3	+ 21.5	+ 17.5	+ 0.1	- 0.1	+ 4.1
July Aug. Sep.	- 0.5 + 0.8 - 0.2	- 17.7 + 1.9 - 9.4	- 7.2 + 10.3 - 9.2	- 7.8 + 12.9 - 8.2	+ 0.0 + 0.0 - 0.0	- 0.1 + 0.0 - 0.1	+ 0.7 - 2.6 - 0.8		+ 9.2 + 15.6 + 8.1	+ 8.3 + 12.1 + 7.3	- 0.1 + 0.0 - 0.1	+ 0.9 + 0.6 + 0.9	+ 0.0 + 2.8 - 0.1
Oct. Nov. Dec.	+ 1.2 + 0.9 + 3.3	+ 76.4 + 0.4 - 53.0	- 102.1 + 49.6 - 46.9	- 102.2 + 46.0 - 43.5	- 0.0 - 0.0	+ 0.1 + 0.1 - 0.4	- 0.0 + 3.4 - 3.1	- 0.1 + 0.0 - 0.1	+ 6.9 + 16.8 - 1.9	+ 10.0 + 16.6 - 1.9	- 0.0 + 0.0 + 0.1	- 0.3 - 0.2 + 0.0	- 2.8 + 0.3 - 0.1
2020 Jan. Feb. Mar.	- 4.0 + 0.8 + 7.8	+ 38.6 - 5.9 +112.4	+ 2.3 + 23.1 - 7.0	- 0.7 + 19.8 - 5.9	- 0.0 - 0.0 -	+ 0.1 + 0.1 + 0.1	+ 2.9 + 3.1 - 1.3	+ 0.1 + 0.4 + 0.0	+ 6.8 + 16.3 + 35.3	+ 6.5 + 16.2 + 32.1	- 0.1 + 0.1 - 0.1	- 0.0 + 1.4 + 0.4	+ 0.4 - 1.3 + 2.8
Apr. May June	+ 0.5 - 0.6 - 2.1	- 39.4 + 3.9 +181.4	+ 61.6 + 16.9 - 21.4	+ 61.2 + 13.7 - 25.0	+ 0.0	+ 0.2 - 0.1 - 0.0	+ 0.2 + 3.2 + 3.6		+ 14.4 + 24.1 + 0.2	+ 11.2 + 16.4 + 2.4	- 0.1 - 0.0 + 0.0	+ 2.2 + 2.9 - 2.1	+ 1.0 + 4.8 - 0.2
July Aug. Sep.	- 0.5 + 0.5 + 0.1	+ 42.9 - 49.7 +123.6	+ 0.1 + 77.6 - 54.2	- 0.4 + 77.5 - 55.6	- 0.0 + 0.0	+ 0.1 - 0.2 - 0.0	+ 0.4 + 0.3 + 1.5	+ 0.3 + 0.5	+ 4.6 + 4.0 + 4.6	+ 10.5 + 2.4 + 4.8	- 0.0 + 0.0 + 0.0	+ 0.0 + 1.4 - 1.0	- 5.9 + 0.2 + 0.7
Oct. Nov.	+ 0.2 - 0.6	- 73.5 + 51.2	+ 103.4 - 15.9	+ 104.2 - 14.5	- 0.0	- 0.2 - 0.0	- 0.6 - 1.5		+ 16.5 + 10.6	+ 12.9 + 10.5	+ 0.0 - 0.0	+ 0.6 - 1.4	+ 3.0 + 1.5

^{*} 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 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;

			<u> </u>	1	1 (1)	Denosits of domestic non-hanks (non-MFIs)								
	Т	Partici-	Deposits of	domestic ba	nks (MFIs) 3	Ι	Г	Deposits of domestic non-banks (non-MFIs)						
Equalisa- tion claims 2	Memo item: Fiduciary loans	pating interests in domestic banks and enterprises	Total	Sight deposits 4	Time deposits 4	Redis- counted bills 5	Memo item: Fiduciary loans	Total	Sight de- posits	Time deposits 6	Savings de- posits 7	Bank savings bonds 8	Memo item: Fiduciary loans	Period
End of y	ear or m	onth *												
- - - -	33.7 36.3 34.8 31.6 26.5	96.8 94.6 90.0 92.3 94.3	1,238.3 1,210.5 1,135.5 1,140.3 1,111.9	135.3 114.8 132.9 125.6 127.8	1,102.6 1,095.3 1,002.6 1,014.7 984.0	0.0 0.0 0.0 0.0 0.0	13.8 36.1 36.3 33.2 11.7	3,045.5 3,090.2 3,048.7	1,104.4 1,168.3 1,306.5 1,409.9 1,517.8	1,117.1 1,156.2 1,072.5 952.0 926.7	618.2 616.1 617.6 610.1 607.8	104.8 93.6 76.6	37.5 36.5 34.9 32.9 30.9	2010 2011 2012 2013 2014
- - - -	20.4 19.1 19.1 18.0 17.3	89.6 91.0 88.1 90.9 90.4	1,065.6 1,032.9 1,048.2 1,020.9 1,010.2	131.1 129.5 110.7 105.5 107.2	934.5 903.3 937.4 915.4 902.9	0.0 0.1 0.0 0.0 0.0	6.1 5.6 5.1 4.7 4.4	3,420.9 3,537.6 3,661.0	1,673.7 1,798.2 1,941.0 2,080.1 2,236.3	898.4 889.6 853.2 841.5 816.2	596.5 588.5 582.9 578.6 575.2	50.4 43.7 37.3 33.2	29.3 28.8 30.0 33.9 32.5	2015 2016 2017 2018 2019
- - -	17.5 17.1 17.1 17.0	90.9 91.0 90.3 90.0	1,047.1 1,053.9 1,061.4 1,037.5	122.5 123.2 127.7 121.4	924.6 930.6 933.7 916.1	0.0 0.0 0.0 0.0	4.6 4.5 4.5 4.5	3,616.9 3,638.4	2,150.7 2,166.5 2,189.1 2,185.4	841.2 833.9 834.4 830.3	582.7 581.8 580.3 579.0	34.7	33.4 32.9 32.7 32.6	2019 June July Aug. Sep.
- -	17.1 17.1 17.3	90.1 90.2 90.4	1,049.3 1,055.9 1,010.2	129.3 126.6 107.2	920.0 929.4 902.9	0.0 0.0 0.0	4.5 4.5 4.4	3,674.8 3,661.0	2,207.1 2,244.5 2,236.3	826.0 820.9 816.2	577.2 575.7 575.2	1	32.5 32.5 32.5	Oct. Nov. Dec.
- -	16.9 16.9 16.9 17.1	90.0 86.1 86.3 86.4	1,031.4 1,046.8 1,134.7 1,154.9	125.4 133.2 147.5 141.2	906.0 913.6 987.2 1,013.6	0.0 0.0 0.0	4.4 4.4 4.3 4.3	3,675.9 3,716.6	2,235.1 2,254.4 2,304.9 2,345.4	819.7 820.8 815.5 801.6	570.7 568.5 564.5 563.8	31.8	32.3 32.8 32.5 32.8	2020 Jan. Feb. Mar. Apr.
-	17.1 19.4 20.8 22.2	78.8 78.8 79.3	1,110.9 1,229.5 1,207.9	131.6 131.4 125.0	979.3 1,098.1 1,082.8	0.0 0.0 0.0	7.1 9.4 11.1	3,775.3	2,376.3 2,385.3 2,414.0	804.7 788.2 798.6	563.6 562.6 560.9	30.7	33.3 33.4 33.8	May June July
-	22.5 22.7 22.8	79.2 79.2 79.4	1,211.5 1,251.5 1,263.7	126.2 123.8 131.5	1,085.3 1,127.8 1,132.2	0.0 0.0 0.0	11.5 12.0 12.3	3,820.8 3,834.2	2,427.7 2,442.8 2,481.4	802.9 802.0	560.6 560.1 559.7		34.0 34.3	Aug. Sep. Oct.
Change:		78.1	1,244.8	134.6	1,110.2	0.0	12.5	3,894.2	2,515.3	790.8	559.6	28.5	34.4	Nov.
l -	S - 1.1	- 2.2	- 25.0	- 20.0	- 5.1	- 0.0	+ 0.1	+ 111.2	+ 63.7	+ 40.9	- 2.6	+ 9.3	1.1	2011
-	- 1.3 - 3.3 - 1.9	- 4.1 + 2.4 + 2.0	- 70.8 - 79.4 - 29.0	+ 21.5 - 24.1 + 2.2	- 91.9 - 55.3 - 31.2	- 0.0 + 0.0 - 0.0	+ 0.2 - 3.4 - 0.6	+ 42.2 + 40.2 + 69.7	+ 138.7 + 118.4 + 107.9	- 86.7 - 53.9	+ 1.5 - 7.4 - 2.4	- 11.2 - 17.0	- 1.6 - 1.7 - 2.0	2012 2013 2014
- - - -	- 2.1 - 1.3 - 0.0 - 1.0 - 0.7	- 4.3 + 1.5 - 1.6 + 3.1 + 0.1	- 46.6 - 1.7 + 11.0 - 25.0 - 8.6	+ 3.3 + 0.3 - 18.4 - 3.1 + 1.6	- 50.0 - 2.0 + 29.4 - 21.9 - 10.2	+ 0.0 + 0.0 - 0.0 + 0.0 + 0.0	- 1.3 - 0.5 - 0.5 - 0.4 - 0.3	+ 104.7 + 103.1 + 117.7 + 122.5	+ 124.5 + 142.8 + 139.3 + 155.8	- 28.3 - 6.9 - 27.5 - 10.8 - 25.7	- 11.3 - 7.9 - 5.6 - 4.3 - 3.5	- 5.0 - 6.7 - 6.5 - 4.1	- 1.6 - 0.5 + 0.4 + 3.9 - 1.4	2015 2016 2017 2018 2019
- - -	- 0.1 - 0.4 + 0.0 - 0.1	- 0.1 + 0.0 - 0.6 + 0.1	- 9.2 + 6.8 + 7.6 - 21.4	+ 1.2 + 0.7 + 4.5 - 6.3	- 10.4 + 6.0 + 3.1 - 15.2	- 0.0 + 0.0 + 0.0 - 0.0	- 0.1 - 0.0 - 0.0	+ 21.4	+ 22.6	+ 0.1 - 7.6 + 0.5 - 4.1	+ 0.2 - 0.9 - 1.5 - 1.3	- 0.1 - 0.1	- 0.3 - 0.5 - 0.2 - 0.2	2019 June July Aug. Sep.
- -	+ 0.1 - 0.0 + 0.1	+ 0.2 + 0.1 + 0.2	+ 11.8 + 6.7 - 45.8	+ 7.8 - 2.7 - 19.3	+ 3.9 + 9.4 - 26.4	+ 0.0 - + 0.0	- 0.0 + 0.0 - 0.1	+ 30.4 - 13.8	+ 37.4 - 8.2	- 4.6	- 1.8 - 1.6 - 0.5	- 0.3 - 0.5	- 0.0 - 0.0 - 0.0	Oct. Nov. Dec.
- - -	- 0.3 - 0.0 - 0.1 + 0.3	- 0.4 - 3.9 + 0.2 + 0.1 - 0.2	+ 21.2 + 15.4 + 87.9 + 20.2	+ 18.2 + 7.8 + 14.3 - 6.2 - 4.6	+ 3.1 + 7.6 + 73.7 + 26.4 + 20.3	- 0.0 - 0.0 + 0.0 + 0.0 - 0.0	- 0.0 + 0.0 - 0.0 + 0.0 + 2.7	+ 17.7 + 40.7 + 25.3	+ 19.3 + 50.5 + 40.7	- 5.3 - 14.0	- 4.5 - 2.2 - 4.0 - 0.7 - 0.2	- 0.4 - 0.4 - 0.7	- 0.1 + 0.4 - 0.2 + 0.2	2020 Jan. Feb. Mar. Apr.
- - -	+ 2.2 + 1.5 + 0.9 + 0.3	+ 0.0 + 0.5 - 0.1	+ 15.6 + 118.6 - 21.7 + 3.7	- 0.2 - 6.4 + 1.2	+ 118.8 - 15.2 + 2.4	- 0.0 - 0.0 + 0.0	+ 2.3 + 1.2 + 0.4	- 9.0 + 37.1 + 17.4	+ 8.8 + 28.7 + 13.6	- 16.4 + 10.5 + 4.3	- 1.1 - 1.6 - 0.2	- 0.4 - 0.4 - 0.3	+ 0.4 + 0.2	May June July Aug.
- - -	+ 0.2 + 0.1 + 0.2	+ 0.0 + 0.2 + 0.1	+ 40.0 + 12.2 + 8.3	- 2.5 + 7.7 + 3.5	+ 42.5 + 4.4 + 4.8	+ 0.0 - 0.0	+ 0.5 + 0.2 + 0.3	+ 40.0	+ 38.6	+ 2.2	- 0.5 - 0.4 - 0.2	- 0.4		Sep. Oct. Nov.

including subordinated liabilities. 4 Including liabilities arising from monetary policy operations 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). **8** Including liabilities arising from non-negotiable bearer debt securities.

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

		Lending to	foreign bank	s (MFIs)					Lending to	foreign non-	banks (non-M	/IFIs)		
	Cash in hand (non-		Credit balar	nces and loar	ns, bills	Negotiable money				Loans and b	oills		Treasury bills and negotiable money	
Period	euro area banknotes and coins)	Total	Total	Short- term	Medium and long- term	market paper issued by banks	Securities issued by banks	Memo item: Fiduciary loans	Total	Total		Medium and long- term	market paper issued by non-banks	Securities issued by non-banks
												End	of year o	r month *
2010 2011 2012 2013	0.5 0.6 0.8 0.2	1,154.1 1,117.6 1,046.0 1,019.7	892.7 871.0 813.5 782.4	607.7 566.3 545.5 546.6	285.1 304.8 268.1 235.8	2.1 4.6 5.4 7.2	259.3 241.9 227.0 230.1	1.8 2.6 2.6 2.5	773.8 744.4 729.0 701.0	461.4 455.8 442.2 404.9	112.6 102.0 105.1 100.3	348.8 353.8 337.1 304.6	10.1 8.5 9.0 8.2	280.1
2014	0.2	1,125.2	884.8	618.7	266.1	7.9	232.5	1.1	735.1	415.2	94.4	320.8	6.5	313.5
2015 2016 2017 2018 2019	0.3 0.3 0.3 0.2 0.2	1,066.9 1,055.9 963.8 1,014.1 1,064.2	830.7 820.6 738.2 771.9 814.0	555.9 519.8 441.0 503.8 532.7	274.7 300.7 297.2 268.1 281.3	1.2 0.5 0.7 1.0 1.8	235.0 234.9 225.0 241.3 248.5	1.0 1.0 2.3 3.0 3.7	751.5 756.2 723.9 762.0 795.3	424.3 451.6 442.2 489.6 513.1	83.8 90.1 93.3 99.9 111.0	340.5 361.4 348.9 389.7 402.1	7.5 5.0 4.2 4.3 7.7	299.6 277.5
2019 June	0.2	1,109.3	857.3	578.3	279.0	3.1	248.9	3.8	816.2	535.9	135.8	400.1	6.6	1 1
July Aug. Sep.	0.2 0.2 0.2	1,099.0 1,099.5 1,120.8	844.6 844.9 867.0	563.6 562.8 583.4	281.0 282.1 283.5	3.3 3.4 3.9	251.1 251.1 249.9	3.8 3.9 3.9	829.3 850.7 826.7	548.2 564.8 539.6	143.9 158.0 131.1	404.3 406.8 408.5	8.6 9.4 8.6	272.5 276.4 278.5
Oct. Nov. Dec.	0.2 0.2 0.2	1,132.8 1,122.8 1,064.2	880.2 870.5 814.0	590.3 585.6 532.7	289.9 284.9 281.3	3.8 3.4 1.8	248.8 248.9 248.5	3.9 3.8 3.7	826.5 828.1 795.3	544.3 541.1 513.1	140.7 136.8 111.0	403.7 404.3 402.1	9.2 9.9 7.7	273.0 277.1 274.5
2020 Jan. Feb. Mar.	0.2 0.2 0.3	1,111.1 1,119.0 1,145.4	859.7 865.9 889.8	578.2 590.7 615.5	281.5 275.2 274.4	2.7 2.9 3.0	248.7 250.2 252.5	3.8 3.8 3.5	821.5 832.3 834.1	536.9 543.7 543.2	133.0 136.8 135.7	403.8 406.9 407.5	7.7 8.6 11.7	277.0 279.9 279.2
Apr. May June	0.3 0.3 0.3	1,156.2 1,139.4 1,113.8	899.6 884.7 860.8	626.2 613.2 592.4	273.4 271.5 268.5	2.8 3.3 3.7	253.8 251.4 249.3	3.5 3.7 3.8	843.1 849.7 838.4	552.5 559.2 538.2	142.6 152.6 134.7	410.0 406.5 403.5	11.4 12.1 15.8	278.4
July Aug. Sep.	0.3 0.3 0.2	1,083.1 1,066.8 1,084.3	834.0 821.2 841.3	574.4 563.3 583.4	259.6 257.9 257.9	3.4 3.5 3.6	245.7 242.1 239.4	3.9 4.1 4.1	829.1 819.9 821.9	536.3 531.3 530.4	138.8 133.7 130.3	397.5 397.6 400.2	15.1 15.6 15.2	277.6 272.9
Oct. Nov.	0.3 0.2	1,064.7 1,056.0	822.9 815.8	564.5	258.5	3.5	238.3	4.1	839.8 845.6	539.3 539.5	137.7 139.8	401.6 399.7	16.5	284.1
													(Changes *
2011 2012 2013 2014	+ 0.1 + 0.1 - 0.5 - 0.0	- 48.4 - 70.1 - 22.7 + 86.1	- 32.6 - 56.8 - 26.9 + 80.1	- 45.3 - 23.1 - 1.3 + 63.2	+ 12.7 - 33.7 - 25.6 + 16.8	+ 2.5 + 0.9 + 1.8 + 0.7	- 18.4 - 14.1 + 2.4 + 5.3	+ 0.0 - 0.1 - 0.0 - 0.6	- 38.9 - 9.4 - 21.2 + 5.7	- 13.6 - 7.5 - 33.1 - 10.2	- 12.8 + 8.3 - 5.8 - 12.8	- 0.9 - 15.9 - 27.2 + 2.7	- 1.6 + 0.6 - 0.7 - 1.8	- 2.5 + 12.6
2015 2016 2017 2018 2019	+ 0.1 + 0.0 + 0.0 + 0.0 - 0.0	- 91.8 - 25.5 - 57.2 + 49.6 - 4.1	- 86.0 - 14.5 - 48.7 + 34.0 - 11.3	- 82.2 - 38.2 - 61.5 + 57.7 - 21.9	- 3.8 + 23.7 + 12.8 - 23.7 + 10.7	- 6.7 - 0.7 + 0.0 + 0.2 + 0.8	+ 0.8 - 10.3 - 8.5 + 15.3 + 6.3	- 0.1 - 0.0 + 0.6 + 0.7 + 0.7	- 6.1 + 17.4 - 4.7 + 18.3 + 26.8	- 9.2 + 28.9 + 13.0 + 28.3 + 19.9	- 6.5 + 10.1 + 8.6 + 3.2 + 12.7	- 2.7 + 18.8 + 4.4 + 25.2 + 7.3	+ 1.1 - 3.0 + 0.7 - 0.4 + 3.0	- 18.4 - 9.7
2019 June	+ 0.0	+ 23.8	+ 21.3	+ 15.8	+ 5.5	+ 0.3	+ 2.2	+ 0.2	- 0.1	- 3.7	- 3.2	- 0.5	+ 0.2	+ 3.4
July Aug. Sep.	- 0.0 + 0.0 - 0.0	- 15.1 - 3.6 - 0.2	- 17.4 - 3.5 + 0.7	- 17.3 - 3.1 + 1.2	- 0.1 - 0.3 - 0.5	+ 0.2 + 0.1 + 0.4	+ 2.1 - 0.2 - 1.4	+ 0.0 + 0.0 + 0.0	+ 10.2 + 19.0 - 10.5	+ 9.9 + 14.5 – 11.3	+ 7.7 + 13.9 - 10.7	+ 2.2 + 0.6 - 0.5	+ 2.0 + 0.8 - 0.9	
Oct. Nov. Dec.	+ 0.0 - 0.0 + 0.0	+ 18.1 - 14.2 - 53.1	+ 18.9 - 13.8 - 51.2	+ 9.8 - 6.7 - 50.3	+ 9.1 - 7.1 - 0.9	- 0.1 - 0.4 - 1.5	- 0.8 - 0.0 - 0.4	- 0.1 - 0.1 - 0.1	+ 2.9 - 1.7 - 29.1	+ 7.5 - 6.1 - 24.9	+ 10.1 - 4.7 - 24.9	- 2.6 - 1.4 - 0.0	+ 0.7 + 0.7 - 2.3	- 5.2 + 3.7 - 1.9
2020 Jan. Feb. Mar.	- 0.0 + 0.0 + 0.0	+ 42.2 + 6.5 + 27.5	+ 41.2 + 4.7 + 24.9	+ 43.2 + 11.5 + 25.3	- 1.9 - 6.8 - 0.4	+ 0.9 + 0.3 + 0.1	+ 0.1 + 1.5 + 2.5	+ 0.1 - 0.0 - 0.3	+ 23.1 + 10.1 + 3.6	+ 21.1 + 6.4 + 1.1	+ 21.4 + 3.7 - 0.7	- 0.3 + 2.7 + 1.7	+ 0.0 + 0.9 + 3.1	+ 1.9 + 2.8 - 0.6
Apr. May June	+ 0.0 - 0.0 + 0.0	+ 7.4 - 22.7 - 23.5	+ 6.5 - 21.4 - 21.8	+ 5.5 - 22.6 - 19.6	+ 1.0 + 1.2 - 2.2	- 0.2 + 0.5 + 0.3	+ 1.1 - 1.8 - 2.0	- 0.0 + 0.2 + 0.1	+ 6.5 + 3.2 - 9.8	+ 7.2 + 2.4 – 19.7	+ 6.3 + 2.5 - 17.5	+ 0.9 - 0.1 - 2.2	- 0.3 + 0.7 + 3.7	- 0.4 + 0.1 + 6.2
July Aug. Sep.	- 0.0 - 0.0 - 0.0	- 17.9 - 14.4 + 13.9	- 14.4 - 11.1 + 16.6	- 11.2 - 10.0 + 18.2	- 3.2 - 1.1 - 1.6	- 0.2 + 0.1 + 0.1	- 3.3 - 3.4 - 2.8	+ 0.1 + 0.1 - 0.0	- 0.9 - 8.4 + 0.1	+ 5.3 - 4.2 - 2.5	+ 5.9 - 4.8 - 3.8	- 0.6 + 0.6 + 1.3	- 0.7 + 0.5 - 0.4	- 5.4 - 4.7
Oct. Nov.	+ 0.0	- 20.8	- 19.5	- 19.8	+ 0.3	- 0.1	- 1.2	+ 0.1	+ 16.7	+ 7.8	+ 6.9	+ 0.9 + 0.8	+ 1.3	+ 7.6

^{*} 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.

		Deposits of	foreign bank	s (MFIs)				Deposits of	foreign non-	-banks (non-i	MFIs)			
	Partici- pating interests				its (including	bank				Time depos	its (including osits and bar			
Memo item: Fiduciary loans	in foreign banks and enter- prises	Total	Sight deposits	Total	Short- term	Medium and long- term	Memo item: Fiduciary loans	Total	Sight deposits	Total	Short- term	Medium and long- term	Memo item: Fiduciary loans	Period
End of y	ear or mo	nth *												
15.6 32.9 32.6 30.8 14.0	45.0 46.4 39.0 35.6	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	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 13.1 12.1 11.8 11.5 12.8	21.3	611.9 696.1 659.0 643.1 680.6 787.2	323.4 374.4 389.6 370.6 339.3 471.3	288.5 321.6 269.4 272.5 341.2 315.9	203.8 234.2 182.4 185.6 243.2 225.1	84.7 87.5 87.0 86.8 98.0	0.1 0.0 0.0 0.0 - 1.3	201.1 206.2 241.2 231.5 229.8 265.6	102.6 100.3 109.4 110.2 112.3	98.5 105.9 131.8 121.3 117.4 138.8	49.3 55.2 68.1 63.7 60.5	49.2 50.8 63.8 57.6 57.0	0.7 0.7 0.3 0.1 0.1	2015 2016 2017 2018 2019 2019 June
12.8 12.8 12.8	22.0 22.0 22.2	768.5 779.4 806.6 787.8	460.7 436.0 440.4 430.9	307.8 343.4 366.2 356.9	214.3 247.8 269.8 259.3	93.5 95.6 96.4 97.6	1.3 1.3 1.3	262.9 274.2 244.6 251.8	126.2 127.1 123.1 119.9	136.7 147.1 121.5 131.9	79.5 90.2 63.1 73.3	57.2 56.9 58.4 58.6	0.1 0.1 0.1 0.1	July Aug. Sep. Oct.
12.6 12.6 11.5 11.4 11.4		790.4 680.6 756.2 770.5	452.4 339.3 433.4 433.8	338.0 341.2 322.8 336.7	239.5 243.2 223.1 230.1	98.5 98.0 99.8 106.6	1.1	251.6 229.8 247.8 255.3	120.5 112.3 121.8 129.1	131.1 117.4 126.0 126.2	72.4 60.5 68.1 66.5	58.7 57.0 57.8 59.6	0.1 0.1 0.1 0.1	Nov. Dec. 2020 Jan. Feb.
11.4 11.4 11.4 11.3	19.0 19.0	826.9 835.3 828.1 835.5	463.3 438.6 459.2 472.5	363.6 396.7 368.9 363.0	250.9 288.0 260.8 247.2	112.6 108.7 108.0 115.9	- - - -	269.0 274.1 280.8 275.7	146.3 143.0 150.9 145.2	122.7 131.1 129.9 130.5	62.8 69.9 67.9 69.5	60.0 61.2 62.0 61.1	0.1 0.1 0.1 0.1	Mar. Apr. May June
11.2 11.2 11.4 11.5		843.9 828.9 832.4 833.2	489.3 474.8 486.5 487.3	354.7 354.1 345.9 345.9	238.8 238.8 226.4 224.6	115.8 115.2 119.6 121.3	- - - -	270.6 263.2 269.6 269.5	139.4 134.8 145.5 142.6	131.3 128.3 124.1 127.0	72.5 69.9 66.0 68.5	58.8 58.5 58.1 58.4	0.1 0.1 0.1 0.1	July Aug. Sep. Oct.
11.5 Change	19.0	836.8		345.5		126.5	-	279.9			66.0		0.1	Nov.
- 0.1 - 0.3 - 1.8 + 0.1	- 3.9 + 1.5	- 88.8 + 38.2 - 174.0 + 76.3	- 13.8 + 51.7 - 75.6 + 47.8	- 75.0 - 13.5 - 98.4 + 28.5	- 61.8 - 7.5 - 83.1 + 39.0	- 13.1 - 6.0 - 15.4 - 10.5	- 0.0 - 0.0 - 0.0 - 0.0	- 9.3 + 12.6 + 13.5 - 43.6	+ 6.4 + 15.2 + 9.6 - 8.3	- 15.7 - 2.6 + 3.9 - 35.3	- 10.4 + 2.5 + 6.9 - 30.7	- 5.3 - 5.1 - 3.0 - 4.6	- 0.2 - 0.1 - 0.2 + 0.2	2011 2012 2013 2014
- 0.6 - 0.1 - 1.0 - 0.2 - 0.3 - 0.2	- 1.5 - 4.1 - 2.2 - 0.9	- 15.4 + 82.7 - 15.5 - 23.9 - 9.5 + 7.2	+ 40.6 + 51.0 + 25.3 - 23.4 - 49.4 - 9.6	- 56.0 + 31.7 - 40.8 - 0.4 + 39.8 + 16.8	- 48.6 + 27.0 - 43.2 + 2.1 + 28.0 + 14.6	- 7.4 + 4.7 + 2.4 - 2.6 + 11.8 + 2.2	- 0.0 - 0.0 ± 0.0 - 0.0 - 0.0	- 26.5 + 3.5 + 31.8 - 11.9 - 0.8 + 5.4	- 13.9 - 3.1 + 11.0 - 0.2 + 2.1 + 6.6	- 12.6 + 6.7 + 20.8 - 11.8 - 2.9 - 1.2	+ 0.3 + 5.9 + 15.6 - 5.7 - 1.8 - 1.2	- 13.0 + 0.8 + 5.2 - 6.0 - 1.1	- 0.0 - 0.0 - 0.4 - 0.2 - 0.0	2015 2016 2017 2018 2019 2019 June
- 0.0 + 0.0 - 0.0 - 0.2	- 0.4 + 0.0 + 0.1	- 22.0 + 8.4 + 9.8 - 14.6	- 12.0 - 25.9 - 3.1 - 8.1	- 10.0 + 34.3 + 12.9 - 6.5	- 12.4 + 32.8 + 12.5 - 8.2	+ 2.4 + 1.5 + 0.4 + 1.7	+ 0.0 + 0.0 + 0.0 - 0.2	- 3.6 + 10.5 - 16.3 + 8.3	- 1.2 + 0.6 + 2.3 - 2.7	- 2.4 + 10.0 - 18.6 + 10.9	- 2.5 + 10.3 - 20.0 + 10.6	+ 0.1 - 0.4 + 1.4 + 0.3	+ 0.0 + 0.0 + 0.0 - 0.0	July Aug. Sep. Oct.
+ 0.0 - 1.1 - 0.1 - 0.0	- 0.2 + 0.0 - 2.4	- 0.6 - 106.0 + 73.0 + 13.3	+ 20.3 -111.5 + 92.9 + 5.0	- 20.9 + 5.5 - 19.8 + 8.4	- 21.4 + 5.5 - 21.6 + 5.9	+ 0.5 + 0.1 + 1.7 + 2.5	+ 0.0 - 1.1 - -	- 1.2 - 20.7 + 16.7 + 7.3	+ 0.2 - 7.7 + 9.2 + 7.2	- 1.4 - 12.9 + 7.6 + 0.1	- 1.4 - 11.4 + 7.4 - 1.7	- 0.0 - 1.6 + 0.2 + 1.8	+ 0.0 - 0.0 + 0.0 - 0.0	Nov. Dec. 2020 Jan. Feb.
+ 0.0 - 0.0 - 0.0 - 0.2	+ 0.0 + 0.0 + 0.1	+ 57.2 + 6.0 - 15.3 + 8.8	+ 29.9 - 25.9 + 9.3 + 13.9	+ 27.3 + 31.9 - 24.6 - 5.1	+ 21.1 + 33.0 - 24.6 - 13.1	+ 6.2 - 1.1 + 0.0 + 8.0	- - - -	+ 14.2 + 4.4 - 1.0 - 4.7	+ 17.4 - 3.7 - 0.7 - 5.6	- 3.2 + 8.1 - 0.3 + 0.9	- 3.5 + 6.9 - 1.3 + 1.8	+ 0.4 + 1.2 + 1.0 - 0.9	+ 0.0 - 0.0 + 0.0 - 0.0	Mar. Apr. May June
- 0.1 + 0.0 + 0.2 + 0.0 + 0.0	- 0.0 + 0.0 - 0.0	+ 17.6 - 13.9 + 1.0 + 0.1 + 7.9	+ 20.7 - 13.8 + 10.4 + 0.5 + 5.9	- 3.1 - 0.0 - 9.5 - 0.4 + 2.0	- 4.1 + 0.5 - 13.5 - 2.0 - 3.7	+ 1.0 - 0.5 + 4.0 + 1.6 + 5.7	- - - -		- 4.7 - 4.4 + 10.4 - 3.2 + 12.2	+ 2.0 - 2.7 - 4.6 + 2.6 - 0.6	+ 4.0 - 2.5 - 4.1 + 2.3 - 2.1	- 2.0 - 0.2 - 0.5 + 0.3 + 1.5	+ 0.0 - 0.0 + 0.0 + 0.0 - 0.0	July Aug. Sep. Oct. Nov.

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

	€ billion										
	Lending to domest non-banks, total	ic	Short-term lend	ding						Medium and lo	ng-term
	TIOH-Daliks, total			to enterprises a	nd households		to general gove	ernment			to enter-
Period	including expenses including negotiable money market paper, securities, equalisation claims	xcluding	Total	Total	Loans and bills	Negoti- able money market paper	Total	Loans	Treasury bills	Total	Total
									Е	nd of year	or month *
2010	3,220.9	2,771.3	428.0	283.0	282.8	0.2	145.0	117.2	27.7	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
2012	3,220.4	2,786.1	376.1	316.8	316.3	0.5	59.3	57.6	1.7	2,844.3	2,310.9
2013	3,131.6	2,693.2	269.1	217.7	217.0	0.6	51.4	50.8	0.6	2,862.6	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 2016 2017 2018 2019 2019 June	3,233.9 3,274.3 3,332.6 3,394.5 3,521.5 3,467.1	2,764.4 2,824.2 2,894.4 2,990.4 3,119.5 3,067.2	255.5 248.6 241.7 249.5 260.4 271.3	207.8 205.7 210.9 228.0 238.8 249.8	207.6 205.4 210.6 227.6 238.4 249.2	0.2 0.3 0.3 0.4 0.4	47.8 42.9 30.7 21.5 21.6 21.5	47.5 42.8 30.3 21.7 18.7 20.8	0.2 0.1 0.4 - 0.2 2.9	2,978.3 3,025.8 3,090.9 3,145.0 3,261.1 3,195.8	2,451.4 2,530.0 2,640.0 2,732.8 2,866.9 2,795.2
July	3,476.1	3,075.3	270.3	243.8	243.2	0.6	26.5	24.9	1.6	3,205.9	2,807.7
Aug.	3,491.7	3,087.4	266.2	238.8	238.3	0.5	27.4	25.0	2.4	3,225.5	2,825.7
Sep.	3,499.8	3,094.7	269.2	246.1	245.6	0.6	23.1	19.9	3.2	3,230.6	2,831.0
Oct.	3,506.7	3,104.7	261.6	237.1	236.5	0.6	24.5	21.6	2.8	3,245.1	2,849.5
Nov.	3,523.5	3,121.3	262.6	239.8	239.2	0.6	22.8	20.1	2.7	3,260.9	2,864.3
Dec.	3,521.5	3,119.5	260.4	238.8	238.4	0.4	21.6	18.7	2.9	3,261.1	2,866.9
2020 Jan.	3,528.4	3,126.0	261.5	236.3	235.7	0.6	25.2	22.6	2.6	3,266.9	2,874.2
Feb.	3,544.7	3,142.3	264.8	240.0	239.3	0.7	24.8	20.8	4.0	3,279.9	2,888.9
Mar.	3,580.0	3,174.3	288.4	261.9	261.1	0.8	26.4	22.2	4.2	3,291.6	2,892.2
Apr.	3,594.3	3,185.5	285.0	255.6	254.9	0.7	29.4	22.9	6.5	3,309.3	2,908.0
May	3,620.9	3,204.4	285.3	254.3	253.2	1.1	31.1	22.0	9.1	3,335.6	2,931.7
June	3,621.1	3,206.8	278.9	248.5	247.6	0.8	30.4	23.3	7.2	3,342.2	2,939.8
July	3,625.7	3,217.4	274.8	243.4	242.6	0.8	31.5	24.2	7.3	3,350.9	2,953.2
Aug.	3,629.7	3,219.7	265.6	237.7	236.9	0.8	28.0	19.4	8.6	3,364.0	2,967.3
Sep.	3,634.2	3,224.6	261.9	232.0	231.3	0.7	29.9	22.3	7.7	3,372.3	2,976.0
Oct.	3,651.1	3,237.8	261.0	229.5	228.7	0.7	31.6	23.3	8.2	3,390.1	
Nov.	3,661.1	3,247.6	258.7	229.3	228.7	0.6	29.4	22.4	7.0	3,402.4	
											Changes *
2011	- 30.6	- 3.2	- 45.2	+ 33.6	+ 33.3	+ 0.2	- 78.7	- 57.0	- 21.7	+ 14.6	+ 9.4
2012	+ 21.0	+ 9.6	- 9.7	- 1.6	- 1.7	+ 0.1	- 8.2	- 3.8	- 4.3	+ 30.7	+ 10.9
2013	+ 4.4	+ 0.1	- 13.8	- 5.8	- 6.3	+ 0.5	- 8.0	- 7.0	- 1.1	+ 18.2	+ 17.6
2014	+ 36.7	+ 20.5	- 11.6	- 4.5	- 4.5	- 0.0	- 7.1	- 6.5	- 0.6	+ 48.3	+ 52.5
2015	+ 68.9	+ 54.1	+ 1.6	- 1.3	- 0.9	- 0.4	+ 2.9	+ 2.8	+ 0.1	+ 67.2	+ 73.9
2016	+ 43.7	+ 62.7	- 5.2	- 0.3	- 0.4	+ 0.1	- 4.9	- 4.8	- 0.2	+ 48.9	+ 79.8
2017	+ 57.0	+ 70.2	- 6.5	+ 5.6	+ 5.6	+ 0.0	- 12.1	- 12.4	+ 0.3	+ 63.5	+ 103.4
2018	+ 71.5	+ 105.3	+ 6.6	+ 15.8	+ 15.7	+ 0.1	- 9.2	- 8.6	- 0.6	+ 65.0	+ 102.0
2019	+ 126.7	+ 129.1	+ 11.7	+ 11.6	+ 11.6	+ 0.0	+ 0.1	- 3.0	+ 3.1	+ 115.0	+ 132.8
2019 June	+ 21.5	+ 17.6	+ 14.0	+ 13.2	+ 13.5	- 0.3	+ 0.8	+ 0.7	+ 0.1	+ 7.5	+ 9.4
July	+ 9.2	+ 8.2	- 1.0	- 6.1	- 6.0	- 0.0	+ 5.0	+ 4.1	+ 0.9	+ 10.2	+ 12.9
Aug.	+ 15.6	+ 12.1	- 4.2	- 5.1	- 5.0	- 0.1	+ 0.9	+ 0.1	+ 0.8	+ 19.8	+ 18.2
Sep.	+ 8.1	+ 7.3	+ 3.1	+ 7.4	+ 7.3	+ 0.1	- 4.3	- 5.1	+ 0.8	+ 5.1	+ 4.8
Oct.	+ 6.9	+ 10.0	- 7.4	- 8.8	- 8.8	+ 0.0	+ 1.4	+ 1.7	- 0.4	+ 14.4	+ 18.4
Nov.	+ 16.8	+ 16.7	+ 0.9	+ 2.6	+ 2.6	- 0.0	- 1.7	- 1.5	- 0.2	+ 15.9	+ 14.9
Dec.	- 1.9	- 1.8	- 2.0	- 0.8	- 0.7	- 0.2	- 1.2	- 1.4	+ 0.2	+ 0.1	+ 2.5
2020 Jan.	+ 6.8	+ 6.5	+ 1.1	- 2.5	- 2.7	+ 0.2	+ 3.6	+ 3.8	- 0.2	+ 5.7	+ 7.2
Feb.	+ 16.3	+ 16.2	+ 3.3	+ 3.7	+ 3.6	+ 0.1	- 0.4	- 1.7	+ 1.3	+ 13.0	+ 14.7
Mar.	+ 35.3	+ 32.1	+ 23.6	+ 21.9	+ 21.8	+ 0.2	+ 1.7	+ 1.4	+ 0.3	+ 11.7	+ 3.3
Apr.	+ 14.4	+ 11.2	- 3.3	- 6.3	- 6.2	- 0.1	+ 3.0	+ 0.7	+ 2.3	+ 17.7	+ 15.9
May	+ 24.1	+ 16.4	- 2.2	- 3.9	- 4.2	+ 0.4	+ 1.7	- 0.9	+ 2.5	+ 26.3	+ 23.7
June	+ 0.2	+ 2.5	- 6.4	- 5.8	- 5.6	- 0.2	- 0.6	+ 1.3	- 1.9	+ 6.6	+ 7.9
July	+ 4.6	+ 10.5	- 5.9	- 6.9	- 6.8	- 0.1	+ 1.0	+ 0.9	+ 0.1	+ 10.5	+ 15.2
Aug.	+ 4.0	+ 2.4	- 7.5	- 4.1	- 4.1	- 0.0	- 3.5	- 4.9	+ 1.4	+ 11.5	+ 12.6
Sep.	+ 4.6	+ 4.9	- 3.7	- 5.6	- 5.6	- 0.1	+ 2.0	+ 2.9	- 0.9	+ 8.3	+ 8.6
Oct.	+ 16.5	+ 12.9	- 0.9	- 2.6	- 2.6	+ 0.0	+ 1.7	+ 1.1	+ 0.6	+ 17.4	+ 14.6
Nov.	+ 10.6	+ 10.4	- 2.1	- 0.1	+ 0.0	- 0.1	- 2.0	- 0.7	- 1.3	+ 12.7	+ 10.6

^{*} 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

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												1
ending												
orises and ho	useholds				to general go	vernment						
Loans						Loans						
Total	Medium- term	Long- term	Securities	Memo item: Fiduciary loans	Total	Total	Medium- term	Long- term	Secur- ities 1	Equal- isation claims 2	Memo item: Fiduciary loans	Perio
End of ye	ar or mont	:h *										
2,070.0 2,099.5 2,119.5 2,136.9 2,172.7 2,232.4	247.9 249.7 248.0 251.7 256.0	1,851.7 1,869.8 1,888.9 1,921.0	235.7 222.4 191.4 191.7 204.2 219.0 223.4	30.7 32.7 31.4 28.9 24.4 18.3 17.3	487.3 492.6 533.4 534.0 532.9 527.0 495.8	299.1 292.7 288.4 283.1 277.0	36.1 41.1 39.4 38.8 33.5 27.9 23.9	258.0 253.3 249.7 249.6 249.0	186.1 193.5 240.7 245.6 249.8 250.0 226.4	- - - -	3.1 3.6 3.5 2.7 2.1	2010 2011 2012 2013 2014 2015 2016
2,306.5 2,399.5 2,499.4 2,626.4 2,560.3	264.1 273.5 282.6 301.3 294.3	2,042.4 2,125.9 2,216.8 2,325.1 2,266.1	240.6 233.4 240.5 234.9	17.3 17.4 16.5 15.7	450.9 450.9 412.1 394.2 400.6	254.0 241.7 235.9	23.9 22.5 19.7 17.2 17.9	231.5 222.0 218.8	196.9 170.4 158.2 163.7	- - - -	1.8 1.7 1.4 1.5	2016 2017 2018 2019
2,571.9 2,588.9 2,594.1 2,611.0	295.2 298.3 297.2 299.7	2,276.8 2,290.5 2,296.8 2,311.3	235.8 236.8 236.9 238.5	15.8 15.9 15.8 15.9	398.2 399.7 399.6 395.6	235.2 235.2 235.5	17.4 17.4 17.0 16.9	217.8 218.2 218.6	162.8 164.5 164.4 160.1	- - - -	1.2 1.2 1.2 1.2	
2,624.4 2,626.4 2,631.8 2,646.4 2,654.8	301.6 301.3 300.0 302.5 304.5	2,322.8 2,325.1 2,331.8 2,344.0 2,350.2	240.0 240.5 242.4 242.5 237.5	15.9 15.7 15.7 15.7 15.6	396.5 394.2 392.7 391.0 399.4	235.9 236.0 235.7	17.6 17.2 17.0 17.2 17.2	218.8 219.0 218.5	158.9 158.2 156.7 155.3 163.1	- - - -	1.2 1.5 1.2 1.2 1.2	2020
2,671.3 2,692.9 2,701.4 2,715.7	307.2 310.7 310.8 312.5	2,364.1 2,382.2 2,390.6 2,403.2	236.7 238.9 238.4 237.5	15.9 18.1 19.6 21.0	401.3 403.9 402.4 397.7	236.4 236.3 234.5	17.3 17.4 17.1 16.7	219.1	164.9 167.6 167.9 162.8	- - - -	1.3 1.3 1.2 1.2	
2,729.1 2,737.4 2,751.8	313.1 313.1 313.2	2,416.0 2,424.2 2,438.6	238.2 238.6 239.7	21.3 21.5 21.6	396.7 396.3 398.6	233.7 234.0		218.1	162.3 162.6 164.6		1.2 1.2 1.2	
2,762.3 Changes '		2,450.8	239.4	21.8	400.7	234.2	15.7	218.6	166.4	-	1.2	1
+ 22.6 + 21.6 + 17.7 + 39.9	+ 2.2	+ 20.4 + 20.1 + 17.8 + 34.3	- 13.2 - 10.7 - 0.1 + 12.5	- 1.0 - 1.1 - 2.5 - 1.8	+ 5.2 + 19.8 + 0.6 - 4.1	- 6.6 - 4.3	- 1.9	- 4.7	+ 26.4	- - -	- 0.2 - 0.2 - 0.8 - 0.2	2011 2012 2013 2014
+ 59.0 + 75.1 + 87.6 + 108.7 + 126.0	+ 4.5 + 9.7 + 9.4 + 19.3 + 18.9	+ 54.6 + 65.4 + 78.2 + 89.4 + 107.2	+ 14.8 + 4.7 + 15.8 - 6.7 + 6.8	- 2.1 - 0.9 + 0.1 - 0.9 - 0.8	- 6.6 - 30.9 - 39.9 - 37.1 - 17.8	- 7.3 - 10.6 - 10.5 - 5.5	- 4.8 - 4.0 - 1.3 - 2.7 - 2.6	- 3.3 - 9.3 - 7.8 - 2.9	+ 0.2 - 23.6 - 29.4 - 26.6 - 12.3	- - - -	+ 0.0 - 0.4 - 0.1 - 0.0 + 0.1	2015 2016 2017 2018 2019
+ 5.6 + 11.7 + 17.1 + 4.7	+ 0.6 + 1.0 + 3.3 - 0.7	+ 5.0 + 10.7 + 13.8 + 5.5 + 14.4	+ 3.9 + 1.2 + 1.1 + 0.1 + 1.6	- 0.0 - 0.4 + 0.0 - 0.1	- 1.9 - 2.7 + 1.6 + 0.3 - 4.0	- 1.6 - 0.2 + 0.4	- 0.5 - 0.0 - 0.4	- 1.0 - 0.2 + 0.7	+ 0.2 - 1.1 + 1.8 - 0.1	- - -	- 0.0 - 0.0 + 0.0 - 0.0	2019
+ 16.8 + 13.4 + 1.9 + 5.3 + 14.6	+ 2.4 + 1.9 - 0.2 - 1.4 + 2.4	+ 14.4 + 11.6 + 2.1 + 6.7 + 12.2	+ 1.6 + 1.5 + 0.5 + 1.9 + 0.0	+ 0.1 + 0.0 - 0.2 - 0.0 - 0.0	+ 0.9 - 2.4 - 1.5 - 1.7	+ 2.1 - 1.7 + 0.1	+ 0.7 - 0.5 - 0.1 + 0.1	+ 1.4 - 1.2 + 0.2	- 4.3 - 1.2 - 0.7 - 1.6 - 1.3	- - -	- 0.0 - 0.0 + 0.3 - 0.3 + 0.0	2020
+ 8.3 + 16.7 + 21.5 + 8.4	+ 2.7 + 2.7 + 3.5 + 0.0	+ 6.3 + 14.0 + 18.0 + 8.4	- 5.0 - 0.8 + 2.2 - 0.5	- 0.1 + 0.2 + 2.2 + 1.5	+ 8.4 + 1.8 + 2.6 - 1.3	+ 0.6 - 0.0 - 0.0	+ 0.0 + 0.1 + 0.2	+ 0.6 - 0.1 - 0.2	+ 7.8 + 1.8 + 2.7 + 0.3	- - -	+ 0.0 + 0.0 + 0.0 - 0.1	
+ 16.1 + 11.9 + 8.2 + 13.5	+ 1.6 + 0.7 - 0.0 + 0.1	+ 14.5 + 11.2 + 8.2 + 13.5	- 0.9 + 0.7 + 0.4 + 1.1	+ 0.9 + 0.3 + 0.1 + 0.1	- 4.7 - 1.0 - 0.4 + 2.8	+ 0.3 - 0.6 - 0.7	- 0.4 - 0.1 - 0.4	+ 0.7 - 0.5 - 0.3	- 5.1 - 0.5 + 0.3 + 1.9	- - -	+ 0.0 - 0.0 + 0.0 + 0.0	

