Economic approach to the analysis of the labour market

- 1. Individuation of relevant trends in labour market performance
- Definition of theoretical models focusing on the relevant variables and their causal relations
- 3. Testing of theoretical models using econometric methods
- 4. If models are validated, use their predictive capacity to simulate likely effects of economic policies and future trends and to evaluate effectiveness of policies

ELM- Part 1 Labour market trends in the EU

References

European Commission (2005) Employment in Europe 2005, Brussels: executive summary and chapter 1

http://europa.eu.int/comm/employment_a nalysis/employ_2005_en.htm

INDICATORS OF LABOUR MARKET PERFORMANCE: STOCKS AND LEVELS

- PARTICIPATION OR ACTIVITY RATE (AR) = labour force/working age population. Share of working age population participating of the labour market either because employed or searching for a job
- EMPLOYMENT RATE (ER) =employed/working age population
- UNEMPLOYMENT RATE (UR) = unemployed/labour force

INDICATORS OF LABOUR MARKET PERFORMANCE: FLOWS

- Flows in and out of unemployment consent to measure average unemployment duration: D_u= U/I
- Flows in and out of employment consent to measure labour mobility and job and worker turnover
- Flows in and out of the labour force consent to understand labour participation and its relation to the economic cycle

INDICATORS OF LABOUR MARKET PERFORMANCE: WAGES and PRODUCTIVITY

- Wages measure the price of labour services.
- Labour costs are the costs incurred by firms when employing labour: they include hourly wages,fringe benefits, social security contributions and training,recruiting, firing costs.
- Labour productivity measures the contribution of labour to output, given the other production factors
- In economics the relevant variables are the real wage (W/P), unit labour costs (LC/Q), labour marginal productivity (dQ/dL) and average productivity (Q/L)

2004	EU25	EU15	US
Population (millions)	457	383	293
GDP (in 1000 million PPS current prices)	10213	9316	10164
Employment rate	63.3	64.7	71.2
Partecipation rate	69.7	70.6	75.4
Unemployment rate	9.0	8.1	5.5

_				
_				
_				
_				
_				
_				
_				
_				
_				

Economic trends EU and US

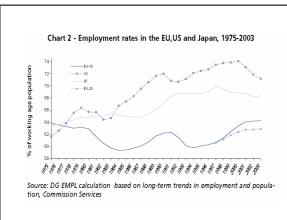
(annual average percentage changes)

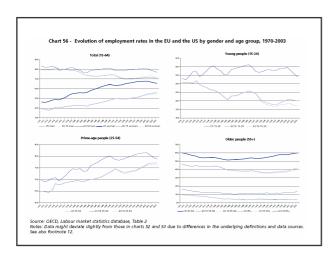
	1991-1996		1997	7-2002
	EU15	US	EU15	US
GDP	1.5	3.2	2.4	3.0
Employment	-0.3	1.7	1.4	1.0
Hourly productivity	2.2	1.4	1.5	2.2

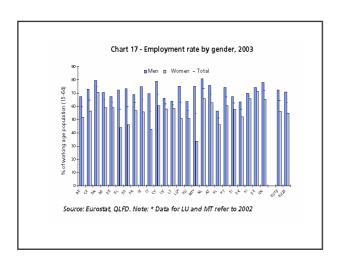
Source:Tabellini-Wyplosz from Kok report of the Employment task force, nov.2003

Employment trends in the EU (1)

- Employment Rate (ER) at 63,3% lower than in other non EC countries, but increasing: + 15 million jobs (+8,2%) between 1995 and 2004, increases especially among older workers and women.
- However persisting segmentation of labour markets: ER are 70.9% for men, but only 55,7% for women, 36,8% for young people (15-24) and 41,0% for older people (55-64)
- Large territorial differences across and within countries: ER from 75,7% in Denmark to 57,6% in Italy and 51,7% in Poland
- Increasing share of temporary and part time employment (14% and 18% of total employment respectively) especially among women, young and older workers

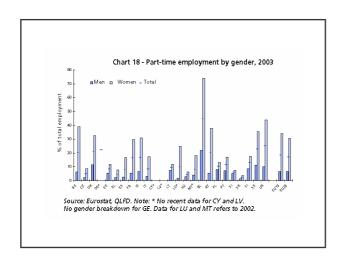






Employment trends in the EU (2)

