

Encuentros Alianza STEAM



GOBIERNO
DE ESPAÑA

MINISTERIO
DE EDUCACIÓN
Y FORMACIÓN PROFESIONAL

Niñas en pie
de ciencia
ALIANZA STEAM POR EL
TALENTO FEMENINO



Gender equality and education: An EU overview

Alianza STEM

Irene Rioboo Leston | 26 October 2022 | Madrid

European Institute for Gender Equality

Autonomous body of the EU:

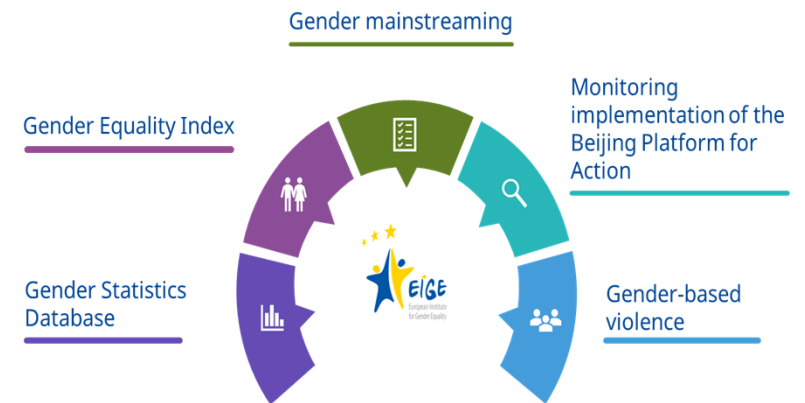
- Contribute to and strengthen the promotion of gender equality
- Fight against discrimination based on sex
- Raise awareness of gender equality

Stakeholders:

- Member States
- European Union institutions and agencies
- International organisations
- Civil society organisations, Social partners



Working areas:





The Gender Equality Index





Hierarchical structure

6 core domains + 2 satellites

14 sub-domains

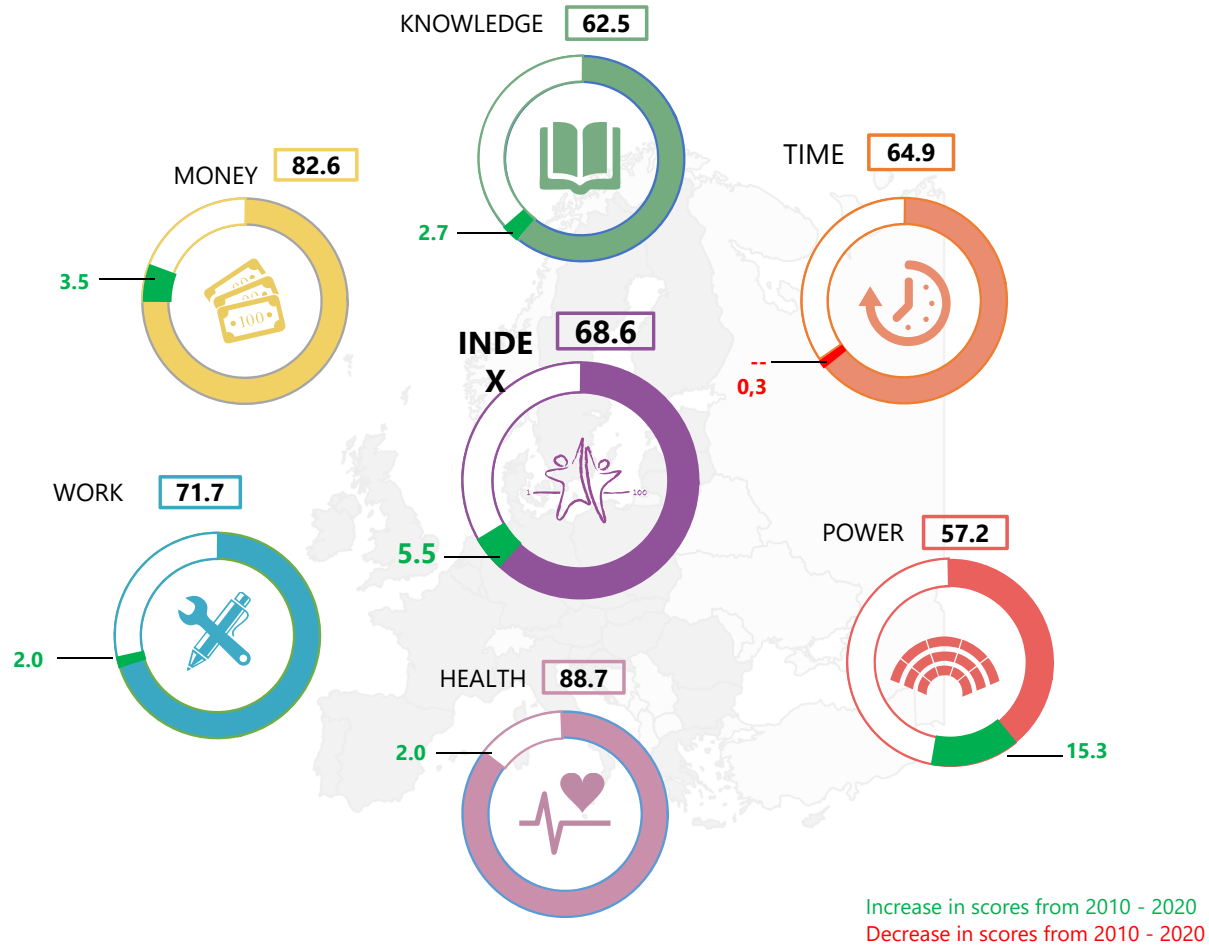
31 indicators

Individual indicators, sub-domain indices, domain indices and overall index:



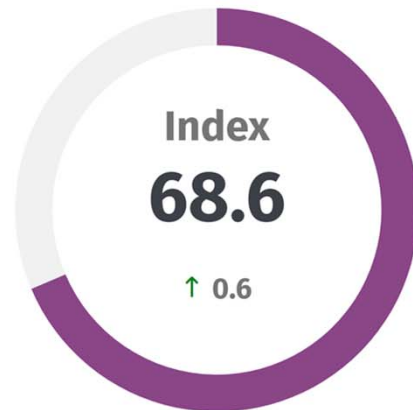
Domain	Subdomain	Variable
Work	Participation	Full-time equivalent employment rate (% , 15+)
		Duration of working life (years, 15+)
	Segregation and quality of work	Employed people in Education, Human Health and Social Work activities (% , 15+)
		Ability to take an hour or two off during working hours to take care of personal or family matters (% ,15+)
		Career Prospects index (scores, 0-100)
Money	Financial resources	Mean monthly earnings (PPS, working population)
		Mean equivalised net income (PPS, 16+ population)
	Economic resources	Not-at-risk-of-poverty, ≥60% of median income (% ,16+ population)
		S20/S80 income quintile share (16+ population)
Knowledge	Attainment and participation	Graduates of tertiary education (% , 15+ population)
		People participating in formal or non-formal education and training (15+ population)
	Segregation	Tertiary students in the fields of Education, Health and Welfare, Humanities and Art (tertiary students)
Time	Care	People caring for and educating their children or grandchildren, elderly or disabled people, every day (% , 18+ population)
		People doing cooking and/or housework, every day (% , 18+ population)
	Social	Workers doing sporting, cultural or leisure activities outside of their home, at least daily or several times a week (% , 15+ workers)
		Workers involved in voluntary or charitable activities, at least once a month (% , 15+ workers)
Power	Political	Share of ministers (% F, M)
		Share of members of Parliament (% F, M)
		Share of members of Regional Assemblies (% F, M)
	Economic	Share of members of boards in largest quoted companies, supervisory board or board of directors (% F, M)
		Share of members of Central Bank (% F, M)
	Social	Share of members of public research funding (% F, M)
		Share of Board Members in publically owned broadcasting organisations (% F, M)
Share of Members of highest decision making body of the national olympic sport organisations (% F, M)		
Health	Status	Self-perceived health, good or very good (% , 16+ population)
		Life expectancy in absolute value at birth
		Healthy life years in absolute value at birth
	Risk behaviour	Share of people who don't smoke and are not involved in harmful drinking (% , 16+ population)
	Health behaviour	Population doing physical activities and/or consuming fruits and vegetables (% , 16+ population)
	Access	Population without unmet needs for medical examination (% , 16+ population)
Population without unmet needs for dental examination (% , 16+ population)		
Additional variable		Population in age group 18 and older