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

€ billion

	€ billion															
	Lending to	domestic en	erprises an	d household	ls (excludi	ng hol	dings of neg	gotiable mon	ey market pa	aper and excl	uding securit	ies portfolios) 1			
		of which:														
			Housing I	oans			Lending to	enterprises a	nd self-empl	oyed person:	5					
Period	Total	Mortgage loans, total	Total	Mortgag loans secured by residen- tial real estate	e Other housir loans	ng	Total	of which: Housing loans	Manufac- turing	Electricity, gas and water supply; refuse disposal, mining and quarrying	Construc-	Whole- sale and retail trade; repair of motor vehicles and motor- cycles	Agri- culture, forestry, fishing and aqua- culture	Transport- ation and storage; post and telecom- munica- tions	Financintern ation (exclu MFIs) insura com- panie	nedi- Iding and ance
	Lending	, total											End of	year or	quar	ter *
2018	2,727.0	1,382.2	1,391	2 1,116	.4 2	274.8	1,483.6	392.7	139.3	116.5	71.9	138.7	53.2	50.6	1	157.3
2019 Sep. Dec.	2,839.6 2,864.8	1,487.2 1,512.1	1,450 1,470			253.4 257.4	1,551.7 1,560.5	411.6 416.1	150.1 146.6	118.6 119.0		139.9 141.6	54.8 54.2	50.1 50.3		166.2 168.2
2020 Mar. June Sep.	2,915.9 2,949.0 2,968.6	1,533.2 1,558.5 1,580.1	1,488 1,510 1,537	6 1,246	.6 2	262.8 263.9 272.0	1,598.9 1,613.5 1,616.8	423.2	155.8 164.5 157.2	120.6		138.1	54.5 55.4 55.5	52.5 56.6 57.7	1 1	176.4 175.2 173.7
	Short-term	lending												_		
2018 2019 Sep.	227.6 245.6	_	7 8	1	-	7.2 8.4	195.9 213.6	1	35.5 41.1	4.9 5.3	1	48.3 48.0	3.7 4.4	4.9 4.5		28.0 30.1
Dec.	238.4	-	8	1	-	8.1	206.2	4.7	35.9	5.6	15.7	48.6	3.8	4.6		27.0
2020 Mar. June Sep.	261.1 247.6 231.3	-	8 8 8		-	8.3 8.2 8.5	230.3 217.9 201.4	4.7	43.4 44.5 36.9	6.1	16.9		4.1 4.2 4.2	6.1 5.4 5.3		34.6 33.4 30.0
	Medium-te	rm lending														
2018	282.6	-	35	4	-	35.4	202.5		24.9	1	1	19.0	4.5	10.6		49.0
2019 Sep. Dec.	297.1 301.3	_	36 36		-	36.4 36.6	215.4 219.5		27.3 28.5			19.6 19.7	4.7 4.6	10.0 10.2		50.1 52.0
2020 Mar.	304.5	-	36		-	36.9	222.8						4.5	10.4		51.3
June Sep.	310.8 313.1		37 38		_	37.7 38.0	229.8 232.1						4.5 4.6	13.4 14.3		50.2 51.4
2040	Long-term		1 1 2 10	cl 444			4 005 0			1073			1			00.2
2018 2019 Sep.	2,216.8 2,296.8	1,382.2 1,487.2	1,348 1,405			232.2 208.6	1,085.2 1,122.7	373.2 390.2	78.9 81.8	1	1	71.4 72.3	45.0 45.7	35.1 35.6		80.3 85.9
Dec.	2,325.1	1,512.1	1,425	7 1,213	.0 2	212.7	1,134.9	394.8	82.2	108.6	47.6	73.3	45.8	35.5		89.2
2020 Mar. June Sep.	2,350.2 2,390.6 2,424.2	1,533.2 1,558.5 1,580.1	1,443 1,464 1,490	7 1,246	.6 2	217.6 218.1 225.5	1,145.7 1,165.8 1,183.3		82.7 86.4 87.2	109.3	49.7	76.7	45.9 46.6 46.7	36.0 37.8 38.2		90.6 91.6 92.2
	Lending	, total											Change	e during	quar	ter *
2019 Q3 Q4	+ 29.8 + 25.3	+ 18.0 + 20.1	+ 22 + 20			7.0 6.1	+ 12.0 + 9.2		- 0.2 - 3.5				+ 0.3	- 0.4 + 0.2		4.8 2.0
2020 Q1	+ 51.0	+ 15.6	1		- 1	5.4	+ 38.2	+ 5.4	+ 9.2	1	1	1	+ 0.3	+ 0.2		8.2
Q2 Q3	l	+ 17.8 + 21.7				7.3 7.7	+ 17.1 - 1.9	+ 5.2 + 6.4					+ 0.9 + 0.1	+ 4.1 + 1.1		4.0 2.1
2019 Q3	Short-term – 3.6	,	+ 0		- +	0.3	- 3.8	+ 0.3						- 0.6		0.8
Q4 2020 Q1	- 7.0 + 22.7	l .	- 0 + 0		- +	0.3	- 7.5 + 24.2	1	1	1	1	1	- 0.6 + 0.3	+ 0.1 + 1.4		3.2 7.6
Q2 Q3	- 16.0 - 16.5 Medium-te		- 0		- + - +	0.2	- 14.9	- 0.1	+ 1.2	- 0.7	- 0.1	- 7.1	+ 0.1	- 0.7	-	4.2 3.4
2019 Q3	+ 3.5			8	- +	0.8	+ 3.1							- 0.4		1.3
Q4 2020 Q1	+ 4.2 + 3.1	_	1	2	- + +	0.2	+ 4.1 + 3.3	1	1	1	1	1	- 0.1 - 0.1	+ 0.2 + 0.3		1.9 0.7
Q2 Q3	+ 6.2 + 2.3 Long-term	_	+ 0		- + - + - +	0.7	+ 7.4	+ 0.7	+ 3.9	+ 0.2	+ 0.3	- 0.8	+ 0.0	+ 2.9	-	1.0
2019 Q3	+ 30.0	+ 18.0			.4 +	5.9	+ 12.7									2.7
Q4 2020 Q1	+ 28.1 + 25.1	+ 20.1 + 15.6	1		.9 +	6.2 4.9	+ 12.6 + 10.7		1	1	1	1	+ 0.1 + 0.1	- 0.1 + 0.5		3.3 1.4
Q2 Q3	+ 40.4 + 33.9	+ 17.8	+ 20	4 + 13		6.8 7.2	+ 24.6	+ 4.6	+ 3.7	+ 0.8	+ 1.3	+ 3.5	+ 0.7	+ 1.8	+	1.2

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

										Lending	ı to er	nployee	s and	other	individu	ıals					ing to profit ir	estitutio	ns	
Services sec	tor (including	the n	rofessions	5)		Memo	items:		\dashv	Lenaing	10 (1	прюусс	3 dila		lending					non	pronti	T	7113	
Jei vices see	of which:	tile p	. 0 . 0 . 5 . 6 . 1 . 5	-,		Memo	11011131		\dashv				l	O tille!	Ĭ	of wh	ich:			1				
Total	Housing enterprises		ding npanies	Other real estate activiti		Lendin to self- employ person	ed /	Lending to craft enterpr		Total		Housing loans		Total		Instalr loans		Debit baland on wa salary and pension accoul	ge, n	Total		of wh Housi loans	ing	Period
End of y	ear or qu	arte	r *																		Lend	ding,	total	
756.0	0 237.0)	47.3		196.9	4	132.6		48.0	1,2	28.4	9	94.8		233.7		172.9		8.3	I	15.0	I	3.7	2018
794.7 803.6			50.9 51.1		200.6 193.9		144.7 147.5		48.3 47.6		72.5 88.4		35.0 50.4		237.5 238.0		176.4 176.5		8.5 7.9		15.4 15.9		3.8 3.9	2019 Sep De
816.6	6 273.	2	54.2		196.6	4	150.6		48.0	1,3	01.0	1,0	62.8		238.2		178.0		7.9		16.0		3.9	2020 Ma
822.2 833.5			55.9 55.1		198.5 201.9		147.1 158.9		48.1 48.1		19.4 35.9)83.5)98.8		235.9 237.0		176.9 178.3		7.3 7.5		16.2 16.0		3.9 3.9	Jun Sep
																						-term l	ending	
55.9 63.5	1		8.1 9.5		10.4		24.0		5.2 5.4		31.2		3.1		28.2		1.5 1.6		8.3 8.5		0.5 0.5		0.0	2018 2019 Sep
65.0	0 14.4	4	9.7		10.2		23.9		4.9		31.6		3.3		28.2		1.3		7.9		0.7		0.0	Dec
69.0 65.5	5 14.8	3	12.2 11.9		11.1 11.4		23.8 21.8		5.2 4.7		30.0 29.0		3.4 3.4		26.6 25.6		1.4 1.4		7.9 7.3		0.7 0.7		0.0	2020 Mai Jun
63.1	1 15.0	5	10.7		10.9		21.7		4.3		29.3		3.5		25.8		1.3		7.5		0.6 ∕Iedium	-	0.0	Sep
77.5	5 14.8	3	9.9		21.3		31.5		3.5		79.6		19.9		59.7		56.4		_	I	0.5		0.1	2018
85.1 85.7			11.2 11.0		22.6 22.9		32.0 31.9		3.7 3.5		81.3 81.4		19.9 19.9		61.4 61.4		58.0 58.0		-		0.5 0.5		0.0	2019 Sep Dec
87.4	4 19.	1	11.6		23.3		31.9		3.6		81.2		19.8		61.4		58.0		_		0.5		0.0	2020 Mai
89.0 89.6			12.6 12.6		23.5 24.1		31.6 31.9		3.5 3.6		80.4 80.6		20.0 20.0		60.4 60.6		56.9 57.2		_		0.6 0.5		0.0	June Sep
																					_	-term l	_	
622.6 646.1	1		29.2 30.3		165.3 167.3		377.2 388.4		39.3		17.6 59.7		71.8		145.8 147.9		115.0 116.7		_		14.0 14.4		3.7 3.7	2018 2019 Sep
652.9	9 232.0	9	30.4		160.9	3	391.7		39.1	1,1	75.5	1,0	27.1		148.3		117.1		-		14.7		3.8	Dec
660.2 667.7	7 243.3	3	30.5 31.4		162.3 163.6	3	394.9 393.7		39.3 39.9	1,2	89.8 10.0	1,0	39.5 60.1		150.2 149.9		118.6 118.5		- - -		14.8 14.9		3.8 3.8	2020 Mai June
680.8		-	31.8		166.9	4	105.3	l	40.1	1,2	26.0	1,0	75.4		150.7		119.8		-	ı	15.0		3.9	Sep
Change	during qu	ıarte	er *																		Lend	ding,	total	
+ 9.0 + 9.1				+ +	1.2 0.8	++	3.6 2.8	- -	0.3		17.9 15.9	++	16.3 15.5	+	1.6 0.4	++	1.2 0.1	+ -	0.5 0.6	- +	0.1 0.3		0.0	2019 Q3 Q4
+ 13.0 + 10.0				+	1.9 2.1	+	3.0 3.5	+	0.5 0.1		12.6 13.4	+	12.3 15.8	+	0.2 2.4	+	1.8 1.0	+	0.0 0.6	+	0.2 0.1		0.0	2020 Q1 Q2
	0 + 4.0			+ +	3.2	+	5.4	+	0.0		21.7	+	20.0	+	1.6	+	1.7	+	0.0		0.1		0.0	Q2 Q3
	5 + 1.0	a I	0.8		0.11		0.21	ı	0.11		0.1		0.01		0.21		0.2		0.5		Short 0.0	-term l l –	ending 0.0	2019 Q3
+ 0.5 + 1.7				+	0.1	_	0.2 0.5	_	0.1	+	0.1	_ _	0.0	+	0.2 0.4	_	0.2	+	0.6	+ +	0.0		0.0	Q4
+ 4.0 - 3.5	5 – 0.º			++	0.9 0.3	- - -	0.1 2.0	+ - -	0.2	_	1.6 1.0	+ - +	0.1	_	1.7 1.0	+	0.1 0.1	+ - +	0.0 0.6		0.1		0.0	2020 Q1 Q2
- 2.6	6 + 0.8	3 -	1.2	l –	0.5	-	0.0	l –	0.3	+	0.3	+	0.1	+	0.3	-	0.1	+	0.1		0.1		0.0	Q3
+ 0.9				+	0.2	_	0.1	+	0.0	+	0.4	+	0.3	+	0.1	+	0.0		_	 -	∕ledium 0.0	-	0.0	2019 Q3
+ 0.5 + 1.8				+ +	0.3	-	0.1	_	0.1	+	0.1	+	0.1	+	0.0	+	0.0		-	+ +	0.0		0.0	Q4 2020 Q1
+ 1.8	8 + 0.0	5 +	1.0	+	0.3 0.8	- +	0.1	+ - -	0.0 0.0 0.1	- - +	1.3 0.3	+	0.0	- +	1.3 0.2	-	1.3		-	+	0.0 0.0 0.1	l -	0.0 0.0 0.0	Q2 Q3
+ 1 .1	1 + 0.4	•1 -	. 0.01	. +	U.0	+	0.01	+	U. I	+	U.3	+	0.0	+	U.Z	+	0.5		_			ı + -term l		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
+ 7.6 + 7.0			0.0	+	0.9	+	3.9 3.4		0.2		17.4 15.5	+	16.0 15.4	+	1.4		1.5		_	-	0.1 0.1	-	0.0	2019 Q3
+ 7.3	3 + 3.8	3 +	0.1	+ +	0.7	+	3.2	+	0.2	+	14.3	+	12.4	+	1.9	+	0.2 1.8		_	+ +	0.1	+	0.0	Q4 2020 Q1
+ 11.6 + 8.6				+ +	1.5 3.0	+	5.7 5.4	+	0.6 0.2		15.7 21.1	+	15.8 20.0	+	0.2 1.1		0.2 1.5		_	+ +	0.1 0.1		0.0 0.0	Q2 Q3

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*

	llOr

			Time deposit	_S 1,2						Memo item:		
					for more tha	n 1 year 2	1				Subordinated liabilities	
				for up to and		for up to and	for more		Bank		(excluding negotiable	Liabilities
Period	Deposits, total	Sight deposits	Total	including 1 year	Total	including 2 years	than 2 years	Savings deposits 3	savings bonds 4	Fiduciary loans	debt securities)	arising from repos
	Domestic	non-bank	cs, total								End of yea	r or month*
2017 2018 2019	3,420.9 3,537.6 3,661.0	2,080.1	853.2 841.5 816.2	207.6 203.4 202.7	645.6 638.2 613.5	56.8	588.3 581.4 560.8	582.9 578.6 575.2	43.7 37.3 33.2	30.0 33.9 32.5	16.3 14.9 14.7	1.6 0.5 0.2
2019 Dec.	3,661.0	2,236.3	816.2	202.7	613.5	52.7	560.8	575.2	33.2	32.5	14.7	0.2
2020 Jan. Feb. Mar.	3,658.2 3,675.9 3,716.6	2,235.1 2,254.4 2,304.9	819.7 820.8 815.5	208.4 212.2 212.7	611.3 608.6 602.8		558.9 556.4 552.7	570.7 568.5 564.5	32.6 32.2 31.8	32.3 32.8 32.5	14.8 14.6 14.6	0.5 0.3 0.6
Apr.	3,741.9	2,345.4	801.6	206.0	595.6	48.5	547.1	563.8	31.1	32.8	14.4	1.5
May June	3,775.3 3,766.3	2,376.3 2,385.3	804.7 788.2	214.1 206.7	590.6 581.5		543.5 537.2	563.6 562.6	30.7 30.3	33.3 33.4	14.4 14.3	0.3 0.2
July Aug.	3,803.4 3,820.8	2,414.0 2,427.7	798.6 802.9	215.6 215.0	583.1 587.9	46.6 45.8	536.5 542.0	560.9 560.6	29.9 29.6	33.8 34.0	14.3 14.4	0.2 0.5
Sep. Oct.	3,834.2 3,874.1	2,442.8 2,481.4	1	210.1 207.6	591.9 596.5	1	543.8 545.8	560.1 559.7	29.3 28.9	34.3 34.6	14.3 14.3	0.4
Nov.	3,894.2											0.7
2018	+ 117.7	+ 139.3	- 10.8	- 3.5	- 7.3	- 0.1	- 7.2	I 43	- 6.5	+ 3.9	l – 1.4	Changes*
2019	+ 122.5	+ 155.8	- 25.7	- 0.8	- 24.9	- 4.1	- 20.7	- 4.3 - 3.5	- 4.1	- 1.4	+ 0.9	- 1.2 - 0.3
2019 Dec. 2020 Jan.	- 13.8 - 2.8	1	- 4.6 + 3.5	- 4.8 + 5.7	+ 0.2 - 2.2	1	- 0.2 - 1.9	- 0.5 - 4.5	- 0.5 - 0.6	- 0.0 - 0.1	- 0.2 + 0.0	- 0.4 + 0.4
Feb. Mar.	+ 17.7 + 40.7	+ 19.3 + 50.5	+ 1.1	+ 3.8 + 0.5	- 2.7 - 5.9	- 0.2	- 2.5 - 3.7	- 2.2 - 4.0	- 0.4 - 0.4	+ 0.4	- 0.2 - 0.0	- 0.2 + 0.3
Apr.	+ 25.3	+ 40.7	- 14.0	- 6.8	- 7.2	- 1.6	- 5.6	- 0.7	- 0.7	+ 0.2	- 0.2	+ 0.9
May June	+ 30.5 - 9.0	+ 27.9 + 8.8	+ 3.2 - 16.4	+ 8.1 - 7.4	- 4.9 - 9.0		- 3.6 - 6.1	- 0.2 - 1.1	- 0.4 - 0.4	+ 0.6 + 0.1	+ 0.0 - 0.1	- 1.2 - 0.1
July Aug.	+ 37.1 + 17.4	+ 28.7 + 13.6		+ 8.9 - 0.6	+ 1.6 + 4.9	- 0.7	- 0.7 + 5.6	- 1.6 - 0.2	- 0.4 - 0.3	+ 0.4 + 0.2	- 0.0 + 0.1	- 0.0 + 0.2
Sep. Oct.	+ 13.4 + 40.0	1	- 0.9 + 2.2	- 4.9 - 3.5	+ 4.0 + 5.7	+ 2.3 + 2.5	+ 1.7 + 3.2	- 0.5 - 0.4	- 0.4 - 0.4	+ 0.3 + 0.3	- 0.1 + 0.0	- 0.1 + 0.3
Nov.	+ 20.4	+ 34.1	– 13.3		- 2.1		+ 0.5		- 0.3		- 0.0	+ 0.1
		governm									•	r or month*
2017 2018	201.7 218.9	62.7	148.2	67.9	80.3	28.5	51.8	3.7	4.2	25.3	2.2	-
2019 2019 Dec.	237.1 237.1	74.7 74.7	154.9 154.9	76.0 76.0	78.9 78.9	1	52.8 52.8	3.4 3.4	4.1	24.7 24.7	2.2	0.2
2020 Jan. Feb.	236.9 247.0	69.1 74.8	160.5 164.8	81.6 86.7	78.9 78.1	1	53.2 52.7	3.2 3.3	4.1 4.1	24.4 25.0	2.2 2.2	0.2 0.2
Mar.	238.6	72.7	158.6	83.1	75.5	23.8	51.7	3.2	4.1	25.0	2.1	0.2
Apr. May	228.7 232.1	73.9 81.1	143.9	75.1 73.5	72.7 70.4		50.0 48.4	3.1 3.1	4.0 4.0	25.3 26.0	2.1 2.1	0.2 0.2
June July	221.4 226.5	75.4 76.7	139.1 143.0	75.0 73.4	64.1 69.6	18.5 20.3	45.5 49.3	2.9 2.8	3.9 3.9	25.8 25.9	2.1	0.2
Aug. Sep.	237.6 236.6			76.1 72.4	75.2 80.2		55.8 58.7	2.9 2.8	3.9 3.8	26.0 26.1	2.1 2.1	0.2 0.2
Oct. Nov.	240.1 237.2				84.0 83.1		60.1 61.8		3.7 3.7	26.1 25.6	2.1 2.1	0.2
												Changes*
2018 2019	+ 16.9 + 17.1	+ 3.6 + 11.8			+ 11.5 - 2.0		+ 10.3 + 0.6	+ 0.1	- 0.2 - 0.1	- 0.2 - 0.6		± 0.0 + 0.2
2019 Dec.	- 8.5	1	- 8.3		- 0.4	1	- 0.0	- 0.4	- 0.0	- 0.0	- 0.0	-
2020 Jan. Feb.	- 0.2 + 10.1	- 5.6 + 5.7	+ 5.6 + 4.3		+ 0.0 - 0.8		+ 0.4 - 0.5	- 0.2 + 0.1	- 0.0 - 0.0	- 0.3 + 0.6	+ 0.0	-
Mar.	- 8.4	- 2.1	- 6.3	- 3.6	- 2.7	- 1.6	- 1.1	- 0.0	+ 0.0	- 0.0	- 0.0	-
Apr. May	- 9.9 + 3.3	+ 1.2 + 7.2 - 5.7	- 10.8 - 3.9	- 1.6	- 2.8 - 2.4	- 0.8	- 1.7 - 1.6	- 0.1 + 0.0	- 0.2 + 0.0	+ 0.3 + 0.6	- 0.0 + 0.0	-
June July	- 10.7 + 5.1	+ 1.3	- 4.8 + 3.9	- 1.6	- 6.3 + 5.5	+ 1.8	- 2.9 + 3.7	- 0.2 - 0.1	- 0.0 - 0.0	- 0.1 + 0.1	- 0.0 + 0.0	_
Aug. Sep.	+ 11.1 - 0.8	+ 2.8 - 2.1	+ 8.3 + 1.4		+ 5.6 + 5.1		+ 6.5 + 3.0	+ 0.0 - 0.1	- 0.0 - 0.1	+ 0.1 + 0.1	- 0.0 - 0.0	-
Oct. Nov.	+ 3.7 - 2.7				+ 4.0 - 0.9		+ 1.7 + 1.7	- 0.0 - 0.0		+ 0.0 - 0.5		- 0.2

^{*} 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

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

	€ billion											
			Time deposits	1,2						Memo item:		
Period	Deposits,	Sight deposits	Total	for up to and including 1 year	for more than	for up to and including 2 years	for more than 2 years	Savings deposits 3	Bank savings bonds 4	Fiduciary loans	Subordinated liabilities (excluding negotiable debt securities)	Liabilities arising from repos
	Domestic	enterprise	es and hou	ıseholds							End of year	or month*
2017	3,219.2				576.6	29.9	546.8		39.3	4.3	14.0	1.6
2018 2019	3,318.7 3,423.9	2,017.4 2,161.6	693.3 661.4	135.4 126.7	557.9 534.7	28.3 26.6	529.6 508.0	574.9 571.8	33.1 29.1	8.6 7.8	12.7 12.6	0.5 0.0
2019 Dec.	3,423.9	2,161.6	661.4	126.7	534.7	26.6	508.0	571.8	29.1	7.8	12.6	0.0
2020 Jan. Feb.	3,421.2 3,428.9	2,166.0 2,179.6	659.2 656.0	126.8 125.5	532.4 530.5	26.7 26.8	505.7 503.7	567.5 565.2	28.5 28.1	7.9 7.7	12.6 12.4	0.4 0.2
Mar.	3,477.9	2,232.2	656.9	129.6	527.3	26.2	501.0	561.2	27.6	7.5	12.4	0.5
Apr. May June	3,513.1 3,543.3 3,545.0	2,271.6 2,295.2 2,309.9	653.8 660.9 649.1	130.9 140.6 131.7	522.8 520.2 517.4	25.7 25.2 25.8	497.1 495.1 491.6	560.7 560.5 559.7	27.1 26.7 26.3	7.4 7.4 7.5	12.3 12.3 12.3	1.4 0.2 0.1
July Aug.	3,577.0 3,583.2	2,337.3 2,348.2	655.6 651.6	142.1 138.8 137.7	513.5 512.7	26.3 26.4	487.2 486.3	558.1 557.8 557.3	26.0 25.7 25.5	7.9 8.0	12.2 12.3 12.2	0.1 0.3
Sep. Oct. Nov.	3,597.6 3,634.0 3,657.0	2,365.4 2,399.9 2,431.4	649.4 652.1 644.0	139.7	511.7 512.4 511.3	26.6 26.7 26.7	485.1 485.7 484.5	556.9	25.1	8.2 8.5 8.8	12.2	0.2 0.5 0.7
	,,,,,,,,											Changes*
2018 2019	+ 100.8 + 105.4	+ 135.7 + 144.0	- 24.3 - 31.5	- 5.5 - 8.6	- 18.8 - 22.9	- 1.3 - 1.5	- 17.5 - 21.4	- 4.3 - 3.1	- 6.3 - 4.0	+ 4.1	- 1.3 + 1.0	- 1.2 - 0.4
2019 2019 Dec.	- 5.3	+ 144.0	+ 3.7	+ 3.1	+ 0.6	+ 0.7	- 21.4	- 0.3	- 4.0	- 0.8	+ 1.0	- 0.4
2020 Jan.	- 2.7	+ 4.3	- 2.2	+ 0.1	- 2.3	+ 0.0	- 2.3	- 4.3	- 0.6	+ 0.1	+ 0.0	+ 0.4
Feb. Mar.	+ 7.7 + 49.0	+ 13.6 + 52.6	- 3.2 + 0.9	- 1.3 + 4.1	- 1.9 - 3.2	+ 0.1 - 0.6	- 2.0 - 2.6	- 2.3 - 4.0	- 0.4 - 0.5	- 0.2 - 0.2	- 0.2 - 0.0	- 0.2 + 0.3
Apr. May	+ 35.2 + 27.1	+ 39.5 + 20.6	- 3.2 + 7.1	+ 1.2 + 9.7	- 4.4 - 2.6	- 0.5 - 0.5	- 3.9 - 2.0	- 0.5 - 0.2	- 0.5 - 0.4	- 0.1 - 0.1	- 0.1 + 0.0	+ 0.9 - 1.2
June	+ 1.7	+ 14.5	- 11.6	- 8.9	- 2.6	+ 0.6	- 3.3	- 0.9	- 0.4	+ 0.2	- 0.1	- 0.1
July Aug.	+ 32.0 + 6.3	+ 27.4 + 10.8	+ 6.5 - 4.0	+ 10.4	- 3.9 - 0.7	+ 0.5 + 0.2	- 4.4 - 0.9	- 1.6 - 0.2	- 0.4 - 0.3	+ 0.3 + 0.1	- 0.0 + 0.1	- 0.0 + 0.2
Sep. Oct.	+ 14.2 + 36.3	+ 17.2 + 34.4	- 2.2 + 2.6	- 1.2 + 1.0	- 1.1 + 1.7	+ 0.2 + 0.2	- 1.2 + 1.5	- 0.4 - 0.4	- 0.3 - 0.4	+ 0.2 + 0.3	- 0.1 + 0.0	- 0.1 + 0.3
Nov.	+ 23.0	+ 31.6	- 8.1	- 6.9	- 1.2	- 0.0	- 1.2	- 0.1	- 0.3	+ 0.3	- 0.0	+ 0.2
		Domestic	•								End of year	
2017 2018	1,039.6 1,035.4	584.0	461.0 432.9	92.9 86.0	346.9	17.2 17.2	351.0 329.7	7.0	11.4	2.8	11.6 10.3	1.6 0.5
2019 2019 Dec.	1,031.5 1,031.5	614.4 614.4	399.7 399.7	81.1 81.1	318.6 318.6	15.5 15.5	303.1 303.1	6.7 6.7	10.7 10.7	2.4	10.1 10.1	0.0
2020 Jan.	1,030.8	616.3	397.5	81.7	315.8	15.4	300.3	6.6	10.5	2.4	10.2	0.4
Feb. Mar.	1,020.4 1,080.3	608.8 665.3	394.7 398.2	81.2 87.3	313.5 310.9	15.6 15.4	297.9 295.5	6.5 6.5	10.4 10.3	2.4 2.3	10.0 10.0	0.2 0.5
Apr.	1,087.9 1,095.7	674.4 676.0	397.0 403.5	89.9 99.2	307.2 304.2	15.1 14.5	292.0 289.7	6.2 6.2	10.2 10.1	2.3 2.4	9.8 9.9	1.4 0.2
May June	1,090.9	683.7	391.2	90.0	301.2	14.5	286.6	6.2	9.9	2.4	9.8	0.1
July Aug.	1,108.0 1,108.0	694.4 698.2	397.6 393.8	100.6 97.5	297.1 296.3	14.5 14.6	282.6 281.6	6.1 6.1	9.8 9.9	2.4 2.3	9.8 9.8	0.1 0.3
Sep.	1,114.5	707.3 720.0	391.4	96.5	294.9 295.6	14.7 14.7	280.2 280.9	6.0	9.8	2.3 2.3	9.7 9.7	0.2 0.5
Oct. Nov.	1,129.9 1,131.9		394.2 387.3	98.6 92.7		14.7		6.0 5.9	9.6 9.5			0.5
									_			Changes*
2018 2019	- 3.2 - 3.4		- 27.2 - 32.8	- 5.9 - 4.8	- 21.3 - 28.0	+ 0.3 - 1.6	- 21.7 - 26.4	+ 0.2 - 0.3	- 1.3 - 0.7	+ 0.1 - 0.4	- 1.3 + 0.9	- 1.2 - 0.4
2019 Dec.	- 4.7	- 5.8	+ 1.5	+ 3.2	- 1.7	+ 0.6	- 2.3	- 0.2	- 0.2	- 0.0	- 0.2	- 0.4
2020 Jan. Feb.	- 0.7 - 10.5	+ 1.9 - 7.6	- 2.2 - 2.8	+ 0.6 - 0.5	- 2.8 - 2.3	- 0.0 + 0.2	- 2.8 - 2.5	- 0.1 - 0.0	- 0.2 - 0.1	+ 0.0 - 0.0	+ 0.0 - 0.2	+ 0.4 - 0.2
Mar.	+ 60.0	+ 56.6	+ 3.5	+ 6.1	- 2.5	- 0.2	- 2.4	- 0.1	- 0.0	- 0.0	- 0.0	+ 0.3
Apr. May	+ 7.6 + 4.8	+ 9.2 - 1.4	- 1.2 + 6.4	+ 2.5 + 9.4	- 3.7 - 2.9	- 0.3 - 0.6	- 3.4 - 2.3	- 0.2 - 0.0	- 0.1 - 0.2	- 0.0 + 0.0	- 0.1 + 0.0	+ 0.9 - 1.2
June July	- 4.8 + 17.0	+ 7.5 + 10.7	- 12.1 + 6.4	- 9.2 + 10.5	- 2.9 - 4.1	- 0.0 - 0.0	- 2.9 - 4.1	- 0.0 - 0.0	- 0.2 - 0.1	+ 0.0	- 0.1 - 0.1	- 0.1 - 0.0
Aug. Sep.	- 1.7 + 7.7	+ 2.1 + 10.4	- 3.9 - 2.5	- 3.0 - 1.0	- 0.8 - 1.5	+ 0.1 + 0.1	- 0.9 - 1.5	- 0.0 - 0.1	+ 0.0	- 0.1 + 0.0	+ 0.1 - 0.1	+ 0.2 - 0.1
Oct.	+ 15.2	+ 12.6	+ 2.8	+ 1.1	+ 1.7	+ 0.1	+ 1.6	- 0.0	- 0.2	- 0.0	+ 0.0	+ 0.3
Nov.	+ 2.1	+ 9.2	– 6.9	– 5.9	- 1.0	+ 0.1	- 1.1	- 0.1	- 0.1	- 0.1	- 0.1	+ 0.2

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 deposits	l					Time deposits	1,2			
			by creditor gr	oup					by creditor gro	oup		
	Deposits of		Domestic hou	seholds					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
					1, 2, 2, 2, 2					'	d of year o	
2017 2018 2019	2,179.7 2,283.4 2,392.4	1,323.1 1,433.5 1,547.2	1,286.6 1,396.1 1,507.9	223.4 248.4 266.3	907.6 991.3 1,081.6	155.7 156.4 160.1	36.5 37.4 39.3	257.5 260.4 261.7	243.5 246.7 248.3	23.4 21.3 20.8	182.9 188.6 190.2	37.1 36.7 37.3
2020 June	2,454.0	1,626.2	1,585.3	275.2	1,143.8	166.3	40.9	257.9	244.6	19.9	189.2	35.5
July Aug. Sep.	2,469.0 2,475.2 2,483.1	1,642.9 1,650.0 1,658.1	1,602.0 1,608.8 1,616.7	282.4 284.2 283.1	1,154.4 1,160.2 1,169.7	165.2 164.5 164.0	40.9 41.1 41.4	258.0 257.8 258.0	244.5 244.2 244.3	19.9 19.7 19.5	189.2 190.3 190.6	35.4 34.2 34.2
Oct. Nov.	2,504.2 2,525.1	1,679.9 1,702.2	1,638.7 1,661.3	289.7 290.0	1,184.0 1,205.7	165.0 165.6	41.2 40.9	257.8 256.7	244.3 243.7	19.6 19.4	190.6 189.4	34.0 34.9
												Changes*
2018 2019	+ 104.0 + 108.8	+ 110.5 + 113.6	+ 109.7 + 111.8	+ 20.3 + 18.5	+ 83.1 + 88.7	+ 6.2 + 4.6	+ 0.9 + 1.8	+ 3.0 + 1.2	+ 3.2 + 1.7	- 2.3 - 0.6	+ 5.8 + 1.6	_
2020 June	+ 6.5	+ 7.0	+ 6.9	- 1.4	+ 7.6	+ 0.7	+ 0.2	+ 0.5	+ 0.4	+ 0.6	+ 0.2	- 0.3
July Aug. Sep.	+ 15.0 + 8.0 + 6.5	+ 16.7 + 8.7 + 6.8	+ 16.7 + 8.4 + 6.5	+ 7.2 + 1.7 - 2.2	+ 9.4 + 6.6 + 9.2	+ 0.1 + 0.1 - 0.5	+ 0.0 + 0.3 + 0.3	+ 0.1 - 0.2 + 0.3	- 0.1 - 0.3 + 0.1	- 0.0 - 0.2 - 0.2	+ 0.0 + 0.1 + 0.3	- 0.1 - 0.2 - 0.1
Oct. Nov.	+ 21.0 + 20.9	+ 21.8 + 22.3	+ 22.0 + 22.6	+ 6.6 + 0.3	+ 14.3 + 21.4	+ 1.0 + 0.8	- 0.2 - 0.3	- 0.2 - 1.1	- 0.0 - 0.6	+ 0.1 - 0.3	- 0.1 - 1.2	- 0.1 + 0.9

 $^{^\}star$ See Table IV.2, footnote $^\star;$ 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

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

	€ billion												
	Deposits												
		Federal Gove	ernment and i	ts special fund	_{ds} 1			State govern	ments				
				Time deposit	S					Time deposit	ts		
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	Memo item: Fiduciary loans	Total	Sight deposits	for up to and including 1 year	for more than 1 year	Savings deposits and bank savings bonds 2	Memo item: Fiduciary loans
											End	of year o	r month*
2017 2018 2019	201.7 218.9 237.1	8.7 10.5 11.2	4.3 4.7 5.4	1.5 1.7 1.5	2.8 4.1 4.2	0.1 0.1 0.1	12.9 12.2 11.6	37.5 39.0 53.8	11.9 13.4 21.1	9.9 11.5 17.1	13.0		12.7 13.0 13.1
2020 June	221.4	11.8	6.2	1.5	4.1	0.1	11.4	63.8	23.1	25.2	14.7	0.9	14.4
July Aug. Sep.	226.5 237.6 236.6	20.1 29.8 39.0	5.9 5.7 6.1	2.5 5.3 6.9	11.6 18.8 25.9	0.1 0.1 0.0	11.3 11.4 11.5	60.7 59.6 60.0	23.8 23.2 24.6	21.6 21.1 20.2	14.4	0.8 0.8 0.8	14.6 14.7 14.7
Oct. Nov.	240.1 237.2	46.6 47.6		6.8 6.9	31.8 34.5	0.0 0.0	11.5 11.6	57.6 52.4	23.1 24.8	19.5 13.5		0.7 0.7	14.7 14.1
												(Changes*
2018 2019	+ 16.9 + 17.1	+ 2.1 + 1.4	+ 0.4 + 0.7	+ 0.2 + 0.2	+ 1.4 + 0.4	- 0.0 + 0.0	- 0.7 - 0.6	+ 1.3 + 13.8	+ 1.3 + 7.7	+ 1.5 + 5.2		- 0.1 - 0.2	+ 0.5 + 0.0
2020 June	- 10.7	+ 1.0	+ 0.8	+ 0.2	- 0.1	- 0.0	- 0.2	- 4.9	- 3.8	- 0.8	- 0.3	- 0.0	+ 0.1
July Aug. Sep.	+ 5.1 + 11.1 - 0.8	+ 8.3 + 9.8 + 9.2	- 0.3 - 0.2 + 0.4	+ 1.1 + 2.8 + 1.6	+ 7.5 + 7.2 + 7.1	- - - 0.0	- 0.0 + 0.0 + 0.1	- 3.1 - 1.2 + 0.6	+ 0.8 - 0.6 + 1.4	- 3.6 - 0.6 - 0.9	- 0.0	- 0.0 - 0.0 - 0.0	+ 0.1 + 0.1 + 0.0
Oct. Nov.	+ 3.7 - 2.7	+ 7.5 + 1.0		- 0.1 + 0.1	+ 5.8 + 2.7	- 0.0	+ 0.0 + 0.1	- 2.4 - 5.1	- 1.5 + 1.8	- 0.7 - 5.9	- 0.2 - 0.9	- 0.0 - 0.0	- 0.0 - 0.6

^{*} 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

					Savings depo	sits 3			Memo item:			
	by maturity											
		more than 1	year 2									
			of which:		1					Subordinated liabilities		
Domestic non-profit institu- tions	up to and including 1 year	Total	up to and including 2 years	more than 2 years	Total	Domestic households	Domestic non-profit institu- tions	Bank savings bonds 4	Fiduciary loans	(excluding negotiable debt securities) 5	Liabilities arising from repos	Period
End of ye	ear or mon	ıth*										
14.0 13.7 13.3	49.4		11.1	195.8 199.9 204.9	572.4 567.9 565.1	564.6 560.6 558.1	7.9 7.2 7.0	26.6 21.7 18.4	1.7 5.8 5.4	2.4 2.4 2.4	- - -	2017 2018 2019
13.3	41.6	216.3	11.2	205.0	553.5	546.8	6.7	16.4	5.1	2.4	_	2020 June
13.5 13.6 13.7	41.3	216.4 216.5 216.8	11.8	204.7 204.6 204.9	552.0 551.7 551.3	545.4 545.1 544.7	6.6 6.6 6.6	16.1 15.8 15.7	5.5 5.7 5.8	2.5 2.5 2.5	- - -	July Aug. Sep.
13.6 13.0				204.8 204.7	550.9 550.9	544.5 544.5	6.5 6.4	15.5 15.3		2.6 2.6	- -	Oct. Nov.
Changes'	*											
- 0.2 - 0.4		+ 2.6 + 5.1	- 1.6 + 0.1	+ 4.2 + 5.0	- 4.5 - 2.8	- 3.9 - 2.5	- 0.6 - 0.3	- 5.0 - 3.3	+ 4.0 - 0.4	+ 0.0 + 0.0		2018 2019
+ 0.1	+ 0.3	+ 0.2	+ 0.6	- 0.4	- 0.8	- 0.8	- 0.1	- 0.2	+ 0.2	+ 0.0	-	2020 June
+ 0.2 + 0.1 + 0.2	- 0.2	+ 0.2 + 0.1 + 0.4	+ 0.1	- 0.4 + 0.0 + 0.3	- 1.5 - 0.2 - 0.4	- 1.4 - 0.2 - 0.4	- 0.1 + 0.0 + 0.0	- 0.3 - 0.3 - 0.2	+ 0.3 + 0.2 + 0.2	+ 0.0 + 0.0 + 0.0	- - -	July Aug. Sep.
- 0.2 - 0.5		- 0.0 - 0.2		- 0.1 - 0.1	- 0.3 - 0.1	- 0.2 + 0.0	- 0.1 - 0.1	- 0.2 - 0.2	+ 0.3 + 0.3	+ 0.0 + 0.1		Oct. Nov.

registered debt securities. **2** Including deposits under savings and loan contracts (see 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. 5 Included in time deposits.

												1
	ment and local unicipal special					Social securit	y funds					
<u>, , , , , , , , , , , , , , , , , , , </u>	Τ	Time deposit						Time deposits	5			1
Total	Sight deposits	for up to and including 1 year	for more than 1 year	Savings deposits and bank savings bonds 2,4	Memo item: Fiduciary loans	Total	Sight deposits	for up to and including 1 year	for more than 1 year	Savings deposits and bank savings bonds 2	Memo item: Fiduciary loans	Period
End of ye	ear or mon	ıth*										
61.6 65.4 65.3	35.1	9.8	14.9	5.7	0.0 0.0 0.0	93.8 103.9 106.8	9.5 9.5 10.8	45.6 45.0 48.8	37.6 48.4 46.2	1.0		2017 2018 2019
58.8	31.8	8.6	13.3	5.1	0.0	87.0	14.4	39.7	32.1	0.8	_	2020 June
59.4 62.4 56.9	35.6	8.6	13.1	5.1 5.1 5.0	0.0 0.0 0.0	86.2 85.8 80.7	14.1 14.9 15.9	40.8 41.1 37.1	30.5 28.9 27.0	0.8	- - -	July Aug. Sep.
59.6 62.2					0.0 0.0	76.2 75.1	16.5 16.7	33.4 34.9	25.5 22.8		- -	Oct. Nov.
Changes	*											
+ 3.6 - 0.8		+ 1.0		+ 0.1 - 0.3	+ 0.0 + 0.0				+10.8 - 2.2	- 0.1 + 0.1	-	2018 2019
- 3.5	- 3.0	- 0.2	- 0.2	- 0.1	-	- 3.2	+ 0.3	+ 2.3	- 5.8	- 0.1	-	2020 June
+ 0.6 + 3.0 - 5.5	+ 2.8	+ 0.2	- 0.0	- 0.0 + 0.0 - 0.1	- - -	- 0.7 - 0.5 - 5.1	- 0.2 + 0.8 + 1.0	+ 1.1 + 0.3 - 4.1	- 1.6 - 1.5 - 2.0		- - -	July Aug. Sep.
+ 3.1 + 2.5		+ 0.0 + 0.1		- 0.1 + 0.0	_	- 4.5 - 1.1	+ 0.6 + 0.2	- 3.7 + 1.5	- 1.5 - 2.7	- 0.0 - 0.0	_	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)*

-		
£	hil	lior

Period

2017 2018 2019 2020 July Aug. Sep.

2020 July Aug. Sep. Oct.

Savings depo	sits 1								Bank savings bonds, 3 sold to			
	of residents					of non-resi	dents]		domestic nor	n-banks	
		at 3 months notice	,	at more that months' not				Memo item:			of which:	
Total	Total	Total	of which: Special savings facilities 2	Total	of which: Special savings facilities 2	Total	of which: At 3 months' notice	Interest credited on savings deposits	non-banks, total	Total	With maturities of more than 2 years	foreign non-banks
End of ye	ar or mon	th*										
590.3 585.6 581.8	578.6	541.1	348.3 333.4 313.2		30.3 27.2 24.7	7.4 7.0 6.6	6.5 6.2 5.9	2.7 2.3 2.0	41.2	37.3	27.9	
567.3 567.0 566.5	560.6	531.7 531.8 531.7	293.2 291.2 290.3	29.2 28.8 28.4	19.8 19.4 19.1		5.8 5.8 5.7	0.1 0.1 0.1	31.8 31.5 31.1		23.1 22.9	1.9 1.9 1.9
566.0 565.8			288.3 287.4	28.0 27.6	18.7 18.3	6.3 6.3	5.7 5.7	0.1 0.1	30.7 30.4			1.9 1.9
Changes*	•											
- 4.7 - 3.9		+ 1.2 - 0.6	- 15.9 - 21.3	- 5.5 - 2.8	- 3.2 - 2.5	- 0.5 - 0.4	- 0.3 - 0.3] :	- 9.1 - 5.3	- 6.5 - 4.1	- 3.6 - 2.8	- 2.6 - 1.2
- 1.7 - 0.2 - 0.5	- 1.6 - 0.2 - 0.5	- 1.1 + 0.2 - 0.1	- 2.2 - 2.0 - 1.0	- 0.6 - 0.4 - 0.4	- 0.5 - 0.4 - 0.4	- 0.0 - 0.0 - 0.0	- 0.0 - 0.0 - 0.0		- 0.4 - 0.3 - 0.4	- 0.4 - 0.3 - 0.4	- 0.2 - 0.1 - 0.2	- 0.0 - 0.0
- 0.4 - 0.2	- 0.4 - 0.2	- 0.0 + 0.3	- 1.9 - 0.9	- 0.4 - 0.4	- 0.4 - 0.4	- 0.0 - 0.0	- 0.0 - 0.0		- 0.4 - 0.3	- 0.4 - 0.3	- 0.2 - 0.3	- 0.0 + 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 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*

€ billion

	C DIIIIOII													
	Negotiable l	bearer debt	securities an	d money ma	arket paper						Non-negot			
		of which:									bearer deb securities a	nd		
						with matur	ities of				money mai paper 6	rket	Subordinate	d
						up to and includi	ng 1 year	more than and includ	1 year up to ing 2 years			of which:		
		Floating rate	Zero coupon	Foreign currency	Certifi- cates of		of which: without a nominal		of which: without a nominal	more than		with maturities of more than	negotiable debt	non- negotiable debt
	Total	bonds 1	bonds 1,2	bonds 3,4	deposit	Total	guarantee 5	Total	guarantee 5	2 years	Total	2 years	securities	securities
Period	End of y	ear or m	onth*											
2017 2018 2019	1,066.5 1,099.7 1,140.7	147.2 139.4 123.5	26.0 27.5 28.6	370.4 355.9 367.7	89.8 88.3 96.7	107.4 106.2 117.7	4.1 3.1 2.6	32.9 22.0 23.6	6.1	926.2 971.5 999.4	0.4 0.6 0.9	0.2 0.1 0.7	30.5 30.6 31.5	0.5 0.4 0.4
2020 July Aug. Sep.	1,128.7 1,127.8 1,153.2	120.2 118.8 119.6	25.2 12.5 12.4	327.9 328.6 343.7	77.2 93.6 106.9	94.8 98.2 111.0	1.8 1.8 1.8	25.7 25.6 25.7	3.3	1,008.2 1,003.9 1,016.5	0.9 1.0 1.0	0.7 0.8 0.8		0.4 0.4 0.4
Oct. Nov.	1,139.8 1,134.2	117.8 119.3		327.1 322.1	93.9 92.3	98.5 97.0	1.8 1.7	26.1 25.5		1,015.3 1,011.7	0.9 1.0	0.7 0.8		0.4 0.4
	Changes	*												
2018 2019	+ 33.6 + 40.6	- 7.8 - 15.9		- 14.3 + 11.8	- 1.6 + 8.4	- 1.2 + 11.5	- 1.0 - 0.5	- 10.5 + 1.6		+ 45.3 + 27.4	+ 0.3 + 0.3			
2020 July Aug. Sep.	- 18.2 - 1.0 + 25.5	- 4.6 - 1.4 + 0.8	- 2.5 + 2.3 - 0.0	- 16.6 + 0.7 + 15.1	- 9.3 + 1.3 + 13.3	- 10.9 + 3.4 + 12.8	+ 0.1 + 0.0 + 0.0	- 1.4 - 0.1 + 0.2	- 0.1	- 5.8 - 4.3 + 12.6	+ 0.1 + 0.1 - 0.0	+ 0.0 + 0.1 - 0.0	+ 1.2	- - -
Oct. Nov.	- 13.5 - 5.6	- 1.8 + 1.6	+ 0.3 - 0.0	- 16.6 - 5.0	- 13.0 - 1.6	- 12.5 - 1.5	+ 0.0 - 0.1	+ 0.3 - 0.6		- 1.3 - 3.5	- 0.1 + 0.1	- 0.0 + 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. 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 and 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).

