

Determinants of growth and the role of structural reforms and macroeconomic policies in Europe

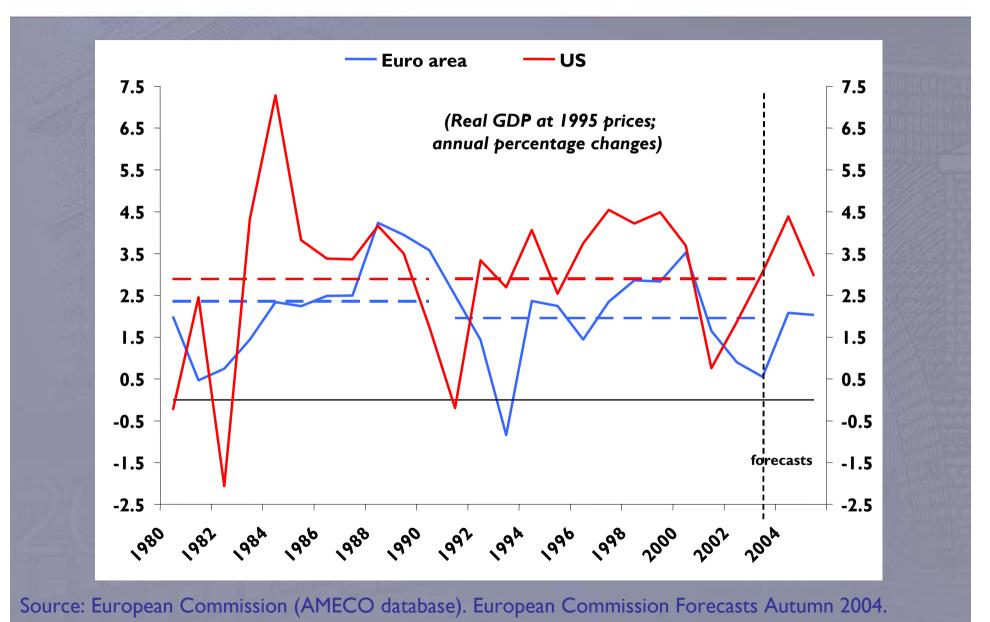
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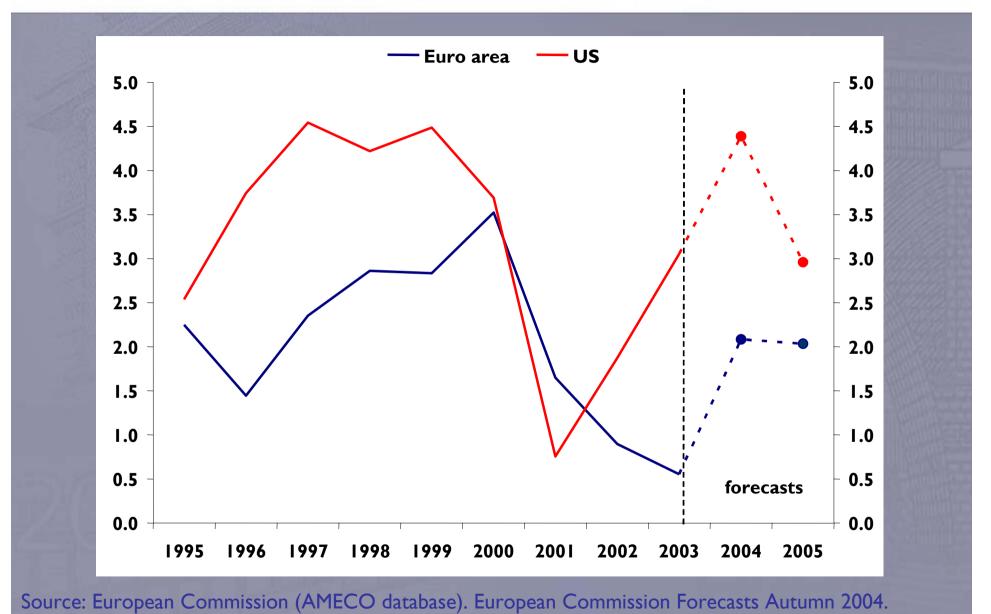
Brussels, 9 December 2004

