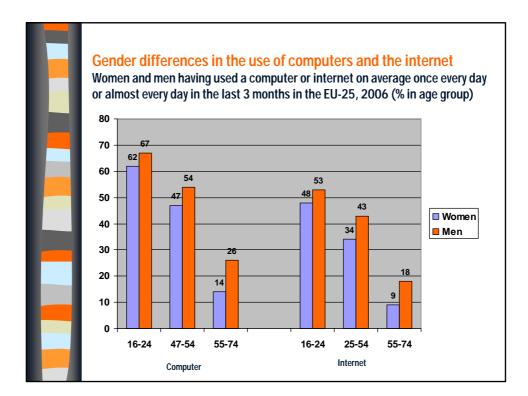




Situation in Europe

Sources:

- Community survey on ICT usage in households and by individuals, EU-25, Eurostat, 2006.
 Population aged 16 to 74.
- Eurostat, Labour force survey, 2nd quarter 2006.
- EU15 Eurobarometer survey 59.2 "Special eurobarometer 194: Internet"; Eurobaromter 2003.3. June 2003. Population > 15 years old.



Gender differences in the use of computers and the internet

- Gender differences are less significant than age / financial or educational differences.
- Gender differences concern more private life than working life.
 - During education and at work, there are few differences between men and women in the uses of ICTs.
- Uses of ICTs at work determine private uses of ICTs.
- Gender differences are more problematical if we look at:
 - The place of women in ICT work
 - The place of women in ICT training

Place of women in ICT work

% in employment working in computing activities by sex, 2001 and 2006 Isco categories 213, 312, LFS 2006

	200)1	200)6	% point chan	ge 2001-06
	Women	Men	Women	Men	Women	Men
EU 25	0.7	2.3	0.7	2.6	0.0	0.3
SE	1.4	5.2	1.5	4.9	0.0	- 0.3
DK	0.9	3.2	1.1	3.8	0.2	0.6
UK	1.0	3.4	0.8	3.3	- 0.2	- 0.2
DE	0.7	2.5	0.7	2.9	0.0	0.4
FR	0.7	2.8	0.7	2.6	0.0	- 0.1
ES	0.6	1.4	0.6	2.0	0.0	0.5
IT	0.6	1.4	0.6	1.9	0.0	0.5
HU	0.6	1.6	0.5	2.4	0.0	0.8

	% in employment working in computing activities by sex and age, 2006								
Isco cate	e <mark>gori</mark> es 213,	312, LFS	2006						
	< 40 years old		> 40 years old						
	Women	Men	Women	Men					
EU 25	0.8	3.5	0.5	1.8					
SE	1.7	6.4	1.3	3.8					
UK	0.9	4.4	0.6	2.4					
DE	0.8	3.6	0.6	2.3					
FR	1.0	3.5	0.5	1.8					
ES	0.8	2.8	0.4	1.0					
IT	0.9	2.7	0.3	1.2					

Definition of jobs (professions) between men and women is partly construction of jobs (professions) between men and women is partly construction of yobs (professions) between the female encloses and the percentage of women in ICT jobs. Despite many awareness campaigns, the proportion of women is partly construction.

Place of women in ICT training

ICT tertiary education: difficult comparison

- 9% in Belgium, 25% to 30% in France and UK, 40% in Italy and Portugal...
- BUT no convergence between countries due to a lack of hamonisation in statistics: some countries give figures that gather IT and mathematics, others gather IT and sciences, others focus only on IT...

However, some common trends:

- The proportion of women is decreasing everywhere
- More women in orientations with management or multimedia content
- Women who have an IT degree have proportionnaly higher degrees than men.
- In continued education and vocational training the % of women is higher than in initial training.
 - > More women in ICT jobs than women holding a degree in ICT

The European research

WWW-ICT Widening Women's Work in ICT

- A European project 2002-2004 funded under the IST programme within FP5, aiming at bridging the gender gap and improving equal opportunities in ICT professions.
- The approach of WWW-ICT:
 - Integrating explicative factors linked to
 - education and training,
 - working and employment conditions,
 - professional and technical culture.
 - Taking into account both computer professions and new professions linked to new communication technology.
 - Covering both initial training and vocational training.