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

	lio

	Lending to banks (MFIs)			ls)	Lending to non-banks (non-MFIs)					Deposits of non- banks (non-MFIs)						
			Credit bal-			Building lo	ans		Secur- ities (in-	(MFIs) 5		banks (nor	1-IVIFIS)			Memo item:
End of year/month	Num- ber of associ- ations	Balance sheet total 13	ances and loans (ex- cluding building loans) 1	Building loans 2	Bank debt secur- ities 3	and loan con-	Interim and bridging loans	Other building loans	cluding Treasury bills and	Deposits under savings and loan con- tracts	Sight and time deposits	Deposits under savings and loan con- tracts	Sight and time de- posits 6	ities	Capital (includ- ing pub- lished re- serves) 7	New con- tracts entered into in year or month 8
	All b	uilding	and loa	n asso	ciations											
2018	20			0.0		11.9	110.2		25.8			174.3			11.7	
2019	19	237.9	34.0	0.0	16.2	11.4	117.6	28.0	25.9	2.9	21.0	179.7	9.8	1.8	12.0	88.7
2020 Sep.	18		31.4	0.0	16.1	11.0	123.0	30.7	25.5	2.9	25.4	179.9	8.4	1.7	12.3	6.1
Oct.	18		31.4	0.0	16.0	10.9	123.5	31.2	25.3	2.9	24.7	179.7	8.6	2.8	12.3	6.3
Nov.	18	243.4	31.3	0.0	16.0	10.9	124.1	31.6	25.5	2.9	25.8	179.7	8.4	2.8	12.3	6.4
	Privat	te build	ing and	loan a	associati	ions										
2020 Sep.	10	167.7	16.1	_	6.8	8.1	95.8	26.2	11.3	1.7	22.8	116.6	8.1	1.7	8.4	3.9
Oct.	10	168.1	16.0	_	6.8	8.1	96.3	26.6	11.2	1.7	22.2	116.4	8.3	2.8	8.4	4.1
Nov.	10	168.8	15.7	_	7.0	8.0	96.7	26.9	11.4	1.7	23.1	116.5	8.1	2.8	8.4	4.1
	Public	c buildii	ng and	Ioan a	ssociatio	ons										
2020 Sep.	8		15.4	0.0	9.3		27.1		14.2	1.2		63.3		-	3.8	
Oct.	8		15.4	0.0	9.2	2.8	27.3	4.6	14.1	1.2	2.5	63.3	0.3	-	3.8	2.2
Nov.	8	74.6	15.6	0.0	9.1	2.8	27.4	4.7	14.1	1.2	2.7	63.2	0.3	-	3.8	2.3

Trends in building and loan association business

€ billion

	€ billion															
	Changes in			Capital pro	mised	Capital disb	ursed					Disburse		Interest an		
	under savi loan contr						Allocation	s				outstand end of pe	ing at	repayment received o building lo	n	
			Repay- ments				Deposits u savings an loan contr	d	Loans und savings an loan contr	d	Newly	ena or pe	enou	building id	dis 10	
Period	Amounts paid into savings and loan accounts 9	Interest credited on deposits under savings and loan con- tracts	of deposits under cancelled savings and loan con- tracts		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	granted 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 ar	nd loan	associa	tions											
2018 2019	27.0 27.3	2.1 2.1	7.4 7.5	45.2 49.2	25.1 25.8	40.2 42.9	15.9 16.4	4.3 4.2	4.8 4.6	3.7 3.6	19.5 21.9	16.6 18.1	6.8 6.5	6.6 7.2	5.5 5.4	0.2 0.2
2020 Sep. Oct.	2.2 2.1	0.0	0.6 0.7	4.3 4.4	2.1 2.3	4.0 4.1	1.5 1.5	0.3 0.4	0.3 0.4	0.3 0.3		18.6 18.6	6.4	0.5 0.6		0.0
Nov.	2.2 Private	0.1 buildin	o.7 g and	4.3 loan as:	2.1 sociatio	4.1 ns	1.6	0.3	0.3	0.3	2.1	18.7	6.4	0.5	1	0.0
2020 Sep. Oct. Nov.	1.4 1.3 1.4 Public	0.0 0.0	0.4 0.3	3.3	1.5 1.6 1.3 ociation	3.2 3.1	1.0 1.1 1.1	0.2 0.3 0.2	0.2 0.3 0.2	0.2	1.8	14.0	3.5	0.4		0.0 0.0 0.0
2020 Sep. Oct. Nov.	0.7 0.7 0.8	0.0	0.3	1.1	0.7 0.7 0.8	1.0 0.9	0.4 0.4 0.5	0.1 0.1 0.1	0.1 0.1 0.1	0.1 0.1 0.1	0.4	4.6	2.9	0.1	0.3	0.0 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 loan associations, claims arising from registered debt securities and central bank credit balances. 2 Loans under savings and loan contracts and interim and bridging loans. 3 Including money market paper and small amounts of other securities issued by banks. 4 Including equalisation claims. 5 Including liabilities to building and loan 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) *

bil	

	Number of			Lending to banks (MFIs)				Lending to non-banks (non-MFIs)				Other assets 7			
	German				Credit bala	nces and loa	ins			Loans					
Period	banks (MFIs) with foreign branches and/or foreign subsi- diaries	foreign branches 1 and/or foreign subsi- diaries	Balance sheet total 7	Total	Total	German banks	Foreign banks	Money market paper, secur- ities 2,3	Total	Total	to German non- banks	to foreign non- banks	Money market paper, secur- ities 2	Total	of which: Derivative financial instruments in the trading portfolio
		branche												d of year o	
2017 2018 2019	52 49 52	188 183 198	1,647.8 1,401.2 1,453.0	493.9 403.8 407.3	484.1 392.8 389.2	197.1 192.1 216.0	287.0 200.7 173.2	9.8 11.0 18.1	528.8 516.8 534.3	443.2 427.7 436.1	13.1 20.0 19.7	430.1 407.7 416.4	85.6 89.1 98.2	625.1 480.5 511.5	402.9 309.0 361.7
2020 Jan. Feb. Mar.	52 52 52	198 199 199	1,597.9 1,725.2 1,888.5	431.9 445.3 483.7	413.6 427.1 465.3	224.2 240.5 248.9	189.4 186.6 216.4	18.3 18.2 18.4	566.2 583.5 590.4	470.8 493.8 495.8	19.9 19.5 20.5	450.8 474.3 475.3	95.4 89.7 94.6	599.8 696.4 814.4	433.8 534.6 650.7
Apr. May June	52 52 52	199 198 198	1,875.4 1,823.5 1,780.3	473.2 442.7 440.7	455.1 425.6 426.2	261.5 248.0 250.4	193.7 177.6 175.8	18.0 17.2 14.5	584.5 571.6 559.5	492.6 475.7 463.9	20.5 19.6 19.6	472.1 456.1 444.3	91.9 95.9 95.6	817.8 809.2 780.1	646.0 632.1 608.1
July Aug. Sep.	51 51 51	206 206 206	1,774.6 1,684.1 1,672.4	438.1 419.5 407.7	424.1 405.5 393.3	264.7 250.8 242.2	159.4 154.8 151.1	14.0 14.0 14.4	546.4 535.1 544.2	452.9 437.8 447.5	19.7 19.2 18.9	433.3 418.6 428.7	93.5 97.2 96.7	790.1 729.5 720.5	625.7 563.8 543.7
Oct.	51	207	1,638.9	409.7	395.6	243.0	152.6	14.1	537.6	438.4	18.2	420.2	99.2	•	
2018	- 3	- 5	-250.2	- 101.0	-102.0	- 5.0	- 97.0	+ 1.0	-24.8	- 27.1	+ 7.0	- 34.1	+ 2.4	- 148.2	Changes *
2019	+ 3	+ 15	+ 51.5	- 4.7	- 7.7	+ 23.9	- 31.6	+ 2.9	+12.6	+ 0.9	- 0.3	+ 1.2	+11.7	+ 30.6	+ 49.6
2020 Feb. Mar.	_	+ 1	+126.9 +163.4	+ 12.9 + 38.8	+ 13.0 + 38.6	+ 16.4 + 8.4	- 3.4 + 30.2	- 0.1 + 0.2	+ 16.2 + 8.6	+ 22.0 + 3.5	- 0.5 + 1.0	+ 22.5 + 2.5	- 5.9 + 5.1	+ 96.2 + 118.1	+ 100.2 + 116.4
Apr. May June	- - -	- 1 - 1	- 13.6 - 50.5 - 42.8	- 12.1 - 27.0 - 1.2	- 11.7 - 26.4 + 1.4	+ 12.6 - 13.5 + 2.4	- 24.2 - 12.9 - 1.0	- 0.5 - 0.6 - 2.7	- 9.6 - 4.4 - 9.8	- 6.3 - 9.4 - 9.9	+ 0.1 - 1.0 + 0.0	- 6.4 - 8.4 - 9.9	- 3.2 + 5.0 + 0.1	+ 2.8 - 7.1 - 28.7	- 6.4 - 9.0 - 22.8
July Aug. Sep.	- 1 - -	+ 9 - -	- 3.1 - 90.2 - 12.5	+ 2.4 - 17.9 - 13.1	+ 2.6 - 17.9 - 13.5	+ 14.3 - 13.9 - 8.6	- 11.7 - 4.0 - 4.9	- 0.2 - 0.1 + 0.4	+ 0.7 - 9.5 + 5.2	+ 0.8 - 13.5 + 6.5	+ 0.1 - 0.4 - 0.4	+ 0.7 - 13.1 + 6.9	- 0.1 + 4.1 - 1.2	+ 12.6 - 60.2 - 9.8	+ 26.8 - 60.6 - 22.9
Oct.	-	+ 1	- 33.6	+ 1.7	+ 2.0	+ 0.8	+ 1.2	- 0.3	- 7.6	- 10.0	- 0.7	- 9.3	+ 2.4	- 29.1	- 19.6
		subsidia											_		or month *
2017 2018 2019	20 17 15	50 43 41	276.6 237.2 235.2	70.4 51.2 52.5	63.9 45.4 46.7	25.0 20.1 18.3	39.0 25.3 28.4	6.5 5.8 5.7	149.5 136.4 139.0	122.2 111.7 116.1	22.2 13.8 14.4	99.9 97.8 101.7	27.4 24.7 22.9	56.7 49.6 43.7	0.0 0.0 0.0
2020 Jan. Feb. Mar.	15 15 15	40 40 40	240.2 247.0 246.2	52.4 57.7 55.7	47.0 52.0 49.3	20.1 20.3 19.5	26.9 31.7 29.9	5.5 5.7 6.4	141.0 141.4 143.9	117.5 117.6 121.7	14.0 14.0 15.1	103.4 103.5 106.7	23.6 23.9 22.1	46.8 47.8 46.7	0.0 0.0 0.0
Apr. May June	14 14 13	39 39 38	244.4 245.7 247.4	50.8 52.1 53.5	44.2 45.9 47.2	19.7 19.4 20.9	24.5 26.5 26.3	6.6 6.2 6.4	143.9 142.9 143.1	120.6 119.2 118.3	15.4 15.6 15.1	105.3 103.6 103.2	23.3 23.7 24.8	49.6 50.8 50.7	0.0 0.0 0.0
July Aug. Sep.	13 12 12	37 36 36	238.4 237.6 237.1	46.0 46.8 49.5	40.3 41.2 44.2	19.9 19.6 18.8	20.4 21.6 25.4	5.7 5.6 5.3	141.2 140.9 142.6	115.8 115.9 117.2	14.8 14.6 14.2	101.1 101.3 103.0	25.4 25.0 25.4	51.2 49.8 45.1	0.0 0.0 0.0
Oct.	12	36	235.7	44.4	39.2	18.4	20.8	5.2	142.5	116.9	14.2	102.7	25.6	48.9	0.0
2010				200	100	1 40	1 454	101	142						Changes *
2018 2019	- 3 - 2	- 7 - 2	- 42.2 - 7.2	- 20.9 + 0.4	- 19.9 + 0.5	- 4.9 - 1.8	- 15.1 + 2.3	- 1.0 - 0.2	- 14.2 + 1.6	- 11.6 + 3.5	- 8.4 + 0.5	- 3.2 + 3.0	- 2.6 - 1.9	- 7.0 - 9.1	± 0.0 ± 0.0
2020 Feb. Mar.	_	_	+ 6.4 - 0.6	+ 5.1 - 2.1	+ 4.9 - 2.7	+ 0.3 - 0.9	+ 4.6 - 1.8	+ 0.2 + 0.7	+ 0.3 + 2.6	- 0.1 + 4.3	- 0.0 + 1.1	- 0.0 + 3.2	+ 0.3 - 1.7	+ 1.0 - 1.1	± 0.0 ± 0.0
Apr. May June	- 1 - - 1	- 1 - - 1	- 2.5 + 3.0 + 2.0	- 5.2 + 2.0 + 1.6	- 5.3 + 2.3 + 1.4	+ 0.2 - 0.3 + 1.5	- 5.5 + 2.5 - 0.1	+ 0.2 - 0.3 + 0.2	- 0.3 - 0.2 + 0.4	- 1.4 - 0.6 - 0.7	+ 0.3 + 0.2 - 0.5	- 1.7 - 0.8 - 0.2	+ 1.1 + 0.4 + 1.2	+ 3.0 + 1.1 - 0.1	± 0.0 ± 0.0 ± 0.0
July Aug. Sep.	- - 1 -	- 1 - 1 -	- 5.8 - 0.5 - 1.3	- 5.9 + 1.0 + 2.2	- 5.5 + 1.0 + 2.6	- 0.9 - 0.3 - 0.9	- 4.6 + 1.4 + 3.5	- 0.3 - 0.0 - 0.4	- 0.5 - 0.1 + 1.3	- 1.0 + 0.2 + 0.9	- 0.3 - 0.2 - 0.4	- 0.7 + 0.4 + 1.3	+ 0.5 - 0.3 + 0.4	+ 0.6 - 1.4 - 4.8	± 0.0 ± 0.0 ± 0.0
Oct.	-	-	- 1.6	- 5.2	- 5.0	- 0.4	- 4.7	- 0.1	- 0.2	- 0.4	+ 0.0	- 0.4	+ 0.1	+ 3.8	± 0.0

^{*} In this table "foreign" also includes the country of domicile of the foreign branches and foreign subsidiaries. Statistical breaks have been eliminated from the changes. (Breaks owing to changes in the reporting population have not been eliminated from

Deposits											Other liabilitie	s 6,7]
	of banks (M	FIs)		of non-banks	(non-MFIs)]]
					German nor	n-banks 4							
Total '	Total	German banks	Foreign banks	Total	Total	Shortterm	Medium and longterm	Foreign non-banks	Money market paper and debt securities outstand- ing 5	Working capital and own funds	Total	of which: Derivative financial instruments in the trading portfolio	Period
End of yea	ar or mo	nth *									Foreig	n branches	
1,000.3 897.1 894.1	682.5 607.2 613.6	372.8 428.8 453.2	309.7 178.4 160.4	317.8 290.0 280.5	16.0 11.4 12.7		1.9 1.8 2.7	301.8 278.5 267.8	97.0 91.2 94.6	51.9 54.0 53.4	498.6 358.9 410.9	399.2 302.6 361.1	2017 2018 2019
955.1 975.4 1,030.8	659.0 660.5 718.6	468.1 471.1 458.6	190.9 189.4 260.0	296.1 314.9 312.3	13.6 13.7 15.1	10.8 10.7 12.0	2.7 3.0 3.1	282.5 301.2 297.2	106.3 110.1 97.2	54.1 54.2 54.7	482.4 585.5 705.7	432.8 533.6 650.4	2020 Jan. Feb. Mar.
1,028.3 994.0 979.1	725.0 695.4 680.0	474.8 484.1 484.2	250.2 211.3 195.8	303.4 298.7 299.1	14.6 15.3 14.5	11.9 13.1 12.6	2.7 2.2 1.9	288.7 283.3 284.6	92.2 93.5 85.7	55.0 54.7 54.3	699.9 681.2 661.3	644.4 630.2 607.6	Apr. May June
959.1 943.2 945.7	661.2 655.1 650.5	468.6 460.9 473.7	192.6 194.2 176.8	297.9 288.1 295.2	17.3 14.4 15.4	13.8	1.8 1.7 1.7	280.6 273.7 279.8	80.2 74.9 76.8	53.5 52.4 52.6	681.8 613.6 597.4	624.2 563.1 544.0	July Aug. Sep.
932.4	632.6	451.1	181.5	299.9	14.0	12.3	1.7	285.9	76.7	50.9	578.9	523.9	Oct.
Changes *	- 84.7	+ 56.0	- 140.8	- 28.3	- 4.6	- 4.4	- 0.2	- 23.8	- 9.4	+ 2.0	- 139.7	- 105.7	2018
- 7.2 + 19.7 + 56.0	+ 2.4 + 0.9 + 58.5	+ 24.4 + 3.0 - 12.5	- 22.0 - 2.1 + 71.0	- 9.6 + 18.7 - 2.5	+ 1.3 + 0.1 + 1.4		+ 0.9 + 0.2 - 0.1	- 10.9 + 18.6 - 3.9	+ 3.0 + 3.4 - 12.8	- 0.6 + 0.1 + 0.5	+ 52.0 + 103.1 + 120.2	+ 58.5 + 100.8 + 116.8	2019 2020 Feb. Mar.
- 4.6 - 29.9 - 14.0	+ 4.5 - 25.4 - 14.5	+ 16.3 + 9.3 + 0.1	- 11.8 - 34.7 - 14.6	- 9.0 - 4.5 + 0.5	- 0.4 + 0.7 - 0.9	- 0.1 + 1.2 - 0.5	- 0.4 - 0.4 - 0.4	- 8.6 - 5.2 + 1.4	- 5.6 + 2.8 - 7.4	+ 0.3 - 0.3 - 0.5	- 5.8 - 18.6 - 20.0	- 6.1 - 14.2 - 22.6	Apr. May June
- 13.9 - 15.0 + 0.4	- 13.2 - 5.1 - 6.7	- 15.6 - 7.7 + 12.8	+ 2.4 + 2.5 - 19.5	- 0.7 - 9.8 + 7.1	+ 2.9 - 2.9 + 1.0	+ 3.0 - 2.9 + 1.1	- 0.1 - 0.0 - 0.1	- 3.6 - 6.9 + 6.0	- 2.8 - 5.0 + 1.1	- 0.8 - 1.1 + 0.1	+ 20.5 - 68.2 - 16.2	+ 16.6 - 61.1 - 19.1	July Aug. Sep.
- 13.6	- 18.3	- 22.6	+ 4.4	+ 4.6	- 1.4	- 1.5	+ 0.0	+ 6.1	- 0.2	- 1.7	- 18.5	- 20.1	Oct.
End of yea	ar or mo	nth *									Foreign	subsidiaries	
207.1 171.5 165.7	96.3 71.6 68.7	49.8 36.1 36.6	46.5 35.5 32.1	110.8 100.0 97.0	12.0 9.1 6.6	6.4	5.8 2.7 2.7	98.8 90.8 90.4	13.0 14.3 16.0	24.2 22.4 22.1	32.3 29.0 31.4	0.0 0.0 0.0	2017 2018 2019
170.1 176.3 176.1	70.5 73.5 75.1	37.3 38.6 39.8	33.2 35.0 35.3	99.6 102.7 101.0	6.4 6.8 6.7		2.7 2.7 2.6	93.2 95.9 94.3	16.5 16.4 15.6	21.7 21.7 21.3	32.0 32.7 33.3	0.0 0.0 0.0	2020 Jan. Feb. Mar.
175.3 177.7 178.8	76.8 76.5 74.8	43.3 42.2 41.0	33.6 34.3 33.7	98.5 101.2 104.1	6.9 7.1 6.8	4.4 4.5 4.3	2.5 2.5 2.5	91.6 94.2 97.3	15.8 15.5 16.4	20.8 20.8 20.8	32.4 31.7 31.4	0.0 0.0 0.0	Apr. May June
171.1 171.1 170.3	67.2 66.1 66.5	38.9 38.1 37.1	28.3 28.0 29.4	103.9 105.0 103.7	7.3 7.1 6.7	4.6	2.5 2.5 2.5	96.6 97.9 97.0	16.6 16.5 16.8	20.7 20.6 20.5	30.1 29.4 29.5	0.0 0.0 0.0	July Aug. Sep.
167.9	63.5	35.3	28.3	104.4	7.4	4.9	2.5	96.9	17.7	20.5	29.6	0.0	Oct.
Changes *	- 25.8	- 13.7	- 12.0	- 11.7	- 2.8	+ 0.2	- 3.0	- 8.8	+ 1.3	- 1.8	- 4.3	 ± 0.0	2018
- 6.7 + 6.0	- 3.2 + 2.9	+ 0.5	- 12.0 - 3.8 + 1.6	- 3.5 + 3.0	- 2.5 + 0.4	- 2.5	+ 0.0	- 1.0 + 2.6	+ 1.7	- 0.4 - 0.0	- 1.8 + 0.5	± 0.0 ± 0.0	2019 2020 Feb.
- 0.1 - 1.1	+ 1.6	+ 1.2 + 3.5	+ 0.4	- 1.7 - 2.7	- 0.1 + 0.2		- 0.1 - 0.1	- 1.6 - 2.9	- 0.8 + 0.2	- 0.4 - 0.5	+ 0.7	± 0.0 ± 0.0	Mar. Apr.
+ 3.4 + 1.4 - 5.4	+ 0.2 - 1.6 - 6.4	- 1.1 - 1.1 - 2.1	+ 1.3 - 0.5 - 4.3	+ 3.2 + 3.0 + 1.0	+ 0.2 - 0.2 + 0.5		- 0.0 - 0.0 - 0.0	+ 3.0 + 3.2 + 0.5	- 0.3 + 0.9 + 0.2	- 0.0 - 0.0 - 0.1	- 0.2 - 0.2 - 0.5	± 0.0 ± 0.0 ± 0.0	May June July
+ 0.2 - 1.5	- 1.0 + 0.2	- 0.8 - 1.0	- 0.2 + 1.1	+ 1.3	- 0.2 - 0.3	- 0.2	- 0.0 - 0.0	+ 1.5	- 0.1 + 0.3	- 0.1 - 0.1	- 0.6 - 0.1	± 0.0 ± 0.0	Aug. Sep.

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. ${\bf 6}$ Including subordinated liabilities. ${\bf 7}$ See also Table IV.2, footnote 1.

V. Minimum reserves

1. Reserve maintenance in the euro area

€ billion

Maintenance period beginning in 1	Reserve base 2	before deduction of	Required reserves after deduction of lump-sum allowance 4	Current accounts 5	Excess reserves 6	Deficiencies 7
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	11,918.5	119.2	118.8	919.0	800.3	0.0
2017	12,415.8	124.2	123.8	1,275.2	1,151.4	0.0
2018	12,775.2	127.8	127.4	1,332.1	1,204.8	0.0
2019	13,485.4	134.9	134.5	1,623.7	1,489.3	0.0
2020 Nov.	14,438.3	144.4	144.0	2,960.7	2,816.7	0.0
Dec. P	14,590.4	145.9	145.5	·	·	
2021 Jan. P						

2. Reserve maintenance in Germany

€ million

Maintenance period beginning in 1	Reserve base 2	German share of euro area reserve base as a percentage	before deduction of	Required reserves after deduction of lump-sum allowance 4	Current accounts 5	Excess reserves 6	Deficiencies 7
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	3,371,095	28.3	33,711	33,546	301,989	268,443	0
2017	3,456,192	27.8	34,562	34,404	424,547	390,143	2
2018	3,563,306	27.9	35,633	35,479	453,686	418,206	1
2019	3,728,027	27.6	37,280	37,131	486,477	449,346	0
2020 Nov.	4,006,632				884,697	844,776	0
Dec. P	4,020,792	27.6	40,208	40,062			
2021 Jan. p							

a) Required reserves of individual categories of banks

€ million

	CITIMION						
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
2013 2014 2015 2016 2017 2018 2019	5,189 5,593 6,105 6,384 6,366 7,384 7,684	4,705 4,966 5,199 5,390 5,678 4,910 5,494	1,437 1,507 2,012 2,812 3,110 3,094 2,765	9,306 9,626 10,432 10,905 11,163 11,715 12,273	5,123 5,375 5,649 5,960 6,256 6,624 7,028	239 216 226 236 132 95 109	1,312 1,578 1,859 1,699 1,658
2020 Nov. Dec.	8,212 8,151	6,214 6,371	3,158 3,019	12,650 12,912	7,456 7,547	110 111	2,119 2,028
2021 Jan.	8,511	6,236	3,123	12,920	7,613	114	1,987

b) Reserve base by subcategories of liabilities

€ million

Maintenance period beginning in 1	deposits, deposits with build- ing and loan associations and repos) to non-MFIs with	resident in euro area countries but not subject to minimum reserve		Savings deposits with agreed periods of notice of up	Liabilities arising from bearer debt securities issued with agreed maturities of up to 2 years and bearer money market paper after deduction of a standard amount for bearer debt certificates or deduction of such paper held by the reporting institution
2013	1,795,844		255,006		90,159
2014	1,904,200	1,795	282,843	601,390	86,740
2015	2,063,317	1,879	375,891	592,110	104,146
2016	2,203,100	1,595	447,524	585,099	133,776
2017	2,338,161	628	415,084	581,416	120,894
2018	2,458,423	1,162	414,463	576,627	112,621
2019	2,627,478	1,272	410,338	577,760	111,183
2020 Nov. Dec.	2,883,892 2,923,462		443,559 436,696	561,169 560,770	116,350 105,880
2021 Jan.	2,946,084	5,935	448,093	560,661	104,201

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 1 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 has 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 / base rates

% per annum

	3 interest rates												
ECB interest rates													
		Main refi operation		Mar-			Main refi operation		Mar-		Base rate		Base rate
Applicable from	Deposit facility	Fixed rate	Minimum bid rate	ginal lending facility	Applicable from	Deposit facility	Fixed rate	Minimum bid rate	ginal lending facility	Applicable from	as per Civil Code 1	Applicable from	as per Civil Code 1
2005 Dec. 6	1.25	-	2.25		2011 Apr. 13 July 13	0.50 0.75	1.50	_	2.00 2.25	July 1	2.57 2.47	2009 Jan. 1 July 1	1.62 0.12
2006 Mar. 8 June 15	1.50 1.75	_	2.50 2.75	3.50 3.75	Nov. 9 Dec. 14	0.50 0.25	1.25 1.00	-	2.00 1.75	2003 Jan. 1	1.97	2011 July 1	0.37
Aug. 9 Oct. 11 Dec. 13	2.00 2.25 2.50	=	3.00 3.25 3.50	4.00 4.25 4.50	2012 July 11	0.00	0.75	-	1.50	July 1 2004 Jan. 1	1.22	2012 Jan. 1	0.12
2007 Mar. 14	2.75	_	3.75	4.75	2013 May 8	0.00 0.00		-	1.00 0.75		1.13	2013 Jan. 1 July 1	- 0.13 - 0.38
June 13	3.00	-	4.00	5.00		-0.10		_	0.40	2005 Jan. 1 July 1	1.21 1.17	2014 Jan. 1	- 0.63
2008 July 9 Oct. 8	3.25 2.75	- -	4.25 3.75	5.25 4.75	Sep. 10	-0.20		-	0.30		1.37	July 1	- 0.73
Oct. 9 Nov. 12	3.25 2.75	3.75 3.25	- -	4.25 3.75	2015 Dec. 9	-0.30		-	0.30	'	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. 1 July 1	2.70 3.19	2016 July 1	- 0.88
2009 Jan. 21 Mar. 11 Apr. 8	1.00 0.50 0.25	2.00 1.50 1.25	- - -	3.00 2.50 2.25		-0.50	0.00	-	0.25	2008 Jan. 1 July 1	3.32 3.19		
May 13	0.25	1.00		1.75						July I	3.19		

¹ Pursuant to Section 247 of the Civil Code.

2. Eurosystem monetary policy operations allotted through tenders *

			Fixed rate tenders	Variable rate tenders			
	Bid amount	Allotment amount	Fixed rate	Minimum bid rate	Marginal rate 1	Weighted average rate	
Date of Settlement	€ million		% per annum				Running for days
Main refinan	cing operations						
2020 Dec. 1 Dec. 2 Dec. 3	6 344 3 262 0 468 6 180 3 521	262 468 180	0.00 0.00 0.00 0.00 0.00	- - -	- - - -	- - - -	7 7 7 7 7
Long-term re	financing operation	ons					
Nov. 2 Dec. Dec. 1	5 747 6 293 3 1,881 6 50,414 7 478	293 1,881 50,414	2 2 2 2 2	- - - - -	- - - - -	- - - -	266 91 238 1,099 105

^{*} 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: a) the average minimum bid rate of the main refinancing operations over the life of this

operation including a spread or b) the average deposit facility rate over the life of this operation

3. Money market rates, by month *

% per annum

Monthly average 2020 June July Aug. Sep. Oct. Nov.

		EURIBOR 2	URIBOR 2										
€STR 1	EONIA 1	One-week funds	One-month funds	Three-month funds	Six-month funds	Twelve-month funds							
- 0.546	- 0.46	- 0.52	- 0.49	- 0.38	- 0.22	- 0.15							
- 0.550	- 0.46	- 0.53	- 0.51	- 0.44	- 0.35	- 0.28 - 0.36 - 0.41							
- 0.553	- 0.47	- 0.53	- 0.52	- 0.48	- 0.43	- 0.36							
- 0.554	- 0.47	- 0.54	- 0.52	- 0.49	- 0.46								
- 0.554	- 0.47	- 0.54	- 0.54	- 0.51	- 0.49	- 0.47							
- 0.556		- 0.55	- 0.54	- 0.52	- 0.51	- 0.47 - 0.48 - 0.50							
- 0.557	- 0.47	- 0.56	- 0.56	- 0.54	- 0.52	- 0.50							

^{*} Averages are Bundesbank calculations. Neither the Deutsche Bundesbank nor anyone else can be held liable for any irregularity or inaccuracy of the EONIA or the EURIBOR.

1 Euro overnight index average: weighted average overnight rate for interbank operations; calculated by the European Central Bank from January 4th 1999 until

September 30th 2019 based on real turnover according to the act/360 method. Since October 1st 2019 calculated as Euro Short-Term Rate (€STR) + 8.5 basis points spread.

2 Euro interbank offered rate: unweighted average rate calculated by Reuters since 30 December 1998 according to the act/360 method.

End of month 2019 Nov Dec 2020 Jan Feb. Mar. Apr. May July Aug Sep. Oct. Nov.

End of

month

2019 Nov

2020 Jan.

Feh

Mar.

Apr. May June

July

Aug. Sep.

Oct.

Nov.

VI. Interest rates

- 4. Interest rates and volumes for outstanding amounts and new business of German banks (MFIs) *
- a) Outstanding amounts o

Households' deposits				Non-financial corporations' deposits					
with an agreed matur	ity of								
up to 2 years		over 2 years		up to 2 years		over 2 years			
Effective interest rate 1 % p.a.	Volume ² € million	Effective interest rate 1 % p.a.	Volume ² € million	Effective interest rate ¹ % p.a.	Volume ² € million	Effective interest rate 1 % p.a.	Volume ² € million		
0.22	57,815	1.12	217,794	- 0.02	63,482	0.85	27,75		
0.23	57,910	1.12	219,819	- 0.05	66,312	0.84	27,52		
0.23	57,198	1.11	220,060	- 0.05	65,777	0.83	27,35		
0.23	56,142	1.10	220,286	- 0.05	65,820	0.84	26,65		
0.24	54,034	1.10	219,797	- 0.07	68,925	0.82	26,15		
0.24	52,567	1.09	219,117	- 0.07	71,964	0.82	25,69		
0.24	53,093	1.08	219,267	- 0.08	80,523	0.83	24,93		
0.25	53,752	1.07	218,668	- 0.05	77,282	0.85	24,17		
0.26	53,945	1.06	218,177	- 0.08	86,703	0.90	22,65		
0.26	53,971	1.03	218,020	- 0.08	82,164	0.89	22,50		
0.26	54,068	1.02	218,212	- 0.10	82,957	0.92	23,50		
0.26	53,982	1.01	218,002	- 0.11	84,498	0.89	22,35		
0.26	52,719	1.00	217,758	- 0.11	80,549	0.85	22,25		

Housing loans to households 3 Loans to households for consumption and other purposes 4,5 with a maturity of over 1 year and over 1 year and up to 1 year 6 over 5 years up to 1 year 6 over 5 years up to 5 years up to 5 years Effective Effective Effective Effective Effective Effective interest rate 1 % p.a. Volume 2 interest rate 1 Volume 2 interest rate Volume 2 interest rate Volume 2 interest rate 1 Volume 2 interest rate 1 Volume 2 € million € million € million € million % p.a % p.a. € million % p.a % p.a. € million % p.a 318 019 2.07 4 787 26 726 2 22 1 265 217 48 412 3 44 87 638 3 67 2.07 4,610 1.71 26,616 2.20 1,268,612 7.12 50,916 3.44 87,320 3.65 316,610 2.05 4,755 4.813 1.69 26,351 2.18 1,271,558 7.18 7.18 49,713 3.43 87,413 3.63 317,814 2.01 1 69 26 388 2 16 1 278 149 49 016 3 43 87 594 3 62 318 931 2.04 4,755 1.68 26,516 2.14 1,284,212 7.33 49,209 3.42 87,284 3.61 318,802 4,673 4,752 1,291,221 1,299,073 1.99 1.97 1.66 26,483 2.12 45,827 44,605 3.41 86,755 86,303 3.59 3.57 319,658 1.66 26.603 7.03 3.41 320.868 1.98 4,628 1.65 26,702 2.09 1,303,405 7.05 46,438 3.41 86,046 3.57 319,461 4,720 4,727 26,707 1,312,369 1,315,489 45,560 45,609 3.55 3.53 321,139 321,757 1.99 1.65 2.06 7.02 3.41 86,188 2.05 1.98 1.64 26.690 6.98 3.40 86.216 1.95 4,705 1.62 26,940 2.03 1,329,087 6.96 46,438 3.39 86,231 3.50 322,100 1.92 1.92 45,325 44,787 4,792 26,962 2.00 1.99 1,337,259 6.86 85,849 3.48 323,886 1.62 3.38 4.616 1.60 27.072 1.345.468 6.83 85,328 3.46 324,153 3.38

Loans to non-financial corporations with a maturity of up to 1 year 6 over 1 year and up to 5 years over 5 years End of Effective interest rate 1 Volume ² € million Effective interest rate 1 Volume 2 Effective interest rate 1 Volume 2 % p.a. % p.a. % p.a. 2.21 2.24 171,713 171,388 163,260 739.461 162,074 1.64 1.88 2.20 2.21 169,238 171,571 161,563 1.64 1.86 741,004 Feh 163 078 1 62 1 86 745 054 Mar 2.05 182,434 1.62 174,636 1.84 746,742 Apr. May June 177,975 182.819 1.98 185,780 1.63 1.83 752,025 1 95 181 594 1 62 1 82 761 686 2.02 172,708 1.66 184,793 1.81 766,896 186,433 769,953 779,570 July 1.96 169,944 1.66 1.80 Aug. Sep. 187.678 1.98 165,184 1.66 1.79 2.07 160,014 1.68 186,700 1.77 774,045 Oct. 779,595 784,304 Nov 2.06 154.555

month 2019 Nov 2020 Jan.

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 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 corporations, banks and other financial include all enterprises order than insurance corporations, 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/Money and capital markets/Interest rates and yields/Interest rates on deposits and loans). • The statistics on outstanding amounts are collected at the end of the month. • 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 intering credit as well as transpired learn greated by the proportion great in their own pares. 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 the consumption of the purpose such as the purpose of the purpose of the purpose of the purpose such as the purpose of the business, debt consolidation, education, etc. 6 Including overdrafts (see also footnotes 12 to 14 on p. 47)

VI. Interest rates

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

Households' (deposits												
		with an agree	d maturity of					redeemable a	redeemable at notice 8 of				
Overnight		up to 1 year		over 1 year ar	nd up to 2 years		up to 3 mont	hs	over 3 month	S			
Effective interest rate 1 % p.a.	Volume ² € million	Effective interest rate 1 % p.a.	Volume 7 € million	Effective interest rate 1 % p.a.	Volume 7 € million	Volume 7 € million	Effective interest rate 1 % p.a.	Volume ² € million	Effective interest rate 1 % p.a.	Volume 2 € million			
0.01	1,550,441	0.18	2,617	0.66	674	0.58	999	0.12	538,889	0.23	35,551		
0.01	1,548,036	0.08	3,590	0.49	729	0.60	818	0.12	539,678	0.21	34,476		
0.01	1,550,487	0.14	4,181	0.44	640	0.63	939	0.11	536,842	0.19	32,999		
0.00	1,571,470	0.15	3,157	0.39	388	0.58	826	0.11	535,065	0.19	32,449		
0.00	1,567,320	0.12	2,538	0.40	286	0.60	658	0.11	531,723	0.18	31,794		
0.00	1,597,323	0.14	3,086	0.49	308	0.69	601	0.11	531,921	0.18	31,083		
0.00	1,619,447	0.19	3,300	0.59	1,117	0.60	629	0.11	532,140	0.17	30,662		
0.00	1,626,420	0.17	3,283	0.78	1,455	0.69	854	0.11	532,292	0.18	29,671		
0.00	1,643,393	0.15	3,296	0.60	1,161	0.74	750	0.10	531,191	0.18	29,168		
0.00	1,650,273	0.16	2,643	0.59	563	0.64	555	0.10	531,277	0.18	28,764		
0.00	1,658,764	0.10	3,027	0.51	501	0.61	590	0.10	531,223	0.18	28,417		
0.00	1,680,565	0.10	3,014	0.44	509	0.60	805	0.10	531,245	0.18	28,001		
0.00	1,703,498	0.11	2,483	0.49	404	0.61	747	0.10	531,513	0.18	27,578		

Reporting period
2019 Nov. Dec.
2020 Jan. Feb. Mar.
Apr. May June
July
Aug. Sep.
Oct.
Nov.

Non-financial corporations' deposits											
		with an agreed matur	ity of								
Overnight		up to 1 year		over 1 year and up to	2 years	over 2 years	over 2 years				
Effective interest rate 1 % p.a.	Volume ² € million	Effective interest rate 1 % p.a.	Volume 7 € million	Effective interest rate ¹ % p.a.	Volume ⁷ € million	Effective interest rate 1 % p.a.	Volume 7 € million				
- 0.04	476,945	- 0.21	11,165	- 0.03	389	0.32	654				
- 0.05	476,493	- 0.22	17,148	0.04	554	0.28	911				
- 0.06	468,336	- 0.11	18,221	0.12	278	0.34	158				
- 0.06	462,673	- 0.25	12,289	- 0.04	158	x .	x .				
- 0.07	482,538	- 0.27	20,845	0.04	235	x .	x .				
- 0.08	495,710	- 0.17	33,483	0.48	288	0.18	78				
- 0.08	501,848	- 0.24	37,552	0.55	707	0.30	259				
- 0.08	508,658	- 0.33	31,980	0.37	633	0.38	313				
- 0.08	520,954	- 0.33	40,301	0.36	592	0.26	208				
- 0.08	528,905	- 0.34	35,771	- 0.02	170	0.20	164				
- 0.08	532,597	- 0.36	37,956	- 0.01	112	0.43	275				
- 0.09	548,227	- 0.36	38,781	0.10	237	0.33	548				
- 0.09	549,030	- 0.37	30,391	0.04	176	0.35	533				

Reporting period
2019 Nov. Dec.
2020 Jan. Feb. Mar. Apr. May June July Aug. Sep.

Oct. Nov.

Loans to household	oans to households												
Loans for consumpt	ion 4 with an in	itial rate fixation	of										
Total (including charges)	Total		of which: Renegotiated	oans 9	floating rate o up to 1 year 9	r	over 1 year an up to 5 years	d	over 5 years				
Annual percentage rate of charge 10 % p.a.	Effective interest rate 1 % p.a.	Volume 7 € million	Effective interest rate 1 % p.a.	Volume 7 € million	Effective interest rate 1 % p.a.	Volume 7 € million	Effective interest rate 1 % p.a.	Volume 7 € million	Effective interest rate 1 % p.a.	Volume 7 € million			
5.75	5.73	8,369	6.60	1,654	8.54	493	4.36	3,056	6.32	4,821			
5.74	5.75	7,033	6.47	1,288	8.59	590	4.38	2,640	6.26	3,804			
6.07	6.03	10,080	6.85	2,379	8.94	626	4.45	3,307	6.58	6,148			
5.81	5.81	9,284	6.65	1,995	8.58	538	4.41	3,155	6.34	5,591			
5.84	5.81	9,742	6.35	1,982	8.46	483	4.57	3,209	6.26	6,050			
6.31	6.21	7,843	6.08	1,482	8.11	361	5.06	2,291	6.59	5,190			
5.93	5.80	7,945	6.23	1,620	7.79	494	4.49	2,843	6.39	4,608			
5.87	5.72	8,758	6.41	1,841	8.62	401	4.39	3,258	6.34	5,099			
5.74	5.63	9,986	6.52	2,114	8.75	439	4.26	3,744	6.29	5,804			
5.74	5.62	8,340	6.43	1,738	8.79	391	4.33	3,050	6.18	4,899			
5.56	5.52	8,638	6.42	1,726	8.53	417	4.12	3,286	6.19	4,936			
5.73	5.62	8,265	6.36	1,739	8.39	436	4.32	2,905	6.14	4,924			
5.70	5.62	7,782	6.24	1,560	8.87	568	4.26	2,798	6.06	4,416			

Reporting period 2019 Nov. Dec. 2020 Jan. Feb. Mar. Apr. May June July Aug. Sep. Oct.

For footnotes * and 1 to 6, see p. 44°. For footnote x see p. 47°. + For deposits 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 corporations and the bank. The interest rates are calculated as volume-weighted average rates of all new agreements concluded during the reporting month. For 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 premiums. **9** Excluding overdrafts. **10** Annual percentage rate of charge, which contains other related charges which may occur for enquiries, administration, preparation of the documents, guarantees and credit insurance.

VI. Interest rates

- 4. Interest rates and volumes for outstanding amounts and new business of German banks (MFIs) * (cont'd) b) New business $^{+}$

	Loans to households (cont'd)													
	Loans to househo	lds for other purpo	ses 5 with an initi	ial rate fixation of										
	Total		of which: Renegotiated loa	ans 9	floating rate or up to 1 year 9		over 1 year and up to 5 years		over 5 years					
Reporting period	Effective interest rate 1 % p.a.	Volume 7 € million	Effective interest rate 1 % p.a.	Volume 7 € million	Effective interest rate 1 % p.a.	Volume 7 € million	Effective interest rate 1 % p.a.	Volume 7 € million	Effective interest rate 1 % p.a.	Volume 7 € million				
	Loans to ho	useholds												
2019 Nov. Dec.	1.63 1.63	5,178 6,393	1.58 1.74	1,046 1,399	1.61 1.66	2,022 2,662	2.28 2.07	722 1,016	1.45 1.44	2,434 2,715				
2020 Jan. Feb. Mar.	1.67 1.77 1.73	5,644 4,739 5,746	1.62 1.57 1.76	1,608 1,108 1,425	1.63 1.79 1.70	2,341 1,860 2,347	2.32 2.52 2.44	782 666 821	1.50 1.53 1.53	2,521 2,213 2,578				
Apr. May June	1.71 1.80 1.83	6,505 6,580 6,513	1.95 1.96 1.95	2,109 2,043 2,438	1.73 1.98 1.82	2,042 2,118 2,252	2.04 2.07 2.43	944 833 1,070	1.60 1.63 1.63	3,519 3,629 3,191				
July Aug. Sep.	1.78 1.88 1.83	5,293 4,210 4,517	1.61 1.60 1.60	1,536 1,055 1,170	1.84 1.94 1.98	2,241 1,710 1,997	2.32 2.55 2.37	774 773 612	1.53 1.51 1.51	2,278 1,727 1,908				
Oct. Nov.	1.80 1.84	4,279 4,023	1.60 1.61	1,214 930	1.95 1.96	1,832 1,729	2.47 2.44	578 585	1.44 1.51	1,869 1,709				
	of which:	Loans to sole	e proprietors	5										
2019 Nov. Dec.	1.74 1.79	3,478 4,258] :] :	1.80 1.93	1,297 1,691	2.40 2.40	532 637	1.48 1.47	1,649 1,930				
2020 Jan. Feb. Mar.	1.83 1.80 1.83	3,752 3,430 3,818			1.98 1.82 1.89	1,420 1,301 1,544	2.47 2.57 2.48	559 518 636	1.51 1.53 1.52	1,773 1,611 1,638				
Apr. May June	1.75 1.81 1.86	4,582 5,056 4,702			1.88 2.03 1.83	1,402 1,460 1,501	2.02 2.14 2.46	752 633 806	1.60 1.64 1.68	2,428 2,963 2,395				
July Aug. Sep.	1.81 1.76 1.85	3,472 2,755 3,019	· .		1.87 1.70 1.89	1,355 1,135 1,357	2.30 2.47 2.53	600 462 431	1.57 1.55 1.55	1,517 1,158 1,231				
Oct. Nov.	1.78 1.83	2,888 2,743			1.81 1.85	1,226 1,118	2.50 2.53	451 438	1.47 1.55	1,211 1,187				

	Loans to household	s (cont'd)											
	Housing loans 3 wit	h an initial rate	fixation of										
	Total (including charges)	Total		of which: Renegotiated loans ⁹		floating rate o up to 1 year 9	r	over 1 year and up to 5 years	d	over 5 year an up to 10 years		over 10 years	
Erhebungs- zeitraum	Annual percentage rate of charge 10 % p.a.	Effective interest rate 1 % p.a.	Volume 7 € million	Effective interest rate 1 % p.a.	Volume 7 € million	Effective interest rate 1 % p.a.	Volume 7 € million	Effective interest rate 1 % p.a.	Volume 7 € million	Effective interest rate 1 % p.a.	Volume 7 € million	Effective interest rate 1 % p.a.	Volume 7 € million
	Total loans												
2019 Nov. Dec.	1.31 1.34	1.26 1.29	22,234 20,048	1.41 1.48	3,066 2,938	1.84 1.81	2,206 2,396	1.30 1.37	1,663 1,553	1.09 1.14	6,889 6,622	1.25 1.27	11,475 9,477
2020 Jan. Feb. Mar.	1.39 1.33 1.27	1.34 1.28 1.22	21,927 20,546 25,314	1.47 1.36 1.38	3,871 2,902 3,761	1.83 1.82 1.83	2,545 2,019 2,503	1.32 1.33 1.32	1,797 1,499 1,872	1.16 1.13 1.07	7,106 6,555 8,045	1.35 1.26 1.18	10,479 10,474 12,894
Apr. May June	1.29 1.37 1.38	1.25 1.33 1.34	24,541 22,361 22,793	1.51 1.65 1.63	5,102 5,153 5,171	1.78 1.93 1.94	2,525 3,000 2,235	1.32 1.47 1.59	1,822 1,643 1,947	1.11 1.12 1.17	7,769 6,872 7,983	1.22 1.27 1.28	12,425 10,845 10,628
July Aug. Sep.	1.32 1.28 1.26	1.27 1.23 1.21	24,349 21,280 21,782	1.44 1.41 1.35	4,233 3,135 3,121	1.81 1.80 1.77	2,518 2,209 2,213	1.39 1.44 1.35	1,847 1,500 1,542	1.12 1.07 1.07	8,036 7,032 6,957	1.24 1.20 1.17	11,949 10,539 11,070
Oct. Nov.	1.24 1.22	1.19 1.17	23,217 23,185	1.24 1.28	3,834 3,113	1.75 1.72	2,362 2,372	1.32 1.28	1,554 1,708	1.03 1.03	7,579 7,413	1.17 1.14	11,722 11,692
	of which: C	Collateralise	ed loans	11									
2019 Nov. Dec.	:	1.19 1.20	9,173 8,740			1.75 1.79	738 758	1.09 1.15	787 719	1.03 1.07	2,848 2,898	1.22 1.19	4,800 4,365
2020 Jan. Feb. Mar.	:	1.26 1.18 1.13	9,963 8,867 11,461			1.77 1.73 1.76	891 641 828	1.14 1.14 1.15	888 702 925	1.07 1.04 0.98	3,130 2,785 3,673	1.30 1.19 1.13	5,054 4,739 6,035
Apr. May June		1.16 1.24 1.26	11,495 10,084 10,090			1.70 1.86 1.84	951 1,046 803	1.21 1.31 1.41	939 835 935	1.03 1.05 1.10	3,594 3,065 3,656	1.14 1.22 1.25	6,011 5,138 4,696
July Aug. Sep.		1.22 1.16 1.14	10,687 9,074 9,865			1.76 1.77 1.75	951 748 795	1.23 1.17 1.14	876 673 753	1.05 0.98 1.00	3,621 3,137 3,201	1.23 1.17 1.14	5,239 4,516 5,116
Oct. Nov.	:	1.14 1.10	10,142 10,137			1.73 1.61	806 819	1.12 1.10	748 823	1.00 0.96	3,239 3,182	1.14 1.11	5,349 5,313

For footnotes * and 1 to 6, see p. 44*. For footnotes + and 7 to 10, see p. 45*; footnote 11, see p. 47*.

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

Reporting period

2019 Nov. Dec.

2020 Jan. Feb. Mar.

Apr. May June

July

Aug. Sep.

Oct.

Loans to househo	lds (cont'd)					Loans to non-fin	ancial corporations	S		
		of which:						of which:		
Revolving loans 12 and overdrafts 13 Credit card debt 1		Revolving loans and overdrafts 1		Extended credit card debt		Revolving loans and overdrafts 1 Credit card debt	3	Revolving loans 12 and overdrafts 13		
Effective interest rate 1 % p.a.	Volume 2 € million	Effective interest rate 1 % p.a.	Volume ² € million	Effective interest rate 1 % p.a.	Volume ² € million	Effective interest rate 1 % p.a.	Volume ² € million	Effective interest rate 1 % p.a.	Volume ² € million	
7.72 7.62	39,142 41,902	7.62 7.69	30,666 32,556	15.11 15.11	4,517 4,576	2.95 3.05	81,340 79,862	2.97 3.07	80,912 79,476	
7.72 7.72 7.89	40,805 40,187 40,211	7.65 7.63 7.64	32,270 31,840 32,857	15.13 15.14 15.19	4,497 4,456 4,364	2.99 2.94 2.77	80,217 82,171 88,805	3.00 2.95 2.78	79,819 81,754 88,517	
7.73 7.60 7.63	36,930 35,719 37,486	7.35 7.23 7.39	30,063 28,731 30,074	15.19 15.24 15.22	4,262 4,194 4,183	2.71 2.66 2.86	85,888 83,133 81,829	2.72 2.67 2.87	85,702 82,928 81,584	
7.54 7.51 7.51	36,402 36,716 37,568	7.35 7.31 7.33	28,738 29,015 30,004	15.19 15.08 15.04	4,170 4,204 4,147	2.84 2.77 2.84	77,749 76,935 76,376	2.84 2.78 2.85	77,478 76,674 76,092	
7.42 7.41					4,144 4,108	2.75 2.74	76,056 75,596	2.76 2.75	75,773 75,326	

	Loans to r	non-financia	l corporatio	ns (cont'd)												
			of which:		Loans up t	o €1 millior	n 15 with an	initial rate	fixation of		Loans ove	r €1 million	15 with an	initial rate f	ixation of	
	Total		Renegotia loans 9	ted	floating rate or up to 1 year ⁹		over 1 yea up to 5 ye		over 5 years		floating rate or up to 1 year 9		over 1 year and up to 5 years		over 5 years	
Reporting period	Effective interest rate 1 % p.a.	Volume 7 € million	Effective interest rate 1 % p.a.	Volume 7 € million	Effective interest rate 1 % p.a.	Volume 7 € million	Effective interest rate 1 % p.a.	Volume 7 € million	Effective interest rate 1 % p.a.	Volume 7 € million	Effective interest rate 1 % p.a.	Volume 7 € million	Effective interest rate 1 % p.a.	Volume 7 € million	Effective interest rate 1 % p.a.	Volume 7 € million
	Total lo	ans														
2019 Nov. Dec.	1.27 1.29	72,910 102,587	1.33 1.40	19,516 27,151	2.04 2.10	10,266 10,584	2.48 2.40	1,416 1,608	1.42 1.45	2,206 2,396	1.10 1.15	48,917 73,303	1.43 1.36	3,070 4,483	1.09 1.18	7,990 11,129
2020 Jan. Feb. Mar.	1.24 1.19 1.20	73,322 65,885 96,389	1.34 1.36 1.44	22,883 17,452 24,539	1.98 1.95 1.88	10,775 9,727 10,920	2.45 2.45 2.34	1,509 1,329 1,666	1.53 1.47 1.47	2,545 2,019 2,503	1.03 0.98 1.06	51,717 43,225 69,385	1.39 1.30 1.31	2,121 3,425 3,884	1.26 1.07 1.14	5,911 7,058 9,067
Apr. May June	1.35 1.38 1.36	80,293 70,416 86,295	1.53 1.50 1.45	22,726 19,086 30,002	1.90 1.83 1.93	8,269 8,544 10,537	2.05 2.23 2.35	1,460 1,466 1,714	1.76 2.03 1.81	2,525 3,000 2,235	1.25 1.20 1.18	53,150 41,644 53,115	1.27 1.27 1.69	3,999 3,723 4,895	1.15 1.25 1.26	9,620 9,345 12,072
July Aug. Sep.	1.43 1.52 1.37	72,399 55,855 71,553	1.41 1.36 1.49	23,407 16,568 21,841	1.94 1.78 2.00	10,302 8,324 10,506	2.35 2.39 2.42	1,419 1,235 1,308	1.66 1.51 1.55	2,518 2,209 2,213	1.29 1.46 1.22	44,151 35,797 45,047	1.55 1.62 1.42	4,770 3,186 3,107	1.25 1.22 1.18	9,141 5,659 10,041
Oct. Nov.	1.37 1.35	66,721 64,462	1.36 1.39	20,690 18,016	1.99 1.96	10,358 9,898	2.38 2.25	1,354 1,343	1.49 1.53	2,362 2,372	1.17 1.25	42,053 37,081	1.73 1.47	4,238 4,017	1.18 0.96	7,163 10,476
	of w	hich: Co	llaterali	sed loar	ıs ¹¹											
2019 Nov. Dec.	1.35 1.38	9,204 17,816	:] :	1.87 1.71	465 553	2.47 2.43	129 174	1.19 1.28	329 402	1.47 1.41	4,566 11,704	1.66 1.46	800 1,422	0.95 1.17	2,915 3,561
2020 Jan. Feb. Mar.	1.23 1.48 x	9,108 8,690 x			1.71 1.66 1.74	661 448 548	2.47 2.23 x	147 96 x .	1.43 1.25 1.20	395 346 411	1.15 1.63 1.29	6,021 5,276 7,469	1.46 1.42 1.88	316 822 522	1.14 0.98 1.02	1,568 1,702 2,620
Apr. May June	1.34 1.48 1.39	9,734 7,873 13,750			1.72 2.02 1.81	492 471 558	1.56 1.73 2.05	243 171 224	1.22 1.90 1.71	556 865 776	1.39 1.43 1.31	5,375 4,286 8,391	1.44 1.72 1.64	513 336 1,048	1.15 1.16 1.28	2,555 1,744 2,753
July Aug. Sep.	1.37 1.47 1.37	10,021 7,045 11,059			1.80 1.85 1.72	504 362 508	1.96 2.14 2.08	133 123 105	1.31 1.26 1.22	478 369 353	1.42 1.52 1.41	5,085 4,544 7,417	1.59 1.79 1.85	1,108 458 535	1.10 1.05 1.03	2,713 1,189 2,141
Oct. Nov.	1.23 1.54	8,346 9,630			1.73 1.86	480 375	1.74 1.67	111 98	1.14 1.20	374 367	1.26 1.64	4,696 5,414	1.11 2.01	672 807	1.08 1.18	2,013 2,569

For footnotes * and 1 to 6, see p. 44•. For footnotes + and 7 to 10, see p. 45•, 11 For the purposes of the interest rate statistics, a loan is considered to be secured if collateral (amongst others financial collateral, real estate collateral, debt securities) in at least the same value as the loan amount has been posted, pledged or assigned. 12 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 a funds are borrowed and repaid; (c) the loan may be used repeatedly; (d) there is no obligation of regular repayment of funds. 13 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. 14 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 effected with the card during one billing cycle and the date at which the debt balances from this specific billing cycle become due. 15 The amount category refers to the single loan transaction considered as new business. x Dominated by the business of one or two banks. Therefore, the value cannot be published due to confidentiality.