Slide I: The gap in real GDP growth between the United States and the euro area



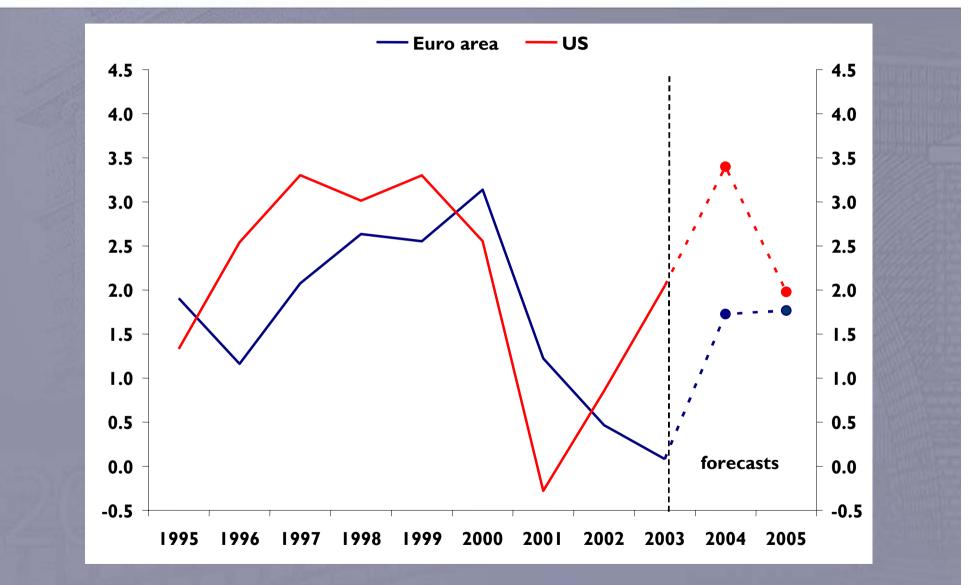
Slide 2: The gap in real GDP growth has been widening ...

(real GDP at 1995 prices, annual percentage changes)



Slide 3: Per capita real GDP growth in the euro area and the US

(real GDP at 1995 prices per capita, annual percentage changes)



Source: European Commission (AMECO database). European Commission Forecasts Autumn 2004.

Slide 4: Decomposition of real GDP growth in the euro area and the United States, 1996 - 2003

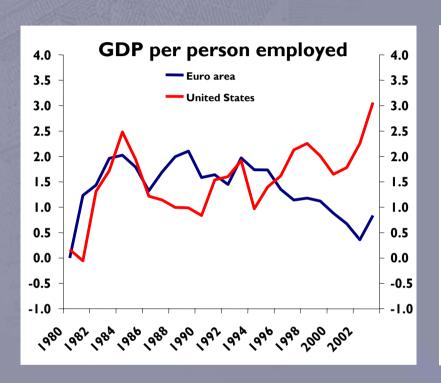
Percentage changes and percentage points per annum

	GDP	GDP per hour worked	Labour utilisation	Total Population
	sum (a) to (c)	(a)	(b)	(c)
Euro area	2.0	1.3	0.4	0.3
United States	3.3	2.3	-0.4	1.3

Source: European Commission (AMECO database), OECD (Economic Outlook database) and ECB calculations.

Note: Figures may not add up due to rounding.

Slide 5: Turnaround in labour productivity performance between the euro area and the US since the mid-1990s





Source: European Commission (AMECO database), OECD (Economic Outlook database) and ECB calculations. Data shown are three-year centred moving averages.

Slide 6: Decomposition of labour utilisation growth in the euro area and the United States (1996 – 2003)

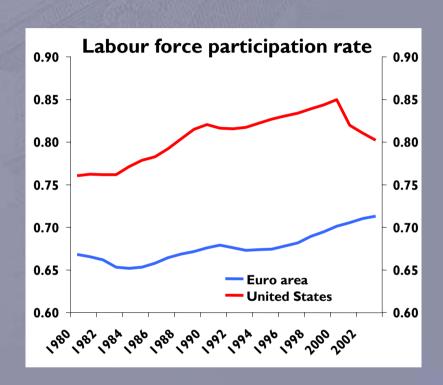
percentage changes and percentage points per annum

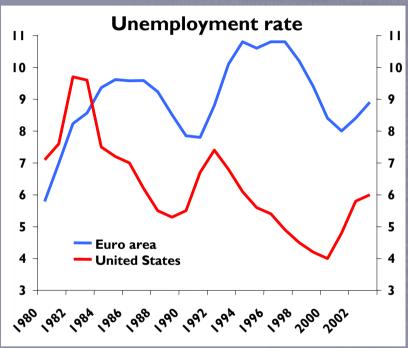
	Labour utilisation	Labour force participation rate	Unem- ployment rate	Average hours worked per person employed	Share of working age population in total population
	sum (a) to (d)	(a)	(b)	(c)	(d)
Euro area	0.4	0.7	0.2	-0.4	-0.1
United States	-0.4	-0.4	0.0	-0.2	0.3

Source: European Commission (AMECO database), OECD (Economic Outlook database) and ECB calculations.