The European research WWW-ICT

- Integrated theoretical framework
- Strong empirical investigation in 7 countries Austria, Belgium, France, Italy, Ireland, Portugal, UK
 - 140 biographies of women (and men) in ICT professions
 - 28 case studies of enterprises and sectoral overviews in two areas: IT services and e-publishing
 - Looking for "good practices" aiming at reducing gender disparities in ICT professions (60)
- Conclusions and recommendations
- Dissemination: emphasis on agents of change



Enduring stereotypes of nerds The black-boxing of IT professions

"When you talk to women, going out to universities or whatever, and say 'How do you envisage the work? What might my job be about?', they say 'You sit in front of a computer all day. You probably wouldn't talk to anyone.' They have this beard-and-sandals and men image. They don't actually think about what we do."

Stereotypes seem more "hard" in education than in work.

What problems do women have in developing IT careers?

Structural problems

- Accessing a mixture of on-the-job training and development
- Working through opaque promotion systems
- Managing the demands of IT work with their private lives

Cultural problems

- Valuing and promoting their own skills
- Overcoming discrimination (from managers, from peers)
- Dealing with gender-blind organisational cultures

Points of intervention to attract and retain women

- In schooling and higher education
- At the point of recruitment to the labour market
- Within organisations

In schooling and higher education

- Careers advice and awareness of career options
- Giving girls' direct experience of IT work (company visits, daughters to work days)
- Establishing networks between schools, universities and employing organisations

At the point of recruitment

- Widening the pool of applicants (relaxing technical selection criteria, drawing from other disciplines, offering conversion courses for arts graduates, identifying other skills requirements)
- Advertising jobs where women will see them
- Developing gender-aware recruitment processes (job specifications, interviewing procedures, mentoring potential women entrants)

Within organisations (structural innovations)

- Offering mixture of formal training and informal learning opportunities
- Work-Life Balance/flexible working policies (promotion not based on visibility or long hours)
- Offering varied career paths (including technical careers)
- Developing gender-aware progression systems (transparent with clear criteria)
- Retaining women after maternity and in their 40s

Within organisations (structural innovations)

- Establishing peer support systems (mentoring, coaching, women's networks)
- Recognising women's problems of self-advocacy in career management
- Developing organisations' awareness of their established gender cultures (drinking clubs, exclusive male groups)

Why still so few women in ICT work despite so many campaigns and actions?

- Overview of 60 good practices / 7 countries
- Which lessons from the overview of good practices?
 - Questions regarding target audiences
 - Questions regarding the messages
 - Questions regarding means to take action

Questions regarding target audiences

- Most of the initiatives target girls and women, as if they were the only agent of change. This supports the idea that it is up to the women to adapt to the IT labour market rather than the reverse.
- Messages that try to convince women that they are "capable" of doing such a job (it is not demonstrate that women are not capable). Counter efficient message.
- Less than 20% of the actions are initiated by enterprises
- Employers, recruiters, HR manager, social partners, advisers / orientations centres are all agents of change.



- No clear vision of occupations / professions.
- No clear distinction between occupations or professions belonging to the "hard core" of informatics and other occupational groups for which IT knowledge is one component of the required knowledge (graphic design, ERP, e-publishing...).
- New curricula in which IT are a "tool" for other disciplines (biotechnology, publishing, library, information...).
- Make clear: transversal competencies, applied informatics, possible passage between professions / occupations.

Questions regarding means to take action

- Many initiatives only target one aspect of the problem:
 - Example: fighting against stereotypes with no attention to working conditions; promoting access to IT professions without giving a clear picture of these jobs; encouraging women to choice IT curricula without any change in recruitment strategies.