VII. Insurance corporations and pension funds

1. Assets *

hil	

		Currency				Investment		Insurance		
End of year/quarter	Total	and deposits 1	Debt securities	Loans 2	Shares and other equity	fund shares/units	Financial derivatives	technical reserves	Non-financial assets	Remaining assets
	Insurance corporations									
2018 Q1	2,218.0	344.1	394.6	326.9	342.8	664.0	2.3	50.7	33.9	58.6
Q2	2,226.3	346.8	400.1	319.6	346.3	669.9	2.2	53.6	34.1	53.6
Q3	2,224.8	326.3	401.1	327.9	349.4	677.8	2.0	52.9	35.7	51.6
Q4	2,213.5	318.3	400.5	330.4	349.7	665.8	2.0	55.4	36.8	54.6
2019 Q1	2,344.4	332.3	432.0	330.0	380.9	708.8	2.6	59.3	37.1	61.4
Q2	2,407.9	336.8	449.5	339.3	387.8	735.7	3.6	57.9	37.1	60.3
Q3	2,493.0	333.0	469.2	357.2	398.1	768.2	4.6	58.7	38.0	66.0
Q4	2,474.4	317.1	449.3	355.8	407.1	778.2	3.6	64.9	39.8	58.7
2020 Q1	2,431.1	316.8	453.1	365.9	384.8	739.3	4.5	68.3	39.0	59.5
Q2	2,522.1	318.3	460.9	372.0	411.7	789.1	4.3	68.4	39.0	58.6
Q3	2,553.6	311.3	474.8	374.0	414.6	809.9	4.4	67.1	39.3	58.2
	Life insur	ance								
2018 Q1	1,187.6	212.5	198.8	206.7	43.1	481.8	1.2	8.5	19.4	15.5
Q2	1,195.2	215.3	201.6	200.5	46.3	487.9	1.1	8.8	19.5	14.2
Q3	1,194.1	199.7	201.6	209.0	47.3	493.9	1.0	8.8	19.3	13.4
Q4	1,185.3	194.5	200.1	208.4	50.4	484.7	1.0	11.6	20.3	14.3
2019 Q1	1,239.7	202.9	213.7	206.1	52.8	517.7	1.6	10.4	20.3	14.1
Q2	1,291.9	205.8	227.6	214.1	55.4	538.9	2.4	10.0	20.3	17.4
Q3	1,350.0	205.3	242.5	225.2	57.9	563.6	3.1	10.4	20.9	21.0
Q4	1,325.0	194.5	227.6	217.8	61.0	570.4	2.4	13.7	21.1	16.5
2020 Q1	1,296.5	190.6	230.6	221.4	62.0	538.8	2.2	13.7	20.7	16.4
Q2	1,348.1	193.0	234.5	223.6	64.1	577.3	2.8	13.6	20.7	18.6
Q3	1,370.6	188.6	242.3	225.9	65.7	593.0	3.0	13.6	20.9	17.7
	Non-life i	nsurance								
2018 Q1	623.2	120.2	112.7	75.1	72.1	167.0	0.3	34.6	9.8	31.5
Q2	621.6	120.1	115.7	72.9	72.9	167.4	0.3	35.6	9.8	27.0
Q3	617.9	116.3	116.1	72.8	73.7	168.9	0.2	34.9	9.8	25.1
Q4	616.2	113.8	117.4	73.7	73.8	167.4	0.2	33.5	10.8	25.6
2019 Q1	655.3	119.1	127.7	74.4	76.1	177.1	0.3	38.1	11.0	31.4
Q2	665.9	119.8	131.6	76.1	78.1	182.4	0.4	37.6	11.0	29.0
Q3	683.1	116.9	136.0	79.9	80.6	189.3	0.4	38.8	11.3	30.0
Q4	674.2	111.1	131.4	79.7	83.5	193.2	0.4	36.1	12.2	26.6
2020 Q1	673.1	110.6	132.8	80.9	81.8	187.1	0.3	38.6	11.9	29.1
Q2	689.3	112.5	134.8	82.6	83.6	197.2	0.4	39.5	12.1	26.7
Q3	698.4 Reinsurar	109.4 nce ³	139.0	83.3	86.2	203.2	0.4	38.5	12.1	26.3
2018 Q1	407.2	11.4	83.1	45.1	227.6	15.3	0.8	7.6	4.8	11.6
Q2	409.5	11.5	82.9	46.1	227.1	14.6	0.8	9.1	4.8	12.4
Q3	412.7	10.2	83.4	46.0	228.4	15.0	0.8	9.3	6.6	13.1
Q4	412.0	10.1	82.9	48.2	225.5	13.7	0.7	10.3	5.7	14.8
2019 Q1 Q2 Q3	449.4 450.1 459.9	10.1 10.2 11.1 10.8	90.6 90.4 90.7	49.5 49.0 52.1	252.0 254.3 259.6	14.0 14.4 15.3	0.7 0.8 1.0	10.8 10.2 9.6	5.8 5.8 5.9	15.9 13.9 15.0
Q4	475.2	11.5	90.2	58.4	262.6	14.5	0.8	15.1	6.6	15.6
2020 Q1	461.5	15.7	89.7	63.6	241.1	13.3	1.9	15.9	6.3	14.1
Q2	484.7	12.8	91.6	65.8	264.0	14.6	1.1	15.2	6.3	13.3
Q3	484.6	13.3	93.6	64.8	262.6	13.7	1.0	15.0	6.3	14.2
	Pension fun									.
2018 Q1	651.2	94.5	65.3	30.0	26.2	364.6	-	7.4	41.7	21.5
Q2	658.7	94.8	65.7	30.4	28.1	368.2	-	7.6	42.2	21.7
Q3	666.0	92.1	66.3	30.5	29.6	375.1	-	7.9	42.8	21.8
Q4	672.2	91.5	67.5	30.7	30.6	378.0	-	8.1	43.8	22.1
2019 Q1	689.2	89.4	72.0	30.7	31.5	389.8	-	8.3	44.9	22.6
Q2	703.0	87.4	75.6	31.3	32.1	399.3	-	8.5	45.4	23.5
Q3	718.3	85.3	79.2	31.5	33.1	410.9	-	8.6	45.7	23.9
Q4	726.8	84.9	77.8	31.9	33.4	417.2	-	8.8	47.6	25.1
2020 Q1	709.2	81.1	75.2	31.7	33.2	405.1	-	8.9	48.4	25.5
Q2	729.3	80.0	79.5	31.9	33.4	420.4	-	9.0	48.7	26.5
Q3	732.1	80.3	81.1	31.9	33.5	420.2	-	9.0	49.2	27.0

Sources: The calculations for the insurance sectors are based on supervisory data according to Solvency I and II. Pension funds data are compiled using Solvency I supervisory data, supplemented by voluntary reports and own calculations. * Valuation of listed securities at the corresponding consistent price from the ESCB's securities database. 1 Accounts receivable to monetary financial institutions, including registered bonds, borrowers' note loans and registered Pfandbriefe. 2 Including deposits retained

on assumed reinsurance as well as registered bonds, borrowers' note loans and registered Pfandbriefe. 3 Not including the reinsurance business conducted by primary insurers, which is included there. 4 The term "pension funds" refers to the institutional sector "pension funds" of the European System of Accounts. Pension funds thus comprise company pension schemes and occupational pension schemes for the self-employed. Social security funds are not included.

VII. Insurance corporations and pension funds

2. Liabilities

€ billion

	C DIIIION									
					Insurance technic	al reserves				
End of year/quarter	Total	Debt securities issued	Loans 1	Shares and other equity	Total	Life/ claims on pension fund reserves ²	Non-life	Financial derivatives	Remaining liabilities	Net worth 5
y can quarter	Insurance co		Louis	outer equity	Total	reserves	11011 1110	dematres	naomaes	THE THE TENT
2018 Q1	2,218.0	28.0	61.9	460.2	1,539.4	1,333.8	205.6	1.5	127.0	
Q2 Q3 Q4	2,226.3 2,224.8 2,213.5	27.7 27.5 29.3	64.0 65.1 64.6	456.8 462.3 463.1	1,539.4 1,553.7 1,545.4 1,530.3	1,348.0 1,344.1 1,332.4	205.7 201.4 197.9	1.9 2.0 1.6	122.2 122.4 124.6	- - -
2019 Q1 Q2	2,344.4 2,407.9	31.6 31.9	68.3 69.4	488.3 489.6	1,625.8 1,687.3	1,403.7 1,465.9	222.0 221.4	1.5 1.8	128.9 128.0	-
Q3 Q4	2,493.0 2,474.4	31.7 31.7	69.3 75.8	488.4 515.2	1,769.2 1,714.7	1,542.9 1,499.5	226.3 215.2	2.2 1.9	132.2 135.2	-
2020 Q1	2,431.1	31.8	82.4	466.7	1,721.4	1,482.7	238.7	2.4	126.4	-
Q2 Q3	2,522.1 2,553.6	33.1 34.3	82.3 80.0	508.2 519.9	1,767.6 1,786.1	1,527.7 1,549.5	240.0 236.6	1.9 1.7	129.0 131.6	-
	Life insur	ance								
2018 Q1	1,187.6 1,195.2	4.0 4.1	13.3 13.0	119.5 119.3	1,007.4 1,017.4	1,007.4 1,017.4] -	0.7 0.8	42.6 40.6	-
Q2 Q3 Q4	1,194.1 1,185.3	4.1 4.1	12.6 15.2	121.0 122.7	1,013.7 1,000.7	1,013.7 1,000.7	- -	0.9 0.5	41.9 42.2	-
2019 Q1	1,239.7	4.1	14.4	120.9	1,058.9	1,058.9	_	0.4	41.1	-
Q2 Q3	1,291.9 1,350.0	4.1 3.7	14.5 15.6	121.8 116.0	1,108.6 1,171.8	1,108.6 1,171.8	- -	0.4 0.6	42.4 42.4	-
Q4 2020 Q1	1,325.0 1,296.5	3.6 3.6	19.1 19.3	127.6 114.4	1,129.6 1,117.6	1,129.6 1,117.6		0.5 0.6	44.6 41.0	-
Q2 Q3	1,348.1 1,370.6	3.8 3.9	19.5 19.2 19.5	130.0 137.2	1,177.6 1,150.6 1,165.4	1,150.6 1,165.4	- - -	0.5 0.5	43.9 44.1	-
	Non-life i	nsurance				_		_	_	.
2018 Q1 Q2	623.2 621.6	1.1 1.1	7.7 8.1	141.4 140.6	423.0 424.5	311.1 314.3	111.9 110.2	0.0 0.1	50.0 47.2	
Q3 Q4	617.9 616.2	1.1 1.0	8.0 8.3	141.7 140.3	420.7 416.6	314.0 315.5	106.7 101.1	0.0 0.0	46.4 50.0	-
2019 Q1 Q2	655.3 665.9	1.1 1.1	9.3 8.8	144.1 146.9	448.4 459.3	328.9 341.5	119.6 117.8	0.0 0.1	52.4 49.7	-
Q3 Q4	683.1 674.2	1.1 1.2 1.2	9.1 9.3	149.5 153.5	471.8 457.1	354.8 354.8 349.4	117.8 117.0 107.7	0.1 0.1 0.1	51.4 53.0	
2020 Q1	673.1	1.3	9.8	144.5	468.6	344.4	124.2	0.1	48.9	-
Q2 Q3	689.3 698.4	1.2 1.2	9.5 9.6	152.4 156.2	478.5 482.7	355.6 362.3	123.0 120.4	0.1 0.1	47.6 48.6	-
	Reinsurar	ice ³								
2018 Q1 Q2	407.2 409.5	22.9 22.5	40.8 43.0	199.3 196.9	109.0 111.7	15.4 16.2	93.7 95.5	0.8 1.1	34.4 34.3	-
Q3 Q4	412.7 412.0	22.4 24.1	44.4 41.2	199.7 200.1	111.0 113.0	16.4 16.2	94.7 96.8	1.1 1.1	34.1 32.5	-
2019 Q1	449.4	26.5	44.6	223.4	118.4	15.9	102.5	1.1	35.5	-
Q2 Q3	450.1 459.9	26.6 26.8	46.1 44.7	220.8 222.8	119.4 125.6	15.8 16.3	103.6 109.3	1.3 1.5	35.9 38.5	
Q4 2020 Q1	475.2 461.5	26.9 26.9	47.4 53.3	234.0 207.8	128.0 135.3	20.6	107.5 114.5	1.3 1.7	37.7 36.5	-
Q2 Q3	484.7 484.6	28.1 29.2	53.5 50.9	225.8 226.6	138.5 138.0	21.5 21.8	117.0	1.7 1.3 1.0	37.6 38.9	-
	Pension fun	ds ⁴								
2018 Q1 Q2	651.2 658.7	- -	7.3 7.5	7.6 7.7	580.5 588.1	580.5 588.1		- -	2.7 2.8	53.0 52.5
Q2 Q3 Q4	666.0 672.2	- -	7.5 7.7 7.9	7.8 8.0	595.2 605.8	595.2 605.8	- - -	- -	2.9 2.8	52.4 47.6
2019 Q1	689.2	-	8.1	8.1	613.9	613.9	-	-	2.9	56.3
Q2 Q3	703.0 718.3	- - -	8.1 8.2	8.3 8.4	619.8 626.8	619.8 626.8	- - - -	-	2.9 2.9	64.0 72.1
Q4 2020 Q1	726.8 709.2	-	8.4 8.6	8.6 8.7	637.5 639.4	637.5 639.4		-	2.9 3.0	69.4 49.6
Q2 Q3	729.3 732.1	_ -	8.5 8.5	8.8 8.8	645.9 643.2	645.9 643.2	- - -	_	3.0 3.0	63.1 68.5

Sources: The calculations for the insurance sectors are based on supervisory data according to Solvency I and II. Pension funds data are compiled using Solvency I supervisory data, supplemented by voluntary reports and own calculations. 1 Including deposits retained on ceded business as well as registered bonds, borrowers' note loans and registered Pfandbriefe. 2 Insurance technical reserves "life" taking account of transitional measures. Health insurance is also included in the "non-life insurance" sector.

3 Not including the reinsurance business conducted by primary insurers, which is included there. **4** The term "pension funds" refers to the institutional sector "pension funds" of the European System of Accounts. Pension funds thus comprise company pension schemes and occupational pension schemes for the self-employed. Social security funds are not included. **5** Own funds correspond to the sum of net worth and the liability item "Shares and other equity".

1. Sales and purchases of debt securities and shares in Germany

€ million

2020 Jan. Feb. Mar Apr. May June July Aug. Sep. Oct.

Debt securities	Debt securities									
	Sales					Purchases				
	Domestic debt	securities 1				Residents				
Sales = total pur- chases	Total	Bank debt securities	Corporate bonds (non-MFIs) 2	Public debt secur- ities	Foreign debt secur- ities 3	Total 4	Credit in- stitutions including building and loan associations 5	Deutsche Bundesbank	Other sectors 6	Non- residents 7
76,490	66,139	- 45,712	86,527	25,322	10,351	18,236	68,049		- 49,813	58,254
70,208	- 538	- 114,902	22,709	91,655	70,747	90,154	12,973	8,645	68,536	- 19,94!
146,620	- 1,212	- 7,621	24,044	- 17,635	147,831	92,682	- 103,271	22,967	172,986	53,93;
33,649	13,575	- 46,796	850	59,521	20,075	- 23,876	- 94,793	36,805	34,112	57,52!
51,813	- 21,419	- 98,820	- 8,701	86,103	73,231	- 3,767	- 42,017	- 3,573	41,823	55,58
- 15,971	- 101,616	- 117,187	153	15,415	85,645	16,409	- 25,778	- 12,708	54,895	– 32,37!
64,775	- 31,962	- 47,404	- 1,330	16,776	96,737	50,408	- 12,124	- 11,951	74,483	14,36
33,024	- 36,010	- 65,778	26,762	3,006	69,034	116,493	- 66,330	121,164	61,659	- 83,47
71,380	27,429	19,177	18,265	- 10,012	43,951	164,148	- 58,012	187,500	34,660	- 92,76
53,796	11,563	1,096	7,112	3,356	42,233	140,417	- 71,454	161,012	50,859	- 86,62
61,984	16,630	33,251	12,433	- 29,055	45,354	99,011	- 24,417	67,328	56,100	- 37,023
125,037	68,536	29,254	32,505	6,778	56,501	85,203	8,059	2,408	74,736	39,83
40,861	29,951	4,293	10,672	14,987	10,910	7,512	3,447	2,985	1,080	33,349
41,836	33,199	14,383	1,337	17,479	8,637	32,132	9,014	4,202	18,916	9,709
2,160	3,798	– 4,596	– 5,516	13,910	– 1,638	– 10,935	17,837	4,747	– 33,519	13,099
37,012	31,119	2,401	15,964	12,755	5,893	40,472	5,669	17,982	16,821	- 3,46
81,153	79,902	- 1,777	16,851	64,828	1,251	40,102	9,749	35,151	- 4,798	41,05
65,725	47,036	6,695	5,329	35,013	18,689	37,147	9,099	25,469	2,579	28,57
48,626	49,142	- 2,041	15,549	35,635	- 516	18,636	- 15,536	25,721	8,451	29,99
55,841	60,373	1,689	8,741	49,943	- 4,532	313	- 7,604	18,004	- 10,087	55,52
69,646	66,381	23,528	23,698	19,155	3,264	19,086	1,689	22,121	- 4,724	50,55
624	- 17,888	- 16,297	2,061	- 3,653	18,512	48,486	9,298	24,556	14,631	- 47,86
21,331	26,550	- 995	495	27,050	- 5,219	30,276	1,513	27,659	1,104	- 8,94

€ million

	Shares													
		Sales		Purchases										
	Sales			Residents										
Period	total purchases	Domestic shares 8	Foreign shares 9	Total 10	Credit insti- tutions 5	Other sectors 11	Non- residents 12							
2008	- 29,452	11,326	- 40,778	2,743	- 23,079	25,822	-	32,195						
2009	35,980	23,962	12,018	30,496	- 8,335	38,831		5,485						
2010	37,767	20,049	17,718	36,406	7,340	29,066	-	1,360						
2011	25,833	21,713	4,120	40,804	670	40,134		14,971						
2012	15,061	5,120	9,941	14,405	10,259	4,146		656						
2013	20,187	10,106	10,081	17,336	11,991	5,345		2,851						
2014	43,501	18,778	24,723	43,950	17,203	26,747		449						
2015	44,165	7,668	36,497	34,437	- 5,421	39,858	-	9,728						
2016	30,896	4,409	26,487	31,037	- 5,143	36,180		141						
2017	53,024	15,570	37,454	51,372	7,031	44,341		1,652						
2018	58,446	16,188	42,258	84,528	- 11,184	95,712		26,082						
2019	45,092	9,076	36,015	29,463	- 1,119	30,582		15,629						
2020 Jan.	6,836	795	6,041	6,946	- 286	7,232	-	110						
Feb.	2,975	416	2,559	1,000	- 947	1,947		1,975						
Mar.	– 2,200	566	– 2,766	5,605	- 7,442	13,047		7,805						
Apr.	4,869	235	4,634	10,760	- 1,266	12,026	-	5,891						
May	7,487	1,370	6,117	9,396	371	9,025	-	1,909						
June	5,064	685	4,379	6,320	2,509	3,811	-	1,256						
July	9,101	2,144	6,957	25,177	676	24,501	-	16,076						
Aug.	9,459	2,900	6,559	8,808	1,020	7,788		652						
Sep.	27,388	20,689	6,699	26,771	161	26,610		617						
Oct.	5,083	1,057	4,027	5,316	342	4,974	-	233						
Nov.	9,824	220	9,604	10,026	1,919	8,107	-	202						

¹ 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. 3 Net purchases or net sales (-) of foreign debt securities by residents; transaction values. 4 Domestic and foreign debt securities. 5 Book values; statistically adjusted. 6 Residual, also including purchases of domestic and foreign securities by domestic domestic domestic and foreign securities by domestic mutual funds. Up to end-2008 including Deutsche Bundesbank. 7 Net purchases or net sales (-) of domestic debt securities by non-residents; transaction values. 8 Excluding shares of public

limited investment companies; at issue prices. **9** Net purchases or net sales (·) of foreign shares (including direct investment) by residents; transaction values. **10** Domestic and foreign shares. **11** Residual; also including purchases of domestic and foreign securities by domestic mutual funds. **12** 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 specially marked.

2. Sales of debt securities issued by residents *

€ million, nominal value

	€ million, nominal value							
		Bank debt securities 1						
		Dunit debt seedinites	Mortgage	Public	Debt securities issued by special-purpose	Other bank	Corporate bonds	Public
Period	Total	Total	Pfandbriefe	Pfandbriefe	credit institutions	debt securities	(non-MFIs) 2	debt securities
	Gross sales							
2008 2009	1,337,337 1,533,616	961,271 1,058,815	51,259 40,421	70,520 37,615	382,814 331,566	456,676 649,215	95,093 76,379	280,974 398,421
2010	1,375,138	757,754	36,226	33,539	363,828	324,160	53,653	563,730
2011	1,337,772	658,781	31,431	24,295	376,876	226,180	86,614	592,375
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	63,258 66,630	574,530 458,892
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	106,675	400,701
2016 3 2017 3	1,206,483 1,047,822	717,002 619,199	29,059 30,339	7,621 8,933	511,222 438,463	169,103 141,466	73,371 66,290	416,108 362,332
2018	1,148,091	703,416	38,658	5,673	534,552	124,530	91,179	353,496
2019	1,285,541	783,977	38,984	9,587	607,900	127,504	94,367	407,197
2020 Mar.	115,696	55,561	7,719	4,505	39,367	3,970	10,452	49,684
Apr. May	175,116 170,970	69,399 56,055	4,405 9	4,750 125	51,309 48,088	8,936 7,833	23,003 28,199	82,713 86,715
June	166,901	71,340	6,736	1,750	53,696	9,158	18,489	77,072
July	169,956	61,678	1,366	20	55,810	4,483	21,023	87,255
Aug. Sep.	144,802 177,300	56,957 75,616	16 3,186	13 250	53,343 65,309	3,585 6,872	8,547 14,767	79,298 86,916
Oct.	127,246	61,836	2,174	265	55,991	3,406	10,055	55,354
Nov.	119,070	61,567	648	300	53,206	7,413	10,624	46,879
	of which: Debt se	ecurities with ma	turities of more	than four year	rs ⁴			
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
2012	372,805	151,797	16,482	10,007	60,662	64,646	45,244	175,765
2014	420,006	157,720	17,678	8,904	61,674	69,462	56,249	206,037
2015 2016 3	414,593 375,859	179,150 173,900	25,337 24,741	9,199 5,841	62,237 78,859	82,379 64,460	68,704 47,818	166,742 154,144
2017 3	357,506	170,357	22,395	6,447	94,852	46,663	44,891	142,257
2018 2019	375,906 396,617	173,995 174,390	30,934 26,832	4,460 6,541	100,539 96,673	38,061 44,346	69,150 69,682	132,760 152,544
2020 Mar.	30,174	13,703	3,859	1,905	5,833	2,106	865	15,607
Apr.	41,373	10,274	2,165	1,300	5,943	866	8,561	22,538
May	65,814	12,372	9	125	8,134	4,104	12,419	41,024
June	60,991	17,946	5,561	1,500	5,198	5,686	9,125	33,920
July Aug.	60,086 42,389	14,074 6,750	1,366 16	20 13	11,331 5,299	1,356 1,422	13,242 1,597	32,769 34,043
Sep.	61,762	18,442	3,036	250	9,713	5,443	7,430	35,889
Oct.	38,532	11,516	1,620	15	7,838	2,042	5,390	21,626
Nov.	34,225	10,781	548	50	4,788	5,395	5,877	17,567
	Net sales 5							.
2008 2009	119,472 76,441	8,517 - 75,554	15,052 858	- 65,773 - 80,646	25,165 25,579	34,074 - 21,345	82,653 48,508	28,302 103,482
2010	21,566	- 87,646	- 3,754	- 63,368	28,296	- 48,822	23,748	85,464
2011	22.518	- 54,582	1,657	- 44,290	32,904	- 44,852	- 3,189	80,289
2012 2013	- 85,298 - 140,017	- 100,198 - 125,932	– 4,177 – 17,364	- 41,660 - 37,778	- 3,259 - 4,027	- 51,099 - 66,760	- 6,401 1,394	21,298 - 15,479
2014	- 34,020	- 56,899	- 17,364 - 6,313	- 37,778 - 23,856	- 4,027 - 862	- 25,869	10,497	12,383
2015	- 65,147	- 77,273	9,271	- 9,754	- 2,758	- 74,028	25,300	- 13,174
2016 3 2017 3	21,951 2,669	10,792 5,954	2,176 6,389	– 12,979 – 4,697	16,266 18,788	5,327 - 14,525	18,177 6,828	- 7,020 - 10,114
2018	2,758	26,648	19,814	- 6,564	18,850	- 5,453	9,738	- 33,630
2019	59,719	28,750	13,098	- 3,728	26,263	- 6,885	30,449	519
2020 Mar.	10,873	2,608	5,741	3,137	134	- 6,136	- 4,187	12,452
Apr. May	34,368 82,872	3,134 1,010	1,210 - 1,593	4,324 - 604	– 1,083 4,536	– 1,317 – 1,330	11,594 14,387	19,640 67,476
June	47,941	10,175	3,362	1,664	5,404	- 255	2,856	34,910
July Aug.	37,510 61,259	- 4,679 1,724	– 1,443 – 1,512	- 714 - 136	240 4,496	- 2,762 - 1,124	12,135 465	30,054 59,069
Sep.	43,924	19,271	- 1,312 - 1,493	- 45	20,898	- 1,124	3,350	21,302
Oct.	- 13,555	- 14,240	- 1,656	- 608	- 10,488	- 1,488	- 765	1,450
Nov.	13,942	193	- 1,049	907	910	3,058	- 235	13,984

^{*} For definitions, see the explanatory notes in Statistical Series - Securities Issues Statistics on pages 43 f. **1** Excluding registered bank debt securities. **2** Including cross-border financing within groups from January 2011. **3** Sectoral reclassification of

debt securities. **4** Maximum maturity according to the terms of issue. **5** Gross sales less redemptions. **6** Methodological changes since January 2020. — The figures for the most recent date are provisional. Revisions are not specially marked.

3. Amounts outstanding of debt securities issued by residents *

€ million, nominal value

			Bank de	ebt securities							
End of year or month/ Maturity in years	Total		Total		Mortgage Pfandbriefe	Public Pfandbriefe	Debt securities issued by special-purpose credit institutions	Other bank debt securities	Corporate bonds (non-MFIs)		Public debt securities
2008 2009		3,250,195 3,326,635		1,876,583 1,801,029	150,302 151,160	377,091 296,445	490,641 516,221	858,550 837,203		178,515 227,024	1,195,097 1,298,581
2010 2011 2012 2013 2014		3,348,201 3,370,721 3,285,422 3,145,329 3,111,308	1	1,570,490 1,515,911 1,414,349 1,288,340 1,231,445	147,529 149,185 145,007 127,641 121,328	232,954 188,663 147,070 109,290 85,434	544,517 577,423 574,163 570,136 569,409	481,273 455,274	1	250,774 247,585 220,456 221,851 232,342	1,607,226 1 1,650,617 1,635,138 1,647,520
2015 20161 20171 2018 2019	2	3,046,162 3,068,111 3,090,708 3,091,303 3,149,373		1,154,173 1,164,965 1,170,920 1,194,160 1,222,911	130,598 132,775 141,273 161,088 174,188	75,679 62,701 58,004 51,439 47,712	566,811 633,578 651,211 670,062 696,325	304,686	2 12 2	257,612 275,789 302,543 313,527 342,325	1,634,377 1,627,358 1,617,244 1,583,616 1,584,136
2020 Mar. Apr. May June	2	3,161,739 3,204,248 3,282,783 3,328,134	2	1,191,655 1,200,654 1,199,035 1,205,292	187,630 188,949 189,074 192,323	49,962 54,307 57,391 59,050	692,049 696,203 693,994 697,628	262,015 261,194 258,576 2 256,290	2	339,172 351,258 365,185 368,001	1,630,911 1,652,335 1,718,563 1,754,841
July Aug. Sep.	2	3,343,839 3,402,114 3,450,419	_	1,186,873 1,187,546 1,209,935	190,611 189,114 187,644	58,228 58,096 58,079	685,891 689,290 713,010	252,143 251,046 251,202	2	379,558 378,952 382,932	1,777,408 1,835,616 1,857,552
Oct. Nov.	2	3,438,813 3,448,097	2	1,195,890 1,191,676	186,057 184,909	57,474 56,543	703,561 698,698	2 248,798 251,525		382,354 381,969	1,860,569 1,874,452
	Break	down by	remai	ning perio	d to maturity ³			P	osition a	t end-N	lovember 2020
bis unter 2 2 bis unter 4 4 bis unter 6 6 bis unter 8 8 8 bis unter 10 10 bis unter 15 15 bis unter 20 20 und darüber		1 117 338 672 152 483 722 379 350 266 246 160 745 113 004 255 539		419 205 290 074 192 769 135 867 72 779 38 219 20 472 22 290	48 553 48 302 35 068 28 975 14 080 6 620 2 257 1 054	16 468 15 061 11 040 7 259 3 608 2 109 835 163	280 168 171 982 97 482 68 364 40 229 17 691 15 163 7 619	74 015 54 729 49 179 31 268 14 862 11 799 2 218 13 454		67 055 64 883 59 957 41 391 26 767 33 224 9 737 78 954	631 079 317 195 230 996 202 092 166 700 89 302 82 795 154 294

^{*} Including debt securities temporarily held in the issuers' portfolios. 1 Sectoral reclassification of debt securities. 2 Adjustments due to the change in the country of residence of the issuers or debt securities. 3 Calculated from month under review until final maturity for debt securities falling due en bloc and until mean maturity of the

residual amount outstanding for debt securities not falling due en bloc. **4** Methodological changes since January 2020. — The figures for the most recent date are provisional. Revisions are not specially marked.

4. Shares in circulation issued by residents *

€ million, nominal value

			Change in dome	Change in domestic public limited companies' capital due to								
Period	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	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
2008 2009	168,701 175,691	4,1 6,9		1,319 398	152 97	-	428 3,741	_	608 1,269		306 974	830,622 927,256
2010 2011 2012 2013 2014 2015 2016 2017	174,596 177,167 178,617 171,741 177,097 177,416 176,355 178,828	- 1,0 2,5 1,4 - 6,8 5,3 - 1,0	96 3,265 70 6,390 49 3,046 79 2,971 56 5,332 19 4,636 52 3,272 71 3,894	497 552 129 718 1,265 397 319 776	178 462 570 476 1,714 599 337 533	- - - - - -	486 552 478 1,432 465 1,394 953 457	- - - - -	993 762 594 619 1,044 1,385 2,165 661	- 3, - 3, - 2, - 8, - 1, - 2, - 1, - 1,	569 532 411 992 446 535 865 615	1,091,220 924,214 1,150,188 1,432,658 1,478,063 1,614,442 1,676,397 1,933,733
2018 2019 34	180,187 183,461	1,3 1,7		716 2,419	82 542	_	1,055 858	-	1,111 65		946 747	1,634,155 1,950,224
2020 Mar.	181,792	- 1,4		40	-		-		12	- 1,	584	1,475,909
Apr. May June	181,785 181,471 180,042		4 77 14 163 30 83	87 4	26 1	- - -	22 576 1,112	- - -	1 1 350	- - -	58 12 56	1,657,055 1,741,382 1,784,980
July Aug. Sep.	180,473 180,820 182,039	4	31 470 09 434 04 896	19 36 10	- - 60	- - -	3 23 3	- -	6 22 23	- - -	48 61 335	1,799,062 1,887,713 1,870,873
Oct. Nov.	182,165 181,879	_ 3	36 82 40 47	18 -	_ 1	-	5 219	- -	9 11	- -	50 158	1,727,080 1,884,308

^{*} Excluding shares of public limited investment companies. 1 Including shares issued out of company profits. 2 All marketplaces. Source: Bundesbank calculations based on data of the Herausgebergemeinschaft Wertpapier-Mit teilungen and Deutsche Börse

AG. ${\bf 3}$ Methodological changes since October 2019. ${\bf 4}$ Changes due to statistical adjustments.

5. Yields and indices on German securities

	Yields or	n debt	securities	outsta	nding issue	d by	residents 1					Price indices 2,3			
			Public de	ebt secu	ırities			Bank de	bt secu	rities		Debt securities		Shares	
					Listed Federal se	uriti	ies								
	Total		Total		Total		With a residual maturity of 9 to 10 years 4	Total		With a residual maturity of more than 9 years and up to 10 years	Corporate bonds (non- MFIs)	German bond index (REX)	iBoxx € Germany price index	CDAX share price index	German share index (DAX)
Period	% per annum											Average daily rate	End-1998 = 100	End-1987 = 100	End-1987 = 1,000
2009		3.2 3.1 3.0							3.5	4.0	5.5	123.62	100.12	320.32	5,957.43
2010 2011 2012 2013 2014		2.5 2.6 1.4 1.4 1.0		2.4 2.4 1.3 1.3		2.4 2.4 .3 .3	2.7 2.6 1.5 1.6 1.2		2.7 2.9 1.6 1.3 0.9	3.3 3.5 2.1 2.1 1.7	4.0 4.3 3.7 3.4 2.9	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 2017 2018 2019	_	0.5 0.1 0.3 0.4 0.1	_	0.4 0.0 0.2 0.3 0.2	().4).0).2).3	0.5 0.1 0.3 0.4 - 0.3		0.5 0.3 0.4 0.6 0.1	1.2 1.0 0.9 1.0 0.3	2.4 2.1 1.7 2.5 2.5	139.52 142.50 140.53 141.84 143.72	112.42 112.72 109.03 109.71 111.32	508.80 526.55 595.45 474.85 575.80	10,743.01 11,481.06 12,917.64 10,558.96 13,249.01
2020	-	0.2	-	0.4	- ().5	- 0.5	-	0.0	0.1	1.7	146.15	113.14	586.72	13,718.78
2020 July Aug. Sep.	- - -	0.2 0.2 0.2	- - -	0.4 0.4 0.4	- ().5).5).5	- 0.5 - 0.5 - 0.5	- - -	0.1 0.1 0.1	0.0 - 0.0 - 0.0	1.3 1.2 1.1	145.85 145.81 145.96	113.27 111.72 112.79	522.53 549.79 544.40	12,313.36 12,945.38 12,760.73
Oct. Nov. Dec.	- - -	0.3 0.3 0.3	- - -	0.5 0.5 0.5	- ().6).6).6	- 0.6 - 0.6 - 0.6	- - -	0.2 0.2 0.2	- 0.1 - 0.1 - 0.1	1.1 0.9 0.8	146.56 146.22 146.15	113.81 113.19 113.14	492.31 564.23 586.72	11,556.48 13,291.16 13,718.78

¹ Bearer debt securities with maximum maturities according to the terms of issue of over 4 years. Structured debt securities, 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 outstanding 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. Adjustment of the scope of securities included on 1 May 2020. **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

€	n	ηi	lli	0	r

2020 May June July Aug. Sep. Oct. Nov.

€ million										:	:	:	
	Sales							Purchases					
	Open-end o	domestic mut	ual funds 1 (s	sales receipts)			Residents					
		Mutual fun- general pub	ds open to th	ie					Credit institu including bui	lding		2	
			of which:						and loan ass	ociations 2	Other secto	rs 3	1
Sales = total pur- chases	Total	Total	Money market funds	Secur- ities- based funds	Real estate funds	Special- ised funds	Foreign funds 4	Total	Total	of which: Foreign mutual fund shares	Total	of which: Foreign mutual fund shares	Non-resi dents 5
2,598 49.929	- 7,911 43,747	- 14,409 10,966	- 12,171 - 5.047	- 11,149 11,749	799 2,686	6,498 32,780	10,509 6,182	11,315 38,132	- 16,625 - 14,995	- 9,252 - 8,178	27,940 53.127	19,761 14.361	- 8,7 11.7
106,190 46,512 111,236 123,736 140,233	84,906 45,221 89,942 91,337 97,711	13,381 - 1,340 2,084 9,184 3,998	- 148 - 379 - 1,036 - 574 - 473	8,683 - 2,037 97 5,596 862	1,897 1,562 3,450 3,376 1,000	71,345 46,561 87,859 82,153 93,713	21,284 1,290 21,293 32,400 42,521	102,591 39,474 114,676 117,028 144,075	3,873 - 7,576 - 3,062 771 819	6,290 - 694 - 1,562 100 - 1,745	98,718 47,050 117,738 116,257 143,256	14,994 1,984 22,855 32,300 44,266	3,5 7,0 - 3,4 6,7 - 3,8
181,889 156,985 153,484 131,958 175,476	146,136 119,369 94,921 103,694 122,546	30,420 21,301 29,560 15,279 17,032	318 - 342 - 235 377 - 447	22,345 11,131 21,970 4,166 5,097	3,636 7,384 4,406 6,168 10,580	115,716 98,068 65,361 88,415 105,514	35,753 37,615 58,562 28,263 52,930	174,018 163,934 156,002 138,254 180,439	7,362 2,877 4,938 2,979 2,719	494 - 3,172 1,048 - 2,306 - 812	166,656 161,057 151,064 135,275 177,720	35,259 40,787 57,514 30,569 53,742	7,8 - 6,9 - 2,5 - 6,2 - 4,9
9,255 10,087	3,378 7,065	2,921 1,789	- 156 - 181	2,471 1,634	380 471	457 5,276	5,877 3,022	9,666 9,668	143 - 2,048	- 164 15	9,523 11,716	6,041 3,007	- 4
18,259 16,662 16,160	7,417 6,268 10,083	1,671 2,049 1,146	- 195 12 112	1,460 1,759 – 18	400 297 1,052	5,746 4,219 8,937	10,842 10,394 6,077	17,389 16,630 17,415	- 143 740 - 705	- 89 - 104 250	17,532 15,890 18,120	10,931 10,498 5,827	8 - 1,2
15,409 15,181	11,677 7,541	713 3,796	33 - 107	- 99 3,297	853 630	10,964 3,745	3,731 7,640	15,788 14,324	939 - 116	- 90 502	14,849 14,440	3,821 7,138	- 3 8

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)

	lion

				2019			2020		
tem	2017	2018	2019	Q2	Q3	Q4	Q1	Q2	Q3
Acquisition of financial assets									
Currency and deposits	46.39	21.80	25.89	9.14	37.45	16.34	8.56	50.08	43.44
Debt securities Short-term debt securities Long-term debt securities Memo item:	- 7.53 - 2.97 - 4.55	5.24 1.42 3.82	- 2.23 - 1.31 - 0.91	- 1.31 - 1.26 - 0.05	- 0.59 0.33 - 0.92	- 0.94 - 0.31 - 0.63	0.15 - 0.32 0.47	2.47 0.53 1.94	0.5 1.2 - 0.6
Debt securities of domestic sectors Non-financial corporations Financial corporations General government Debt securities of the rest of the world	- 3.64 - 0.61 - 0.52 - 2.50 - 3.88	0.65 0.59 1.40 - 1.34 4.60	- 0.47 0.51 - 0.56 - 0.41 - 1.76	- 0.24 - 0.25 0.08 - 0.07 - 1.06	- 0.46 0.31 - 0.71 - 0.05 - 0.13	- 0.31 - 0.25 0.18 - 0.24 - 0.63	- 0.04 - 0.02 - 0.16 0.14 0.19	1.79 0.20 0.59 1.00 0.68	- 0.4 0.1 - 0.4 - 0.2 1.0
Loans Short-term loans Long-term loans	56.22 27.83 28.39	- 25.67 - 0.14 - 25.53	2.21 7.85 - 5.64	- 6.79 - 7.92 1.13	- 7.51 - 5.41 - 2.11	4.39 6.29 - 1.90	- 1.00 - 1.34 0.34	9.56 16.87 - 7.31	3.4 6.8 - 3.4
Memo item: Loans to domestic sectors Non-financial corporations Financial corporations General government Loans to the rest of the world	24.05 15.23 8.42 0.40 32.17	- 10.63 - 10.03 - 0.97 0.36 - 15.03	- 9.00 - 8.19 - 1.03 0.22 11.21	- 5.70 - 6.71 0.96 0.06 - 1.09	- 7.02 - 8.09 1.01 0.06 - 0.50	2.86 5.67 - 2.87 0.06 1.54	- 1.17 - 1.29 0.11 0.00 0.17	6.18 6.25 - 0.07 0.00 3.38	8.3 8.9 - 0.5 0.0 - 4.9
Equity and investment fund shares Equity Listed shares of domestic sectors Non-financial corporations Financial corporations Listed shares of the rest of the world Other equity 1 Investment fund shares Money market fund shares Non-MMF investment fund shares	79.82 71.73 - 3.82 - 3.76 - 0.06 6.99 68.56 8.09 - 0.85 8.94	120.60 118.60 18.82 18.27 0.55 - 3.84 103.62 2.01 - 0.53 2.54	76.61 67.61 6.18 4.62 1.55 5.55 55.88 9.00 1.78 7.22	10.76 9.07 - 3.35 - 3.32 - 0.03 1.14 11.28 1.69 0.23 1.46	33.88 30.68 15.19 15.24 - 0.05 2.80 12.68 3.21 - 0.03 3.24	17.68 16.14 - 7.49 - 9.14 1.65 0.55 23.08 1.54 1.61 - 0.08	56.68 55.82 - 1.51 - 1.32 - 0.19 0.72 56.61 0.85 - 1.80 2.65	- 3.29 - 4.44 - 17.07 - 16.89 - 0.18 - 1.45 14.08 1.14 0.98 0.17	22.77 17.79 10.00 10.1! - 0.14 4.34 4.99 3.22 1.66
Insurance technical reserves	1.56	0.38	1.63	0.44	0.38	0.32	0.32	0.61	0.6
Financial derivatives	- 11.32	2.15	0.52	- 7.36	- 3.73	10.57	- 0.24	- 9.63	1.0
Other accounts receivable	155.71	11.07	- 62.59	- 40.07	- 5.66	- 41.15	0.05	- 57.10	42.6
Total	320.86	135.58	42.05	- 53.47	54.23	7.21	64.51	- 7.29	114.6
External financing									
Debt securities Short-term securities Long-term securities Memo item:	8.56 0.60 7.95	7.08 4.08 3.00	19.19 2.74 16.45	5.87 1.75 4.12	5.00 0.46 4.54	2.55 - 0.70 3.25	5.75 1.60 4.15	23.51 2.78 20.73	10.1 - 3.9 14.0
Debt securities of domestic sectors Non-financial corporations Financial corporations General government Households Debt securities of the rest of the world	7.09 - 0.61 9.16 0.01 - 1.47 1.46	3.94 0.59 3.35 0.01 - 0.01 3.14	7.03 0.51 5.72 0.47 0.34 12.15	0.17 - 0.25 0.91 - 0.61 0.12 5.69	2.67 0.31 2.38 - 0.04 0.03 2.33	0.14 - 0.25 - 0.03 0.42 - 0.01 2.41	1.31 - 0.02 1.81 - 0.10 - 0.39 4.44	11.05 0.20 10.77 - 0.19 0.26 12.46	4.9 0.1 5.3 0.0 - 0.5 5.1
Loans Short-term loans Long-term loans Memo item:	99.28 23.11 76.18	126.08 60.22 65.87	76.53 19.68 56.85	38.82 17.70 21.12	10.73 - 6.91 17.64	4.26 - 7.39 11.66	29.73 8.31 21.43	20.88 - 19.84 40.72	6.5 10.0 - 3.5
Loans from domestic sectors Non-financial corporations Financial corporations General government Loans from the rest of the world	51.38 15.23 37.30 - 1.16 47.91	70.84 - 10.03 79.39 1.48 55.25	49.76 - 8.19 57.25 0.70 26.78	18.18 - 6.71 24.25 0.64 20.64	- 8.09 1.80 - 0.33	18.51 5.67 8.76 4.07 – 14.24	12.92 - 1.29 18.35 - 4.15 16.81	23.86 6.25 0.98 16.63 – 2.98	11.7 8.9 - 8.9 11.7 - 5.2
Equity Listed shares of domestic sectors Non-financial corporations Financial corporations General government Households Listed shares of the rest of the world Other equity 1	33.18 8.46 - 3.76 11.11 0.51 0.60 - 4.12 28.84	20.63 73.23 18.27 46.75 0.53 7.67 - 31.96 - 20.65	17.97 - 24.47 - 4.62 - 33.11 - 0.01 - 4.03 - 1.61 - 44.05	4.19 - 34.72 - 32.78 - 0.04 1.33 2.75 36.17	15.17 15.24 - 0.68 0.04 0.57 - 14.41	4.83 - 9.39 - 9.14 0.60 - 0.05 - 0.80 14.28 - 0.06	6.51 7.19 - 1.32 1.64 0.20 6.66 - 5.94 5.26	9.69 - 11.57 - 16.89 1.74 0.09 3.50 16.44 4.83	36.5 11.1 10.1 - 0.6 - 0.0 1.6 14.5
Insurance technical reserves	6.89	6.08	2.81	0.70	0.70	0.70	0.70	0.70	0.7
Financial derivatives and employee stock options	1.35	0.49	- 1.38	- 2.06	2.69	- 3.21	1.49	_ 2.26	- 1.4
Other accounts payable	58.94	22.29	7.95	- 18.43	16.19	- 2.20	- 17.20	- 48.74	42.0

¹ Including unlisted shares.