Note: Figures may not add up due to rounding. Positive contributions from unemployment reflect a decline in unemployment rate.

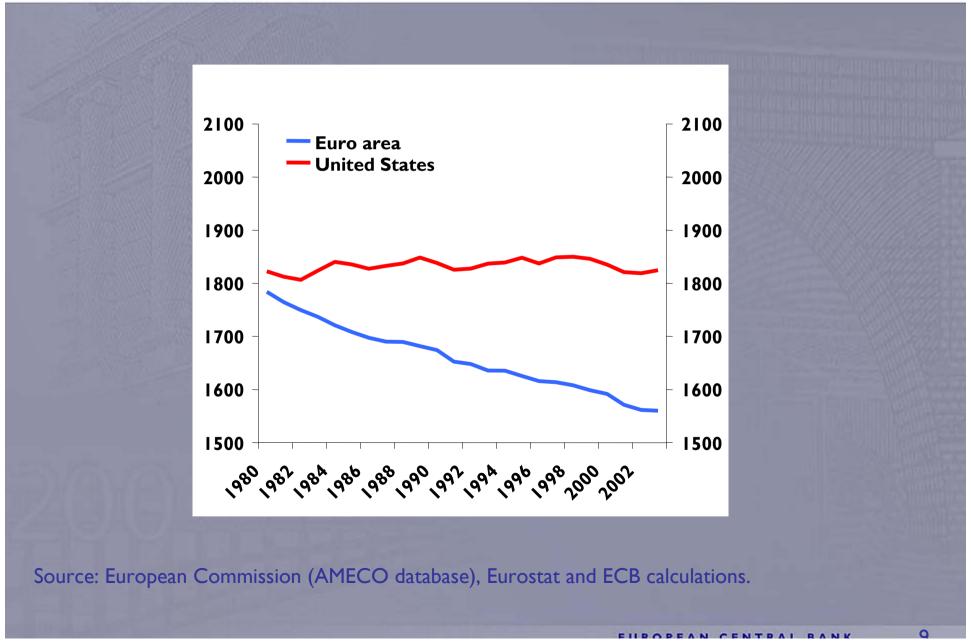
Slide 7: Labour utilisation determinants (I): participation and unemployment rates



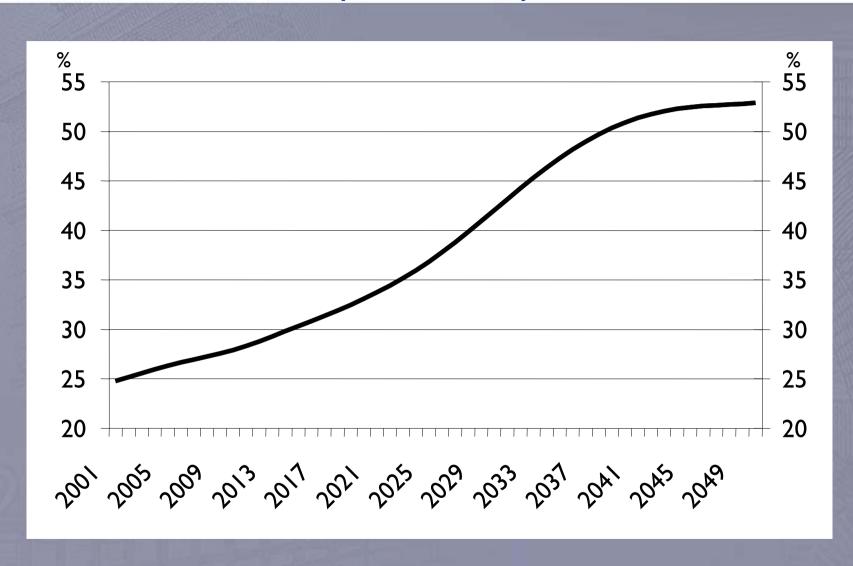


Source: European Commission (AMECO database). Participation calculated as total labour force (employment and unemployment) over working age population.

