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European Financial Integration and Monetary Policy

Public lecture at the International Center for Monetary and Banking Studies in Geneva on 7 June 2005



European (Financial) Integration and Monetary Policy

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A European financial integration

I Definition and impact of financial integration
II State of European financial integration
III Monetary policy implications

B Heterogeneity in the euro area

- I Output growth dispersion
- **II** The degree of inflation heterogeneity in EMU
- **III** Inflation heterogeneity Determinants
- **IV** Real interest rate effect versus real exchange rate effect



A Financial Integration

I Definition and impact of financial integration

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Potential market participants with the same relevant characteristics

(1) face a single set of rules,

(2) have equal access to markets and

(3) are treated equally



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I State of European financial integration

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- (a) Financial market were deregulated and cross-border capital movements were liberalised during the 1980s and 1990s
 → changes in the level and pattern of cross-border capital flows
- (b) Introduction of the euro
 - \rightarrow Increase in transparency
- (c) Technological progress
- (d) Several directives aimed at enhancing transparency, promoting competition and creating a level playing field in the market for financial services have come into effect (eg IAS, Basel II, FSAP)



Indicators of financial integration:

- **1** Regulatory and economic barriers
- 2 Price-based or yield-based measures
- **3** Quantity measures

Cross-sectional standard deviation of average overnight lending rates among Euro-area countries (30-day moving average, basis points).



The money market is almost completely integrated





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State of financial integration: The equity market OBUNDESBANK

Hodrick-Prescott-filtered country, global EMU sector, and country-sector dispersions in monthly returns



In the equity markets, integration is a slow and laborious process of overcoming fragmentation

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- Better use of capital markets
- Greater informational efficiency of financial markets owing to increased transparency
- Improved financing possibilities owing to innovative instruments
- More risk-sensitive pricing of loans
- Increasing competition among banks and between banks and direct financing



II Monetary policy implications

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Increased capital market orientation could influence the transmission of monetary policy:

- (1) Volatility of transmission might be increased
- (2) Asset prices are assuming greater importance

 \rightarrow Extracting the signals from monetary developments regarding the risks to price stability is becoming more challenging

(3) Interest rate pass-through might converge in euro-area countries



B Heterogeneity in the euro areaI Output growth dispersion

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Output growth dispersion – Historical perspective



Chart A Dispersion of real GDP growth rates (annual averages) across the euro area countries

(percentage points) ^{1]}



Sources: European Commission and ECB calculations. 1) Unweighted standard deviation. Before 1991, Germany refers to West Germany. •Since the 1970s the unweighted standard deviation has fluctuated, on average, around a level of 2.0 percentage points.

•Last year dispersion fell to around 1.4 percentage points

→ Output growth divergence across euro-area countries is not extraordinarily high in a historical perspective

Output growth dispersion – International comparison

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EMU

United States





Source: ECB

Unweighted standard deviation. Gross State Product. Source: BEA. Data for 1999 until 2003 based on real chained 2000 USD, NAICS classification, 81 industries. Data for 1978 until 1997 based on quantity indexes for real gdp, 2000=100, 63 SIC Classification, 63 industries.

Regions: New England, Mideast, Great Lakes, Plains, Southeast, Southwest, Rocky Mountain, Far West

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II The degree of inflation heterogeneity in EMU

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Inflation heterogeneity in the euro area and in the US (unweighted standard deviation)



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III Inflation heterogeneity – Determinants

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Determinants of inflation heterogeneity – Overview



(1) Structural differences

(2) Temporarily different rates of inflation after shocks (Phillips curve)



(a) Asymmetric reaction to (symmetric) shocks

(b) Asymmetric shocks

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The link between inflation heterogeneity and inflation persistence

Inflation Degree of **persistence** Country A Shock to inflation Structural inflation rates Time Inflation **heterogeneity** between country A and country B Time

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- (1) Composition effect: Differences in consumption patterns and weights of national inflation indices
- \rightarrow Impact is slight due to the high level of harmonisation of national consumption structures and therefore of HICP data
- (2) Balassa-Samuelson-Effect
- → Inflation differentials depend on differences in the national relation of productivity growth between tradable and nontradable sector
- \rightarrow Inflation as a result of inter-sectoral adjustments in a country

Structural inflation rates implied by Balassa-Samuelson effect, average of seven selected studies



But: empirical studies show that Balassa-Samuelson can account for only part of the observed inflation differentials

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(a) Different regional reactions to euro-area-wide symmetric supply shocks

Examples:

- Oil price shocks at different degrees of oil dependency*
- Exchange rate changes at different pass-through patterns which depend on
 - openness towards trading partners outside the euro area
 - geographical trade structure
 - commodity composition of non-euro-area imports





(b) Regionally different development of transitory factors (asymmetric shocks)

I Differences in one-off domestic policy measures

II Different business cycle developments

Inflation heterogeneity and output growth differentials



- Inflation differentials not very high
- Inflation differentials result from structural and temporary factors
- Temporary factors are going to vanish
- \rightarrow Diminishing effect on real interest rate differentials and output growth dispersion in the long run
- Structural inflation differentials are of longer-term nature
- \rightarrow Lasting effect on real interest rate differentials and output growth dispersion in the long run
- \rightarrow but: they are not very high (as already shown)



IV Real interest rate effect versus real exchange rate effect





 different inflation rates appear to imply different real interest rates and therefore different stimulating effects because nominal interest rates have largely converged

 But: Countries with lower inflation rates – which might suffer from a slightly higher real interest rate – may gain competitiveness due to a real deprecitation

=> real exchange rate effect may compensate the real interest effect, especially because it accumulates over time

Short term real interest rates in Germany and Italy (ex post; based on 3-month-EURIBOR)



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Example of dampening effect through real depreciation: Germany



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Real interest rate effect versus real exchange rate effect – Italian economy's price competitiveness



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• Existing output growth differences largely appear to reflect structural factors

Cannot be resolved by the ECB's single monetary policy

 Persistently underperforming growth rates must be addressed by suitable structural reforms by national authorities

•Such reforms would not only contribute to raising potential growth rates and smoothing growth differentials but would also facilitate the communication and implementation of the single monetary policy

•There is less research on output growth divergence than on inflation differentials \rightarrow gap should be closed



The End