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

				2019			2020		
ltem	2017	2018	2019	Q2	Q3	Q4	Q1	Q2	Q3
Financial assets									
Currency and deposits	550.8	560.2	556.8	508.7	558.4	556.8	577.2	609.6	679.
Debt securities	47.0	50.8	49.6	51.0	51.1	49.6	48.2	51.5	51.
Short-term debt securities Long-term debt securities	3.5 43.5	4.9 45.9	3.7 45.9	3.6 47.4	3.9 47.1	3.7 45.9	3.4 44.9	3.8 47.7	5 46
Memo item: Debt securities of domestic sectors	21.1	21.3	21.1	22.1	21.7	21.1	20.3	22.3	21.
Non-financial corporations	4.0	4.5	5.0	5.0	5.3	5.0	4.7	5.0	5
Financial corporations General government	12.7 4.4	13.8 3.0	13.6 2.6	14.2 2.9	13.6 2.9	13.6 2.6	12.9 2.7	13.6 3.7	13 3
Debt securities of the rest of the world	25.8	29.5	28.4	29.0	29.3	28.4	28.0	29.2	29
Loans Short-term loans	620.9 495.1	591.4 491.1	595.3 499.9	597.4 498.4	591.8 494.1	595.3 499.9	593.9 498.2	602.8 514.6	604 520
Long-term loans Memo item:	125.8	100.3	95.4	99.0	97.8	95.4	95.7	88.2	84
Loans to domestic sectors	402.1	391.5	382.5	386.7	379.7	382.5	381.4	387.5	395
Non-financial corporations Financial corporations	297.8 97.6	287.8 96.7	279.6 95.6	282.0 97.5	273.9 98.5	279.6 95.6	278.3 95.8	284.6 95.7	293 95
General government Loans to the rest of the world	6.7 218.8	7.1 199.9	7.3 212.8	7.2 210.7	7.2 212.2	7.3 212.8	7.3 212.6	7.3 215.3	7 208
Equity and investment fund shares	2,152.9	2,110.7	2,345.1	2,213.2	2,242.7	2,345.1	2,135.2	2,301.8	2,331
Équity Listed shares of domestic sectors	1,981.3 332.2	1,944.3 302.6	2,155.1 342.0	2,032.6 319.7	2,056.1 328.8	2,155.1 342.0	1,959.3 288.4	2,115.3 337.2	2,137 352
Non-financial corporations	325.3	296.0	332.9	312.1	321.4	332.9	281.4	329.6	346
Financial corporations Listed shares of the rest of the world	6.8 48.3	6.6 40.2	9.0 50.7	7.7 45.8	7.3 47.8	9.0 50.7	7.0 45.3	7.6 47.3	55
Other equity 1 Investment fund shares	1,600.8 171.7	1,601.6 166.4	1,762.4 190.0	1,667.1 180.6	1,679.5 186.6	1,762.4 190.0	1,625.7 175.8	1,730.7 186.6	1,729 193
Money market fund shares	1.6	1.0	3.2	1.2	1.2	3.2	1.4	2.4	9
Non-MMF investment fund shares	170.1	165.4	186.8	179.3		186.8	174.4	184.2	187
Insurance technical reserves Financial derivatives	54.2 34.1								
Other accounts receivable	1,122.7	33.4	1,231.4	32.6 1,181.3	32.1 1,206.3	31.5 1,231.4	1,186.3	1,094.0	25 1,157
Total	4,582.7	4,557.6	4,868.9	4,642.0	4,740.7	4,868.9	4,645.6	4,755.1	4,915
Liabilities	4,302.7	4,557.0	4,000.3	4,042.0	4,740.7	4,000.5	1,045.0	4,755.1	1,515
Debt securities	210.6	187.8	214.0	205.6	217.0	214.0	229.3	245.8	l 256
Short-term securities	3.4	6.1	8.8	9.1	9.5	8.8	14.0	16.8	12
Long-term securities Memo item:	207.2	181.6	205.2	196.5	207.4	205.2	215.2	229.0	244
Debt securities of domestic sectors Non-financial corporations	83.1 4.0	79.6 4.5	88.5 5.0	86.4 5.0	89.1 5.3	88.5 5.0	85.0 4.7	100.3 5.0	106
Financial corporations General government	64.4 0.1	61.0 0.1	68.6 0.6	66.7 0.2	69.2 0.2	68.6 0.6	67.1 0.5	81.2 0.3	88
Households	14.5	14.0	14.4	14.5	14.5	14.4	12.8	13.8	13
Debt securities of the rest of the world .	127.4	108.2	125.5	119.2	127.8	125.5	144.2	145.5	149
Loans Short-term loans	1,629.4 650.7	1,748.0 710.2	1,826.9 732.9	1,810.0 745.8	1,824.7 740.8	1,826.9 732.9	1,856.8 741.2	1,879.0 719.9	1,889 728
Long-term loans Memo item:	978.7	1,037.8	1,094.0	1,064.2	1,083.8	1,094.0	1,115.6	1,159.1	1,160
Loans from domestic sectors	1,223.5	1,279.6	1,328.3	1,316.8	1,311.1	1,328.3	1,341.2	1,367.0	1,37
Non-financial corporations Financial corporations	297.8 873.2	287.8 938.9	279.6 994.9	282.0 984.7	273.9 987.3	279.6 994.9	278.3 1,012.6	284.6 1,015.2	1,004
General government Loans from the rest of the world	52.5 405.8	52.9 468.4	53.8 498.6	50.1 493.2	49.9 513.6	53.8 498.6	50.3 515.6	67.3 511.9	79 512
Equity	3,078.3	2,707.0	3,108.1	2,894.0	2,900.3	3,108.1	2,579.1	2,956.5	3,09
Listed shares of domestic sectors Non-financial corporations	721.3 325.3	659.3 296.0	733.5 332.9	682.4 312.1	692.4 321.4	733.5 332.9	595.2 281.4	710.9 329.6	74:
Financial corporations	149.6	161.9	157.4	145.9	145.7	157.4	126.2	150.1	156
General government Households	46.0 200.4	41.6 159.8	51.8 191.3	45.0 179.5	47.9 177.4	51.8 191.3	41.8 145.7	50.5 180.8	53 192
Listed shares of the rest of the world Other equity 1	960.5 1,396.5	764.8	959.2	859.9	857.6	959.2	689.3 1,294.7	856.3	923
Insurance technical reserves	263.7								
Financial derivatives and employee stock options	63.1								
Other accounts payable	1,124.9	1,174.3	1,305.7	1,202.4		1,305.7	1,254.8		1,264
Total	6,369.9	6,152.2	6,794.8		6,562.1	6,794.8	6,281.2		6,867

¹ Including unlisted shares.

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

	llio	

				2019			2020		
em	2017	2018	2019	Q2	Q3	Q4	Q1	Q2	Q3
Acquisition of financial assets									
Currency and deposits	107.93	138.24	139.86	42.36	23.65	49.04	24.14	72.49	41.
Currency	21.42	30.20	32.86	8.52	10.36	10.15	19.55	16.39	11.
Deposits Transferable deposits	86.51 99.78	108.04 109.88	107.01 111.01	33.83 34.39	13.29 17.27	38.89 42.16	4.59 18.74	56.10 58.64	29. 31.
Time deposits	- 4.03	6.79	1.47	- 0.79	- 0.30	0.70	- 3.11	- 0.85	0
Savings deposits (including savings certificates)	- 9.24	- 8.63	- 5.47	0.23		- 3.97	- 11.04		- 2
Debt securities	- 8.39	1.62	- 1.85	0.60	- 1.35	- 1.61	- 1.47	0.35	- 1
Short-term debt securities	- 0.20	- 0.13	- 0.53	- 0.13	- 0.19 - 1.16	0.02	- 0.03 - 1.44	0.16	0
Long-term debt securities Memo item:	- 8.19	1.74	- 1.32	0.73	- 1.16	- 1.63	- 1.44	0.19	- 1
Debt securities of domestic sectors	- 5.11	2.24	- 2.93	0.28	- 1.52	- 2.38	- 0.14	0.52	- 1
Non-financial corporations	- 1.45	- 0.10	0.21	0.08	- 0.04	- 0.04	- 0.32	0.18	- 0
Financial corporations	- 2.68	2.81	- 2.22	0.27	- 1.31	- 1.75	- 0.35	0.45	- 0
General government Debt securities of the rest of the world	- 0.99 - 3.27	- 0.46 - 0.62	- 0.92 1.08	- 0.07 0.32	- 0.18 0.18	- 0.58 0.77	0.53 - 1.32	- 0.11 - 0.17	- 0 - 0
Equity and investment fund shares	55.17	38.44	49.78	10.90	11.96	16.20	19.39	29.00	20
Equity	14.88	18.84	18.94	4.29	4.40	3.43	13.62	15.61	11
Listed shares of domestic sectors	0.85	9.44	6.61	1.43	1.11	- 0.24	8.07	6.35	1 1
Non-financial corporations	0.49	6.28	3.52	1.31	0.88	- 1.19 0.95	6.47	3.41	1
Financial corporations Listed shares of the rest of the world	0.36 9.87	3.16 4.37	3.09 7.46	0.12 1.72	0.23 2.19	2.58	1.61 3.02	2.94 6.44	7
Other equity 1	4.16	5.03	4.86	1.13	1.10	1.08	2.53	2.82	2
Investment fund shares	40.29	19.60	30.84	6.61	7.57	12.78	5.76	13.39	8
Money market fund shares	- 0.30	- 0.22	- 0.32	- 0.01	0.18	- 0.37	0.38	- 0.10	0
Non-MMF investment fund shares	40.59	19.81	31.16	6.62	7.39	13.14	5.38	13.49	8
Non-life insurance technical reserves and provision for calls under standardised guarantees	20.23	15.80	17.93	3.45	4.46	6.57	5.29	5.62	5
Life insurance and annuity entitlements	37.42	28.18	38.28	9.24	8.62	9.52	10.63	6.80	6
Pension entitlement, claims of pension funds on pension managers, entitlements to non-pension benefits	35.52	37.28	27.51	6.59	4.98	4.75	11.53	7.55	7
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	- 25.91	- 9.52	- 3.68	- 7.80	7.23	- 25.15	20.88	- 11.64	8
Total	221.96	250.03	267.83	65.34	59.56	59.32	90.39	110.18	87
external financing									
Loans	55.38	68.41	81.16	23.84	24.85	16.59	13.13	17.63	27
Short-term loans	- 2.19	2.44	0.92	0.87	- 0.62	0.20	- 1.58	- 2.29	- 0
Long-term loans	57.57	65.97	80.23	22.97	25.47	16.39	14.71	19.91	28
Memo item: Mortgage loans	47.24	57.42	67.17	16.62	21.66	19.79	15.69	18.47	25
Consumer loans	11.25	11.14	14.42	6.56	3.67	- 1.96	- 2.67	- 2.05	1
Entrepreneurial loans	- 3.11	- 0.14	- 0.43	0.66	- 0.49	- 1.25	0.10	1.21	0
Memo item:						,			
Loans from monetary financial institutions Loans from other financial institutions	49.99 5.40	61.72	73.41	21.22	21.09	18.60 - 2.01	15.52 - 2.39	17.96 - 0.34	27
Loans from other financial institutions Loans from general government and rest of the world	0.00	6.69 0.00	7.74 0.00	2.62 0.00	3.76 0.00	0.00	0.00		
Financial derivatives	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
Other accounts payable	0.66	0.80	0.31	0.10	0.20	- 0.50	- 0.17	0.25	0

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

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

				2019			2020		
tem	2017	2018	2019	Q2	Q3	Q4	Q1	Q2	Q3
	1200			Κ-	Α.				1 40
Financial assets									
Currency and deposits	2,317.5 197.1	2,457.4 227.3	2,597.3 260.2	2,524.6 239.6	2,548.3 250.0	2,597.3 260.2	2,621.4 279.7	2,693.9 296.1	2,734 307
Currency Deposits	2,120.3	2,230.1	2,337.1	2,285.0	2,298.3	2,337.1	2.341.7	2.397.8	2.427
Transferable deposits	1,288.4	1,398.0	1,509.1	1,449.6	1,466.9	1,509.1	1,527.8	1,586.4	1,617
Time deposits	245.4	252.4	253.9	253.5	253.2	253.9	250.8	249.9	25
Savings deposits (including savings certificates)	586.5	579.7	574.2	581.9	578.2	574.2	563.2	561.5	55
Debt securities Short-term debt securities	122.5 2.5	117.5 2.1	121.4 1.6	123.1 1.8	122.5 1.6	121.4 1.6	108.9 1.5	114.5 1.7	11
Long-term debt securities	120.0	115.4	119.7	121.2	120.9	119.7	107.4	112.7	11
Memo item:									
Debt securities of domestic sectors	82.9	80.2	81.4	84.5	83.4	81.4	72.3	76.7	7
Non-financial corporations	12.6	12.1	12.4	12.6	12.5	12.4	11.0	11.8	1
Financial corporations General government	66.4 3.9	64.6 3.4	66.6 2.5	68.6 3.3	67.7 3.2	66.6 2.5	58.2 3.1	62.0 3.0	E
Debt securities of the rest of the world	39.6	37.4	39.9	38.6	39.2	39.9	36.6	37.8] 3
Equity and investment fund shares	1,242.6	1,160.4	1,382.1	1,290.3	1,320.0	1,382.1	1,216.2	1,369.8	1,41
Equity	646.7	587.0	701.9	659.1	670.0	701.9	614.3	703.9	73
Listed shares of domestic sectors Non-financial corporations	227.9 191.5	184.1 151.9	223.9 182.3	210.1 171.0	209.3 169.3	223.9 182.3	171.7 138.7	209.2 172.3	18
Financial corporations	36.4	32.2	41.6	39.1	40.0	41.6	33.0	36.9	'3
Listed shares of the rest of the world	103.3	100.2	136.3	120.1	126.2	136.3	116.9	144.7	1:
Other equity 1	315.5	302.7	341.7	328.8	334.5	341.7	325.7	350.0	3
Investment fund shares	595.9	573.4	680.2	631.2	650.0	680.2	601.9	665.9	68
Money market fund shares Non-MMF investment fund shares	2.7 593.2	2.4 571.1	2.3 678.0	2.3 628.9	2.5 647.5	2.3 678.0	2.7 599.2	2.7 663.2	68
Non-life insurance technical reserves and provision for calls under standardised guarantees	360.1	375.9	393.8	382.8	387.2	393.8	399.1	404.7	41
Life insurance and annuity entitlements	991.4	1,011.1	1,069.1	1,041.6	1,054.7	1,069.1	1,080.2	1,087.4	1,09
Pension entitlement, claims of pension funds on pension managers, entitlements to non-pension benefits	846.5	883.8	911.4	894.0	899.6	911.4	922.9	930.4	93
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	31.1	29.6	29.6	31.5	32.3	29.6	29.0	29.6	
Total	5,911.7	6,035.7	6,504.8	6,287.9	6,364.6	6,504.8	6,377.7	6,630.3	6,7
Liabilities									
Loans	1,711.8	1,775.6	1,857.8	1,816.3	1,841.1	1,857.8	1,871.0	1,886.6	1,9
Short-term loans Long-term loans	54.4 1,657.3	58.1 1,717.5	58.8 1,799.0	59.4 1,756.9	58.8 1,782.4	58.8 1,799.0	57.2 1,813.8	54.9 1,831.7	1,8
Memo item:	1,057.3	1,/1/.5	1,799.0	1,756.9	1,782.4	1,799.0	1,013.0	1,631./	1,0
Mortgage loans	1,247.3	1,307.9	1,378.6	1,337.4	1,359.0	1,378.6	1,394.4	1,412.5	1,4
Consumer loans	211.8	218.1	231.4	229.7	233.3	231.4	228.8	226.0	2.
Entrepreneurial loans	252.7	249.7	247.7	249.2	248.8	247.7	247.8	248.1	2
Memo item: Loans from monetary financial institutions	1,610.0	1.667.2	1,741.6	1,701.8	1,722.9	1.741.6	1,757.2	1,773.2	1,80
Loans from other financial institutions	101.8	1,007.2	116.2	114.5	118.2	116.2	113.8	113.5	1,00
Loans from general government and rest of the world	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	0.0	0.0	
Other accounts payable	17.3	18.3	19.2	20.4	20.8	19.2	20.7	21.0	1
Total	1,729.1	1,793.9	1,877.0	1,836.7	1,862.0	1,877.0	1,891.7	1,907.7	1,93

 $^{{\}bf 1}$ 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

Deviced	General government	Central government	State government	Local government	Social security funds	General government	Central government	State government	Local government	Social security funds
Period	€ billion Deficit/surp	lus ¹				As a percentage	of GDP			
2014 2015 2016 2017 p	+ 17.0 + 29.1 + 36.4 + 44.4	+ 17.6 + 13.7 + 7.8	+ 2.0 + 4.6 + 7.7 + 13.9	- 3.9 + 3.7 + 6.3 + 11.4	+ 3.4 + 3.2 + 8.7 + 11.2	+ 1.0 + 1.2 + 1.4	+ 0.6 + 0.4 + 0.2	+ 0.1 + 0.2 + 0.2 + 0.4	+ 0.1 + 0.2 + 0.4	+ 0.1 + 0.3 + 0.3
2018 P 2019 P 2018 H1 P H2 P	+ 61.6 + 52.5 + 51.3 + 10.3	+ 20.8 + 22.7 + 18.9 + 1.9	+ 12.1 + 16.0 + 15.5 - 3.4	+ 12.8 + 5.1 + 7.7 + 5.1	+ 16.0 + 8.7 + 9.3 + 6.7	+ 1.8 + 1.5 + 3.1 + 0.6	+ 0.6 + 0.7 + 1.1 + 0.1	+ 0.4 + 0.5 + 0.9 - 0.2	+ 0.4 + 0.1 + 0.5 + 0.3	+ 0.3 + 0.6 + 0.4
2019 H1 p H2 p 2020 H1 pe	+ 46.5 + 6.0 - 54.2 Debt level ²	+ 19.0 + 3.7 - 29.2	+ 13.0 + 3.0 - 11.9	+ 6.4 - 1.3 - 1.9	+ 8.1 + 0.6 - 11.4	+ 2.7 + 0.3 - 3.3	+ 1.1 + 0.2 - 1.8	+ 0.8 + 0.2 - 0.7		+ 0.0
2014		1,395.8	I 650.2	l 176.1	1 1 1	J 75.6	l 47.7	J 22.5	-	
2014 2015 2016 2017 P 2018 P 2019 P	2,213.6 2,188.4 2,171.6 2,122.2 2,073.6 2,057.2	1,393.6 1,371.6 1,365.2 1,349.7 1,322.5 1,299.4	658.2 658.2 640.9 613.6 599.8 609.4	176.1 176.3 178.0 175.2 167.4 165.1	1.4 1.4 1.1 0.8 0.7 0.7	72.3 69.3 65.1 61.8 59.6	45.3 43.6 41.4 39.4	22.5 21.8 20.4 18.8 17.9 17.7	6.0 5.8 5.7 5.4 5.0 4.8	0.0 0.0 0.0 0.0
2018 Q1 P Q2 P Q3 P Q4 P	2,100.3 2,085.8 2,086.2 2,073.6	1,337.1 1,328.7 1,334.9 1,322.5	604.1 600.6 599.9 599.8	174.0 172.5 167.2 167.4	1.0 0.9 0.8 0.7	64.0 62.9 62.6 61.8	40.7 40.1 40.0 39.4	18.4 18.1 18.0 17.9	5.3 5.2 5.0 5.0	0.0
2019 Q1 P Q2 P Q3 P Q4 P	2,083.9 2,074.3 2,091.2 2,057.2	1,324.0 1,319.9 1,327.6 1,299.4	611.7 609.9 619.9 609.4	165.7 164.3 163.7 165.1	0.7 0.7 0.6 0.7	61.6 61.1 61.0 59.6	1	18.1 18.0 18.1 17.7	4.9 4.8 4.8 4.8	0.0 0.0 0.0
2020 Q1 p Q2 p Q3 p	2,107.0 2,276.0 2,345.2	1,327.0 1,473.1 1,535.9	628.7 650.4 656.9	165.1 165.3 166.6	0.8 1.0 4.6	61.0 67.4 70.0	38.4 43.6 45.9	18.2 19.3 19.6	4.8 4.9 5.0	0.0

Sources: Federal Statistical Office and Bundesbank calculations. **1** The deficit/surplus in accordance with ESA 2010 corresponds to the Maastricht definition. **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	Inter- mediate consumption	Gross capital formation	Interest	Other	Deficit/ surplus	Memo item: Total tax burden 1
	€ billion												
2014	1,313.9	673.0	482.3	158.5	1,296.9	691.3	227.5	147.1	60.5	47.1	123.4	+ 17.0	1,160.0
2015 2016 2017 P 2018 P 2019 P	1,364.9 1,426.7 1,485.2 1,553.8 1,610.6	705.1 739.2 773.1 808.0 834.1	501.2 524.3 549.5 572.6 597.5		1,335.8 1,390.4 1,440.8 1,492.2 1,558.1	721.9 754.5 783.9 806.0 845.9	233.0 240.7 250.1 259.6 271.5	153.0 162.5 168.4 173.4 181.9	64.5 68.1 71.6 78.7 86.2	42.2 37.3 33.7 31.1 27.5	121.2 127.2 133.0 143.5 145.1	+ 61.6	1,329.4 1,387.6
	As a perce	entage of	GDP										
2014	44.9	23.0	16.5	5.4	44.3	23.6	7.8	5.0	2.1	1.6	4.2	+ 0.6	39.6
2015 2016 2017 P 2018 P 2019 P	45.1 45.5 45.6 46.3 46.7	23.3 23.6 23.7 24.1 24.2	16.6 16.7 16.9 17.1 17.3	5.2 5.0 5.2	44.1 44.4 44.2 44.5 45.2	23.9 24.1 24.0 24.0 24.5	7.7 7.7 7.7 7.7 7.9	5.1 5.2 5.2 5.2 5.3	2.1 2.2 2.2 2.3 2.5	1.4 1.2 1.0 0.9 0.8	4.0 4.1 4.1 4.3 4.2	+ 1.2 + 1.4 + 1.8	40.5 40.8 41.3
	Percentag	je growth	rates										
2014 2015 2016 2017 P 2018 P 2019 P	+ 3.9 + 3.9 + 4.5 + 4.1 + 4.6 + 3.6	+ 3.4 + 4.8 + 4.6 + 4.5 + 3.2	+ 3.6 + 3.9 + 4.6 + 4.8 + 4.2 + 4.4	+ 6.9 + 0.0 + 2.9 - 0.4 + 6.6 + 3.3	+ 2.6 + 3.0 + 4.1 + 3.6 + 3.6 + 4.4	+ 3.7 + 4.4 + 4.5 + 3.9 + 2.8 + 4.9	+ 3.2 + 2.4 + 3.3 + 3.9 + 3.8 + 4.6	+ 3.7 + 4.0 + 6.2 + 3.6 + 3.0 + 4.9	- 0.8 + 6.6 + 5.6 + 5.1 + 9.8 + 9.6	- 10.5 - 11.7 - 9.5 - 7.8	+ 1.0 - 1.8 + 4.9 + 4.6 + 7.8 + 1.1		+ 3.5 + 4.6 + 4.7 + 4.6 + 4.4 + 3.7

Source: Federal Statistical Office. * Figures in accordance with ESA 2010. 1 Taxes and social contributions plus customs duties and bank levies to the Single Resolution Fund.

3. General government: budgetary development (as per the government finance statistics)

€ billion

	Central, stat	te and loca	al governm	ent 1							Social secu	rity funds 2		General go	vernment,	total	
	Revenue			Expenditur	e												7
		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	
2013 P	761.8	619.7	14.7	773.6	225.3	286.9	65.7	42.8	23.5	- 11.8	536.7	531.9	+ 4.9	1,198.1	1,205.0	- 6.9	و
2014 P	791.8	643.6	11.3	788.9	236.0	295.1	57.1	45.9	17.6	+ 2.9	554.5	551.1	+ 3.5	1,245.2	1,238.8	+ 6.4	4
2015 P 2016 P 2017 P 2018 P 2019 P	829.8 862.3 900.3 951.8 1,010.4	673.3 705.8 734.5 776.3 799.4	10.4 9.0 7.9 6.2 11.2	804.3 844.5 869.4 905.6 975.4	244.1 251.3 261.6 272.5 285.9	302.7 321.6 327.9 338.0 349.7	49.8 43.4 42.0 39.2 33.6	46.4 49.0 52.3 55.8 62.9	12.5 11.8 13.8 16.1 16.8	+ 25.5 + 17.8 + 30.8 + 46.2 + 35.0	575.0 601.8 631.5 656.2 684.7	573.1 594.8 622.0 642.5 676.6	+ 1.9 + 7.1 + 9.5 + 13.6 + 8.0	1,301.1 1,355.1 1,417.5 1,490.7 1,573.7	1,273.6 1,330.2 1,377.2 1,430.9 1,530.6	+ 27.4 + 24.9 + 40.3 + 59.8 + 43.1	9 3 8 1
2018 Q1 P Q2 P	225.7 239.9	189.1 194.7	1.1 1.0	210.0 206.2	66.0 65.9	81.7 80.9	14.6 5.8	9.1 11.4	2.5 2.1	+ 15.7 + 33.7	156.1 162.4	160.8 160.1	- 4.7 + 2.3	352.7 373.3	341.7 337.3	+ 11.0 + 36.1	1
Q2 P Q3 p	239.9	189.0	1.8	223.6	67.0	84.6	13.4	14.4	1.9	+ 53.7	161.8	161.1	+ 2.3	361.3	355.5	+ 50.1	- 1
Q4 p	255.2	203.9	2.2	262.1	73.1	89.7	6.2	20.3	9.6	- 6.9	174.6	163.4	+ 11.2	400.7	396.4	+ 4.3	- 1
2019 Q1 p Q2 p Q3 p Q4 p	240.9 256.3 245.3 269.3	192.7 201.7 194.7 210.6	2.5 2.0 3.4 3.2	230.4 233.4 236.7 272.1	71.0 67.5 70.9 76.1	88.5 87.0 86.2 87.5	11.5 12.2 4.5 5.1	10.2 13.0 16.4 22.5	3.3 2.6 3.1 7.7	+ 10.5 + 22.8 + 8.6 - 2.8	163.3 169.9 168.8 181.9	166.4 168.4 170.3 172.6	- 3.1 + 1.5 - 1.5 + 9.3	374.3 396.1 384.0 420.9	366.8 371.9 376.9 414.4	+ 7.5 + 24.3 + 7.1 + 6.5	3
2020 Q1 P Q2 P	244.8 212.1	197.4 158.0	2.5	272.1 239.1 269.2	75.6 69.5	90.5 119.2	11.9	12.0 15.4	2.6	+ 5.7	168.3	175.7	- 7.4	380.0	381.7 422.9	+ 6.5 - 1.7 - 68.2	7

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 contain numerous off-budget entities which are assigned to the general government sector as defined in the national accounts but are not yet included in the annual calculations. From 2012 also including the bad bank FMSW. 2 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 changeovers. **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 loans granted. **6** Including central government liquidity assistance to the Federal Employment Agency.

4. Central, state and local government: budgetary development (as per the government finance 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
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	338.3	326.5	+ 11.8	355.1	350.6	+ 4.5	232.7	229.1	+ 3.6
2016 p	344.7	338.4	+ 6.2	381.1	372.4	+ 8.8	248.9	243.1	+ 5.8
2017 p	357.8	352.8	+ 5.0	397.7	385.8	+ 11.8	260.3	249.1	+ 11.2
2018 p	374.4	363.5	+ 10.9	420.5	400.1	+ 20.4	271.8	261.5	+ 10.2
2019 p	382.5	369.2	+ 13.3	437.3	419.5	+ 17.9	284.2	278.1	+ 6.1
2018 Q1 p	87.9	83.9	+ 4.0	100.0	92.7	+ 7.3	54.9	60.3	- 5.3
Q2 p	94.5	79.8	+ 14.6	104.3	91.8	+ 12.5	68.5	62.4	+ 6.1
Q3 p	91.7	95.9	- 4.2	100.7	95.4	+ 5.3	66.0	64.3	+ 1.7
Q4 p	100.4	103.9	- 3.5	113.4	118.5	- 5.1	80.4	73.1	+ 7.3
2019 Q1 P	84.7	86.1	- 1.4	105.7	99.4	+ 6.2	58.2	63.2	- 4.9
Q2 p	97.7	90.3	+ 7.4	106.0	97.5	+ 8.5	70.6	65.9	+ 4.7
Q3 p	93.2	91.3	+ 1.9	107.9	102.6	+ 5.2	69.1	69.2	- 0.1
Q4 p	106.9	101.5	+ 5.4	115.6	118.2	- 2.6	84.5	78.4	+ 6.0
2020 Q1 P	92.3	90.4	+ 1.9	105.6	102.4	+ 3.2	57.9	67.7	- 9.8
Q2 p	70.8	114.8	- 44.0	108.2	125.3	- 17.1	69.4	69.4	+ 0.1
Q3 p	83.8	105.5	- 21.7	112.9	113.7	- 0.8	67.5	72.6	- 5.1

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 Quarterly data of core budgets and off-budget entities which are

assigned to the general government sector. 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

		Central and state gove	rnment 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
2013	619,708	535,173	287,641	216,430	31,101	84,274	+ 262	
2014	643,624	556,008	298,518	226,504	30,986	87,418	+ 198	
2015	673,276	580,485	308,849	240,698	30,938	93,003	- 212	
2016	705,797	606,965	316,854	260,837	29,273	98,648	+ 186	
2017	734,540	629,458	336,730	271,046	21,682	105,158	- 76	
2018	776,314	665,005	349,134	287,282	28,589	111,308	+ 1	
2019	799,416	684,491	355,050	298,519	30,921	114,902	+ 23	
2018 Q1	189,457	159,974	83,370	69,413	7,191	19,173	+ 10,310	
Q2	194,715	166,191	88,450	71,995	5,745	29,064	- 540	
Q3	189,015	161,683	84,952	69,414	7,317	27,579	- 248	
Q4	203,128	177,157	92,363	76,459	8,335	35,492	- 9,521	
2019 Q1	193,054	162,696	79,669	71,578	11,450	19,816	+ 10,541	6,270
Q2	202,383	172,563	90,883	75,455	6,224	29,784	+ 37	6,179
Q3	193,918	166,676	86,117	72,677	7,882	27,569	- 327	7,402
Q4	210,062	182,556	98,381	78,809	5,365	37,733	- 10,227	6,146
2020 Q1	198,351	168,099	83,086	75,420	9,593	18,875	+ 11,377	6,855
Q2	158,161	135,185	68,653	59,557	6,974	25,107	– 2,131	6,997
Q3		156,397	78,502	72,613	5,282			9,705
2019 Oct. Nov.		46,677 47,730	23,836 26,134	20,239 20,344	2,602 1,252	:		2,049 2,049
2020 Oct. Nov.	:	42,440 44,201	19,976 18,862	19,762 20,579	2,702 4,760	:	:	2,236 2,236

Sources: Federal Ministry of Finance, Federal Statistical Office and Bundesbank calculations. 1 Before deducting or adding supplementary central government transfers, regionalisation funds (local public transport), compensation for the transfer of motor vehicle tax to central government and consolidation assistance, 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 Customs duties and shares in VAT and gross national income accruing to the EU from central

government tax revenue. 3 Including local government taxes in the city states Berlin, Bremen and Hamburg. Including revenue from offshore wind farms. 4 Difference between local government'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 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				Value added	taxes (VAT) 5	5					Memo item:
Period	Total 1	Total	Wage tax 3	Assessed income tax	Corpora-	Invest- ment income tax 4	Total	Domestic VAT	Import VAT	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
2013	570,213	245,909	158,198	42,280	19,508	25,923	196,843	148,315	48,528	7,053	100,454	15,723	4,231	35,040
2014	593,039	258,875	167,983	45,613	20,044	25,236	203,110	154,228	48,883	7,142	101,804	17,556	4,552	37,031
2015	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	39,802
2016	648,309	291,492	184,826	53,833	27,442	25,391	217,090	165,932	51,157	7,831	104,441	22,342	5,113	41,345
2017	674,598	312,462	195,524	59,428	29,259	28,251	226,355	170,498	55,856	8,580	99,934	22,205	5,063	45,141
2018	713,576	332,141	208,231	60,415	33,425	30,069	234,800	175,437	59,363	9,078	108,586	23,913	5,057	48,571
2019	735,869	344,016	219,660	63,711	32,013	28,632	243,256	183,113	60,143	8,114	109,548	25,850	5,085	51,379
2018 Q1	172,111	81,713	48,059	17,640	9,418	6,595	59,248	45,272	13,977	291	23,752	5,836	1,271	12,136
Q2	178,102	86,322	51,395	14,889	9,302	10,736	55,801	41,220	14,581	2,215	26,474	6,170	1,119	11,912
Q3	173,202	78,105	50,368	12,683	7,192	7,862	59,169	43,951	15,218	2,315	26,424	5,797	1,391	11,519
Q4	190,161	86,001	58,409	15,204	7,513	4,876	60,581	44,994	15,587	4,257	31,936	6,109	1,276	13,004
2019 Q1	175,216	82,996	50,923	17,453	9,194	5,426	60,402	46,018	14,384	121	23,968	6,531	1,197	12,519
Q2	185,333	90,134	54,437	16,069	8,085	11,543	59,101	43,943	15,158	2,113	26,625	6,087	1,273	12,770
Q3	179,020	81,267	53,668	13,614	7,607	6,379	61,057	45,976	15,081	2,221	26,654	6,485	1,336	12,344
Q4	196,300	89,619	60,632	16,575	7,128	5,284	62,696	47,175	15,520	3,660	32,301	6,746	1,279	13,745
2020 Q1	181,350	88,009	53,389	18,711	8,495	7,415	60,060	46,038	14,022	244	24,517	7,406	1,114	13,251
Q2	146,360	69,928	50,760	10,633	2,348	6,187	44,262	31,625	12,638	1,170	23,525	6,326	1,149	11,175
Q3	168,308	73,766	47,470	13,492	5,411	7,392	59,819	47,933	11,886	796	25,930	6,784	1,212	11,910
2019 Oct.	49,839	17,560	16,314	- 32	- 144	1,422	19,404	14,453	4,951	1,634	8,608	2,213	420	3,162
Nov.	51,115	17,840	17,416	- 263	- 622	1,308	21,996	16,452	5,544	273	8,399	2,130	477	3,385
2020 Oct.	45,454	16,044	14,587	- 234	67	1,625	17,605	13,756	3,849	755	8,174	2,383	491	3,014
Nov.	47,545	18,208	16,425	- 128	– 130	2,040	18,511	14,343	4,168	158	8,081	2,252	335	3,344

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 untransferred 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, corporation tax and non-assessed taxes on earnings 50:50:-, final withholding tax on interest 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 Revenue Adjustment Act. Respective percentage share of central, state and local government in revenue for 2019: 48.9:47.7:3.4. The EU share is deducted from central government's share. **6** Respective percentage share of central and state government for 2019: 24.0:76.0. **7** For the breakdown, see Table X. 7.

7. Central, state and local government: individual taxes

€ million

	Central gove	ernment tax	es 1						State gover	nment taxes	ş 1		Local gover	nment taxe	5
									Tax on the acqui-		Bettina			of which:	
	- Francis	Soli- darity	Tobacco	Insurance	Motor vehicle	Electri-	Alcohol		sition of	Inherit-	and			Local business	Real
Period	Energy tax	surcharge		tax	tax	city tax	tax	Other	buildings	ance tax	lottery tax	Other	Total	tax 2	property taxes
2013	39,364	14,378	13,820	11,553	8,490	7,009	2,102	3,737	8,394	4,633	1,635	1,060	56,549	43,027	12,377
2014	39,758	15,047	14,612	12,046	8,501	6,638	2,060	3,143	9,339	5,452	1,673	1,091	57,728	43,763	12,691
2015	39,594	15,930	14,921	12,419	8,805	6,593	2,070	3,872	11,249	6,290	1,712	1,088	60,396	45,752	13,215
2016	40,091	16,855	14,186	12,763	8,952	6,569	2,070	2,955	12,408	7,006	1,809	1,119	65,319	50,103	13,654
2017	41,022	17,953	14,399	13,269	8,948	6,944	2,094	-4,695	13,139	6,114	1,837	1,115	68,522	52,899	13,966
2018	40,882	18,927	14,339	13,779	9,047	6,858	2,133	2,622	14,083	6,813	1,894	1,122	71,817	55,904	14,203
2019	40,683	19,646	14,257	14,136	9,372	6,689	2,118	2,648	15,789	6,987	1,975	1,099	71,661	55,527	14,439
2018 Q1	4,865	4,587	2,425	6,388	2,602	1,725	591	569	3,576	1,431	479	350	17,638	13,880	3,291
Q2	10,158	5,127	3,485	2,442	2,360	1,805	466	631	3,270	2,166	470	264	18,827	14,548	3,853
Q3	10,423	4,353	3,886	2,752	2,128	1,677	531	674	3,592	1,463	464	278	18,128	13,764	3,919
Q4	15,436	4,860	4,543	2,197	1,956	1,650	545	749	3,645	1,752	481	231	17,224	13,713	3,140
2019 Q1	4,848	4,679	2,495	6,542	2,594	1,646	579	586	3,976	1,705	499	351	17,959	14,139	3,350
Q2	9,937	5,257	3,588	2,543	2,491	1,659	485	665	3,667	1,660	513	247	19,163	14,869	3,881
Q3	10,519	4,624	3,667	2,770	2,251	1,639	515	668	3,923	1,824	474	264	17,118	12,659	4,019
Q4	15,379	5,086	4,507	2,281	2,035	1,745	538	730	4,223	1,798	488	237	17,422	13,861	3,190
2020 Q1	4,966	4,930	2,413	6,766	2,634	1,708	562	537	4,525	1,981	542	358	17,245	13,391	3,403
Q2	8,117	4,235	3,772	2,606	2,426	1,585	455	328	3,566	2,154	425	181	12,971	8,842	3,895
Q3	9,985	4,365	3,978	2,817	2,366	1,499	506	414	3,730	2,262	509	283			
2019 Oct.	3,534	1,038	1,683	669	712	580	167	226	1,417	568	148	80			.
Nov.	3,379	1,047	1,359	943	699	574	157	241	1,315	568	176	71			.
2020 Oct.	3,283	1,044	1,439	685	755	644	167	157	1,373	737	185	89			.
Nov.	3,453	1,076	1,052	963	656	554	183	143	1,347	651	178	77		Ι.	l .l

Sources: Federal Ministry of Finance, Federal Statistical Office and Bundesbank calculations. **1** For the sum total, see Table X. 6. **2** Including revenue from offshore wind farms

8. German statutory 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/ surplus	Total	Deposits 5	Securities	Equity interests, mort-gages and other loans 6	Real estate	Memo item: Adminis- trative assets
2013	260,166	181,991	77,067	258,268	219,560	15,528	+ 1,89	33,114	29,193	3,701	119	100	4,250
2014	269,115	189,080	78,940	265,949	226,204	15,978	+ 3,16	36,462	32,905	3,317	146	94	4,263
2015	276,129	194,486	80,464	277,717	236,634	16,705	- 1,58	35,556	32,795	2,506	167	88	4,228
2016	286,399	202,249	83,154	288,641	246,118	17,387	- 2,24	34,094	31,524	2,315	203	52	4,147
2017	299,826	211,424	87,502	299,297	255,261	18,028	+ 52	35,366	33,740	1,335	238	53	4,032
2018	312,788	221,572	90,408	308,356	263,338	18,588	+ 4,43	40,345	38,314	1,713	262	56	4,008
2019	327,298	232,014	94,467	325,436	277,282	20,960	+ 1,86	1 42,963	40,531	2,074	303	56	3,974
2018 Q1	74,368	51,726	22,489	75,482	64,885	4,569	- 1,11	34,219	32,775	1,146	240	58	4,029
Q2	77,824	55,186	22,451	75,747	64,742	4,557	+ 2,07	7 36,244	34,963	983	241	57	4,033
Q3	76,831	54,085	22,575	78,284	67,017	4,727	- 1,45	35,344	34,104	936	248	57	4,019
Q4	82,953	60,561	22,185	78,432	67,042	4,729	+ 4,52	1 40,353	38,332	1,713	252	56	4,018
2019 Q1	77,984	54,393	23,426	78,630	67,328	5,087	- 64	39,432	37,637	1,474	263	57	4,001
Q2	81,410	57,837	23,408	80,804	69,011	5,205	+ 60	40,232	38,639	1,272	264	57	3,996
Q3	80,305	56,637	23,481	82,716	70,633	5,330	- 2,41	1 38,386	36,876	1,183	271	56	3,995
Q4	86,756	63,133	23,413	82,849	70,674	5,333	+ 3,90	42,945	40,539	2,074	276	56	3,987
2020 Q1	80,578	55,999	24,436	82,622	70,829	5,346	- 2,04	40,840	38,636	1,848	300	56	3,966
Q2	82,098	57,515	24,413	82,875	70,889	5,346	- 77	7 39,779	37,975	1,446	304	55	3,949
Q3	82,689	58,109	24,418	86,497	74,054	5,591	- 3,80	36,898	35,197	1,333	313	55	3,925

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 generally differ from the total of the reported provisional quarterly figures as the latter are not revised sub-

sequently. 2 Including financial compensation payments. Excluding 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.

9. Federal Employment Agency: budgetary development*

€ million

	Revenue			Expenditure										
		of which:				of which:								Deficit- offsetting
Period	Total 1	Contri- butions		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
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	-
2016	36,352	31,186	1,114	_	30,889	14,435	749	7,035		595	5,314	+	5,463	1 -1
2017	37,819	32,501	882	_	31,867	14,055	769	7,043		687	6,444	+	5,952	1 -1
2018	39,335	34,172	622	_	33,107	13,757	761	6,951		588	8,129	+	6,228	-
2019	35,285	29,851	638	-	33,154	15,009	772	7,302		842	6,252	+	2,131	-
2018 Q1	9,167	7,926	151	-	9,546	3,826	415	1,742		174	2,625	-	379	-
Q2	9,713	8,523	152	-	8,471	3,431	245	1,752		161	2,209	+	1,243	-
Q3	9,515	8,355	152	-	7,288	3,296	50	1,623		114	1,514	+	2,227	-
Q4	10,940	9,367	167	-	7,802	3,204	51	1,834		139	1,781	+	3,138	-
2019 Q1	8,369	7,027	148	_	8,597	3,969	403	1,818		179	1,450	-	228	-
Q2	8,685	7,440	156	-	8,136	3,673	204	1,832		243	1,475	+	549	-
Q3	8,650	7,263	162	-	7,829	3,682	68	1,711		190	1,510	+	821	-
Q4	9,581	8,121	172	-	8,592	3,685	98	1,941		230	1,816	+	989	-
2020 Q1	8,123	6,851	153	-	9,301	4,469	392	1,934		235	1,470	-	1,179	-
Q2	7,906	6,691	151	-	17,005	4,869	7,977	1,793		254	1,407	-	9,099	-
Q3	8,350	6,934	153	_	18,619	5,737	8,637	1,701	Ι.	472	1,414	l –	10,269	-

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

encourage job take-up, rehabilitation, compensation top-up payments and promotion of business start-ups. **5** Until 2012. From 2005 to 2007: compensatory amount. **6** Including collection charges to other social security funds , excluding administrative expenditure within the framework of the basic allowance for 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	Remedies and therapeutic appliances	Sickness benefits	Adminis- trative expend- iture 5	Defic surpl	
2013 2014	196,405 203,143	182,179 189,089	11,500 10,500	194,537 205,589	62,886 65,711	30,052 33,093	32,799 34,202	12,619 13,028	12,087 13,083	9,758 10,619	9,979 10,063	+	1,867 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
2016 2017	223,692 233,814	206,830 216,227	14,000 14,500	222,936 230,773	70,450 72,303	35,981 37,389	37,300 38,792	13,790 14,070	14,256 14,776	11,677 12,281	11,032 10,912	+	757 3,041
2018 2019	242,360 251,295	224,912 233,125	14,500 14,500	239,706 252,440	74,506 77,551	38,327 40,635	39,968 41,541	14,490 15,010	15,965 17,656	13,090 14,402	11,564 11,136	+	2,654 1,145
2019 2018 Q1	57,788	53,670	3,625	59,854	19,028	9,569	10,045	3,656	3,763	3,370	2,614		2,067
Q2	59,796	55,571	3,625	60,060	18,677	9,591	10,049	3,639	3,904	3,294		_	264
Q3 Q4	60,138 64,645	55,778 59,893	3,625 3,625	59,204 60,689	18,302 18,537	9,600 9,806	9,862 10,067	3,481 3,677	4,070 4,157	3,155 3,272	2,810 3,236	+	934 3,956
2019 Q1	59,809	55,622	3,625	62,485	19,586	9,947	10,386	3,738	4,106	3,649	2,707	_	2,676
Q2	62,121	57,858	3,625	62,858	19,210	10,127	10,421	3,821	4,289	3,535			736
Q3 Q4	62,143 67,094	57,763 61,884	3,625 3,625	62,716 64,075	19,109 19,497	10,229 10,353	10,278 10,455	3,630 3,821	4,467 4,713	3,558 3,659	2,804 2,975	+	573 3,019
2020 Q1	61,949	57,419	3,625	66,438	20,049	11,086	10,806	3,804	4,470	4,061	2,816		4,489
Q2 Q3	68,108 70,130	58,096 59,403	9,359 10,151	69,487 71,063	17,674 20,913	10,492 10,567	10,908 11,642	3,389 3,774	3,986 4,852	4,143 3,829	2,980 2,970		1,378 934

Source: Federal Ministry of Health. 1 The final annual figures generally differ from the total of the reported provisional quarterly figures as the latter are not revised subsequently. Excluding revenue and expenditure as part of the risk structure compensation scheme. 2 Including contributions from subsidised low-paid part-time employ-

ment. 3 Federal grant and liquidity assistance. 4 Including dentures. 5 Net, i.e. after deducting reimbursements for expenses for levying contributions incurred by other social security funds.

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

€ million

	Revenue 1		Expenditure 1								
				of which:	which:						
Period	Total	of which: Contributions 2	Total	Non-cash care benefits	Inpatient care	Nursing benefit	Contributions to pension insurance scheme 3	Administrative expenditure	Deficit/ surplus		
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	
2016	32,171	32,100	30,936	3,846	10,918	6,673	983	1,422	+	1,235	
2017	36,305	36,248	38,862	4,609	13,014	10,010	1,611	1,606	-	2,557	
2018	37,949	37,886	41,265	4,778	12,957	10,809	2,093	1,586	-	3,315	
2019	47,228	46,508	44,008	4,990	13,043	11,689	2,392	1,781	+	3,220	
2018 Q1	8,961	8,948	10,146	1,192	3,233	2,603	496	424	_	1,185	
Q2	9,338	9,322	10,118	1,160	3,217	2,658	509	389	-	780	
Q3	9,349	9,334	10,428	1,202	3,251	2,781	515	397	-	1,079	
Q4	10,071	10,050	10,581	1,229	3,251	2,835	561	384	-	510	
2019 Q1	11,123	10,938	10,728	1,198	3,232	2,833	547	437	+	396	
Q2	11,795	11,620	10,812	1,205	3,237	2,868	588	449	+	983	
Q3	11,734	11,557	11,159	1,288	3,277	2,972	598	450	+	576	
Q4	12,592	12,413	11,252	1,288	3,296	3,064	626	433	+	1,339	
2020 Q1	11,693	11,473	11,444	1,288	3,280	3,067	633	489	+	249	
Q2	11,921	11,732	11,816	1,266	3,281	3,173	664	468	+	105	
Q3	13,924	11,938	12,890	1,382	3,285	3,249	682	500	+	1,033	

Source: Federal Ministry of Health. * Including transfers to the long-term care provident fund. 1 The final annual figures generally differ from the total of the reported provisional quarterly figures as the latter are not revised subsequently. 2 Since 2005

including special contributions for childless persons (0.25% of income subject to insurance contributions). 3 For non-professional carers.

12. Central government: borrowing in the market

€ million

	Total	new borro	wing	1	of which:		Change		
Period	Gross 2				in me mark	oney et	in money market deposits 3		
							Ė		
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	
2016	+	182,486	-	11,331	-	2,332	-	16,791	
2017	+	171,906	+	4,531	+	11,823	+	2,897	
2018	+	167,231	-	16,248	-	91	-	1,670	
2019	+	185,070	+	63	-	8,044	-	914	
2018 Q1	+	42,934	-	4,946	_	5,138	+	3,569	
Q2	+	43,602	-	5,954	-	166	-	6,139	
Q3	+	46,500	+	4,856	+	1,688	+	1,871	
Q4	+	34,195	-	10,205	+	3,525	-	971	
2019 Q1	+	56,654	+	3,281	_	2,172	_	1,199	
Q2	+	48,545	+	5,491	-	279	+	7,227	
Q3	+	48,053	+	4,030	+	176	-	5,093	
Q4	+	31,817	-	12,738	-	5,768	-	1,849	
2020 Q1	+	65,656	+	31,296	+	9,236	+	1,698	
Q2	+	185,560	+	126,585	+	31,212	-	7,314	
Q3	+	159,067	+	80,783	_	6,080	+	588	

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.