Slide 8: Labour utilisation determinants (II): average hours worked



Slide 9: Old age dependency ratio in the euro area (2001 – 2050)



Source: United-Nations estimates- medium scenario.

Slide 10: Employment rates by age group and gender (2000)

euro area			United States				
	Male	Female	Total		Male	Female	Total
15-24	42	36	40	15-24	62	58	60
25-54	87	65	76	25-54	89	74	81
55-64	47	27	37	55-64	66	50	58
15-64	73	53	63	15-64	81	68	74

Source: OECD

Slide II: Structural hourly labour productivity level – relative to the US level (2002)

Selected EU countries / euro area / EU weighted average

	Observed hourly productivity level relative to	Effect (in %)	of the gap with	Structural hourly productivity level relative to
Country	the US level	the	e US	the US level
			In the	
		in hours	employment	
	(a)	worked (b)	rate (c)	(a) - (b) - (c)
United States	100.0	0.0	0.0	100.0
Belgium	106.3	4.9	8.5	92.8
Germany	91.7	7.2	4.6	80.0
Greece	64.2	-2.3	10.4	56. l
Spain	73.6	0.2	8.6	64.9
France	106.6	5.2	7.5	93.9
Ireland	103.6	2.8	4.8	96.0
Italy	91.8	3.8	11.3	76.7
Netherlands	100.2	9.2	-0.9	91.9
Portugal	52.6	1.9	2.6	48.2
Euro area	92.4	4.8	7.0	80.7
United Kingdom	78.6	2.1	-0.6	77.0
EU weighted average	89.9	4.3	5.6	80.0

Source: Eurostat and Banque de France.

Slide 12: Sectoral labour productivity growth per head

Annual average growth rate

	Pro	ductivity	GDP shares			
Sectors	1990-1995		1995-2000		2000	
	EU	US	EU	US	EU	US
Total Economy	1.9	1.1	1.4	2.5	100.0	100.0
ICT Producing	6.7	8. I	8.7	10.1	5.9	7.3
ICT Using	1.7	1.5	1.6	4.7	27.0	30.6
Non-ICT	1.6	0.2	0.7	0.5	67.I	62.I

Source: Van Ark et al.

Slide 13: Labour productivity by sector in the euro area and the United States (1986-1995 and 1996-2000)

per person employed; percentage change per annum

	Euro	area	United States		
	1986-1995	1996-2000	1986-1995	1996-2000	
Manufacturing of which:	2.8	2.7	3.2	5.6	
High-technology industries	3.1	3.6	5.1	11.1	
Utilities	3.3	6.9	3	2.4	
Business sector services of which:	1.8	0.5	1.3	7.6	
Wholesale and retail trade	1.8	0.5	1.3	7.6	
Telecommunication	5.2	13.8	3.9	4.6	
Finance and Insurance	1.6	3.7	1.2	6.5	

Source: OECD (STAN database) and ECB calculations. See ECB Monthly Bulletin article of July 2004 on "Labour productivity developments in the euro area: aggregate trends and sectoral patterns".

Slide 14: Educational attainment of the population aged 25-64 (2000, in percent)

	Below upper secondary	Upper secondary and	Tertiary	
<u> </u>	<u> </u>	post secondary		
Belgium	41.5	31.4	27. I	
Germany	17.4	59.4	23.2	
Greece	48.6	33.6	17.8	
Spain	59.7	16.2	23.6	
France	36.1	40.6	23.0	
Ireland	42.4	22.0	35.6	
Italy	56.7	33.2	10.0	
Luxembourg	47.3	34.6	18.1	
Netherlands	45.0	32.0	22.2	
Austria	24.3	61.8	13.9	
Portugal	80.I	10.8	9.0	
Finland	26.2	41.5	32.3	
Euro area	39.7	39.8	20.4	
Denmark	19.8	53.7	26.5	
Sweden	19.4	49.0	31.6	
United Kingdom	37.1	36.9	26.1	
EU15	38.9	37.3	23.8	
USA	12.3	50.3	37.3	

Source: OECD.

Slide 15: Investment in Research & Development (2003)