- Increase in employment was in part due to increase in nonstandard employment especially in the 1997-2000 (slow down in the 2000-2004).
- In 2004 part time reached in EU25 17,7% of total (19,4% EU15), temporary work 13,7% (13,6%) and self-employment 15,9% (14,9%).
- Part-time and temporary jobs are mainly taken up by women, young and older people:
- ➤ One third of women are employed part-time and 14,3% with temporary jobs
- > 23% of young and 21% of older people work part-time; 38% of young people with temporary contracts
- > Transition rates from temporary to permanent contracts are higher for prime-age men and the more skilled or educated.



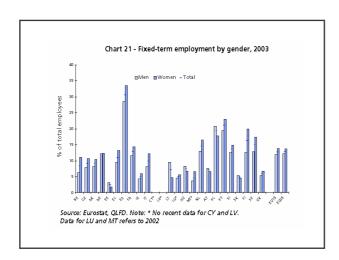
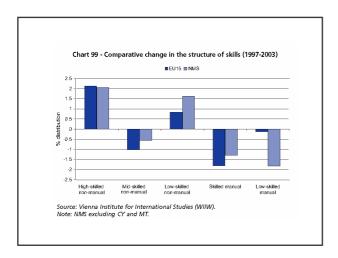


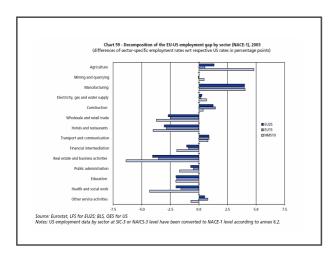
Table 8 - Relative employment changes 1997-2000 and 2000-2003 by age group, gender and type of employment					
	Relative change in employment between 1997 and 2000 (as % of 1997 employment level)	Relative change in employment between 2000 and 2003 (as % o 2000 employment leve			
By age group					
15-24	5.7	-0.2			
25-54	6.0	2.0			
55-64	4.9	13.9			
65+	3.0	12.1			
By gender					
Women	7.4	4.9			
Men	4.7	1.7			
By permanent or fixed- term employment					
Permanent	5.5	4.4			
Fixed-term	18.8	-2.7			
By employment status					
Employee	7.2	3.2			
Self Employed	0.1	3.6			
Total					
	5.8	3.1			

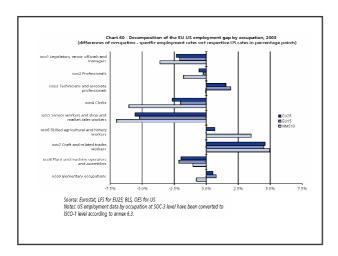
Source: Eurostat, LFS; Note: estimates based on LFS, spring results

Employment trends in the EU (3)

- Increase in the share of *non manual occupations* high and low skilled, in the last 6 years.
- High skilled occupations, accounted for over 60% of jobs created between 1995 and 2000, and their share on working age population increased from 15% to 18,5% in 2003 (EU25).
- The employment rate of those who completed tertiary education was 82,5% relative to 68,4% for those with upper secondary and only 46,6% for those with less than upper secondary (EU25). The quality of jobs is better for the higher educated.
- 60% of jobs created between 1995 and 2000 were in health care, education and social services (4 million jobs), business services (2,5 million jobs) and the computer and related sector (1 million jobs).
- However still differences in the employment structure relative to the US. In the EU less role of services and of high skilled employment.



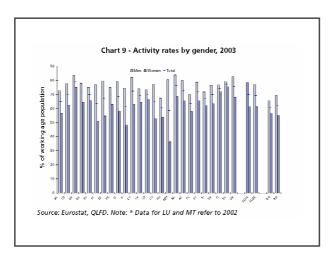




Labour market participation

- · Positive employment trends have activated participation, among
- women and older people.