13. General government: debt by creditor*

€ million

CHIMICH											
		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					
2013	2,211,421	12,438	661,141	190,555	43,675	1,303,612					
2014	2,213,569	12,774	632,927	190,130	44,640	1,333,098					
2015	2,188,404	85,952	621,415	186,661	48,583	1,245,794					
2016	2,171,646	205,391	598,526	179,755	45,046	1,142,929					
2017	2,122,248	319,159	552,504	175,617	42,121	1,032,847					
2018	2,073,595	364,731	508,821	181,077	42,009	976,956					
2019 p	2,057,166	366,562	476,020	177,601	49,707	987,276					
2018 Q1	2,100,279	329,387	529,897	176,495	42,221	1,022,280					
Q2	2,085,756	344,279	514,227	179,856	41,938	1,005,455					
Q3	2,086,219	356,899	502,476	180,464	42,726	1,003,653					
Q4	2,073,595	364,731	508,821	181,077	42,009	976,956					
2019 Q1 p	2,083,861	359,884	498,724	179,512	42,186	1,003,554					
Q2 p	2,074,252	361,032	492,046	179,168	41,438	1,000,567					
Q3 p	2,091,213	358,813	489,832	179,228	47,831	1,015,509					
Q4 p	2,057,166	366,562	476,020	177,601	49,707	987,276					
2020 Q1 p	2,106,967	371,076	496,703	180,477	53,007	1,005,705					
Q2 p	2,275,956	424,141	561,892	181,288	52,631	1,056,004					
Q3 P	2,345,226	468,723	534,784	184,051	50,603	1,107,065					

14. Maastricht debt by instrument

mil	

	CITIMION		Debt securities by original maturity		Loans by original matu	ıritv	Memo item: 2		
Period			Short-term	Long-term	Louis by original mate	ancy .	Debt vis-à-vis	Claims vis-à-vis	
(end of year or quarter)	Total	Currency and deposits 1	debt securities (up to one year)	debt securities (more than one year)	Short-term loans (up to one year)	Long-term loans (more than one year)	other government	other government subsectors	
	General gove	ernment							
2013	2,211,421	10,592	85,836	1,470,698	100,594	543,700			
2014 2015	2,213,569 2,188,404	12,150 14,303	72,618 65,676	1,501,494 1,499,010	95,896 89,074	531,412 520,341	:		
2016	2,171,646	15,845	69,715	1,483,871	94,976	507,239			
2017 2018 Q1	2,122,248 2,100,279	14,651 12,472	48,789 48,431	1,484,462 1,479,513	86,513 76,260	487,832 483,604		'	
Q2 Q3	2,085,756	12,636	54,933	1,465,727	73,256	479,204			
Q3 Q4	2,086,219 2,073,595	15,607 14,833	59,989 52,572	1,465,852 1,456,543	68,923 75,999	475,847 473,648	:		
2019 Q1 p	2,083,861	15,663	64,218	1,460,634	71,234	472,112			
Q2 p Q3 p	2,074,252 2,091,213	12,868 17,586	56,256 62,602	1,463,027 1,465,529	74,511 79,144	467,589 466,353		.	
Q4 P	2,057,166	14,595	49,180	1,459,128	68,519	465,743	:		
2020 Q1 p	2,106,967	11,564	70,930	1,472,976	88,092	463,406			
Q2 p Q3 p	2,275,956 2,345,226	13,282 12,057	122,238 180,449	1,534,559 1,581,740	145,855 110,908	460,021 460,071	l :	:	
	Central gove	rnment							
2013 2014	1,389,791 1,395,841	10,592 12,150	78,996 64,230	1,113,029 1,141,973	64,970 54,388	122,204 123,100	2,696 1,202	10,303 12,833	
2015	1,371,573	14,303	49,512	1,138,951	45,256	123,550	1,062	13,577	
2016 2017	1,365,248 1,349,683	15,845 14,651	55,208 36,297	1,123,853 1,131,896	50,004 47,761	120,337 119,078	556 1,131	8,478 10,603	
2018 Q1	1,337,071	12,472	35,923	1,132,746	37,211	118,719	1,065	9,887	
Q2 Q3	1,328,657 1,334,898	12,636 15,607	42,888 46,614	1,119,893 1,118,470	35,048 36,633	118,192 117,575	1,036 817	10,693 10,260	
Q4	1,322,526	14,833	42,246	1,107,140	42,057	116,250	933	9,959	
2019 Q1 P Q2 P	1,323,993 1,319,861	15,663 12,868	50,032 42,752	1,102,604 1,109,057	39,185 38,950	116,508 116,234	809 835	11,566 13,845	
Q3 p	1,327,584	17,586	48,934	1,105,439	39,067	116,558	704	13,833	
Q4 p	1,299,384	14,595	38,480	1,101,866	28,592	115,850	605	10,285	
2020 Q1 P Q2 P	1,327,045 1,473,063	11,564 13,282	56,680 109,221	1,103,935 1,139,513	38,708 95,511	116,157 115,536	546 510	8,229 7,262	
Q3 P	1,535,879		166,564	1,178,717	62,993	115,548	555	12,092	
	State govern	iment							
2013 2014	663,944 658,164	_ _	6,847 8,391	360,706 361,916	11,921 19,245	284,470 268,612	12,141 14,825	2,655 2,297	
2015 2016	658,234 640,887	-	16,169	362,376 361,996	22,133 19,266	257,557	15,867	2,348 1,694	
2017	613,601	_	14,515 12,543	354,688	18,412	245,110 227,958	11,273 14,038	2,046	
2018 Q1	604,075	-	12,548	349,682	17,372	224,473	12,997	1,882	
Q2 Q3	600,595 599,864	_	12,073 13,392	348,833 350,399	17,668 15,235	222,020 220,838	13,952 13,674	2,018 1,936	
Q4	599,845	-	10,332	352,376	17,647	219,490	14,035	1,891	
2019 Q1 p Q2 p	611,666 609,890	_	14,190 13,508	361,293 357,571	18,657 24,068	217,526 214,743	15,229 17,631	2,004 1,887	
Q3 p Q4 p	619,884 609,431	-	13,671 10,703	363,723 361,084	29,048 25,049	213,442 212,595	17,755 14,934	1,957 1,831	
2020 Q1 p	628,741	_	14,252	372,596	33,131	208,762	12,233	1,815	
Q2 p Q3 p	650,402 656,915	-	13,020 13,888	398,890	32,826 30,727	205,665 204,920	11,073	2,183 2,263	
	Local govern	ment							
2013	173,759	-	-	646 1,297	25,325 26,009	147,788	2,523 1,959	530 734	
2014 2015	176,120 176,259	_ _	_	2,047	27,414	148,814 146,798	2,143	463	
2016 2017	178,016 175,220	_	_	2,404 3,082	26,941 24,503	148,671 147,636	1,819 1,881	431 466	
2018 Q1	173,997	_		2,426	24,662	146,909	1,777	460	
Q2 Q3	172,519 167,189	_	- - 1	2,561 2,703	24,467 20,543	145,490 143,943	1,909 2,031	465 485	
Q4	167,403] -	į i	3,046	20,343	144,012	1,884	497	
2019 Q1 P Q2 P	165,673 164,257	-	1	2,960 2,961	18,801 18,757	143,911	2,139 2,016	498 525	
Q3 p	163,691] =	=	3,016	18,517	142,538 142,158	2,065	555	
Q4 P 2020 Q1 P	165,057 165,094	_	-	2,996 3,128	19,052 18,125	143,009 143,842	1,862 1,893	532 528	
Q2 p	165,331		_	3,094	18,306	143,931	2,221	367	
Q3 p	166,593	-	-	2,961	18,912	144,720	2,312	398	

For footnotes see end of table.

X. Public finances in Germany

14. Maastricht debt by instrument (cont'd)

€ million

			Debt securities by orig	inal maturity	Loans by original matu	urity	Memo item: 2	
Period (end of year or quarter)	Total	Currency and deposits 1	Short-term debt securities (up to one year)	Long-term debt securities (more than one year)	Short-term loans (up to one year)	Long-term loans (more than one year)	Debt vis-à-vis other government subsectors	Claims vis-à-vis other government subsectors
	Social securi	ty funds						
2013	1,287	l -	-	l -	360	927	- l	3,872
2014	1,430	-	-	-	387	1,043	-	2,122
2015	1,411	-	-	-	446	965	-	2,685
2016	1,143	-	-	-	473	670	-	3,044
2017	792	-	-	-	247	545	-	3,934
2018 Q1	975	_	_	_	424	551	_	3,610
Q2	883	-	-	-	383	500	-	3,721
Q3	790	-	-	-	400	390	-	3,841
Q4	674	-	-	-	372	302	-	4,506
2019 Q1 p	707	_	_	_	437	270	_	4,110
Q2 p	726	_	_	_	541	185	_	4,224
Q3 p	578	-	-	-	375	203	-	4,179
Q4 p	695	-	-	-	359	336	-	4,753
2020 Q1 P	759	_	_	_	271	488	_	4,100
Q2 p	964	-	_	-	565	399	_	3,993
Q3 P	4,602	_	_	_	4,210		3,956	

Source: Bundesbank calculations based on data from the Federal Statistical Office and the Federal Republic of Germany – Finance Agency. 1 Particularly liabilities resulting from coins in circulation. 2 Besides direct loan relationships, claims and debt

vis-à-vis other government subsectors also comprise securities holdings purchased on the market. No entry for general government as debt and claims are consolidated between different government subsectors.

15. Maastricht debt of central government by instrument and category

€ million

		Currency and	deposits 2	Debt securitie	S								
			of which: 3		of which: 3								
Period (end of year or quarter)	Total 1	Total 1	Federal day bond	Total 1	Federal bonds (Bunds)	Federal notes (Bobls)	Inflation- linked Federal bonds (Bunds) 4	Federal notes	Capital indexation of inflation- linked securities	Federal Treasury notes (Schätze) 5	Treasury discount paper (Bubills) 6	Federal savings notes	Loans 1
2007 2008 2009	983,807 1,015,846 1,082,101	6,675 12,466 9,981	3,174 2,495	917,584 928,754 1,013,072	564,137 571,913 577,798	173,949 164,514 166,471	10,019 12,017 16,982	3,444 7,522 7,748	506 1,336 1,369	102,083 105,684 113,637	37,385 40,795 104,409	10,287 9,649 9,471	59,548 74,626 59,048
2010 2011 2012 2013 2014	1,333,248 1,343,276 1,387,104 1,389,791 1,395,841	10,890 10,429 9,742 10,592 12,150	1,975 2,154 1,725 1,397 1,187	1,084,019 1,121,331 1,177,168 1,192,025 1,206,203	602,624 615,200 631,425 643,200 653,823	185,586 199,284 217,586 234,759 244,633	25,958 29,313 35,350 41,105 48,692	9,948 14,927 16,769 10,613 14,553	2,396 3,961 5,374 4,730 5,368	126,220 130,648 117,719 110,029 103,445	85,867 58,297 56,222 50,004 27,951	8,704 8,208 6,818 4,488 2,375	238,339 211,516 200,194 187,174 177,488
2015 2016 2017 2018 2019 p	1,371,573 1,365,248 1,349,683 1,322,526 1,299,384	14,303 15,845 14,651 14,833 14,595	1,070 1,010 966 921	1,188,463 1,179,062 1,168,193 1,149,386 1,140,346	663,296 670,245 693,687 710,513 719,747	232,387 221,551 203,899 182,847 174,719	59,942 51,879 58,365 64,647 69,805	14,553 14,585 14,490 – –	5,607 3,602 4,720 5,139 6,021	96,389 95,727 91,013 86,009 89,230	18,536 23,609 10,037 12,949 13,487	1,305 737 289 48	168,806 170,341 166,839 158,307 144,442
2018 Q1 Q2 Q3 Q4	1,337,071 1,328,657 1,334,898 1,322,526	12,472 12,636 15,607 14,833	951 941 932 921	1,168,669 1,162,780 1,165,084 1,149,386	699,638 710,784 703,682 710,513	193,811 185,042 194,356 182,847	60,778 62,863 64,304 64,647	14,455 - - -	4,421 4,276 4,548 5,139	94,282 92,639 90,575 86,009	9,031 15,049 17,340 12,949	219 141 75 48	155,930 153,240 154,208 158,307
2019 Q1 P Q2 P Q3 P Q4 P	1,323,993 1,319,861 1,327,584 1,299,384	15,663 12,868 17,586 14,595	902 852 822 –	1,152,636 1,151,809 1,154,373 1,140,346	709,008 720,904 711,482 719,747	178,900 173,313 183,268 174,719	66,531 68,110 69,088 69,805	- - - -	4,191 5,691 5,639 6,021	89,782 91,024 90,416 89,230	18,288 15,042 18,100 13,487	31 19 -	155,693 155,184 155,625 144,442
2020 Q1 P Q2 P Q3 P	1,327,045 1,473,063 1,535,879	11,564 13,282 12,057		1,160,616 1,248,734 1,345,281	721,343 774,587 796,338	182,095 178,329 191,388	71,028 56,061 57,144	- - -	5,310 3,752 3,737	91,084 95,622 99,276	23,572 79,987 127,478		154,865 211,047 178,541

Sources: Federal Republic of Germany – Finance Agency, Federal Statistical Office, and Bundesbank calculations. 1 Comprises all of central government, i.e. all off-budget entities in addition to the core budget, including the government-owned bad bank FMS Wertmanagement and liabilities attributed to central government from an economic perspective under the European System of Accounts (ESA)

2010. **2** Particularly liabilities resulting from coins in circulation. **3** Issuances by the Federal Republic of Germany. Excluding issuers' holdings of own securities but including those held by other government entities. **4** Excluding inflation-induced indexation of capital. **5** Including medium-term notes issued by the Treuhand agency (expired in 2011). **6** Including Federal Treasury financing papers (expired in 2014).

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

							2019				2020		
	2018	2019	2020	2018	2019	2020	Q1	Q2	Q3	Q4	Q1	Q2	Q3
tem	Index 20	15 = 100		Annual p	ercentage	change							
At constant prices, chained													
I. Origin of domestic product Production sector	ı	I	I	I	I	ı	ı	ı	I	I	I	ı	I
(excluding construction) Construction Wholesale/retail trade, transport and storage, hotel and restaurant	109.3 103.7	105.4 107.3	95.1 108.7	0.7 1.7	- 3.6 3.5	9.7 1.4		- 5.1 2.3	- 2.9 4.7	- 4.3 1.4		- 21.2 2.7	- 1 -
services Information and communication Financial and insurance	107.5 115.8	109.7 120.2	102.8 118.8	2.3 7.0	2.1 3.8	- 6.3 - 1.1	2.2 4.4		3.4 4.2	1.7 2.8		- 14.5 - 2.8	-
activities Real estate activities	97.1 100.8	99.1 101.8	98.6 101.2	- 3.6 0.3	2.0 1.0	- 0.5 - 0.5	0.3	2.4 0.7	3.6 1.2	1.9 1.5		- 0.5 - 1.3	-
Business services 1 Public services, education and	109.8	110.8	102.0	2.4	0.9	- 7.9	1.6		1.0	0.7	- 1.7	- 13.5	
health Other services	105.7 101.0	107.4 102.1	105.1 90.6	1.4 1.6	1.6 1.1	- 2.2 - 11.3	1.8 1.1	1.3 1.0	1.9 1.6	1.5 0.7	0.0	- 8.3 - 20.3	
Gross value added	106.4	106.9	101.3	1.3	0.4	- 5.2	1.0	- 0.3	1.1	0.0	- 1.4	- 11.6	-
Gross domestic product 2	106.2	106.8	101.5	1.3	0.6	- 5.0	1.0	- 0.3	1.2	0.2	- 1.7	- 11.3	-
I. Use of domestic product Private consumption 3 Government consumption Machinery and equipment Premises	105.6 107.0 112.1 107.4	107.2 109.9 112.7 111.5	100.8 113.7 98.6 113.1	1.5 1.2 4.4 2.6	1.6 2.7 0.5 3.8	- 6.0 3.4 - 12.5 1.5	6.8	1.7 1.1 2.5	2.2 3.6 1.7 4.1	1.0 3.2 - 2.7 2.2	2.9 - 9.2 6.1	- 13.0 4.8 - 23.6 1.3	 - -
Other investment 4 Changes in inventories 5,6	114.2	117.3	116.0	4.5 - 0.1	2.7 - 0.7	- 1.1 - 0.7	2.9 0.1	2.5 - 0.2	2.9 - 1.7	2.6 - 1.1	- 1.1 - 0.7	- 1.4 - 0.4	
Domestic demand Net exports 6	107.7	109.0	104.5	1.8 - 0.4	1.2 - 0.6	- 4.1 - 1.1	2.3 - 1.1	1.6 - 1.7	0.9 0.4	0.2 0.0		- 8.3 - 3.5	
Exports Imports	109.8 114.1	110.8 117.0	99.9 106.9	2.3 3.6	1.0 2.6	- 9.9 - 8.6	1.7 4.7	- 1.3 2.7	2.7 2.0	0.8 0.9		- 22.4 - 17.2	-
Gross domestic product 2	106.2	106.8	101.5	1.3	0.6	- 5.0	1.0	- 0.3	1.2	0.2	- 1.7	- 11.3	_
At current prices (€ billion)													
Private consumption 3 Government consumption	1,755.4 670.3	1,806.9 704.5	1,708.9 750.6	3.0	2.9 5.1	- 5.4 6.5			3.6 6.0	2.3 5.4		- 11.7 8.2	
Machinery and equipment	235.6	240.1	212.9	5.0	1.9	- 11.3	3.8	2.4	3.3	- 1.2	- 7.8	- 22.5	-
Premises Other investment 4	344.9 128.8	373.7 134.2	385.7 134.6	7.4 6.9	8.4 4.2	3.2 0.4	12.3 4.4		8.3 4.3	6.0 4.1	9.6 0.3	4.1 0.1	-
Changes in inventories 5	15.0	- 10.3	- 52.1										
Domestic use Net exports	3,150.0 206.4	3,249.1 199.9	3,140.6 188.4	3.9	3.1	- 3.3	4.2	3.8	2.7	2.0	1.1	7.6	-
Exports Imports	1,590.0 1,383.6	1,617.4		3.3 5.6		- 10.3 - 10.9		- 0.4 3.4	3.0 1.0	1.2 - 0.2		- 22.7 - 20.8	
Gross domestic product 2	3,356.4	3,449.1	3,329.0	3.0	2.8	- 3.5	3.0	1.9	3.6	2.5	0.7	- 9.2	-
/. Prices (2015 = 100) Private consumption Gross domestic product Terms of trade	103.7 104.4 100.1	105.1 106.7 100.9	105.8 108.4 103.1	1.5 1.7 – 0.8	1.3 2.2 0.9	0.6 1.6 2.1			1.4 2.4 1.4	1.3 2.3 1.5	2.4	1.4 2.3 4.2	
/. Distribution of national income Compensation of employees Entrepreneurial and property	1,771.8	'			4.2		4.5		4.5	3.5			
income	738.3	718.2	664.0			- 7.5			0.1	- 3.4		- 23.5	
National income Memo item: Gross national	2,510.1		2,500.4	3.0		- 2.5			3.1	1.7		- 8.6	-
			3,427.2	3.3		- 3.3	3.1	2.2	3.5	2.3	0.8	- 8.8	

Source: Federal Statistical Office; figures computed in November 2020. Initial annual results for 2020: figures computed in January 2021. 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.

2. Output in the production sector *

	Adjusted fo	or wo	rking-day var	iations •									
		0	of which:										
					Industry								
						of which: by r	main industrial	grouping		of which: by e	economic sector	r	
	Production sector, total		Construc- ion	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 and electrical equipment	Macinery and equipment	Motor vehicels, trailers and semi- trailers
	2015 =	100)										
% of total 1 Period	100		14,04	6,37	79,59	29,45	36,98	2.27	10,89	10,31	9,95	12,73	14,16
2016 2017 2018 2019	101 104 2 105 102	.9 .8 2	105.3 108.7 108.9 112.7	98.6 98.9 97.4 90.4	101.1 104.8 105.9 101.7	100.9 104.9 105.5 101.8	101.3 105.0 106.0 101.4	102.6 106.9 106.1 106.2	101.0 103.0 106.9 101.0	101.6 106.2 107.3 102.8	101.0 107.0 109.0 106.5	99.6 104.1 106.5 103.5	102.1 105.3 103.5 92.0
2019 Q3 Q4	102 103		119.1 124.2	81.1 94.3	101.1 100.5	102.0 97.2	100.1 102.0	104.2 109.2	101.1 102.7	102.7 97.2	107.5 106.0	102.0 108.6	89.1 84.9
2020 Q1 Q2 Q3 ×	96 84 93	.1	100.2 115.7 118.6	94.0 72.7 77.2	95.9 79.5 90.8	101.1 85.6 94.3	90.5 70.9 84.7	101.5 84.9 98.3	99.0 91.2 100.5	98.0 78.7 90.6	103.5 89.1 96.8	91.3 81.4 86.6	79.1 44.1 71.9
2019 Nov. Dec.	108 96		126.4 124.4	95.2 95.9	106.7 91.8	103.3 83.3	108.6 97.7	116.3 97.2	107.4 93.6	105.0 82.2	111.1 98.2	108.7 116.6	97.9 66.8
2020 Jan. Feb. Mar.	92 97 99	.0	86.0 97.3 117.3	99.3 92.0 90.6	92.7 97.4 97.6	98.6 100.8 103.9	86.1 94.3 91.0	98.7 103.2 102.7	97.6 97.4 102.1	95.0 98.4 100.5	99.8 102.8 107.9	83.3 91.1 99.5	79.6 90.3 67.4
Apr. May June	76 82 93	.2	112.7 113.1 121.2	72.9 71.6 73.7	70.9 77.7 90.0	84.1 83.4 89.4	54.9 69.5 88.2	72.4 85.2 97.2	89.0 88.6 96.1	74.0 77.0 85.0	86.0 86.0 95.2	70.9 77.5 95.8	14.6 45.6 72.1
July × Aug. × Sep. ×	93 88 99	.6	119.3 113.8 122.6	75.4 76.3 79.8	90.6 84.7 97.2	93.0 91.3 98.6	85.8 75.6 92.8	93.4 92.1 109.3	99.7 96.4 105.4	87.3 86.9 97.7	94.1 93.8 102.4	86.4 79.1 94.3	76.2 57.4 82.0
Oct. × Nov. ×,p	102 105		126.1 130.2	91.8 90.0	98.8 102.9	103.1 104.3	93.0 101.3	108.8 114.7	105.0 102.0	100.5 103.6	103.3 110.6	90.2 98.9	85.4 92.5
	Annual	per	centage	change									
2016 2017 2018 2019	+ 3 2 + 0	.8 .3 .9 .1	+ 5.7 + 3.2 + 0.2 + 3.5	- 1.4 + 0.3 - 1.5 - 7.2	+ 1.4 + 3.7 + 1.0 - 4.0	+ 1.1 + 4.0 + 0.6 - 3.5	+ 1.6 + 3.7 + 1.0 - 4.3	+ 3.0 + 4.2 - 0.7 + 0.1	+ 1.2 + 2.0 + 3.8 - 5.5	+ 1.8 + 4.5 + 1.0 - 4.2	+ 1.3 + 5.9 + 1.9 - 2.3	- 0.1 + 4.5 + 2.3 - 2.8	+ 2.5 + 3.1 - 1.7 - 11.1
2019 Q3 Q4		.7	+ 2.6 + 1.8	- 13.0 - 5.6	- 4.3 - 5.0	- 4.4 - 4.6	- 2.9 - 6.7	+ 0.1 + 2.7	- 9.2 - 2.2	- 4.9 - 7.3	- 2.5 - 4.0	- 3.0 - 6.2	- 7.6 - 13.0
2020 Q1 Q2 Q3 ×	- 18	.0 .1 .3	+ 6.8 + 1.7 - 0.4	- 8.2 - 13.0 - 4.9	- 6.7 - 22.3 - 10.1	- 3.5 - 17.2 - 7.5	- 10.8 - 30.6 - 15.4	- 6.2 - 17.6 - 5.7	- 1.4 - 8.4 - 0.6	- 7.9 - 25.0 - 11.7	- 3.7 - 15.1 - 10.0	- 9.2 - 20.7 - 15.1	- 19.5 - 53.8 - 19.4
2019 Nov. Dec.		.3	+ 3.6 + 0.5	- 3.8 - 7.0	- 3.4 - 6.2	- 3.6 - 6.4	- 4.3 - 7.7	+ 3.8 + 2.6	- 0.9 - 2.2	- 6.3 - 9.1	- 3.1 - 5.5	- 4.1 - 6.8	- 9.2 - 17.1
2020 Jan. Feb. Mar.		.3 .6 .1	+ 14.1 + 4.4 + 4.0	- 9.1 - 5.0 - 10.4	- 2.7 - 2.3 - 13.8	- 2.3 - 0.1 - 7.6	- 3.6 - 5.6 - 20.9	- 2.0 - 1.9 - 13.6	- 1.6 + 2.9 - 5.0	- 6.0 - 4.3 - 12.8	- 0.8 + 0.5 - 9.8	- 5.1 - 6.6 - 14.4	- 7.2 - 9.2 - 38.5
Apr. May June	- 24 - 19 - 10	.2	± 0.0 + 1.6 + 3.3	- 17.3 - 15.1 - 6.0	- 29.7 - 23.4 - 14.0	- 18.9 - 19.1 - 13.6	- 44.5 - 30.8 - 17.6	- 28.2 - 16.1 - 8.9	- 10.7 - 11.3 - 3.2	- 29.5 - 25.7 - 19.9	- 16.3 - 17.0 - 12.1	- 28.6 - 22.0 - 12.4	- 84.3 - 52.7 - 25.9
July x Aug. x Sep. x	- 8 - 6	.5 .7 .7	- 2.2 ± 0.0 + 1.0	- 7.4 - 5.0 - 2.3	- 11.2 - 10.8 - 8.5	- 10.3 - 7.2 - 5.1	- 15.0 - 17.1 - 14.2	- 6.2 - 3.9 - 6.8	- 1.9 - 2.2 + 2.3	- 16.4 - 10.6 - 8.3	- 10.8 - 9.0 - 10.1	- 16.0 - 15.9 - 13.6	- 16.4 - 25.3 - 17.6
Oct. × Nov. x,p		.7 .6	+ 3.5 + 3.0	± 0.0 - 5.5	- 4.1 - 3.6	- 1.7 + 1.0	- 6.6 - 6.7	- 4.6 - 1.4	- 2.1 - 5.0	- 3.8 - 1.3	- 4.9 - 0.5	- 10.2 - 9.0	- 5.0 - 5.5

Source of the unadjusted figures: Federal Statistical Office. * For explanatory notes, see Statistical Series - Seasonally adjusted business statistics, Tabels III.1.a to III.1.c o Using JDemetra+ 2.2.2 (X13). 1 Share of gross value added at factor cost of the production sector in the base year 2015. 2 As of January 2018 weights in structural and civil

engineering work corrected by the Federal Statistical Office. \mathbf{x} Provisional; estimated and adjusted in advance by the Federal Statistical Office to the results of the Quarterly Production Survey and the Quarterly Survey in the specialised construction industry, respectively.

3. Orders received by industry *

Adjusted for working-day variations •

	Adjusted for v	vorking-day va	riations •										
			of which:										
									of which:				
	Industry		Intermediate	goods	Capital goods		Consumer god	ods	Durable good:	S	Non-durable g	oods	
Period	2015 = 100	Annual percentage change	2015 = 100	Annual percentage change	2015 = 100	Annual percentage change	2015 = 100	Annual percentage change	2015 = 100	Annual percentage change	2015 = 100	Annual percenta change	ge
	Total												
2016 2017 2018 2019	100.7 108.6 110.5 104.9	+ 0.9 + 7.8 + 1.7 - 5.1	109.4	- 0.9 + 10.6 + 1.9 - 7.2	101.9 108.5 109.9 105.4	+ 2.1 + 6.5 + 1.3 - 4.1	100.6 105.7 110.0 107.0	+ 0.8 + 5.1 + 4.1 - 2.7	105.3 116.5 118.9 123.3	+ 5.6 + 10.6 + 2.1 + 3.7	99.0 102.2 107.1 101.7	- + + -	0.8 3.2 4.8 5.0
2019 Nov. Dec.	106.2 102.2	- 5.6 - 8.4	103.2 92.6	- 7.3 - 4.3	107.3 109.2	- 5.9 - 11.1	111.6 93.7	+ 5.6 - 2.3	138.1 120.5	+ 13.5 + 10.0	102.9 84.9	+	2.5 7.1
2020 Jan. Feb. Mar.	107.4 104.9 98.7	- 0.6 + 2.2 - 15.6	105.6	- 1.2 + 0.9 - 4.8	105.4 103.1 90.5	- 0.5 + 2.2 - 23.8	110.5 114.9 114.3	+ 2.4 + 7.6 - 0.8	131.9 125.5 125.5	+ 11.3 + 9.6 - 2.3	103.5 111.4 110.7	- + -	0.8 6.8 0.2
Apr. May June	65.7 71.4 96.8	- 37.0 - 29.7 - 10.8	77.6 77.0	- 26.2 - 25.2 - 17.4	54.8 64.8 102.4	- 47.1 - 35.4 - 7.7	93.0 96.4 100.5	- 11.9 - 7.1 - 4.6	92.7 115.2 120.1	- 19.4 + 1.9 - 0.8	93.1 90.2 94.1	- - 1 -	9.2 10.4 6.1
July Aug.	96.0 91.2	- 7.2 - 2.0	94.2 90.2	- 8.4 - 6.0	96.0 90.2	- 6.7 + 0.3	104.4 104.0	- 5.6 + 0.3	120.5 124.3	- 1.0 + 2.6	99.1 97.3	- -	7.3 0.8
Sep. Oct. Nov. P	103.8 108.1 112.6	- 1.5 + 1.8 + 6.0	108.2	+ 1.2 + 4.0 + 10.7	104.4 107.7 111.8	- 3.7 + 0.8 + 4.2	111.0 110.9 110.5	+ 2.4 - 0.6 - 1.0	146.2 145.9 139.6	+ 4.6 + 13.9 + 1.1	99.5 99.4 100.9	+ - -	1.4 6.3 1.9
	From the	domestic	market	•		•		•	•	•		,	
2016 2017 2018 2019	99.8 107.0 107.1 101.2	± 0.0 + 7.2 + 0.1 - 5.5		- 2.2 + 9.7 + 1.3 - 8.7	101.8 107.8 106.6 102.9	+ 2.1 + 5.9 - 1.1 - 3.5	98.0 101.6 102.9 101.2	- 1.8 + 3.7 + 1.3 - 1.7	103.1 108.7 114.7 116.2	+ 3.4 + 5.4 + 5.5 + 1.3	96.3 99.3 98.9 96.2	+ - -	3.5 3.1 0.4 2.7
2019 Nov. Dec.	102.8 93.6	- 8.4 - 7.7	100.7 84.1	- 9.3 - 8.1	103.5 102.3	- 9.1 - 8.2	109.6 89.2	+ 1.3 - 1.9	135.7 107.4	+ 11.9 + 8.4	100.8 83.1	 - -	2.9 5.7
2020 Jan. Feb. Mar.	100.6 101.9 96.8	- 6.6 - 2.8 - 13.8	99.8	- 3.4 - 2.8 - 5.9	97.4 103.0 89.7	- 10.4 - 3.1 - 22.3	102.2 105.9 110.2	+ 2.0 - 1.0 + 2.2	111.0 110.5 107.9	+ 3.3 + 0.2 - 15.3	99.2 104.4 111.0	+ - +	1.5 1.4 9.7
Apr. May June	67.7 74.9 104.9	- 32.4 - 24.6 + 4.2	75.1	- 25.4 - 24.7 - 17.3	59.5 72.3 126.0	- 40.9 - 27.2 + 22.7	83.4 91.6 94.8	- 13.3 - 4.9 - 1.5	74.0 109.8 110.9	- 31.9 + 3.7 + 4.9	86.6 85.5 89.4	- - -	5.9 8.2 3.9
July Aug. Sep.	94.6 88.1 98.9	- 7.6 - 3.2 - 1.4	92.8 88.4	- 7.8 - 3.0 - 0.2	95.8 86.1 101.8	- 7.5 - 4.2 - 2.3	97.5 99.9 101.4	- 6.1 + 2.4 - 2.1	103.8 112.1 126.1	- 9.4 + 3.7 - 4.1	95.3 95.8 93.1	- + -	4.9 1.8 1.1
Oct. Nov. P	103.5 107.9	+ 4.4 + 5.0	105.8	+ 7.4 + 12.3	101.5 103.9	+ 3.0 + 0.4	104.3 105.1	- 2.5 - 4.1	120.6 124.9	- 8.6 - 8.0	98.8 98.4	+ -	0.2
	From abro	oad											
2016 2017 2018 2019	101.5 109.8 113.0 107.7	+ 1.7 + 8.2 + 2.9 - 4.7	111.9 114.6	+ 0.5 + 11.6 + 2.4 - 5.5	101.9 108.9 111.9 106.9	+ 2.1 + 6.9 + 2.8 - 4.5	102.6 108.9 115.5 111.5	+ 2.8 + 6.1 + 6.1 - 3.5	107.0 122.8 122.2 129.1	+ 7.2 + 14.8 - 0.5 + 5.6	101.1 104.5 113.4 105.9	+ + + -	1.3 3.4 8.5 6.6
2019 Nov. Dec.	108.8 108.7	- 3.5 - 9.0		- 5.0 - 0.8	109.6 113.3	- 4.0 - 12.6	113.1 97.1	+ 9.1 - 2.6	140.1 131.1	+ 14.8 + 11.2	104.5 86.2	+ -	6.9 8.2
2020 Jan. Feb. Mar.	112.6 107.1 100.1	+ 4.1 + 6.0 - 16.9		+ 1.0 + 4.7 - 3.7	110.3 103.1 91.0	+ 5.9 + 5.6 - 24.7	117.0 121.8 117.5	+ 2.8 + 14.3 - 2.9	148.8 137.6 139.6	+ 16.9 + 16.8 + 8.0	106.8 116.7 110.4	- + 1 -	2.4 13.3 6.7
Apr. May June	64.1 68.8 90.6	- 40.4 - 33.3 - 20.8	79.0	- 27.0 - 25.6 - 17.3	51.9 60.3 88.1	- 50.7 - 40.2 - 23.9	100.4 100.1 104.9	- 11.1 - 8.7 - 6.8	107.7 119.6 127.5	- 10.3 + 0.7 - 4.5	98.0 93.8 97.7		11.4 12.0 7.7
July Aug. Sep.	97.0 93.6 107.5	- 6.9 - 1.2 - 1.6	92.1	- 8.9 - 9.1 + 2.7	96.1 92.7 105.9	- 6.2 + 3.1 - 4.5	109.8 107.1 118.5	- 5.3 - 1.3 + 5.7	133.9 134.1 162.4	+ 5.0 + 1.9 + 10.9	102.0 98.4 104.4	- - +	9.0 2.7 3.3
Oct. Nov. P	111.6 116.1	+ 0.1	110.7	+ 0.6 + 8.8	111.5	- 0.3 + 6.4	116.0	+ 0.8	166.2	+ 32.9 + 8.1	99.8 102.8		10.7

4. Orders received by construction *

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

Zeit

2019 Oct. Dec. 2020 Jan. Feb. Mar. Apr. May June July Aug. Sep. Oct.

		Breakdown	by type o	f construction	า							Breakdown	by client 1	ı	
		Structural e	ngineering)											
Total		Total		Residential construction	ı	Industrial construction	า	Public secto construction		Civil engineering		Industrial cli	ents	Public sector 2	
2015 = 100	Annual percent- age change	2015 = 100	Annual percent- age change	2015 = 100	Annual percent- age change	2015 = 100	Annual percent- age change	2015 = 100	Annual percent- age change	2015 = 100	Annual percent- age change	2015 = 100	Annual percent- age change	2015 = 100	Annual percent- age change
114.4	+ 14.5	115.0	+ 15.1	116.9	+ 17.0	114.9	+ 15.0	108.9	+ 9.1	113.7	+ 13.8	111.7	+ 11.8	116.0	+ 16.1
122.4	+ 7.0	123.1	+ 7.0	123.1	+ 5.3	123.4	+ 7.4	121.8	+ 11.8	121.6	+ 6.9	119.8	+ 7.3	125.0	+ 7.8
134.7	+ 10.0	131.2	+ 6.6	136.6	+ 11.0	127.9	+ 3.6	125.2	+ 2.8	138.8	+ 14.1	135.6	+ 13.2	132.4	+ 5.9
146.0	+ 8.4	145.1	+ 10.6	150.2	+ 10.0	142.2	+ 11.2	138.9	+ 10.9	147.1	+ 6.0	147.9	+ 9.1	141.3	+ 6.7
136.8	+ 3.6	137.4	+ 6.8	154.8	+ 9.6	124.2	+ 1.6	129.6	+ 17.0	136.2	+ 0.1	135.1	+ 0.4	127.9	+ 3.4
145.4	+13.1	154.8	+ 23.2	149.7	+ 7.3	166.8	+ 42.3	127.1	+ 13.6	134.5	+ 1.9	167.9	+ 22.6	117.1	+ 4.1
148.2	- 1.3	148.9	+ 2.2	178.2	+ 7.0	131.1	- 3.0	119.1	+ 2.4	147.3	- 5.2	154.3	- 5.7	122.9	- 1.3
129.3	+ 10.2	134.0	+ 10.9	137.4	+ 11.0	134.0	+ 8.3	122.8	+ 23.0	123.9	+ 9.3	140.8	+ 11.2	111.3	+ 8.3
134.5	+ 1.2	143.0	+ 10.5	148.3	+ 24.6	141.0	+ 4.9	133.1	- 8.3	124.6	- 9.1	139.3	+ 5.2	120.5	- 15.1
158.8	- 7.5	154.0	- 6.0	169.6	- 0.5	141.1	- 10.9	150.6	- 7.6	164.4	- 9.1	155.2	- 6.6	156.4	- 12.5
149.6	- 2.3	134.0	- 10.1	131.6	- 12.1	137.2	- 9.5	130.1	- 5.0	167.6	+ 6.1	140.3	- 3.6	171.1	+ 4.4
138.9	- 6.0	124.1	- 14.2	146.7	- 0.1	103.2	- 30.7	127.9	+ 5.0	156.2	+ 3.2	121.6	- 18.0	154.2	+ 4.3
167.7	+ 3.5	153.2	- 5.3	165.1	+ 4.2	139.5	- 14.9	164.8	+ 0.7	184.7	+ 13.5	144.4	- 12.9	196.1	+ 22.4
148.9	- 3.2	151.5	+ 2.4	157.8	+ 2.1	136.8	- 3.6	186.0	+ 25.7	145.8	- 9.3	136.5	- 10.4	157.7	+ 1.7
136.9	+ 1.6	135.6	± 0.0	159.6	+ 14.6	114.4	- 12.9	135.4	- 2.7	138.4	+ 3.6	130.4	- 5.0	130.5	+ 1.2
151.4	+ 2.4	156.8	+ 6.9	173.4	+ 10.4	140.8	+ 7.9	162.2	- 6.2	145.2	- 2.8	146.0	+ 1.7	144.4	- 2.2
142.3	+ 4.0	150.6	+ 9.6	181.5	+ 17.2	126.8	+ 2.1	137.9	+ 6.4	132.5	- 2.7	141.3	+ 4.6	119.5	

Source of the unadjusted figures: Federal Statistical Office. * At current prices; excluding value added tax; for explanatory notes, see Statistical Series – Seasonally adjusted

business statistics, Table III.2.f. o Using JDemetra+ 2.2.2 (X13). 1 Excluding residential construction. 2 Including road construction.

5. Retail trade turnover *

Adjusted for calendar variations ${\bf o}$

	Adjusted for	cuiciiaai	variations													
					of which:											
					In stores by	enterprise	es main produ	uct range								
	Total				Food, bever tobacco 1	ages,	Textiles, clothing, foodwear a leather goo		Information and communica equipment		Constructio and flooring materials, household appliances, furniture		Retail sale of pharmaceut and medica goods, cost and toilet articles	ical I	Retail sale v mail order h or via interr as well as other retail	nouses
	At current prices		At 2015 pri	ces	At current p	orices										
Z eit	2015 = 100	Annual percent- age change	2015 = 100	Annual percent- age change	2015 = 100	Annual percent- age change		Annual percent- age change	2015 = 100	Annual percent- age change	2015 = 100	Annual percent- age change	2015 = 100	Annual percent- age change	2015 = 100	Annual percent- age change
2016	102.5	+ 2.4	102.1	+ 2.0	101.7	+ 1.6	101.0	+ 0.8	99.9	- 0.3	101.5	+ 1.3	103.9	+ 3.9	109.5	+ 9.4
2017	107.6	+ 5.0	105.8	+ 3.6	105.9	+ 4.1	108.1	+ 7.0	106.2	+ 6.3	103.0	+ 1.5	107.7	+ 3.7	120.5	+ 10.0
2018	110.7	+ 2.9	107.5	+ 1.6	109.6	+ 3.5	105.6	- 2.3	107.1	+ 0.8	103.1	+ 0.1	112.5	+ 4.5	127.7	+ 6.0
2019 3	114.9	+ 3.8	110.9	+ 3.2	112.1	+ 2.3	106.7	+ 1.0	108.8	+ 1.6	107.1	+ 3.9	118.5	+ 5.3	138.4	+ 8.4
2019 Nov.	123.5	+ 3.9	118.8	+ 3.6	114.9	+ 5.0	115.9	+ 3.3	133.1	+ 1.0	116.0	+ 3.5	124.0	+ 5.0	164.6	+ 1.2
Dec.	133.1	+ 3.3	128.2	+ 2.3	127.9	+ 1.1	118.9	- 2.9	159.1	+ 1.1	113.3	+ 3.3	133.2	+ 6.9	172.0	+11.7
2020 Jan.	107.9	+ 3.5	104.1	+ 2.3	103.9	+ 1.6	88.3	- 2.4	113.3	+ 1.7	96.5	+ 4.9	120.2	+ 5.7	138.4	+ 5.4
Feb.	105.8	+ 3.7	101.4	+ 2.4	108.6	+ 7.1	80.7	- 6.6	96.7	+ 2.5	97.1	+ 3.3	114.6	+ 3.5	126.9	+ 4.1
Mar.	118.1	+ 1.8	112.9	+ 0.4	130.7	+14.9	49.3	- 53.9	83.6	- 21.4	107.1	- 6.6	135.4	+ 14.7	154.5	+ 15.5
Apr.	110.7	- 4.2	105.2	- 5.5	125.1	+ 10.3	29.0	- 74.7	55.2	- 40.4	100.5	- 12.7	112.7	- 3.4	173.9	+ 28.5
May	123.1	+ 8.6	117.3	+ 7.8	127.6	+ 14.1	78.1	- 23.8	93.8	+ 0.9	127.1	+ 15.8	111.7	- 3.7	169.5	+ 32.8
June	121.0	+ 5.2	115.7	+ 4.3	119.4	+ 3.4	96.2	- 16.3	101.5	+ 3.5	121.7	+ 14.2	117.4	+ 2.0	163.3	+ 24.0
July	122.7	+ 6.3	117.3	+ 5.0	119.3	+ 4.7	98.2	- 5.6	107.6	+ 13.5	125.1	+ 15.4	120.7	+ 0.2	156.9	+ 14.4
Aug.	120.1	+ 8.2	114.8	+ 6.8	121.0	+ 9.1	90.7	- 8.0	102.4	+ 0.2	116.8	+ 15.5	116.8	+ 1.8	155.6	+ 25.2
Sep.	118.8	+ 6.0	113.1	+ 4.8	114.0	+ 7.0	100.4	- 8.8	102.6	- 7.2	117.4	+ 13.4	120.2	+ 2.1	159.0	+ 14.2
Oct.	128.2	+ 9.4	121.8	+ 8.2	122.2	+ 8.3	109.4	- 6.2	117.7	+ 6.7	128.9	+ 16.1	126.6	+ 3.9	180.1	+ 27.2
Nov.	134.8	+ 9.1	128.5	+ 8.2	123.3	+ 7.3	91.7	- 20.9	148.3	+ 11.4	139.5	+ 20.3	129.6	+ 4.5	220.4	+ 33.9

Source of the unadjusted figures: Federal Statistical Office. * Excluding value added tax; for explanatory notes, see Statistical Series - Seasonally adjusted business statistics, Table III.4.c. o Using JDemetra+ 2.2.2 (X13). 1 Including stalls and markets. 2 Excluding

stores, stalls and markets. $\bf 3$ As of January 2019 figures are provisional, partially revised, and particularly uncertain in recent months due to estimates for missing reports.

6. Labour market *

	Employmer	nt 1	Employment	t subject to s	ocial contrib	utions 2			Short-time w	orkers 3	Unemploym	ent 4		
			Total		of which:					of which:		of which:		
Period	Thou-sands	Annual percentage change	Thou- sands	Annual percentage change	Production sector	Services excluding temporary employ- ment	Temporary employ- ment	Solely jobs exempt from social contri- butions 2	Total	Cyclically induced	Total	Assigned to the legal category of the Third Book of the Social Security Code (SGB III)	Unem- ploy- ment rrate 4 , 5 in %	Vacan- cies, 4, 6 thou- sands
2016	43,66	+ 1.2	31,508	+ 2.2 + 2.3	9,028	21,407	834	4,804	128 114	42 24	2,691	822	6.1	655
2017 2018	44,262 44,868	+ 1.4	32,234 32,964	+ 2.3	9,349	21,980 22,532	868 840	4,742 4,671	118	25	2,533 2,340	802	5.7 5.2	655 731 796
2019 2020	45,268		33,518	+ 1.7	9,479	23,043	751	4,579	145	60	8 2,267 2,695	827 1,137	8 5.0 5.9	774 613
2017 Q4	44,699	1	32,759	+ 2.3	9,263	22,354	900	4,711	82	15	2,381	780	5.3	771
2018 Q1	44,398	+ 1.5	32,563	+ 2.4	9,214	22,279	843	4,664	325	24	2,525	909	5.7	760
Q2 Q3	44,790 45,028	+ 1.3	32,802 33,040	+ 2.3 + 2.2	9,296 9,387	22,414 22,546	843 855	4,701 4,694	23 35	14 27	2,325 2,311	760 784	5.1 5.1	794 828
Q4 2019 Q1	45,25 44,920		33,452 33,214	+ 2.1 + 2.0	9,498 9,419	22,890 22,803	819 761	4,627 4,581	88 303	35 34	2,200 2,360	755 892	4.9 5.2	804 780
Q2 Q3	45,240 45,370	+ 1.0	33,388 33,548	+ 1.8 + 1.5	9,455 9,491	22,932 23,049	750 750 753	4,615 4,598	51 66	43 58	8 2,227 2,276	778 827	8 4.9 5.0	795 794
Q4	45,538	+ 0.6	33,924	+ 1.4	9,551	23,388	738	4,522	161	105	2,204	811	4.8	729
2020 Q1 Q2	r 45,063 r 44,624	1 r – 1.4	33,642 33,415	+ 1.3 + 0.1	9,439 9,387	23,284 23,137	686 640	4,458 4,235	1,219 5,399	949 5,388	2,385 2,770	960 1,154		683 593
Q3 Q4	r 44,662	2 r – 1.6	10 33,424	10 - 0.4	10 9,360	10 23,171 	10 639 	10 4,263		10 2,697 	2,904 2,722	1,266 1,167	6.3 5.9	583 595
2017 Aug.	44,38!	5 + 1.4	32,396	+ 2.3	9,189	22,060	896	4,739	28	15	2,545	855	5.7	765
Sep. Oct.	44,62 44,69	+ 1.3	32,732 32,778	+ 2.3 + 2.3	9,272	22,304 22,355	901 901	4,711 4,696	28 27	16 16	2,449 2,389	800 772	5.5 5.4	773 780
Nov. Dec.	44,763 44,640		32,830 32,609	+ 2.4 + 2.4	9,278 9,202	22,395 22,319	916 867	4,720 4,722	26 194	16 12	2,368 2,385	772 796	5.3 5.3	772 761
2018 Jan.	44,34	+ 1.6	32,504	+ 2.5	9,191	22,249	841	4,660	287	23	2.570	941	5.8 5.7	736
Feb. Mar.	44,376 44,472	+ 1.4	32,551 32,660	+ 2.4 + 2.3	9,223 9,253	22,262 22,334	838 837	4,642 4,656	359 327	23 27	2,546 2,458	927 859	5.5	764 778
Apr. May	44,646 44,826	5 + 1.5	32,782 32,857	+ 2.4 + 2.3	9,310	22,404 22,450	840 845	4,686 4,718	23 21	13 12	2,384 2,315	796 751	5.3 5.1	784 793
June July	44,898 44,930	+ 1.3	32,870 32,844	+ 2.2 + 2.2	9,325 9,339	22,439 22,396 22,609	853 860	4,742 4,736	25 22 41	16 14	2,276 2,325	735 788 804	5.0 5.1 5.2	805 823 828
Aug. Sep.	44,98 45,17	+ 1.2	33,131 33,422	+ 2.3 + 2.1	9,412 9,496	22,827	856 842	4,664 4,619	42	33 34 37	2,351 2,256	759	5.0	834
Oct. Nov.	45,262 45,325	+ 1.3	33,488 33,513	+ 2.2 + 2.1	9,515 9,513	22,895 22,934	827 822	4,616 4,638	46 51	43	2,204 2,186	742 745	4.9 4.8	824 807
Dec. 2019 Jan.	45,184 44,866	1	33,286 33,156	+ 2.1 + 2.0	9,434 9,405	22,854 22,762	773 763	4,637 4,574	166 354	26 42	2,210 2,406	777 919	4.9 5.3	781 758
Feb. Mar.	44,908 44,98		33,199 33,286	+ 2.0 + 1.9	9,416 9,442	22,794 22,855	758 749	4,564 4,574	310 246	42 29 32	2,373 2,301	908 850	5.3 5.1	784 797
Apr. May	45,146 45,269	5 + 1.1	33,383 33,433	+ 1.8 + 1.8	9,457 9,462	22,925 22,968	753 749	4,607 4,627	49 53	40 45	2,229 8 2,236	795 772	4.9 8 4.9	796 792
June July	45,304 45,31	+ 0.9	33,407 33,360	+ 1.6 + 1.6	9,455	22,948 22,901	750 757	4,646 4,644	51 55	43 47	2,216 2,275	766 825	4.9 5.0	798 799
Aug. Sep.	45,305 45,505	5 + 0.7	33,610 33,938	+ 1.4 + 1.5	9,505	23,101 23,341	750 754	4,568 4,517	60 84	51 75	2,319 2,234	848 808	5.1 4.9	795 787
Oct. Nov.	45,578 45,60	+ 0.7	33,966 33,968	+ 1.4 + 1.4	9,567	23,398 23,423	748 742	4,510 4,532	111 124	102 115	2,204 2,180	795 800	4.8 4.8	764 736
Dec.	45,434	+ 0.6	33,740	+ 1.4	9,474	23,344	694	4,531	247	97	2,227	838	4.9	687
2020 Jan. Feb.	r 45,096 r 45,104	1 r + 0.4	33,608 33,624	+ 1.4 + 1.3	9,427	23,255 23,278	689 683	4,471 4,461	382 439	133 134	2,426 2,396	985 971	5.3 5.3	668 690
Mar. Apr.	r 45,000 r 44,722	r = 0.9	33,430	+ 1.1 + 0.1	9,396	23,290 23,141	675 643	4,350 4,194	2,834 6,007	2,580 5,995	2,335 2,644	925 1,093	5.1 5.8	691 626
May June	r 44,575 r 44,576	5 r – 1.6	33,328 33,323	- 0.3 - 0.3	9,355	23,083 23,084	624 629	4,206 4,260	5,726 4,464	5,715 4,452	2,813 2,853	1,172 1,197	6.2	584 570
July Aug.	r 44,602 r 44,594	1 r – 1.6	10 33,480	10 – 0.4	10 9,367	10 23,026 10 23,218	10 641	10 4,253		10 3,296 10 2,528	2,910 2,955	1,258 1,302	6.3 6.4	573 584
Sep. Oct.	r 44,789 r 44,85	7 r – 1.6	10 33,791 10 33,857	10 - 0.4 10 - 0.3	10 9,422 10 9,410	10 23,455 10 23,526		10 4,227 10 4,206		10 2,268 10 1,986	2,847 2,760	1,238 1,183	6.2 6.0	591 602
Nov. Dec.	11 44,86	7 11 – 1.6				:::					2,699 2,707	1,152 1,166	5.9 5.9	601 581

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 Number within a given month. 4 Mid-month level. 5 Relative to the total civilian labour force. 6 Excluding government-assisted forms of employment and seasonal jobs, including jobs located abroad. 7 From January 2017 persons receiving additional income assistance (unemployment benefit and unemployment benefit II at the same time) shall be assigned to the legal category of the Third Book of the Social Security Code (SGB III) 8 Statistical break due to late recording of unemployed

persons in the legal category of the Second Book of the Social Security Code (SGB II). **9** From May 2020, calculated on the basis of new labour force figures. **10** Unadjusted figures estimated by the Federal Employment Agency. In 2018 and 2019, the estimated values for Germany deviated from the final data by a maximum of 0.1% for employees subject to social contributions, by a maximum of 0.7% for persons solely in jobs exempt from social contributions, and by a maximum of 55.3% for cyclically induced short-time work. **11** Initial preliminary estimate by the Federal Statistical Office

7. Prices

	Harmo	nised Ind	lex of Cons	umer Prices	;						la dan af		la di sas sef		HWWI	
			of which:	1							Index of producer		Indices of foreign trac	le prices	Index of Wo Prices of Raw	
							of which:	Memo it	om:		prices of industrial products	Index of				
				Non- energy			Actual rents	Consume	er	Con- struction	sold on the	producer prices of				
	Total 2	!	Food 3		Energy 4, 5	Services 2, 4	for housing	(national concept)		price index	domestic market 6	agricultural products 6	Exports	Imports	Energy 8	Other raw materials 9
Period	2015 :	= 100														
	Inde	ex leve	ı													
2017		102.1	104.0	I 102.2	97.5	102.5	l 102.9		102.0	105.3	I 101.1	108.6	100.7	100.1	l 99.6	107.1
2017 2018 2019		104.0 105.5	104.0 106.7 108.4	102.2 103.0 104.2	102.3 103.7	102.3 104.2 105.7	102.9 104.6 106.1		102.0 103.8 105.3	1103.3 110.2 115.3	103.7	109.0 111.5	101.9 102.4	100.1 102.7 101.7	124.6 110.0	106.2 108.1
2020	10,e	105.8						10,e		10 117.0					73.4	111.6
2019 Feb. Mar.		103.9 104.4	107.9 107.7	103.4 103.9	101.7 102.4	103.6 104.1	105.6 105.7		103.8 104.2	114.0	105.0 104.9	112.1 113.0	102.3 102.4	102.5 102.5	114.3 115.2	109.4 108.3
Apr. May		105.4 105.7	107.9 108.3	104.6 104.6	104.4 106.1	105.3 105.3	105.7 105.8 105.9		105.2 105.4	115.0	105.4	115.5 115.7	102.4 102.6 102.5	102.8 102.7	119.2 116.6	108.8 106.6
June July		106.0 106.4	108.4	104.1	104.9	106.6 107.9			105.7	113.0	104.9	115.1	102.3	101.3	102.8	108.6
Aug. Sep.		106.3 106.2	108.8 108.8	103.4 104.7	103.8 103.8	107.8 106.9	106.2 106.3 106.4		106.0 106.0	115.8		112.5 109.9	102.3 102.4	100.5 101.1	100.2 105.9	106.0 107.5
Oct. Nov.		106.3 105.4	108.6 109.0	105.0 105.2	103.8 103.7	106.9 104.9	106.6 106.7		106.1 105.3	116.4		110.3 112.1	102.4 102.4	101.0 101.5	105.7 110.5	107.1 106.9
Dec. 2020 Jan.		106.0 105.1	109.2	105.1 104.0	103.6 104.9	106.1	106.8 107.0		105.8	447.0	104.5		102.5 102.7	101.7	112.5 107.4	110.4
Feb. Mar.		105.7 105.8	l	104.3 105.2	103.9 101.6	105.2 105.5	107.1 107.3		105.6 105.7	117.8	104.1	114.2 113.8	102.6 101.9	100.4 96.9	94.3 61.3	108.7 104.9
Apr. May June		106.2 106.2 106.9	112.2 112.5 112.7	105.4 105.4 104.8	98.6 97.4 98.7	106.7 106.7 108.1	107.4 107.5 107.6		106.1 106.0 106.6	118.3	103.4 103.0 103.0	112.5 109.2 110.0	101.5 101.3 101.3	95.2 95.5 96.1	49.7 55.5 65.2	101.0 102.1 105.1
July Aug.	10 10 10	106.2	10 110.1	10 102.5 10 102.6	10 97.6	10 109.4 10 109.0	10 107.8	10	106.1 106.0	10 115.7		107.5 104.8	101.3 101.2	96.4 96.5	68.3 71.2	107.5 111.7
Sep. Oct. Nov.	10 10 10	105.8	10 110.2	10 103.6 10 103.9 10 104.0	10 97.0	10 108.0 10 107.6 10 105.5	10 108.0	10	105.8 105.9 105.0	10 116.0	103.6 103.7 103.9	103.3 103.8 103.8	101.3 101.4 101.8	96.8 97.1 97.6	70.4 73.4 77.8	117.9 118.9 120.4
Dec.	10,e	105.3	l	I	l			10,e	105.5	110.0	105.5				86.6	128.9
	Anr	•		e chang												
2017 2018 2019		+ 1.7 + 1.9 + 1.4	+ 2.7 + 2.6 + 1.6	+ 1.2 + 0.8 + 1.1	+ 3.1 + 4.9 + 1.4	+ 1.4 + 1.6 + 1.5		+ +	1.8	+ 3.3 + 4.7 + 4.6	+ 2.6	+ 10.0 + 0.4 + 2.3	+ 1.7 + 1.2 + 0.5	+ 3.5 + 2.6 - 1.0	+ 19.7 + 25.1 - 11.7	+ 8.8 - 0.8 + 1.8
2020	10,e	+ 0.4						10,e 4		10 + 1.5					- 33.3	+ 3.2
2019 Feb. Mar.		+ 1.7 + 1.4	+ 1.6 + 1.2	+ 1.3 + 0.8	+ 3.2 + 4.6	+ 1.7 + 1.2	+ 1.5 + 1.5			+ 5.3	+ 2.6 + 2.4	+ 7.0 + 6.8	+ 1.3 + 1.3	+ 1.6 + 1.7	+ 5.2 + 5.2	+ 3.2 + 3.2
Apr. May		+ 2.1 + 1.3	+ 1.0 + 1.3	+ 1.3 + 1.4	+ 4.9 + 4.1	+ 2.4 + 0.7	+ 1.4 + 1.4	4	2.0	+ 5.1	+ 2.5	+ 9.4 + 10.8	+ 1.3 + 0.7	+ 1.4 - 0.2	+ 2.1	+ 2.5 - 5.2
June July		+ 1.5 + 1.1	+ 1.4	+ 1.3	+ 2.4	+ 1.6		4	1.6		+ 1.2	+ 10.0	+ 0.2	- 2.0 - 2.1	- 21.2 - 18.6	- 2.4 + 6.8
Aug. Sep.		+ 1.0 + 0.9	+ 2.3 + 1.6	+ 1.1 + 0.9	+ 0.7	+ 0.7	+ 1.4		1.4	+ 4.3		+ 1.8	- 0.1 ± 0.0	- 2.7 - 2.5	- 23.2 - 24.8	+ 0.3 + 4.7
Oct. Nov.		+ 0.9 + 1.2	+ 1.4 + 1.9	+ 0.9 + 1.1	- 2.2 - 4.0	+ 1.3 + 2.4		‡	1.1	+ 3.9		- 1.0 + 0.4	- 0.2 - 0.1	- 3.5 - 2.1	- 27.0 - 10.7	+ 1.5 + 1.6
Dec. 2020 Jan.		+ 1.5 + 1.6	+ 2.1 + 2.5	+ 1.3	+ 0.1 + 3.3	+ 2.0 + 1.4	+ 1.5		1.7		- 0.2 + 0.2		+ 0.4 + 0.5	- 0.7 - 0.9	+ 1.0	+ 7.0 + 7.5
Feb. Mar.		+ 1.7 + 1.3	+ 3.1 + 3.1	+ 0.9 + 1.3	+ 2.2 - 0.8	+ 1.5 + 1.3	+ 1.4 + 1.5	+	1.4	+ 3.3	- 0.8	+ 1.9 + 0.7	+ 0.3 - 0.5	- 2.0 - 5.5	- 17.5 - 46.8	- 0.6 - 3.1
Apr. May June		+ 0.8 + 0.5 + 0.8	+ 4.0 + 3.9 + 4.0	+ 0.8 + 0.8 + 0.7	- 5.6 - 8.2 - 5.9	+ 1.3 + 1.3 + 1.4	+ 1.5 + 1.5 + 1.4		0.6	+ 2.9	- 1.9 - 2.2 - 1.8	- 2.6 - 5.6 - 4.4	- 1.1 - 1.2 - 1.0	- 7.4 - 7.0 - 5.1	- 58.3 - 52.4 - 36.6	- 7.2 - 4.2 - 3.2
July Aug.	10 10	± 0.0 - 0.1	10 + 1.4 10 + 1.2	10 - 0.8 10 - 0.8	10 – 6.4 10 – 6.0	10 + 1.4 10 + 1.1	10 + 1.4 10 + 1.4	10 _	- 0.1	10 – 0.1	- 1.7	- 5.9 - 6.8	- 1.1 - 1.1	- 4.6 - 4.0	- 35.4 - 28.9	- 4.9 + 5.4
Sep. Oct.	10 10	- 0.5	10 + 1.5	10 - 1.1 10 - 1.0	10 – 6.6	10 + 0.7	10 + 1.3	10 _ 10 _	- 0.2 - 0.2		- 1.0 - 0.7	- 6.0 - 5.9	- 1.1 - 1.0	- 4.3 - 3.9	- 33.5 - 30.6	+ 9.7 + 11.0
Nov. Dec.	10 10,e	- 0.7 - 0.7		10 - 1.1		10 + 0.6 		10 _ 10,e _	- 0.3 - 0.3	10 – 0.3	- 0.5	– 7.4 	– 0.6 	– 3.8 	- 29.6 - 23.0	+ 12.6

Sources: Eurostat; Federal Statistical Office and Bundesbank calculation based on data from the Federal Statistical Office; for the Index of World Market Prices of Raw Materials: HWWI. 1 Deviations from the official figures are due to rounding. 2 With effect from 2015, methodological changes to the collection of data on the prices of package holidays, impacting until the beginning of the series. 3 Including alcoholic beverages and tobacco. 4 Modified procedure as of 2017 due to calculations on the basis of the five digit structure set out in the European Classification of Individual

Consumption according to Purpose (ECOICOP). **5** Electricity, gas and other fuels as well as transport fuels and lubricants, from January 2017 excluding lubricants. **6** Excluding value added tax. **7** For the euro area, in euro. **8** Coal, crude oil (Brent) and natural gas. **9** Food, beverages and tobacco as well as industrial raw materials. **10** Influenced by a temporary reduction of value added tax. **11** From January 2020 onwards provisional figures.

8. Households' income *

	Gross wages salaries 1	and	Net wages a salaries 2	nd	Monetary soo 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
2012	1,150.0	4.2	776.1	4.0	376.8	1.5	1,152.9	3.2	1,668.4	2.5	161.0	- 1.3	9.7
2012		3.2	799.4	3.0	383.9	1.9		2.6	1,690.8	1.3	157.1	٦.	9.3
	1,186.3						1,183.2		, ,				
2014	1,234.2	4.0	830.5	3.9	394.0	2.6	1,224.5	3.5	1,734.5	2.6	170.6	8.6	9.8
2015	1,285.5	4.2	863.3	4.0	410.5	4.2	1,273.8	4.0	1,782.3	2.8	179.4	5.1	10.1
2016	1,337.4	4.0	896.3	3.8	426.2	3.8	1,322.5	3.8	1,841.5	3.3	187.8	4.7	10.2
2017	1,394.1	4.2	931.6	3.9	440.9	3.4	1,372.5	3.8	1,905.9	3.5	201.9	7.5	10.6
2018	1,461.3	4.8	975.2	4.7	452.8	2.7	1,428.0	4.0	1,970.8	3.4	215.4	6.7	10.9
2019	1,521.6	4.1	1,020.3	4.6	470.8	4.0	1,491.1	4.4	2,027.1	2.9	220.3	2.2	10.9
2019 Q2	371.6	4.4	243.7	4.9	116.4	4.1	360.2	4.7	500.3	3.1	51.0	1.3	10.2
Q3	378.1	4.5	259.1	5.1	118.9	4.4	378.0	4.9	506.1	3.5	46.6	2.1	9.2
Q4	416.6	3.3	278.4	3.6	117.8	4.3	396.2	3.8	512.5	2.4	49.7	2.6	9.7
2020 Q1	365.7	2.9	246.1	3.0	123.9	5.2	370.0	3.7	521.9	2.7	85.5	17.0	16.4
Q2	355.4	- 4.3	234.6	- 3.8	128.0	10.0	362.6	0.7	496.1	- 0.8	99.5	95.2	20.1
Q3	372.9		257.9		131.2		1	2.9	509.7	0.7			

Source: Federal Statistical Office; figures computed in November 2020. * 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 bas	sis					l		
	On an hourly bas	is	Total		Total excluding one-off payment	s	Basic pay rates 2		Memo item: Wages and salari per employee 3	es	
Period	2015 = 100	Annual percentage change	2015 = 100	Annual percentage change							
2012 2013 2014	92.5 94.8 97.7	2.6 2.5 3.1	92.7 95.0 97.8	2.5 2.5 2.9	92.7 95.0 97.7	2.8 2.5 2.8	92.7 95.0 97.7	2.8 2.5 2.8	92.4 94.4 97.2		2.9 2.2 2.9
2015 2016 2017 2018 2019	100.0 102.1 104.2 107.1 110.2	2.3 2.1 2.1 2.8 2.9	100.0 102.1 104.2 107.1 110.2	2.3 2.1 2.0 2.8 2.9	100.0 102.1 104.3 107.0 109.7	2.3 2.1 2.1 2.7 2.5	100.0 102.2 104.5 107.3 110.0	2.4 2.2 2.3 2.7 2.5	100.0 102.5 105.1 108.4 111.6		2.9 2.5 2.5 3.2 2.9
2019 Q2 Q3 Q4	103.0 114.1 121.8	2.1 4.3 2.4	103.0 114.1 121.8	2.1 4.2 2.3	102.9 112.4 121.8	2.2 2.6 2.4	109.8 110.5 110.7	2.2 2.4 2.3	109.2 110.9 121.3		3.1 3.4 2.4
2020 Q1 Q2 Q3	104.2 104.9 116.2	2.4 1.9 1.8	104.2 104.9 116.1	2.3 1.9 1.8	104.2 105.0 114.4	2.4 2.1 1.8	111.6 112.1 112.4	2.4 2.1 1.8	107.5 105.5 110.5	- -	2.3 3.4 0.4
2020 May June	105.2 104.7	2.2 1.5	105.2 104.6	2.2 1.4	105.3 104.8	2.2 2.1	112.1 112.2	2.2 2.1			
July Aug. Sep.	138.5 105.1 104.9	1.9 1.8 1.7	138.4 105.1 104.9	1.9 1.8 1.7	133.3 105.0 105.0	1.8 1.8 1.7	112.4 112.4 112.5	1.9 1.8 1.7	· · · · · ·		
Oct. Nov.	105.1 160.6	1.7 2.2	105.0 160.5	1.8 2.2	105.1 159.9	1.7 1.9	112.5 112.6	1.7 1.7			

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 (13th monthly salary payment)

and retirement provisions). ${\bf 3}$ Source: Federal Statistical Office; figures computed in November 2020.

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

End of year/half

	End of yea	r/half														
		Assets								Equity and	liabilities					
			of which:				of which:				Liabilities					
												Long-term		Short-term		
												Long term		Short tem		
															of which:	-
	Total	Non- current	Intangible	Tangihla	Financial	Current	Inven-	Trade receiv-					of which: Financial		Financial	Trade
Period	assets	assets	assets	assets	assets	assets	tories	ables	Cash 1	Equity	Total	Total	debt	Total	debt	payables
	Total (€	billion)														
2016	2,364.3	1,476.7	492.3	595.8	288.9	887.5	226.8	217.4	149.0	670.7	1,693.6	888.6	482.0	805.0	249.0	192.8
2017 2018 3	2,396.3 2,589.6	1,488.2 1,537.1	498.6 540.8	602.8 611.1	295.9 288.5	908.0 1,052.5	230.6 249.5	225.1 234.9	156.2 172.6	757.2 790.3	1,639.1 1,799.3	866.4 925.8	495.7 558.7	772.7 873.5	236.1 257.5	195.6 205.1
2019	2,801.3	1,770.1	586.3	737.5	333.4	1,031.2	257.6	237.8	168.5	821.5	1,979.8	1,091.3	676.3	888.5	289.8	207.7
2018 H2 2019 H1	2,589.6 2,702.6	1,537.1 1,657.9	540.8 549.7	611.1 682.9	288.5 314.5	1,052.5 1,044.7	249.5 269.2	234.9 240.5	172.6 140.5	790.3 777.5	1,799.3 1,925.1	925.8 1,024.3	558.7 613.9	873.5 900.8	257.5 301.7	205.1 210.8
H2	2,801.3	1,770.1	586.3	737.5	333.4	1,044.7	257.6	237.8	168.5	821.5	1,979.8	1,024.3	676.3	888.5	289.8	207.7
2020 H1 p	2,892.2	1,801.3	625.0	734.3	319.7	1,090.9	257.6	216.6	220.8	794.2	2,097.9	1,183.9	754.2	914.0	335.6	179.8
2046	i .	ntage of to		1 25.2	42.2	1 27.5					1 74.61	27.6			1051	
2016 2017	100.0 100.0	62.5 62.1	20.8 20.8	25.2 25.2	12.2 12.4	37.5 37.9	9.6 9.6	9.2 9.4	6.3 6.5	28.4 31.6	71.6 68.4	37.6 36.2	20.4 20.7	34.1 32.3	10.5 9.9	8.2 8.2
2018 3 2019	100.0 100.0	59.4 63.2	20.9 20.9	23.6 26.3	11.1 11.9	40.6 36.8	9.6 9.2	9.1 8.5	6.7 6.0	30.5 29.3	69.5 70.7	35.8 39.0	21.6 24.1	33.7 31.7	9.9 10.3	7.9 7.4
2018 H2	100.0	59.4	20.9	23.6	11.1	40.6	9.6	9.1	6.7	30.5	69.5	35.8	21.6	33.7	9.9	7.9
2019 H1	100.0	61.4	20.3	25.3	11.6	38.7	10.0	8.9	5.2	28.8	71.2	37.9	22.7	33.3	11.2	7.8
H2 2020 H1 p	100.0 100.0	63.2 62.3	20.9 21.6	26.3 25.4	11.9 11.1	36.8 37.7	9.2 8.9	8.5 7.5	6.0 7.6	29.3 27.5	70.7 72.5	39.0 40.9	24.1 26.1	31.7 31.6	10.3 11.6	7.4 6.2
2020111 P			focus on						7.0	27.5	/2.5	40.3	20.1	31.0	11.0	0.2
2016	1,956.8	1,182.2	347.2	482.0	271.6	774.7	212.9	'/ 175.0	117.1	535.3	1,421.5	732.7	383.2	688.8	225.1	142.2
2017 20183	1,989.4 2,149.9	1,190.8 1,215.7	351.5 388.2	484.0 473.3	281.8 277.5	798.6 934.2	215.8 234.6	181.4 188.7	128.6 139.3	609.9 637.2	1,379.5 1,512.7	719.1 760.3	397.8 442.4	660.3 752.4	218.4 236.2	150.1 152.6
2019	2,149.9	1,396.8	419.6	565.7	319.7	906.8	243.8	188.7	136.9	662.7	1,640.9	887.5	523.8	753.4	257.5	158.1
2018 H2	2,149.9	1,215.7	388.2	473.3	277.5	934.2	234.6	188.7	139.3	637.2	1,512.7	760.3	442.4	752.4	236.2	152.6
2019 H1 H2	2,229.7 2,303.6	1,297.6 1,396.8	388.9 419.6	517.9 565.7	302.7 319.7	932.0 906.8	255.6 243.8	194.2 188.7	115.8 136.9	629.6 662.7	1,600.0 1,640.9	831.4 887.5	473.9 523.8	768.6 753.4	265.8 257.5	164.3 158.1
2020 H1 p	2,305.5	1,352.3	406.4	547.5	303.4	953.3	244.0	171.8	171.4	615.2	1,690.4	912.2	548.5	778.2	294.6	137.1
	As a perce	ntage of to	tal assets			•							•			
2016 2017	100.0 100.0	60.4 59.9	17.7 17.7	24.6 24.3	13.9 14.2	39.6 40.1	10.9 10.9	8.9 9.1	6.0 6.5	27.4 30.7	72.6 69.3	37.4 36.2	19.6 20.0	35.2 33.2	11.5 11.0	7.3 7.5
20183	100.0	56.6	18.1	22.0	12.9	43.5	10.9	8.8	6.5	29.6	70.4	35.4	20.6	35.0	11.0	7.1
2019 2018 H2	100.0 100.0	60.6 56.6	18.2 18.1	24.6 22.0	13.9 12.9	39.4 43.5	10.6 10.9	8.2 8.8	5.9 6.5	28.8 29.6	71.2 70.4	38.5 35.4	22.7 20.6	32.7 35.0	11.2 11.0	6.9 7.1
2018 H2 2019 H1	100.0	58.2	17.4	23.2	13.6	41.8	11.5	8.7	5.2	28.2	70.4	37.3	21.3	34.5	11.0	7.1
H2	100.0	60.6	18.2	24.6	13.9	39.4	10.6	8.2	5.9	28.8	71.2	38.5	22.7	32.7	11.2	6.9
2020 H1 p	100.0	58.7	17.6		13.2	41.4	10.6	7.5	7.4	26.7	73.3	39.6	23.8	33.8	12.8	6.0
2046	l .		focus on					12.4	24.0	105.4	1 2724	455.0				50.5
2016 2017	407.4 406.9	294.6 297.4	145.1 147.1	113.8 118.8	17.3 14.1	112.8 109.5	13.9 14.8	42.4 43.6	31.9 27.6	135.4 147.2	272.1 259.6	155.9 147.3	98.8 97.9	116.1 112.4	24.0 17.6	50.5 45.5
2018 3 2019	439.7 497.7	321.3 373.3	152.7 166.7	137.9 171.8	11.0 13.7	118.3 124.4	14.9 13.7	46.1 49.1	33.3 31.6	153.1 158.8	286.6 338.9	165.5 203.8	116.3 152.6	121.1 135.1	21.3 32.3	52.5 49.6
2018 H2	439.7	321.3	152.7	137.9	11.0	118.3	14.9	46.1	33.3	153.1	286.6	165.5	116.3	121.1	21.3	52.5
2019 H1	472.9	360.3	160.8	165.1	11.8	112.6	13.7	46.3	24.7	147.9	325.0	192.8	140.0	132.2	35.9	46.5
H2 2020 H1 p	497.7 586.6	373.3 449.0	166.7 218.7	171.8 186.8	13.7 16.3	124.4 137.6	13.7 13.7	49.1 44.9	31.6 49.4	158.8 179.1	338.9 407.6	203.8 271.7	152.6 205.7	135.1 135.9	32.3 40.9	49.6 42.6
2020 III F		ntage of to		100.0	10.5	137.0	13.7	44.9	45.4	1/9.1	407.0	2/1./	203.7	1.55.9	40.5	42.0
2016	100.0	72.3	35.6	27.9	4.3	27.7	3.4	10.4	7.8	33.2	66.8	38.3	24.3	28.5	5.9	12.4
2017 2018 3	100.0 100.0	73.1 73.1	36.2 34.7	29.2 31.4	3.5 2.5	26.9 26.9	3.7 3.4	10.7 10.5	6.8 7.6	36.2 34.8	63.8 65.2	36.2 37.6	24.1 26.5	27.6 27.6	4.3 4.8	11.2 11.9
2019	100.0	75.0	33.5	34.5	2.8	25.0	2.8	9.9	6.4	31.9	68.1	41.0	30.7	27.2	6.5	10.0
2018 H2	100.0	73.1	34.7	31.4	2.5	26.9	3.4	10.5	7.6	34.8	65.2	37.6	26.5	27.6	4.8	11.9
2019 H1 H2	100.0 100.0	76.2 75.0	34.0 33.5	34.9 34.5	2.5 2.8	23.8 25.0	2.9 2.8	9.8 9.9	5.2 6.4	31.3 31.9	68.7 68.1	40.8 41.0	29.6 30.7	28.0 27.2	7.6 6.5	9.8 10.0
2020 H1 p	100.0	76.5	37.3	31.9	2.8	23.5	2.3	7.7	8.4	30.5	69.5	46.3	35.1	23.2	7.0	7.3

^{*} 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. Ex-

cluding groups engaged in real estate activities. **1** Including cash equivalents. **2** Including groups in agriculture and forestry. **3** From H1 2018 or 2018 onwards: significant changes in IFRS standards, impairing comparability with previous periods.

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

								ation and a e of revenu				Operating	income (EB	IT) as a per	centage of	revenues
			Operating	income			Distributio							Distributio		
	Revenues		before dep and amort (EBITDA 1	isation	Weighted average		First quartile	Median	Third quartile	Operating income (El	BIT)	Weighted average		First quartile	Median	Third quartile
Period	€ billion ³	Annual per- centage change 4	€ billion ³	Annual per- centage change 4	%	Annual change in per- centage points 4	%	%	%		Annual per- centage change 4	%	Annual change in per- centage points 4	%	%	%
	Total															
2012	1,532.5	6.6	188.7	3.2	12.3	- 0.4	5.4	10.2	17.4	95.6	- 7.7	6.2	- 0.9	2.0	6.1	10.9
2013	1,540.6	- 0.6	187.0	- 2.8	12.1	- 0.3	5.2	10.3	18.4	99.4	5.5	6.5	0.4	1.9	5.9	11.0
2014	1,565.1	1.0	198.7	4.9	12.7	0.5	5.9	10.3	17.4	109.2	8.5	7.0	0.5	1.9	6.1	11.1
2015	1,634.6	6.9	196.0	- 1.1	12.0	- 1.0	6.1	10.6	17.8	91.5	- 16.4	5.6	- 1.5	1.7	6.6	11.3
2016	1,625.0	- 0.4	214.5	7.9	13.2	1.0	6.7	11.4	17.9	111.8	9.1	6.9	0.5	2.6	6.7	12.0
2017	1,720.2	5.1	243.5	14.6	14.2	1.2	6.8	11.0	18.0	142.0	33.3	8.3	1.8	2.5	6.8	12.0
20186	1,707.6	0.7	232.8	- 0.9	13.6	- 0.2	6.1	10.6	17.7	129.2	- 6.3	7.6	- 0.6	2.1	6.5	11.9
2019	1,765.5	2.6	233.7	0.4	13.2	- 0.3	6.9	12.2	19.1	105.5	- 17.9	6.0	- 1.5	1.5	5.8	11.7
2015 H2	830.9	5.1	93.4	- 7.6	11.2	- 1.5	6.3	11.5	18.1	32.6	- 36.7	3.9	- 2.6	2.3	7.1	11.7
2016 H1	782.3	- 1.9	111.6	6.2	14.3	1.1	5.9	10.4	17.7	65.5	2.7	8.4	0.3	1.6	6.4	11.3
H2	842.8	1.1	102.9	9.8	12.2	1.0	6.9	11.9	19.0	46.3	20.9	5.5	0.8	3.0	7.5	12.5
2017 H1	844.4	6.8	125.7	14.6	14.9	1.0	5.7	10.1	17.2	78.5	29.6	9.3	1.6	1.8	5.8	11.6
H2	879.0	3.5	117.5	14.6	13.4	1.3	6.9	12.0	19.1	63.0	38.2	7.2	1.8	3.0	7.4	12.4
2018 H1 6	848.6	- 0.1	120.8	- 2.2	14.2	- 0.3	5.1	10.5	18.0	72.7	- 5.3	8.6	- 0.5	1.7	6.3	12.4
H2	869.8	1.4	114.5	0.5	13.2	- 0.1	6.3	11.1	17.7	58.0	- 7.7	6.7	- 0.6	2.1	6.7	12.2
2019 H1	861.7	2.7	112.4	- 4.0	13.0	- 0.9	6.5	11.6	18.5	53.4	- 23.3	6.2	- 2.1	1.5	5.7	11.7
H2	904.2	2.4	121.3	4.8	13.4	0.3	6.5	11.8	19.9	52.1	- 11.3	5.8	- 0.9	0.8	6.1	12.4
2020 H1 p	744.9	– 14.4	78.3	- 34.5	10.5	- 3.0	4.8	9.9	16.6	7.9	- 88.8	1.1	- 5.4	- 2.2	3.5	8.9
	1		_		duction											
2012	1,193.3	7.8	144.5	5.3	12.1	- 0.3	5.8	10.3	16.5	84.7	2.3	7.1	- 0.4	1.9	6.2	10.0
2013	1,199.6	- 0.8	142.6	- 2.6	11.9	- 0.2	5.1	10.3	16.0	77.5	- 5.8	6.5	- 0.3	1.6	5.9	10.5
2014	1,220.9	1.0	152.2	5.9	12.5	0.6	5.7	10.0	15.5	85.2	9.7	7.0	0.6	1.6	6.0	10.5
2015	1,310.5	7.0	149.1	- 2.6	11.4	- 1.1	6.3	10.5	16.3	69.1	- 19.7	5.3	- 1.7	2.1	6.6	10.4
2016	1,296.6	- 0.8	162.1	6.4	12.5	0.8	6.6	10.7	16.2	84.9	4.3	6.6	0.3	2.9	6.4	10.7
2017	1,396.8	5.5	187.6	16.6	13.4	1.3	6.8	11.0	15.8	112.6	40.5	8.1	2.0	3.2	6.7	10.5
20186	1,368.5	1.0	175.8	- 1.6	12.8	- 0.3	6.8	10.6	15.8	100.7	- 7.1	7.4	- 0.6	2.7	6.8	11.3
2019	1,411.8	2.0	168.2	- 4.4	11.9	- 0.8	6.6	11.3	16.6	76.3	- 23.7	5.4	- 1.8	1.2	5.7	10.1
2015 H2	661.1	5.3	66.6	- 13.1	10.1	- 2.1	5.3	11.2	15.9	18.6	- 52.4	2.8	- 3.3	1.8	7.0	10.7
2016 H1	625.5	- 2.3	86.6	1.8	13.8	0.5	6.7	10.6	15.9	52.7	- 6.4	8.4	- 0.3	2.9	6.4	10.1
H2	671.2	0.7	75.5	12.0	11.3	1.1	6.2	11.3	16.6	32.2	34.3	4.8	0.9	2.6	6.6	10.7
2017 H1	695.6	7.3	101.6	18.7	14.6	1.4	6.1	10.2	16.1	66.4	37.3	9.5	2.1	2.4	5.9	11.0
H2	701.8	3.7	86.0	14.2	12.3	1.1	6.9	11.7	16.9	46.2	45.5	6.6	1.9	3.4	7.2	10.8
2018 H1 6	682.3	- 0.1	95.0	- 3.4	13.9	- 0.5	6.5	10.8	16.7	60.0	- 6.0	8.8	- 0.6	2.9	6.6	11.5
H2	695.8	2.0	83.2	0.6	12.0	- 0.2	6.2	11.1	16.1	42.1	- 8.8	6.1	- 0.7	1.9	6.4	11.2
2019 H1	690.3	2.4	83.4	- 8.8	12.1	- 1.5	7.1	10.7	16.1	41.9	- 26.8	6.1	- 2.4	1.7	5.8	9.5
H2 2020 H1 p	721.5 581.0	1.7 - 16.0	84.9 49.0	0.4 - 42.9	11.8 8.4	- 0.2 - 3.9	5.9 4.4	10.8	16.9 15.0	34.4	- 19.6 - 102.6	4.8 0.0	- 1.3 - 6.3	0.6 - 2.2	5.2 3.1	11.2 7.9
			_		vices se											.
2012	339.2	2.8	44.1	- 3.4	13.0	- 0.8	5.1	9.7	22.7	10.9	- 46.8	3.2	- 3.0	2.1	5.7	12.3
2013	341.0	- 0.1	44.4	- 3.5	13.0	- 0.5	5.2	9.3	20.7	21.9	82.2	6.4	2.9	2.4	5.9	11.8
2014	344.2	0.8	46.5	1.8	13.5	0.1	6.0	12.3	22.6	24.1	4.3	7.0	0.2	2.6	6.3	13.7
2015	324.1	6.1	46.9	4.0	14.5	- 0.3	5.9	11.1	22.1	22.3	- 3.8	6.9	- 0.7	1.3	6.7	13.9
2016 2017 20186 2019 2015 H2	328.4 323.4 339.2 353.7 169.9	1.3 3.5 - 0.6 4.8 4.5	52.5 55.9 57.1 65.4 26.8	12.8 8.3 1.3 15.2 9.9	16.0 17.3 16.8 18.5 15.8	1.6 0.8 0.3 1.7	6.8 6.8 5.5 6.9	13.4 11.5 10.5 13.7 11.8	25.1 23.0 24.7 24.5 23.5	26.9 29.4 28.5 29.2 14.1	24.4 11.4 - 3.5 2.8 9.0	8.2 9.1 8.4 8.3	1.5 0.6 - 0.3 - 0.2	2.3 2.1 1.4 2.4	8.2 7.2 5.8 6.2 7.6	15.3 15.1 16.6 16.2 15.0
2016 H1 H2 2017 H1	156.8 171.6 148.8	- 0.4 2.9 4.6	25.0 27.4 24.2	24.0 4.2 0.4	16.0 16.0 16.2	3.1 0.2 – 0.6	5.1 7.4 5.2	10.2 13.3 9.8	23.4 24.3 21.0	12.8 14.1 12.1	61.2 3.0 0.3	8.2 8.2 8.2	0.4 3.1 0.0 - 0.3	2.4 1.0 4.0 1.2	6.2 8.9 5.6	14.6 17.1 14.5
H2	177.1	2.5	31.5	15.6	17.8	2.0	6.6	12.5	24.6	16.8	21.6	9.5	1.5	2.9	7.8	17.9
2018 H1 6	166.3	0.2	25.9	2.8	15.6	0.4	3.8	9.5	22.7	12.6	- 1.9	7.6	- 0.2	- 0.9	4.7	15.3
H2	174.0	– 1.3	31.3	- 0.0	18.0	0.2	6.7	11.3	25.6	15.9	- 4.6	9.1	- 0.3	2.2	7.0	17.8
2019 H1	171.4	4.0	29.0	13.1	16.9	1.4	5.7	12.3	24.4	11.6	- 7.5	6.7	- 0.9	0.0	4.9	14.5
H2	182.7	5.5	36.5	16.9	20.0	1.9	7.1	15.1	24.4	17.7	10.9	9.7	0.5	1.8	8.2	16.3
2020 H1 p	163.9	- 8.0	29.2	– 9.5	17.8	- 0.3	5.6	10.8	21.2	7.7	- 36.8	4.7	- 2.1	- 2.2	4.3	10.9

^{*} 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 Annual figures do not always match the sum of the two half-year fig-

ures. See Quality report on consolidated financial statement statistics, p. 3. 4 Adjusted for substantial changes in the basis of consolidation of large groups and in the reporting sample. See the explanatory notes in Statistical Series Seasonally adjusted business statistics. 5 Including groups in agriculture and forestry. 6 From this point onwards: significant changes in IFRS standards, impairing comparability with previous periods.

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

€ million

				2020					
em	2017 r	2018 r	2019 r	Q1 r	Q2 r	Q3 r	Aug. r	Sep. r	Oct. P
A. Current account	+ 348,628	+ 333,051	+ 273,959	+ 32,047	+ 29,786	+ 82,881	+ 22,573	+ 35,285	+ 34,07
1. Goods									
Exports	2,263,926	2,331,956	2,410,072	578,513	463,528	547,301	162,508	195,555	207,31
Imports	1,919,016	2,047,078	2,083,506	501,885	407,848	451,402	137,972	160,068	168,3
Balance	+ 344,910	+ 284,875	+ 326,567	+ 76,629	+ 55,681	+ 95,899	+ 24,536	+ 35,487	+ 39,00
2. Services									
Receipts	891,015	942,292	998,870	221,219	190,482	202,234	62,956	70,538	72,4
Expenditure	803,275	829,232	941,048	236,169	179,426	184,350	59,262	61,187	64,5
Balance	+ 87,736	+ 113,062	+ 57,820	- 14,950	+ 11,056	+ 17,882	+ 3,693	+ 9,350	+ 7,8
3. Primary income									
Receipts	772,715	850,348	853,522	189,931	184,760	170,651	56,133	59,062	52,7
Expenditure	719,016	763,367	812,233	172,201	185,302	171,407	52,969	57,862	53,7
Balance	+ 53,695	+ 86,980	+ 41,289	+ 17,730	- 542	- 757	+ 3,163	+ 1,200	_ 9
4. Secondary income									
Receipts	106,517	110,225	113,362	27,802	28,494	26,552	8,349	9,163	9,1
Expenditure	244,234	262,093	265,078	75,163	64,903	56,695	17,168	19,915	20,9
Balance	- 137,718	- 151,867	- 151,718	- 47,362	- 36,409	- 30,144	- 8,820	- 10,752	- 11,8
B. Capital account	- 20,154	- 37,547	- 26,247	+ 55	- 4,971	+ 935	+ 1,659	- 337	+ 9
C. Financial account (increase: +)	+ 350,126	+ 299,842	+ 213,861	+ 14,108	+ 41,384	+ 94,502	+ 51,426	+ 43,811	+ 34,6
1. Direct investment	+ 48,150	· ·						+ 7,007	
By resident units abroad	+ 373,767	- 257,732	· ·	- 33,012				- 41,277	
By non-resident units in the euro area	+ 325,618	- 396,561	+ 96,703	- 59,800	+ 173,616	- 15,809	- 7,453	- 48,284	- 7,0
2. Portfolio investment	+ 360,923	+ 203,089	- 46,910	- 188,559	+ 182,065	- 26,920	+ 24,321	- 1,792	+ 85,9
By resident units abroad	+ 651,684	+ 191,892	+ 436,135	- 128,963	+ 383,242	+ 86,759	+ 57,761	+ 19,494	+ 68,8
Equity and investment fund shares	+ 204,701	+ 32,432	+ 69,192	- 51,743	+ 94,766	+ 78,278	+ 29,180	+ 36,365	+ 37,7
Long-term debt securities	+ 372,783	+ 209,557	+ 361,996	- 29,957	+ 133,178			+ 3,671	+ 33,7
Short-term debt securities	+ 74,200	- 50,092	· ·	- 29,937 - 47,264	+ 155,297	- 23,388	- 782	- 20,542	- 2,6
By non-resident units in the euro area	+ 290,762	- 11,195	+ 483,046					+ 21,286	
Equity and									
investment fund shares	+ 420,681	+ 111,645			+ 115,756				1
Long-term debt securities Short-term debt securities	- 137,420 + 7,502	- 58,191 - 64,646	+ 220,268 + 6,727	+ 54,137 + 77,320	- 13,472 + 98,892		+ 1,938 + 12,086	+ 32,729 + 13,759	- 47,9 + 3,9
Short term debt securities	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	04,040	0,727	77,520	30,032	35,010	1 12,000	1 13,733	' '
3. Financial derivatives and employee stock options	+ 22,866	+ 40,232	- 2,802	+ 12,283	+ 38,018	- 30,954	- 14,419	- 21,604	_ 9
4. Other investment	- 80,533	- 107,387	+ 332,354	+ 160,172	- 89,964	+ 93,888	+ 16,332	+ 57,564	- 72,2
Eurosystem	- 179,203	- 134,123	+ 142,555	- 58,745	+ 44,069	+ 7,480	+ 7,637	- 43,268	+ 30,4
General government	+ 24,973	- 4,974	- 508	+ 4,086	- 8,047	+ 16,505	+ 4,025	+ 9,640	- 13,2
MFIs (excluding the Eurosystem)	+ 144,399	+ 107,972	+ 182,293	+ 129,941	- 135,764	+ 53,719	- 2,181	+ 114,446	- 100,1
Enterprises and households	- 70,708	- 76,261	+ 8,018	+ 84,889	+ 9,776	+ 16,185	+ 6,851	- 23,254	+ 10,7
5. Reserve assets	- 1,277	+ 25,080	+ 3,231	+ 3,425	+ 3,212	+ 3,383	+ 1,304	+ 2,637	+ 2,9

 $^{{}^\}star$ Source: ECB, according to the international standards of the International Monetary Fund's Balance of Payments Manual (sixth edition).

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

€ million

	Currer	nt account														al account				
			Goods	(f.o.b./f.o	.b.) 1										(Net le	nding: +/n	et borrow	ing: -)		
					of which: Supple- mentary	:					Casana	Jan.	Balance	of			of which	:	Errors	
Period	Total		Total		trade items 2		Service	_S 3	Primar	y income	Second		capital account	4	Total		Reserve assets		and omissio	ns 5
2005 2006 2007 2008 2009	+ + + + +	106,942 137,674 171,493 144,954 142,744	+ + + +	156,563 160,965 201,728 184,160 140,626	- - - -	6,515 4,687 1,183 3,947 6,605	- - - -	37,580 31,777 32,465 29,122 17,642	+ + + +	19,300 40,499 35,620 24,063 54,524	- - - -	31,341 32,014 33,390 34,147 34,764	- - - -	2,334 1,328 1,597 893 1,858	+ + + +	96,436 157,142 183,169 121,336 129,693	- + +	2,182 2,934 953 2,008 8,648	- + - -	8,172 20,796 13,273 22,725 11,194
2010 2011 2012 2013 2014	+ + + + + +	147,298 167,340 195,712 184,352 210,906	+ + + +	160,829 162,970 199,531 203,802 219,629	-	6,209 9,357 11,388 12,523 14,296	- - - -	25,255 29,930 30,774 39,321 25,303	+ + + +	51,306 69,087 65,658 63,284 57,752	- - - -	39,582 34,787 38,703 43,413 41,172	+ + - - +	1,219 419 413 563 2,936	+ + + +	92,757 120,857 151,417 226,014 240,258	+ + + +	1,613 2,836 1,297 838 2,564	- - + +	55,760 46,902 43,882 42,224 26,416
2015 2016 2017 2018 2019	+ + + + + +	260,286 266,689 253,883 247,471 244,797	+ + + +	248,394 252,409 252,831 226,275 221,800	- - -	15,405 19,921 15,448 20,613 28,012	- - - -	18,516 20,987 24,372 19,686 21,703	+ + + +	69,262 76,199 75,419 89,453 92,312	- - - -	38,854 40,931 49,995 48,571 47,612	- + - + -	48 2,142 2,999 436 323	+ + + +	234,392 261,123 283,208 236,936 205,543	- + - + -	2,213 1,686 1,269 392 544	- + -	25,845 7,708 32,323 10,971 38,932
2017 Q4 2018 Q1 Q2 Q3 Q4	+ + + + +	72,464 72,518 65,001 51,101 58,852	+ + + +	59,651 64,662 65,174 51,183 45,257	- - - -	6,472 1,877 3,051 4,170 11,515	- - - -	2,974 2,379 2,912 12,695 1,700	+ + + +	28,816 24,754 8,042 24,845 31,812	- - - -	13,029 14,520 5,302 12,232 16,517	+ - - -	3,322 3,656 508 1,642 1,069	+ + + +	80,237 75,991 61,968 40,976 58,001	- + - - +	1,446 699 374 493 560	+ - - - +	11,094 183 2,526 8,482 219
2019 Q1 Q2 Q3 Q4	+ + + + +	64,465 53,626 58,947 67,759	+ + + +	56,962 53,142 59,752 51,945	- - - -	4,195 7,003 6,859 9,954	- - - -	1,755 3,998 13,011 2,939	+ + + + +	25,936 10,714 24,513 31,148	- - - -	16,677 6,232 12,308 12,395	+ - + -	844 406 197 958	+ + + +	40,491 42,597 29,606 92,848	- + - -	63 444 349 576	- - +	24,818 10,623 29,538 26,047
2020 Q1 Q2 Q3 2018 June	+ + + + +	65,441 36,120 62,801 26,939	+ + + + +	53,574 28,429 57,006 22,843	- - -	2,210 1,594 675 1,388	+ - -	1,125 3,482 6,562 1,513	+ + + +	27,016 13,319 22,296 8,483	- - -	14,024 9,111 9,939 2,874	+ - -	541 459 1,007 485	+ + + +	42,281 48,544 70,432 21,439	+ + - +	133 243 1,276 213	++	22,618 11,965 8,639 5,016
July Aug. Sep.	+ + +	14,275 16,805 20,020	+ +	16,174 17,232 17,777	- - -	764 1,536 1,870	 - -	4,944 5,192 2,560	+ + + +	7,857 8,462 8,526	- - -	4,812 3,697 3,723	- - -	368 41 1,234	+ + +	6,223 23,333 11,420	+	266 640 119	- + -	7,684 6,569 7,366
Oct. Nov. Dec.	+ + + +	18,495 20,435 19,921	+ + +	18,411 16,693 10,153	- - -	1,812 4,707 4,995	- + +	4,210 510 2,000	+ + +	8,651 8,799 14,362	- - -	4,357 5,566 6,595	- - +	945 586 462	+ + +	3,533 25,067 29,401	+ - -	700 124 17	- + +	14,017 5,218 9,018
2019 Jan. Feb. Mar.	+ + + +	17,769 15,814 30,883	+ + +	14,465 17,758 24,739	- - -	2,284 1,453 459	- - -	983 405 368	+ + +	9,324 6,479 10,133	- - -	5,037 8,018 3,622	+ + -	2,163 143 1,463	+ + +	16,856 15,799 7,836	+ + -	158 112 333	- - -	3,076 158 21,584
Apr. May June	+ + +	20,638 13,402 19,586	+++++	17,568 19,259 16,315	- - -	2,277 2,905 1,821	- - -	715 258 3,025	+ - +	7,453 6,395 9,656	- + -	3,668 797 3,361	- - -	73 37 296	+ + +	20,138 5,567 16,892	+ + -	547 182 285	- - -	427 7,798 2,397
July Aug. Sep.	+ + +	19,402 16,008 23,537	+ + +	21,458 16,983 21,311	- - -	2,739 1,358 2,762	- - -	4,723 5,514 2,774	+ + +	7,265 8,747 8,501	- - -	4,599 4,208 3,501	+ + -	201 773 777	+ + +	8,459 8,178 12,970	+ + -	348 755 1,452	- - -	11,144 8,604 9,790
Oct. Nov. Dec.	+ + +	18,990 23,515 25,253	+ + +	21,317 17,876 12,751	- - -	2,866 2,549 4,539	- + +	6,137 480 2,718	+ + +	8,431 8,727 13,990	- - -	4,621 3,568 4,206	- - +	893 498 433	+ + +	32,238 34,837 25,773	- - -	107 356 113	+++++	14,141 11,820 86
2020 Jan. Feb. Mar.	+ + +	16,607 23,347 25,487	+ + +	14,306 20,495 18,773	- - +	744 1,664 199	- - -	740 243 142	+ + +	10,194 7,275 9,547	- - -	7,153 4,181 2,690	+ + -	301 65 907	+ + +	3,033 20,957 18,292	+ + -	898 750 1,514	- - -	13,875 2,454 6,289
Apr. May June	+ + +	8,896 6,953 20,272	+ + +	3,957 9,331 15,141	+ -	536 870 1,928	+ + +	791 1,142 1,550		8,471 88 4,936	- - -	4,324 3,432 1,354	+ + +	132 65 262	+ + +	15,176 3,774 29,594	+ + -	950 33 740	+ - +	6,148 3,244 9,061
July Aug. Sep.	+ + +	21,055 16,566 25,179	+ +	20,102 14,349 22,554	- - -	247 18 410	- - -	2,649 2,966 947	+	7,158 8,359 6,779	- - -	3,556 3,176 3,207	+ -	901 614 720	+ +	12,598 38,349 19,485	- - -	611 611 53	+	7,556 21,168 4,974
Oct. Nov. P	+ +	22,871 21,254	+	20,311 18,544	-	618 958		380 1,940		7,231 8,248	-	4,292 7,478	-	1,287 901	+	29,176 15,856	+ +	140 89	+ -	7,593 4,498

¹ 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. 3 Including freight and insurance costs of foreign trade. 4 Including net