 Overall AR rose from 67.7% in 1997 to 69,7% in 2004 (70,6% in EU15). But still much lower than in the US and still some 92 million people in working age were inactive in 2004
- In the EU25, women participation rates increased from 58.1% in 1997 to 62% in 2004 (62,5% EU15). Participation rate of older people from 39,1% in 1995 to 44,6% in 2003 (EU15, 43,1% EU25).
- Participation rates for young people stable at 47%
- Inactivity especially <u>large among the low skilled and women</u>: over half of the inactive are low skilled. One third are young people in education/training, 1/5 is on retirement, 16% is inactive for family or personal responsibilities, 13% for illness/disability and 4,5% due to discouragment effects.
- Strong correlation between inactivity and unemployment (female participation rate related positively to male unemployment rate and negatively with female unemployment rate)



Unemployment

• Unemployment is slowly falling, but still more than 19,4 million individuals were unemployed in 2004, with the *unemployment* rate at 9.0% in the EU25.

• "OLD" PROBLEMS:

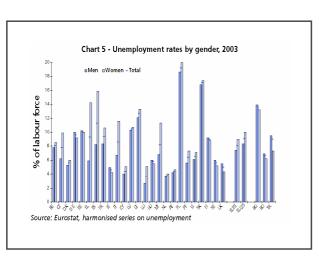
- UR for adult men is relatively low (8,1%) and stable over time, while higher and cyclical in the case of women (10.2%), young people (18.7%) and the low educated (12.2% relative to 4.9% for the high educated) and in some territorial areas.
- high unemployment is usually associated with long-term unemployment, suggesting that unemployment and labour market/social exclusion might be positively correlated.
- Long-term unemployment is a primary concern for women, older workers and the low-educated.

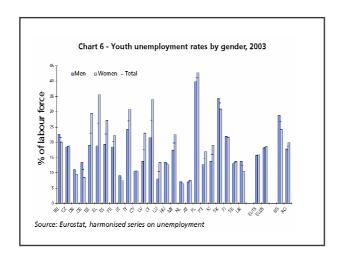
and "NEW" PROBLEMS:

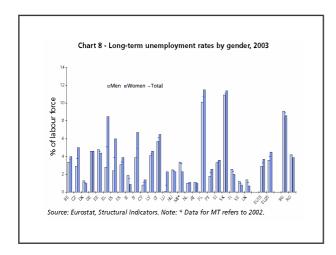
1) Ageing of EU population \rightarrow reforms of pensions and welfare systems

Impact on <u>older workers</u>: incentives to retire and low activty rates, but need to retain and retrain → there might be **increasing U rates for the elderly** (and present low levels of participaton might hide it)

- 2) (Skill-biased) technological progress \rightarrow changing skill demand and skill gaps \rightarrow higher risk of unemployment for the low-educated
- 3) **Increasing net migration flows**: do migrants substitute or complement native workers? No clear pattern between national unemployment rates and incidence of foreign population.



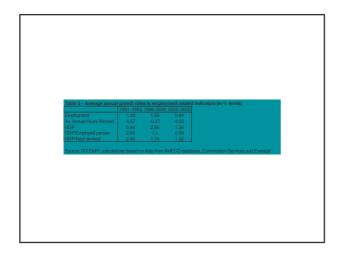


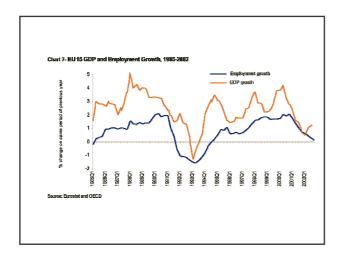


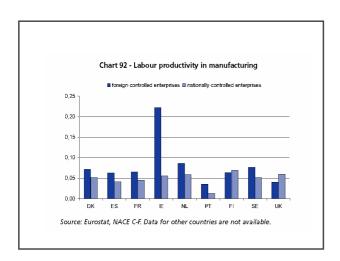
Productivity and wages

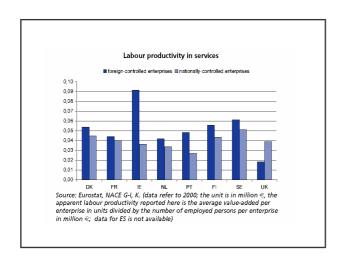
- Since 1995 employment growth higher than GDP gwrowth. Hence slow down of productivity growth in all economic sectors.
- Real wage moderation has characterised the EU since 1995, wage differentials and earning inequalities have been increasing in some countries (UK, Poland, Denmark especially) and within some countries.