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

€ million

€ million					2020					
Group of countries/country		2017	2018	2019	Jan./Nov. p	July	Aug.	Sep.	Oct.	Nov. p
All countries 1	Exports	1,278,958	1,317,440	1,328,152	1,103,945	102,327	91,259	109,834	112,096	111,732
I. European countries	Imports Balance Exports Imports	1,031,013 + 247,946 872,427 699,677	1,088,720 + 228,720 900,141 744,575	1,104,141 + 224,010 902,831 747,692	938,761 + 165,184 757,249 625,504	83,113 + 19,214 68,328 55,009	79,405 + 11,854 63,155 51,928	89,249 + 20,585 76,563 59,971	92,731 + 19,365 77,558 62,947	94,579 + 17,153 76,965 64,044
1. EU Member States (27)	Balance Exports Imports Balance	+ 172,749 664,410 549,250 + 115,160	+ 155,566 696,480 586,433 + 110,047	+ 155,140 698,257 593,251 + 105,006	+ 131,745 582,863 501,262 + 81,601	+ 13,319 52,369 44,491 + 7,879	+ 11,227 48,148 42,300 + 5,848	+ 16,592 59,165 48,941 + 10,225	+ 14,611 59,729 50,490 + 9,239	+ 12,920 59,510 51,662 + 7,847
Euro area (19) countries	Exports Imports Balance	471,213 378,700 + 92,513	492,469 405,810 + 86,659	492,308 409,863 + 82,445	404,936 341,763 + 63,172	36,852 30,118 + 6,733	32,402 28,648 + 3,754	41,132 32,771 + 8,361	41,158 33,795 + 7,363	41,053 34,276 + 6,777
of which: Austria	Exports Imports Balance	62,656 40,686 + 21,970	65,027 42,994 + 22,033	66,076 44,059 + 22,017	55,385 36,883 + 18,502	4,957 3,649 + 1,309	4,723 2,884 + 1,839	5,494 3,555 + 1,939	5,632 3,685 + 1,947	5,537 3,791 + 1,747
Belgium and Luxembourg	Exports Imports Balance	50,071 43,689 + 6,381	50,389 49,315 + 1,074	52,006 46,322 + 5,683	44,455 36,799 + 7,656	3,928 3,082 + 846	3,622 3,032 + 590	4,519 3,364 + 1,155	4,655 3,687 + 968	4,464 3,668 + 796
France	Exports Imports Balance	105,687 64,329 + 41,359	105,359 65,024 + 40,335	106,564 66,199 + 40,364	83,738 51,999 + 31,739	7,757 4,346 + 3,411	6,459 4,153 + 2,306	8,441 4,819 + 3,623	8,508 5,163 + 3,346	8,408 5,727 + 2,681
Italy	Exports Imports Balance	65,422 55,342 + 10,080	69,813 60,223 + 9,591	67,887 57,100 + 10,786	55,891 49,424 + 6,467	5,291 4,662 + 630	4,088 4,130 - 42	5,699 4,692 + 1,007	5,919 5,072 + 847	5,923 5,254 + 668
Netherlands	Exports Imports Balance	84,661 90,597 - 5,935	91,061 97,709 - 6,649	91,528 97,816 – 6,288	76,935 81,124 – 4,189	6,801 6,976 – 175	6,414 6,728 – 314	7,650 7,557 + 94	7,293 7,803 – 511	7,570 7,766 – 196
Spain	Exports Imports Balance	43,067 31,396 + 11,671	44,184 32,399 + 11,785	44,218 33,126 + 11,092	34,517 28,856 + 5,661	3,242 2,705 + 537	2,521 2,136 + 385	3,556 2,729 + 826	3,635 2,894 + 741	3,591 3,050 + 542
Other EU Member States	Exports Imports Balance	193,198 170,551 + 22,647	204,011 180,623 + 23,388	205,949 183,387 + 22,561	177,927 159,499 + 18,428	15,517 14,372 + 1,145	15,746 13,653 + 2,094	18,034 16,170 + 1,864		18,457 17,387 + 1,070
2. Other European countries	Exports Imports Balance	208,016 150,427 + 57,589	203,661 158,142 + 45,519	204,575 154,441 + 50,134	174,386 124,241 + 50,145	15,959 10,519 + 5,440	15,006 9,627 + 5,379	17,398 11,031 + 6,367	17,829 12,457 + 5,372	17,455 12,382 + 5,073
of which: Switzerland	Exports Imports Balance	53,913 45,689 + 8,224	54,021 45,913 + 8,108	56,345 45,824 + 10,521	52,276 41,982 + 10,294	4,757 3,800 + 957	4,313 3,094 + 1,219	4,745 3,774 + 972	4,911 4,215 + 696	5,081 4,036 + 1,045
United Kingdom	Exports Imports Balance	85,440 36,820 + 48,620	82,164 37,025 + 45,139	79,166 38,397 + 40,770	61,856 31,865 + 29,991	5,517 2,438 + 3,079	5,618 2,458 + 3,160	6,377 2,804 + 3,573	6,521 2,958 + 3,563	6,465 3,145 + 3,320
II. Non-European countries 1. Africa	Exports Imports Balance Exports	403,490 328,606 + 74,884 25,431	413,483 342,980 + 70,503 22,524	421,728 355,390 + 66,338 23,627	345,082 311,903 + 33,180 18,293	33,892 27,994 + 5,898 1,587	27,974 27,250 + 724 1,451	33,179 29,107 + 4,072 1,709	34,425 29,607 + 4,818 1,763	34,486 30,353 + 4,133 1,763
2. America	Imports Balance Exports	20,428 + 5,003 154,644	22,542 - 18 158,952	24,475 - 848 165,602	16,860 + 1,432 129,419	1,482 + 105 12,730	1,400 + 51 10,628	1,572 + 137 12,719	1,512 + 251 13,358	1,891 - 128 12,834
of which:	Imports Balance	89,927 + 64,717	92,444 + 66,508	100,007 + 65,595	86,295 + 43,124	7,190 + 5,540	7,651 + 2,977	8,391 + 4,328	8,414 + 4,943	8,379 + 4,454
United States	Exports Imports Balance	111,805 61,902 + 49,903	113,341 64,493 + 48,847	118,680 71,334 + 47,346	94,696 62,203 + 32,493	9,328 5,232 + 4,097	7,689 5,590 + 2,099	9,339 6,227 + 3,112	5,821	9,572 5,824 + 3,748
3. Asia	Exports Imports Balance	212,070 214,393 – 2,323	219,716 224,355 – 4,639	221,278 227,036 – 5,759	187,651 205,163 – 17,512	18,551 18,980 – 429	15,103 17,927 – 2,824	17,849 18,805 – 956	18,372 19,427 – 1,055	19,033 19,743 – 710
of which: Middle East	Exports Imports Balance	33,104 6,963 + 26,141	29,144 8,156 + 20,989	28,663 7,460 + 21,202	22,088 5,365 + 16,723	2,136 474 + 1,662	1,876 513 + 1,363	1,964 528 + 1,436	2,116 502 + 1,614	2,077 406 + 1,671
Japan	Exports Imports Balance	19,546 22,955 – 3,410	20,436 23,710 - 3,275	20,662 23,904 - 3,243	15,844 19,550 – 3,706	1,450 1,708 – 259	1,137 1,538 – 402	1,471 1,661 – 190	1,478 1,920	1,580 1,967 – 388
People's Republic of China 2	Exports Imports Balance	86,141 101,837 – 15,695	93,004 106,065 – 13,061	95,984 110,054 – 14,070	86,605 105,831 – 19,227	8,725 10,300 – 1,575	7,306 9,382 – 2,076	8,459 9,717 – 1,258	10,103 - 1,450	9,331 10,439 – 1,108
New industrial countries and emerging markets of Asia 3	Imports Balance	53,425 50,873 + 2,552				4,590 3,821 + 769	3,544 3,561 – 17 793	4,132 3,806 + 326 903	+ 388	4,254 4,124 + 129 856
4. Oceania and polar regions	Exports Imports Balance	11,344 3,857 + 7,487	12,291 3,639 + 8,652	11,221 3,872 + 7,349	9,720 3,585 + 6,135	1,024 343 + 682	273	339	254	339

^{*} Source: Federal Statistical Office. Exports (f.o.b.) by country of destination, imports (c.i.f.) by country of origin. Individual countries and groups of countries according to the current position. EU excl. UK. 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

	Service	_{2S} 1															Primary	income				
			of whice	ch:																		
Period	Total		Transp	ort	Travel	2	Financi service		Charge the use intelled proper	e of ctual	Tele- commu cations comput informa services	er and	Other busines services		Govern goods a services	and	Compen of emplo		Investi incom		Other primary income	
2015 2016 2017 2018 2019	- - - -	18,516 20,987 24,372 19,686 21,703	- - - +	5,203 5,950 3,723 1,808 536	- - - -	36,595 38,247 43,558 44,543 46,098	+ + + +	8,621 8,612 9,663 9,610 10,302	+ + + +	12,602 15,790 14,759 17,240 17,889	- - - -	3,920 7,156 8,181 7,477 9,330	- - - -	1,216 1,520 690 358 2,798	+ + + +	3,161 3,092 2,177 3,324 3,568	+ + - -	1,114 474 521 1,065 1,347	+ + + +	68,506 76,800 77,314 91,442 94,453	- - - -	358 1,076 1,374 924 793
2019 Q1 Q2 Q3 Q4	- - -	1,755 3,998 13,011 2,939	- + +	438 422 344 208	- - -	6,692 10,382 18,603 10,422	+ + +	2,057 2,592 2,811 2,841	+ + +	4,481 4,366 3,263 5,778	- - - -	2,559 1,921 2,267 2,584	- - - -	573 1,204 386 635	+ + +	921 934 936 777	+ - -	361 537 1,078 93	+ + +	26,360 13,434 26,837 27,821	- - +	785 2,183 1,245 3,420
2020 Q1 Q2 Q3	+	1,125 3,482 6,562	- - -	452 1,288 1,632	- - -	5,386 1,490 8,360	+ + +	1,857 2,433 2,384	+ + +	4,387 4,946 3,523	- - -	2,259 1,491 1,923	- - -	926 1,431 1,830	+ + +	785 786 798	+ - -	407 51 1,056	+ + +	27,603 15,753 24,474	- - -	994 2,384 1,123
2020 Jan. Feb. Mar.	- - -	740 243 142	+ + -	43 51 546	- - -	1,694 1,967 1,725	+ + +	893 545 419	+ + +	1,144 1,425 1,818	- - -	810 641 808	- - -	804 46 77	+ + +	290 241 254	+ + +	112 136 159	+ + +	10,433 7,381 9,789	- - -	351 242 401
Apr. May June	+ + +	791 1,142 1,550	- - -	348 555 385	- - -	194 117 1,179	+ + +	907 747 779	+ + +	1,659 1,456 1,832	- - +	880 632 21	- - -	963 434 33	+ + +	267 242 277	+ + -	12 27 90	+ + +	8,982 1,339 5,432	- - -	523 1,454 406
July Aug. Sep.	- - -	2,649 2,966 947	- - -	375 470 787	- - -	2,320 3,530 2,510	+ + +	1,006 601 778	+ + +	682 1,382 1,459	- - -	866 843 214	- - -	1,009 517 304	+ + +	273 254 271	- - -	373 330 352	+++++	7,984 8,997 7,494	- - -	453 308 362
Oct. Nov. p	- +	380 1,940	- -	635 309	- +	1,673 27	+ +	1,031 586	+ +	1,236 1,699	- -	702 569	- -	121 174	+ +	259 193	_ _	50 40	+ +	7,716 8,759	- -	434 471

¹ Including freight and insurance costs of foreign trade. 2 Since 2001 the sample results of a household survey have been used on the expenditure side. 3 Domestic public authorities' receipts from and expenditure on services, not included elsewhere;

including the receipts from foreign military bases. 4 Includes, inter alia, taxes on leasing, production and imports transferred to the EU as well as subsidies received from the EU.

€ million

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

6. Capital account of the Federal Republic of Germany (balances)

€	millio	n

Period

2019 Q1 Q2 Q3 Q4

2020 Q1 Q2 Q3 2020 Jan. Feb. Mar. Apr. May June July Aug. Sep. Oct. Nov. P

		General	governme	ent				All sect	ors exclud	ding gen	eral gove	rnment 2							
				of which	:					of whic	h:								
Total		Total		Current internati coopera		Current taxes or income, etc.	1	Total		Personal betwee resident non-res househ	t and ident	of which Workers remittan		Total		Non-pronon-fin		Capital transfei	rs
- - - -	38,854 40,931 49,995 48,571 47,612	- - - -	24,087 25,417 22,488 28,524 28,599	- - - -	6,805 11,516 9,852 10,098 10,428	+ + + +	10,455 10,739 10,372 10,275 11,758	- - - -	14,766 15,514 27,506 20,047 19,013	- - - -	3,540 4,214 4,632 5,152 5,445	- - - -	3,523 4,196 4,613 5,142 5,431	- + - + -	48 2,142 2,999 436 323	+ + + +	1,787 3,219 922 3,453 2,795	- - - -	1,835 1,077 3,921 3,017 3,118
- - -	16,677 6,232 12,308 12,395	- - -	12,363 591 7,712 7,933	- - - -	2,794 1,354 1,890 4,389	+ + + +	2,093 6,701 1,616 1,348	- - -	4,314 5,641 4,595 4,462	- - - -	1,360 1,361 1,363 1,363	- - -	1,358 1,358 1,358 1,358	+ - + -	844 406 197 958	+ + +	652 20 1,271 853	+ - - -	192 426 1,073 1,81
=	14,024 9,111 9,939	- - -	9,690 5,165 6,231	- - -	2,318 2,262 3,249	+ + +	2,477 4,183 2,004	- - -	4,334 3,946 3,708	- - -	1,482 1,480 1,481	- - -	1,477 1,477 1,477	+ -	541 459 1,007	- + -	741 665 60	+ - -	20 20 94
_ _ _	7,153 4,181 2,690	- - -	5,705 2,689 1,296	- - -	1,060 645 614	+ + +	331 1,049 1,097	- - -	1,448 1,492 1,394	- - -	494 494 494	- -	492 492 492	+ + -	301 65 907	+ - -	32 267 507	+ + -	269 331 400
- - -	4,324 3,432 1,354	- - +	2,961 2,212 8	- - -	483 688 1,091	+ + +	243 2,307 1,632	- - -	1,363 1,221 1,362	- - -	494 493 494	- -	492 492 492	+ + + +	132 65 262	+ - +	192 36 508	- + -	60 10 24
_ _ _	3,556 3,176 3,207	- - -	2,129 2,210 1,893	- - -	1,085 1,149 1,015	+ + +	631 167 1,206	- - -	1,427 967 1,314	- - -	493 495 493	- - -	492 492 492	+ -	901 614 720	- + -	459 699 300	- - -	442 85 420
-	4,292 7.478	-	2,929 5.906	_	965 1.390	+ +	520 257	-	1,363 1,572	-	494 494	-	492 492	-	1,287 901	-	778 387	-	509 513

¹ Excluding capital transfers, where identifiable. Includes current international cooperation and other current transfers. 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

€ million	Τ	П	Т			20										
					20								_		_	
Item	2017	2018		2019	Q1		Q2	!	Q3		Sep).	Oct		Nον	, p
I. Net domestic investment abroad (increase: +)	+ 406,588	+ 39	90,059	+ 213,212			+	137,496	+	233,444	+	121,035	_	52,764	+	90,904
Direct investment	+ 143,931	+ 14	18,042	+ 119,972	+	51,695	+	5,278	+	17,899	-	4,094	+	13,140	+	35,728
Equity of which:	+ 92,843		·	+ 105,956		41,164		22,728		12,894		2,836		3,202		12,805
Reinvestment of earnings 1 Debt instruments	+ 32,233 + 51,088		· ·	+ 40,983 + 14,016		16,572 10,531	+	4,033 17,451	+	10,486 5,005		1,689 1,258	++	4,657 9,938		4,259 22,923
2. Portfolio investment	+ 115,466	+ 8	3,229	+ 123,681	+	8,730	+	59,227	+	44,406	+	15,454	+	26,472	+	11,075
Shares 2 Investment fund shares 3 Long-term	+ 14,673 + 58,562		· ·	+ 14,248 + 52,930		4,988 14,167	++	18,970 14,425	+	18,877 27,313	++	6,112 6,077	++	4,228 3,731	+ +	8,654 7,640
debt securities 4 Short-term	+ 42,724		·	+ 54,493		15,801	+	23,042	-	839		3,687	+	15,221	-	3,433
debt securities 5 3. Financial derivatives and	- 492	+	3,776	+ 2,009	+	2,107	+	2,790	-	944	-	422	+	3,291	-	1,786
employee stock options 6	+ 10,974	+ 2	3,126	+ 22,383	+	32,058	+	31,257	+	26,530	+	5,643	+	831	+	9,004
4. Other investment 7	+ 137,485	+ 13	35,271	- 52,280	+	184,680	+	41,492	+	145,885	+	104,086	-	93,346	+	35,008
Monetary financial institutions 8 Long-term Short-term	- 20,985 + 19,642 - 40,627	+	4,462	+ 9,292 + 18,194 - 8,901	-	104,408 4,261 108,669	- - -	47,120 1,101 46,019	- - -	12,604 4,145 8,459	-	13,836 60 13,896	+	11,898 1,425 13,323	-	1,908 3,033 4,942
Enterprises and households 9 Long-term Short-term	+ 5,827 - 2,291 + 8,118	+ 1	7,182	+ 13,584 + 10,566 + 3,018	+	32,751 9,160 23,591	+++++	27,397 5,849 21,549	++	38,245 39,654 1,409	+	27,625 24,929 2,696	- - +	10,518 16,987 6,469	+++++	17,373 1,688 15,685
General government Long-term Short-term	- 3,993 - 4,408 + 415	-	999	- 4,242 - 3,103 - 1,139	-	4,385 289 4,674	+ - +	1,014 154 1,168	_	1,540 530 2,070	+	2,461 19 2,442	- - -	742 227 515	 - + -	1,045 52 1,097
Bundesbank	+ 156,637	+ 5	6,795	- 70,915		43,136	+	60,201	+	118,704		60,165	_	70,188	_	16,772
5. Reserve assets	- 1,269	+	392	- 544		133	+	243	_	1,276		53	_	140	_	89
II. Net foreign investment in the reporting country (increase: +)	+ 123,380	+ 15	53,123	+ 7,670		235,015		88,952	+	163,012	Ļ	101,550	_	81,941	+	75,048
Direct investment	+ 105,218	l	·	+ 64,284		30,053		1,499	+	28,503		771		7,839	+	29,927
Equity	+ 40,568	l	·	+ 40,113		10,536		4,806	+	2,377		5,778		4,587	+	8,984
of which: Reinvestment of earnings ¹ Debt instruments	+ 17,094 + 64,650			+ 17,310 + 24,172		6,006 19,517	+	1,110 3,307	+	2,273 26,125		956 6,548	++	1,124 3,252	- +	531 20,943
2. Portfolio investment	- 89,846	- 7	3,978	+ 28,479	+	49,231	+	57,347	+	136,391	+	49,906	-	48,729	-	8,391
Shares 2 Investment fund shares 3	- 705 - 2,519			- 6,392 - 4,963		6,120 797	 - +	9,056 235	+	667 353	+	601 1,254	- -	488 380	 - +	303 857
Long-term debt securities 4 Short-term	- 72,291	_ 4	11,376	+ 32,911	+	29,298	+	34,249	+	86,634	+	28,502	-	36,311	-	2,463
debt securities 5	- 14,330	+	4,348	+ 6,923	+	26,850	+	31,919	+	49,442	+	22,058	-	11,551	-	6,482
3. Other investment 7	+ 108,008	+ 8	3,499	- 85,093	+	155,731	+	30,106	-	1,881	+	52,414	-	41,051	+	53,513
Monetary financial institutions ⁸ Long-term Short-term	+ 17,508 + 7,574 + 9,935	-		- 10,010 + 10,968 - 20,978	+	181,993 12,909 169,084		1,879 8,172 10,051	+	1,339 1,971 632	+	7,888 3,608 4,280		859 1,952 2,811		19,917 7,199 12,718
Enterprises and households 9 Long-term Short-term	+ 22,063 + 6,881 + 15,182	+	· ·	+ 21,959 + 12,412 + 9,547	+	26,093 5,945 20,149	-	29,490 108 29,598	- + -	24,000 6,064 30,064	-	1,697 451 1,246	- + -	6,868 1,667 8,535	-	24,730 1,266 25,996
General government Long-term Short-term	- 8,719 - 3,724 - 4,996	+	697	+ 257 + 133 + 124	+	3,478 565 2,914	-	1,364 104 1,468	 - -	10,520 193 10,327	-	2,958 4 2,954	-	2,933 90 2,843	-	2,227 122 2,349
Bundesbank	+ 77,156	l	1,646	- 97,299		55,834		1,131	+	31,300		49,181	-	30,391		6,638
III. Net financial account (net lending: +/net borrowing: -)	+ 283,208	+ 23	86,936	+ 205,543		42,281	+	48,544	+	70,432	+	19,485	+	29,176	+	15,856

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 o

€ million

	External assets										
		Reserve assets					Other investme	nt			
End of reporting period	Total	Total	Gold and gold receivables	Special drawing rights	Reserve position in the IMF	Currency, deposits and securities	Total	of which: Clearing accounts within the ESCB 1	Portfolio investment 2	External liabilities 3,4	Net external position (col. 1 minus col. 10)
	1	2	3	4	5	6	7	8	9	10	11
1999 Jan. 5	95,316	93,940	29,312	1,598	6,863	56,167	1,376	-	_	9,628	85,688
1999	141,958	93,039	32,287	1,948	6,383	52,420	48,919	26,275	-	7,830	134,128
2000	100,762	93,815	32,676	1,894	5,868	53,377	6,947	– 6,851	-	8,287	92,475
2001	76,147	93,215	35,005	2,032	6,689	49,489	– 17,068	– 30,857	-	10,477	65,670
2002	103,948	85,002	36,208	1,888	6,384	40,522	18,780	4,995	166	66,278	37,670
2003	95,394	76,680	36,533	1,540	6,069	32,538	18,259	4,474	454	83,329	12,065
2004	93,110	71,335	35,495	1,512	5,036	29,292	21,110	7,851	665	95,014	- 1,904
2005	130,268	86,181	47,924	1,601	2,948	33,708	43,184	29,886	902	115,377	14,891
2006	104,389	84,765	53,114	1,525	1,486	28,640	18,696	5,399	928	134,697	- 30,308
2007	179,492	92,545	62,433	1,469	949	27,694	84,420	71,046	2,527	176,569	2,923
2008	230,775	99,185	68,194	1,576	1,709	27,705	129,020	115,650	2,570	237,893	- 7,118
2009	323,286	125,541	83,939	13,263	2,705	25,634	190,288	177,935	7,458	247,645	75,641
2010	524,695	162,100	115,403	14,104	4,636	27,957	337,921	325,553	24,674	273,241	251,454
2011	714,662	184,603	132,874	14,118	8,178	29,433	475,994	463,311	54,065	333,730	380,932
2012	921,002	188,630	137,513	13,583	8,760	28,774	668,672	655,670	63,700	424,999	496,003
2013	721,741	143,753	94,876	12,837	7,961	28,080	523,153	510,201	54,834	401,524	320,217
2014	678,804	158,745	107,475	14,261	6,364	30,646	473,274	460,846	46,784	396,314	282,490
2015	800,709	159,532	105,792	15,185	5,132	33,423	596,638	584,210	44,539	481,787	318,921
2016	990,450	175,765	119,253	14,938	6,581	34,993	767,128	754,263	47,557	592,723	397,727
2017	1,142,845	166,842	117,347	13,987	4,294	31,215	923,765	906,941	52,238	668,673	474,172
2018	1,209,982	173,138	121,445	14,378	5,518	31,796	980,560	966,190	56,284	770,688	439,293
2019	1,160,971	199,295	146,562	14,642	6,051	32,039	909,645	895,219	52,031	673,626	487,345
2020	1,429,236	219,127	166,904	14,014	8,143	30,066	1,152,757	1,136,002	57,353	781,339	647,898
2018 May	1,198,995	171,469	120,871	14,287	4,172	32,139	973,323	956,150	54,203	656,505	542,490
June	1,213,511	167,078	116,291	14,245	4,983	31,559	991,577	976,266	54,857	701,011	512,500
July	1,147,878	163,308	112,693	14,131	4,881	31,603	930,107	913,270	54,463	666,323	481,554
Aug.	1,145,283	162,346	111,986	14,208	4,879	31,273	929,073	912,448	53,864	644,636	500,647
Sep.	1,189,175	161,078	110,755	14,236	4,889	31,199	973,380	956,487	54,717	686,368	502,807
Oct.	1,167,004	168,272	116,314	14,440	5,259	32,258	943,644	927,555	55,089	664,608	502,396
Nov.	1,184,703	168,198	116,409	14,405	5,244	32,140	960,478	941,130	56,026	674,449	510,254
Dec.	1,209,982	173,138	121,445	14,378	5,518	31,796	980,560	966,190	56,284	770,688	439,293
2019 Jan.	1,123,169	176,720	124,811	14,424	5,486	31,999	890,410	868,142	56,039	648,602	474,568
Feb.	1,127,455	178,016	125,793	14,496	5,510	32,217	894,226	872,698	55,214	634,080	493,375
Mar.	1,190,416	178,088	125,302	14,629	5,561	32,596	958,243	941,310	54,086	655,655	534,761
Apr.	1,167,188	177,378	124,046	14,622	6,228	32,482	935,563	919,696	54,247	627,265	539,923
May	1,186,394	180,073	126,092	14,637	6,150	33,193	952,038	934,640	54,283	618,780	567,614
June	1,201,041	187,401	134,470	14,473	6,081	32,377	960,158	942,319	53,482	649,898	551,143
July	1,134,349	193,244	139,163	14,613	6,391	33,077	888,584	870,903	52,521	622,006	512,343
Aug.	1,173,640	205,331	149,696	14,703	6,379	34,553	915,546	897,901	52,763	638,696	534,944
Sep.	1,185,142	202,285	147,611	14,831	6,396	33,447	930,892	915,342	51,965	626,128	559,014
Oct.	1,103,094	199,858	146,284	14,663	6,287	32,624	852,754	837,377	50,482	597,432	505,662
Nov.	1,134,129	197,047	143,253	14,799	6,116	32,879	885,524	870,520	51,558	591,913	542,217
Dec.	1,160,971	199,295	146,562	14,642	6,051	32,039	909,645	895,219	52,031	673,626	487,345
2020 Jan.	1,090,725	209,432	154,867	14,785	6,110	33,671	828,120	811,435	53,173	582,526	508,198
Feb.	1,106,033	215,748	159,889	14,857	5,989	35,014	836,782	821,562	53,503	577,841	528,192
Mar.	1,218,815	213,722	158,677	14,812	5,965	34,268	952,781	935,126	52,312	617,919	600,896
Apr.	1,214,851	226,903	170,359	14,935	6,857	34,753	934,333	918,814	53,615	616,319	598,532
May	1,209,328	223,125	167,780	14,650	6,787	33,908	931,521	916,145	54,682	612,403	596,925
June	1,294,167	226,135	170,728	14,603	6,955	33,849	1,012,982	995,083	55,050	618,825	675,342
July	1,323,691	233,547	180,400	14,179	7,465	31,503	1,034,282	1,019,214	55,862	599,189	724,503
Aug.	1,358,137	230,309	177,973	14,129	7,423	30,784	1,071,521	1,056,231	56,307	600,390	757,747
Sep.	1,414,933	227,150	173,979	14,293	7,632	31,246	1,131,686	1,115,189	56,097	649,781	765,151
Oct.	1,346,367	227,767	174,433	14,346	7,656	31,332	1,061,498	1,047,327	57,102	619,445	726,922
Nov.	1,347,202	212,286	159,737	14,193	7,535	30,820	1,078,270	1,060,263	56,647	625,921	721,282
Dec.	1,429,236	219,127	166,904	14,014	8,143	30,066	1,152,757	1,136,002	57,353	781,339	647,898

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

respective 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.

9. External positions of enterprises *

€ million

	€ million													
	Claims on n	on-residents						Liabilities to	non-resident	S				
			Claims on fo	oreign non-ba	ınks					Liabilities to	non-banks			
					from trade of	redits						from trade of	redits	
					Hom dade (rearis						nom dade (irearis	
End of reporting period	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
	Rest of t	he world												
2016 2017 2018 2019	877,815 897,685 929,542 947,344	246,093 218,669 234,581 225,353	631,722 679,016 694,961 721,991	421,163 453,895 463,631 489,939	210,558 225,121 231,330 232,052	196,385 211,461 217,163 216,675	14,173 13,660 14,167 15,377	1,055,685 1,107,500 1,210,748 1,257,797	132,817 142,473 143,373 162,100	922,868 965,027 1,067,374 1,095,697	725,655 764,104 860,496 888,066	197,213 200,923 206,878 207,630	124,628 130,887 135,879 134,394	72,585 70,036 70,999 73,236
2020 June	975,229	254,117	721,112	510,166	210,947	195,052	15,895	1,330,129	203,271	1,126,858	934,616	192,242	115,882	76,361
July Aug. Sep.	975,280 986,363 1,010,961	254,803 266,626 287,725	720,478 719,737 723,236	507,223 510,559 503,397	213,255 209,178 219,839	197,218 193,214 203,767	16,037 15,964 16,072	1,340,169 1,338,975 1,332,854	196,590 188,054 183,201	1,143,579 1,150,920 1,149,653	949,361 959,588 946,054	194,217 191,333 203,599	116,893 113,525 126,524	77,324 77,808 77,075
Oct. Nov.	1,007,939 1,044,153	271,800 272,440	736,139 771,713	507,639 538,864	228,499 232,849	212,649 216,272	15,851 16,577	1,343,150 1,386,545	173,306 176,489	1,169,843 1,210,056	957,633 993,980	212,210 216,076	132,723 136,626	79,488 79,450
	EU Mem	ber State	s (27 exc	l. GB)										
2016 2017 2018 2019	520,274 519,346 542,346 560,077	188,982 167,197 176,454 175,004	331,292 352,148 365,892 385,073	248,172 260,241 273,495 294,466	83,121 91,907 92,397 90,607	74,410 83,432 84,139 82,278	8,711 8,475 8,258 8,330	672,896 715,975 787,342 804,572	89,243 92,715 86,085 88,201	583,653 623,260 701,257 716,371	509,751 540,950 618,154 631,133	73,902 82,310 83,103 85,238	52,626 62,079 62,625 63,845	21,275 20,231 20,477 21,392
2020 June	585,834	195,133	390,701	304,935	85,766	77,265	8,501	859,671	118,270	741,401	662,197	79,204	56,279	22,926
July Aug. Sep.	583,436 591,126 618,732	191,914 203,358 221,907	391,522 387,768 396,826	306,807 305,361 307,654	84,714 82,407 89,172	75,983 73,692 80,387	8,731 8,715 8,785	874,183 874,563 860,614	110,177 109,859 97,792	764,006 764,705 762,821	684,264 687,362 679,006	79,743 77,343 83,815	56,675 54,281 60,791	23,067 23,061 23,024
Oct. Nov.	610,828 622,761	207,421 208,069	403,407 414,691	309,901 319,079	93,506 95,613	84,649 86,575	8,856 9,038	876,598 883,095	102,236 96,225	774,362 786,870	686,246 693,674	88,116 93,196	64,119 69,085	23,997 24,111
	Extra-EU	Membei	States (2	27 incl. G	B)									
2016 2017 2018 2019	357,541 378,339 387,196 387,267	57,112 51,472 58,127 50,349	300,429 326,867 329,068 336,918	172,992 193,654 190,135 195,473	127,438 133,214 138,933 141,444	121,976 128,029 133,024 134,397	5,462 5,185 5,909 7,047	382,789 391,525 423,406 453,224	43,574 49,758 57,288 73,899	339,215 341,767 366,117 379,326	215,904 223,154 242,342 256,933	123,311 118,613 123,776 122,392	72,002 68,809 73,254 70,549	51,310 49,804 50,522 51,843
2020 June	389,395	58,984	330,411	205,230	125,181	117,787	7,393	470,458	85,001	385,457	272,419	113,038	59,603	53,435
July Aug. Sep.	391,844 395,237 392,229	62,888 63,268 65,818	328,956 331,969 326,411	200,415 205,198 195,744	128,541 126,771 130,667	121,235 119,522 123,380	7,305 7,249 7,286	465,986 464,411 472,240	86,413 78,196 85,408	379,573 386,216 386,832	265,098 272,226 267,048	114,475 113,990 119,784	60,218 59,244 65,733	54,257 54,746 54,051
Oct. Nov.	397,111 421,393	64,379 64,371	332,732 357,022	197,738 219,785	134,994 137,237	128,000 129,697	6,994 7,540	466,551 503,450	71,070 80,264	395,481 423,186	271,387 300,306	124,094 122,880	68,604 67,541	55,490 55,338
	Euro are	a (19)												
2016 2017 2018 2019	450,914 451,219 466,584 484,879	171,302 150,346 156,425 156,743	279,612 300,873 310,159 328,135	214,911 228,761 238,570 257,791	64,701 72,112 71,588 70,344	57,972 64,643 64,391 62,945	6,729 7,469 7,197 7,399	613,595 650,641 723,072 733,299	70,202 75,398 68,499 68,393	543,393 575,243 654,573 664,906	487,188 509,470 588,121 597,241	56,204 65,773 66,452 67,664	41,334 50,395 50,655 50,955	14,870 15,378 15,797 16,710
2020 June	504,206	172,924	331,282	264,849	66,433	58,989	7,443	785,117	96,167	688,950	626,885	62,065	44,310	17,755
July Aug. Sep.	503,799 514,981 539,470	171,546 185,746 203,462	332,253 329,235 336,008	266,887 265,935 268,026	65,366 63,300 67,982	57,739 55,708 60,333	7,627 7,592 7,649	798,703 801,812 786,086	88,669 90,321 78,524	710,033 711,491 707,562	648,187 651,296 643,019	61,846 60,195 64,543	44,029 42,378 47,032	17,817 17,816 17,511
Oct. Nov.	529,802 536,018	188,516 184,449	341,287 351,569	270,262 278,837	71,024 72,732	63,298 64,955	7,726 7,777	799,680 802,962	82,612 76,691	717,067 726,271	650,271 655,761	66,796 70,510	48,997 52,635	17,799 17,875
	Extra-Eu	ro area (1	19)											
2016 2017 2018 2019	426,901 446,465 462,958 462,465	74,791 68,323 78,156 68,610	352,110 378,142 384,802 393,855	206,252 225,134 225,060 232,148	145,857 153,008 159,742 161,708	138,413 146,818 152,772 153,730	7,444 6,191 6,970 7,978	442,090 456,859 487,676 524,498	62,615 67,076 74,875 93,707	379,475 389,784 412,801 430,791	238,467 254,634 272,375 290,825	141,009 135,149 140,426 139,966	83,294 80,492 85,224 83,440	57,715 54,658 55,202 56,526
2020 June	471,023	81,193	389,830	245,316	144,514	136,062	8,451	545,011	107,104	437,907	307,730	130,177	71,572	58,605
July Aug. Sep.	471,482 471,382 471,491	83,257 80,881 84,262	388,225 390,502 387,229	240,336 244,624 235,371	147,889 145,878 151,857	139,480 137,506 143,435	8,409 8,371 8,423	541,466 537,163 546,768	107,921 97,734 104,676	433,545 439,430 442,092	301,174 308,292 303,036	132,371 131,138 139,056	72,864 71,147 79,492	59,507 59,991 59,564
Oct. Nov.	478,136 508,135	83,284 87,991	394,852 420,144	237,377 260,027	157,475 160,117	149,351 151,317	8,124 8,800	543,470 583,583	90,694 99,798	452,776 483,785	307,362 338,220	145,414 145,565	83,725 83,991	61,689 61,575

^{*} 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 XII.7.

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

EUR 1 = currency units ...

	Lore 1 - currency	u								
Yearly or monthly	Australia	Canada	China	Denmark	Japan	Norway	Sweden	Switzerland	United Kingdom	United States
average	AUD	CAD	CNY	DKK	JPY	NOK	SEK	CHF	GBP	USD
2009	1.7727	1.5850	9.5277	7.4462	130.34	8.7278	10.6191	1.5100	0.89094	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
2017	1.4732	1.4647	7.6290	7.4386	126.71	9.3270	9.6351	1.1117	0.87667	1.1297
2018	1.5797	1.5294	7.8081	7.4532	130.40	9.5975	10.2583	1.1550	0.88471	1.1810
2019	1.6109	1.4855	7.7355	7.4661	122.01	9.8511	10.5891	1.1124	0.87777	1.1195
2020	1.6549	1.5300	7.8747	7.4542	121.85	10.7228	10.4848	1.0705	0.88970	1.1422
2019 Aug.	1.6431	1.4768	7.8581	7.4602	118.18	9.9742	10.7356	1.0892	0.91554	1.1126
Sep.	1.6162	1.4578	7.8323	7.4634	118.24	9.9203	10.6968	1.0903	0.89092	1.1004
Oct.	1.6271	1.4581	7.8447	7.4693	119.51	10.1165	10.8023	1.0981	0.87539	1.1053
Nov.	1.6181	1.4630	7.7571	7.4720	120.34	10.1087	10.6497	1.0978	0.85761	1.1051
Dec.	1.6154	1.4640	7.7974	7.4720	121.24	10.0429	10.4827	1.0925	0.84731	1.1113
2020 Jan.	1.6189	1.4523	7.6832	7.4729	121.36	9.9384	10.5544	1.0765	0.84927	1.1100
Feb.	1.6356	1.4485	7.6302	7.4713	120.03	10.1327	10.5679	1.0648	0.84095	1.0905
Mar.	1.7788	1.5417	7.7675	7.4703	118.90	11.2943	10.8751	1.0591	0.89460	1.1063
Apr.	1.7271	1.5287	7.6858	7.4617	116.97	11.3365	10.8845	1.0545	0.87547	1.0862
May	1.6724	1.5219	7.7482	7.4577	116.87	10.9862	10.5970	1.0574	0.88685	1.0902
June	1.6322	1.5254	7.9734	7.4548	121.12	10.7298	10.4869	1.0712	0.89878	1.1255
July	1.6304	1.5481	8.0352	7.4467	122.38	10.6544	10.3538	1.0711	0.90467	1.1463
Aug.	1.6433	1.5654	8.1954	7.4460	125.40	10.5797	10.3087	1.0767	0.90081	1.1828
Sep.	1.6307	1.5586	8.0333	7.4418	124.50	10.7769	10.4279	1.0786	0.90947	1.1792
Oct.	1.6521	1.5559	7.9225	7.4424	123.89	10.9220	10.3967	1.0739	0.90741	1.1775
Nov.	1.6266	1.5472	7.8152	7.4459	123.61	10.7453	10.2311	1.0785	0.89605	1.1838
Dec.	1.6166	1.5595	7.9602	7.4412	126.28	10.6008	10.1736	1.0814	0.90624	1.2170

^{*} 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 Series Exchange rate statistics.

11. Euro area countries and irrevocable euro conversion rates in the third stage of 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

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

Q1 1999 = 100

	Effective evelor	one rate of the e	una viis à viis tha s	urranaiae af tha									
	Effective exchange rate of the euro vis-à-vis the currencies of the				i ·		Indicators of the German economy's price competitiveness						
	EER-19 1				EER-42 2						Based on consumer price indices vis-à-vis		
			In real terms	In real terms			26 selected industrial countries 4						
			based on the deflators	based on				of which:					
		In real terms based on	of gross	unit labour costs of		In real terms based on			Non-		26 selected		
Period	Nominal	consumer price indices	domestic product 3	national economy 3	Nominal	consumer price indices	Total	Euro area countries	euro area countries	37 countries 5	industrial countries 4	37 countries 5	60 countries 6
1999	96.3	96.1	96.0	96.1	96.5	95.9	97.9	99.5	95.9	97.7	98.2	98.1	97.8
2000	87.2	86.8	86.1	85.7	88.1	86.1	91.9	97.4	85.5	91.1	93.0	92.2	91.2
2001	87.6	87.1	86.7	86.7	90.2	86.9	91.7	96.5	86.1	90.5	92.9	91.6	91.0
2002 2003	89.9 100.5	90.2 101.4	89.8 101.0	90.4 101.7	94.5 106.4	90.5 101.5	92.4 95.9	95.6 94.7	88.6 97.7	91.1 95.3	93.4 97.0	92.1 96.6	91.9 96.8
2004	104.3	105.2	104.0	105.0	110.8	105.3	96.2	93.5	100.2	95.6	98.4	98.1	98.4
2005	102.9	103.9	102.0	103.3	109.0	102.9	94.8	91.9	99.0	93.3	98.4	97.1	96.8
2006	102.9	103.9	101.4	102.2	109.1	102.3	93.6	90.3	98.4	91.6	98.5	96.7	96.0
2007	106.4	106.9	103.6	104.5	112.7	104.5	94.5	89.5	102.2	92.0	100.9	98.2	97.4
2008 2009	110.2 111.7	109.8 110.6	105.9 107.0	108.9 114.6	117.4 120.5	106.9 108.0	94.9 95.2	88.3 89.1	105.3 104.8	91.3 92.0	102.3 101.9	98.4 98.5	97.6 98.0
2010	104.5	102.9	98.8	106.6	111.9	99.0	92.6	88.7	98.3	88.2	98.7	94.2	92.5
2011	104.3	102.0	96.9	105.0	112.7	98.6	92.2	88.5	97.7	87.4	98.2	93.4	91.9
2012	98.6	96.8	91.4	99.0	107.5	93.8	90.1	88.3	92.6	84.7	95.9	90.5	89.0
2013 2014	102.2 102.4	99.9 99.3	94.3 94.2	102.0 102.7	112.2 114.6	96.8 97.2	92.4 93.0	88.8 89.6	97.6 97.8	86.7 87.4	98.2 98.2	92.3 92.5	90.9 91.5
2015	92.6	89.6	85.8	92.4	106.1	88.7	89.8	90.3	89.0	83.6	94.4	87.8	87.0
2015	95.3	91.6	88.0		110.1	90.7	90.6	90.3	90.5	84.9	95.1	88.8	88.2
2017	97.5	93.5	89.1		112.4	91.9	91.8	90.7	93.2	85.6	96.4	89.9	89.0
2018	100.0	95.7	90.5		117.3	95.1	92.8	90.7	96.0	86.4	97.7	91.1	90.9
2019	98.2	93.3	88.7	p 93.1	115.5	92.4	91.9	91.0	93.2	85.6	96.4	89.9	89.5
2020	99.7	l			119.4						1		
2018 July Aug.	100.2 99.9	96.0 95.5	90.4	p 96.1	117.4 117.8	95.2 95.4	92.7	90.6	95.6	86.4	97.4 97.3	91.1 91.0	90.8 91.0
Sep.	100.4	96.0]	. 50	119.1	96.4	32	30.0	35.0	00.1	97.7	91.5	91.8
Oct.	99.7	95.5			117.8	95.3					97.3	91.1	91.1
Nov.	99.2	95.0	89.9	p 94.9	116.8	94.5	92.5	91.0	94.8	86.3	97.3	91.0	90.8
Dec.	99.3	94.8			117.0	94.3					97.2	90.8	90.6
2019 Jan. Feb.	98.8 98.4	94.3 93.8	88.8	p 93.5	116.3 115.6	93.7 93.1	92.0	90.7	93.8	85.5	96.8 96.7	90.4 90.1	90.1 89.7
Mar.	97.9	93.2	00.0	33.3	115.2	92.5	32.0	30.7	33.0	05.5	96.4	89.7	89.4
Apr.	97.7	93.0			115.0	92.3					96.5	89.8	89.4
May	98.2	93.4	88.5	p 93.2	115.7	92.8	92.0	90.9	93.5	85.5	96.6	90.1	89.7
June	98.8	93.9			116.2	93.1					96.8	90.2	89.9
July	98.4	93.4	00.0	n 03.5	115.4	92.3	02.0	01.3	02.4	05.7	96.7	90.1	89.5
Aug. Sep.	98.9 98.2	93.9 93.1	88.9	p 93.5	116.2 115.3	93.0 92.1	92.0	91.2	93.1	85.7	96.5 96.2	90.2 89.9	89.8 89.3
Oct.	98.1	92.9			115.3	91.9					96.2	89.8	89.2
Nov.	97.5	92.2	88.4	p 92.2	114.6	91.3	91.7	91.3	92.3	85.5	96.0	89.4	88.9
Dec.	97.4	92.1			114.7	91.1					95.9	89.4	88.8
2020 Jan.	97.0	91.4			114.2	90.5					95.9	89.1	88.4
Feb. Mar.	96.3 99.0	90.7 93.1	88.0	p 92.9	113.5 117.8	89.9 p 93.2	91.4	91.3	91.5	85.3	95.6 96.6	88.8 90.2	88.2 p 90.2
	98.2	l											
Apr. May	98.4	92.6 92.8	88.6	p 93.9	117.5 117.6	p 93.0	91.3	91.2	91.3	85.7	96.3 96.2	90.1 90.1	
June	99.8	94.0			119.1	p 94.1					96.9	90.7	
July	100.5	94.6			120.3						96.0	89.9	
Aug.	101.6	95.1	90.0	p 94.0	122.4		p 92.4	p 91.2	93.9	p 86.6	97.0	90.7	
Sep.	101.6	95.0			122.5						96.8	90.6	
Oct. Nov.	101.4 100.7				122.4 121.6						96.6 p 96.6		
Dec.	101.9				123.0						p 97.2		

^{*} 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. A decline in the figures implies an increase in competitiveness. The weights are based on trade in manufactured goods and services. For more detailed information on methodology and weighting scale, see the website of the Deutsche Bundesbank (https://www.bundesbank.de/content/796162).

1 ECB calculations are based on the weighted averages of the changes in the bilateral exchange rates of the euro vis-à-vis the currencies of the following countries: Australia, Bulgaria, Canada, China, Croatia, Czechia, Denmark, Hong Kong, Hungary, Japan, Norway, Poland, Romania, Singapore, South Korea, Sweden, Switzerland, the United Kingdom and the United States. Where current price and wage indices were not avai-

lable, estimates were used. **2** ECB calculations. Includes countries belonging to the group EER-19 and additionally Algeria, Argentina, Brazil, Chile, Colombia, Iceland, India, Indonesia, Israel, Malaysia, Mexico, Morocco, New Zealand, Peru, Philippines, the Russian Federation, Saudi Arabia, South Africa, Taiwan, Thailand, Turkey, Ukraine and the United Arab Emirates. **3** Annual and quarterly averages. **4** 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 Lithuania) as well as Canada, Denmark, Japan, Norway, Sweden, Switzerland, the United Kingdom and the United States. **5** Euro area countries (current composition) and countries belonging to the group EER-19. **6** Euro area countries (current composition) and countries belonging to the group EER-42.

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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 printed publications are available free of charge to interested parties and may be obtained through the Bundesbank's order portal. Up-to-date figures for selected statistical datasets are available on the Bundesbank's website. In addition, the new Statistical Series provide a new basic structure and advanced options for using data and are also available on the Bundesbank's website.

Annual Report

■ Financial Stability Review

Monthly Report

A list of the articles published in the period from 2010 to 2020 is available on the Bundesbank's website.

Monthly Report articles

February 2020

The current economic situation in Germany

March 2020

- German balance of payments in 2019
- Households' digital purchases in the balance of payments
- New benchmark rates, new challenges: introducing the €STR in the euro area

April 2020

 Sectoral portfolio adjustments in the euro area during the low interest rate period The EU budget and its financing: looking back and ahead

May 2020

- The current economic situation in Germany

June 2020

- Outlook for the German economy for 2020 to 2022
- Cash withdrawals and payments in urban and rural areas

July 2020

- The German current account surplus through the lens of macroeconomic models
- Cash hoarding by German households how much cash do they store and why?

August 2020

- The current economic situation in Germany

September 2020

- The impact of monetary policy on the euro's exchange rate
- Global financial interconnectedness and spillovers between the G20 countries
- The performance of German credit institutions in 2019

October 2020

- Developments in the German banking system during the negative interest rate policy period
- Patterns of international business cycles
- The protracted rise in residential property prices in Germany from a macroeconomic perspective: transmission channels and fundamental determinants
- State government budgets: results for 2019

November 2020

- The current economic situation in Germany

December 2020

- Outlook for the German economy for 2021 to 2023
- The informative value of national fiscal indicators in respect of debt at the European level
- Risk Reduction Act the national implementation of the European banking package
- German enterprises' profitability and financing in 2019

January 2021

- The slowdown in euro area productivity growth
- Methodology and analytical options for the expanded statistics on banking groups' securities holdings
- The two-tier system for reserve remuneration and its impact on banks and financial markets

Statistical Series*

Banks

- Banking statistics, monthly
- Statistics on payments and securities trading,
 September

Corporate financial statements

- Consolidated financial statement statistics,
 June/December
- Financial statement statistics (extrapolated results), December
- Financial statement statistics (ratios), May
- Financial statement statistics (ratios provisional data), May

Economic activity and prices

 Seasonally adjusted business statistics, monthly

Exchange rates

Exchange rate statistics, monthly

External sector

- Balance of payments statistics, monthly
- Direct investment statistics, April
- International investment position and external debt, monthly

Macroeconomic accounting systems

- Financial accounts, June

Money and capital markets

- Capital market indicators, monthly
- Investment funds statistics, monthly
- Securities issues statistics, monthly

Special Statistical Publications

- 1 Banking statistics guidelines, July 2020²
- 2 Banking statistics, customer classification, July 2020²

3 Aufbau der bankstatistischen Tabellen, July 2013^{1,2}

51/2020

Classification of monetary and fiscal dominance regimes using machine learning techniques

7 Notes on the coding list for the balance of payments statistics, September 2013

52/2020

Anticipation effects of protectionist U.S. trade policies

Special Publications

53/2020

Makro-ökonometrisches Mehr-Länder-Modell, November 1996¹ Real effects of foreign exchange risk migration: Evidence from matched firm-bank microdata

Europäische Organisationen und Gremien im Bereich von Währung und Wirtschaft, May 1997¹ 54/2020

Sovereign risk and bank fragility

Die Zahlungsbilanz der ehemaligen DDR 1975 bis 1989, August 1999¹

55/2020

A random forest-based approach to identifying the most informative seasonality tests

The market for German Federal securities, May 2000 56/2020

Bank capital forbearance and serial gambling

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

57/2020

Demographic change and the rate of return in PAYG pension systems

Bundesbank Act, September 2002

58/2020

Die Europäische Union: Grundlagen und Politikbereiche außerhalb der Wirtschafts- und Währungsunion, April 2005¹ Performance of maturity transformation strategies

Die Deutsche Bundesbank – Aufgabenfelder,

59/2020

Hampered interest rate pass-through – A supply side story?

European economic and monetary union, April 2008

rechtlicher Rahmen, Geschichte, April 2006¹

60/2020

Global oil prices and the macroeconomy: The role of tradeable manufacturing versus non-tradeable services

Weltweite Organisationen und Gremien im Bereich von Währung und Wirtschaft, March 2013¹

61/2020

Monetary policy, firm exit and productivity

Discussion Papers°

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50/2020

GMM weighting matrices in cross-sectional asset pricing tests

Interest rate pegs and the reversal puzzle: On the role of anticipation

For footnotes, see p. 88°.

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Buried in the vaults of central banks – Monetary gold hoarding and the slide into the Great Depression

64/2020

Demographic change and the German current account surplus

65/2020

US business cycle dynamics at the zero lower bound

66/2020

"The devil is in the details, but so is salvation" – Different approaches in money market measurement

67/2020

Global value chain participation and exchange rate pass-through

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 Gesetz über das Kreditwesen, January 2008¹
- 2a Solvency Regulation and Liquidity Regulation, February 2008²

^{*} The Statistical Series replace the Statistical Supplements and, in part, the Special Statistical Publications; they will be provided exclusively on the Bundesbank's website under Publications/Statistics.

o Discussion papers published from 2000 are available on-

¹ Publication available in German only.

² Available only as a download.