 However non wage labour costs (taxation and social contributions to finance welfare provisions) still high share of labour costs (from 30% in Swe, Ita,Fra, Hung,Rom, to 15% in Dk and Ire)
- There is evidence of a greater increase in nominal and real wages in accession countries, which shows a tendency to convergence, even if accession countries start from wage levels much lower than EUcountries.



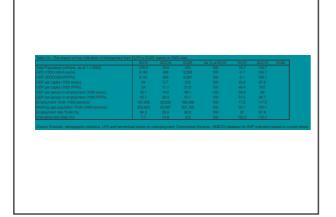






Main challenges and future trends in labour markets

- Labour market institutions will have to adapt to:
- > Stronger competitive pressures (globalisation and enlargement)
- ➤ Higher regional differences due to enlargement: in NMS GDP per person is lower, but growth rate higher than in OMS (on average 4% relative to 2,5% of EU15), higher unemployment and share of employment in agriculture, lower wages (4 euros per hour relative to 22); large territorial differentials (urban vs rural)
- > Less shock absorbers at national and local level (EMU) and increase in labour mobility and age moderation.
- > Ageing population, which asks for higher participation rates and labour mobility.
- Increasing use of atypical contracts and occupational mobility: more people will have to adapt to job changes during their working life. Need to be able to acquire skills during working life.



and the EU20 in t	ine med	num-tern	Scenari	o (as per	tentage)	
	EU14 2002	EU20 2003	EU14 2005	EU20 2005	EU14 2010	EU20 2010
Overall employment rate	64.3	62.9	66.2	64.9	67.8	66.5
Employment rate for women	55.9	54.9	58.4	57.5	61.5	60.5
Employment rate for older workers (aged 55 to 64)	41.6	40.1	43.5	41.9	45.8	43.8

Table 20 - Potential for reaching the overal employment rate target across countries (of 70.0% in 2010) in the "medium-term" scenario and pace of progress							
Pace/Likelihood		Likely ^{a)}	Possibly b)	Unlikely ⁰			
Rapid [®]	countries count	NL, FI, CY 3	IE 1	EL, ES 2			
Close to average «	countries count	SE 1	0	BE, HU,SK 3			
Slow ⁿ	countries count	DK, DE, PT, UK, AT 5	0	FR, IT, CZ,PO, SL 5			

- a) Target achieved by date.
 h) Projection lower by less than 1 percentage point than the target
 c) Projection lower by more than 1 percentage point than the target.
 d) Rapid progress towards the target (i.e. in the 1990-2010 period, the average annual
 growth rate of the employment rate is expected to increase faster than the average
 for the EU14);
 e) "Close to average" (i.e. in the 1990-2010 period, the average annual growth rate for
 the employment rate is expected to increase between the average for the EU14 and
 2/3 of it.
 f) Slow progress towards the target (i.e. in the 1990-2010 period, the average annual
 growth rate for the employment rate is expected to increase below 2/3 of the
 employment rate average for the EU14).

Current institutional framework in the **EU/1**

- Higher public intervention to regulate labour and product markets than in non EC contries
- Higher relevance of collective bargaining in wage determination
- Higher employment protection legislation
- Large role of welfare state with high expenditures in social and labour policies funded largely through social security contributions and taxation which increase non wage labour costs

Current institutional framework /2

Three main regulatory and welfare regimes:

- the liberal regime (UK): high labour and wage flexibility, universal public support only against "bad risks". Decentralized and uncoordinated industrial relations at the firm/plant level. Increasing attention to ALMP and "work to welfare" model.
- the conservative regime of the continental and southern European countries: high employment protection for "core workers" (adult males in the industrial sector), low and differentiated support during unemployment (especially in Southern Europe), little attention to active policies relative to income support.
- the social-democratic regime of the Scandinavian countries: low employment protection and high labour flexibility, but generous support during job search and labour market transitions (through activation policies and unemployment benefits). Wage-setting and regulation of working conditions left to centralized bargaining between unions and employers' associations

- Income policies
- Mobility friendly institutions and policies (such as Students and workers mobility, removal of barriers to the recognition of qualifications, information and transparency on EU job opportunities)
- Activation measures (to increase participation and employment rates, especially for women and older people)
- Immigration policies
- Investment in human capital (training and education):
- · Dealing with the informal sector

•			
•			