Gender Equality Index 2022

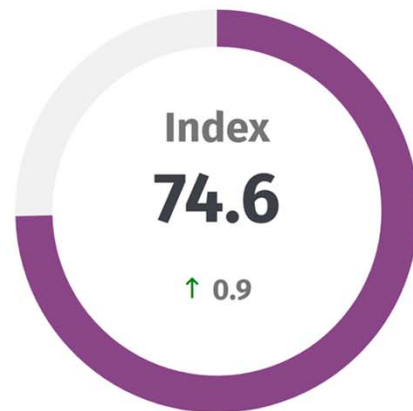


Gender Equality Index 2022

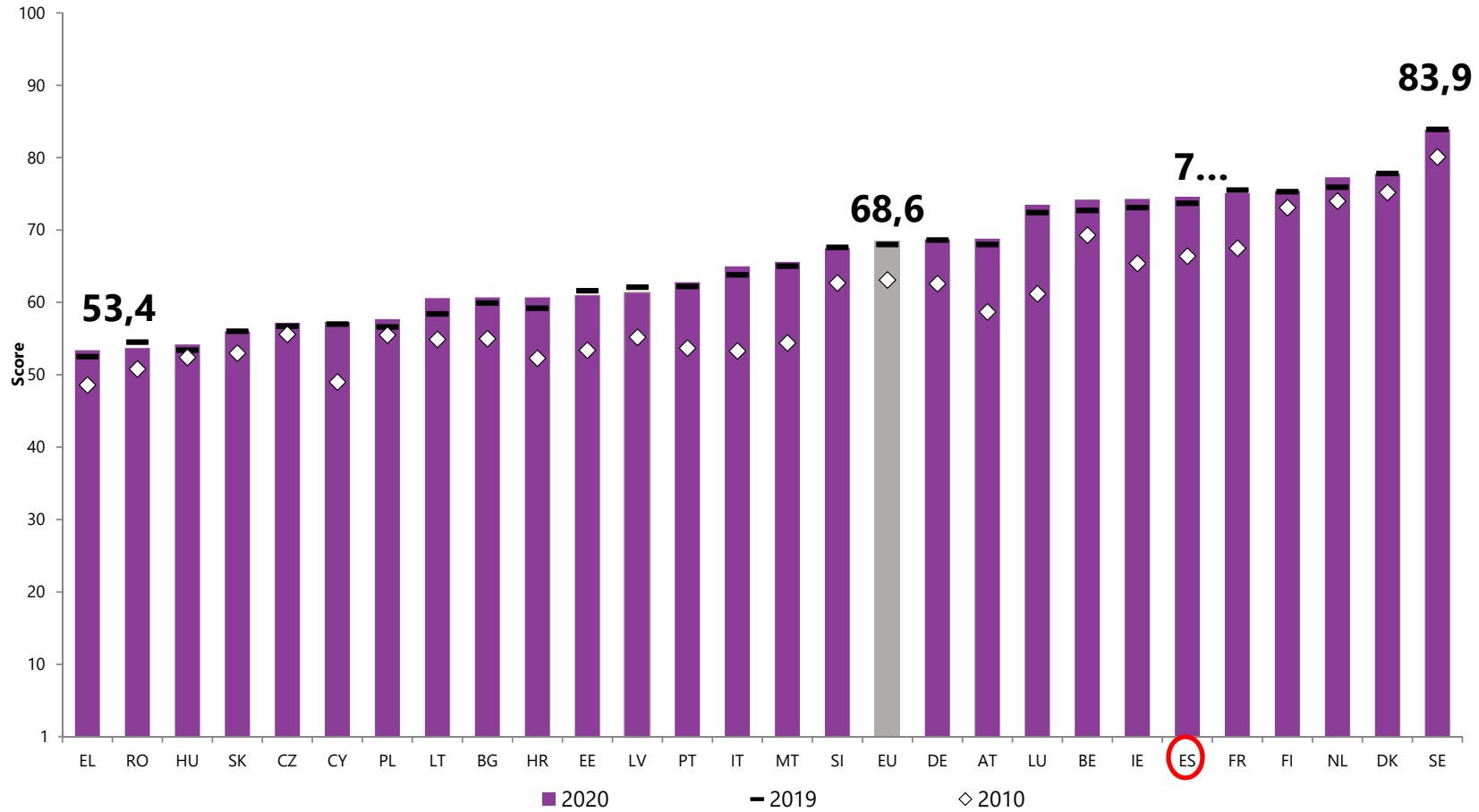
EU-27



Spain

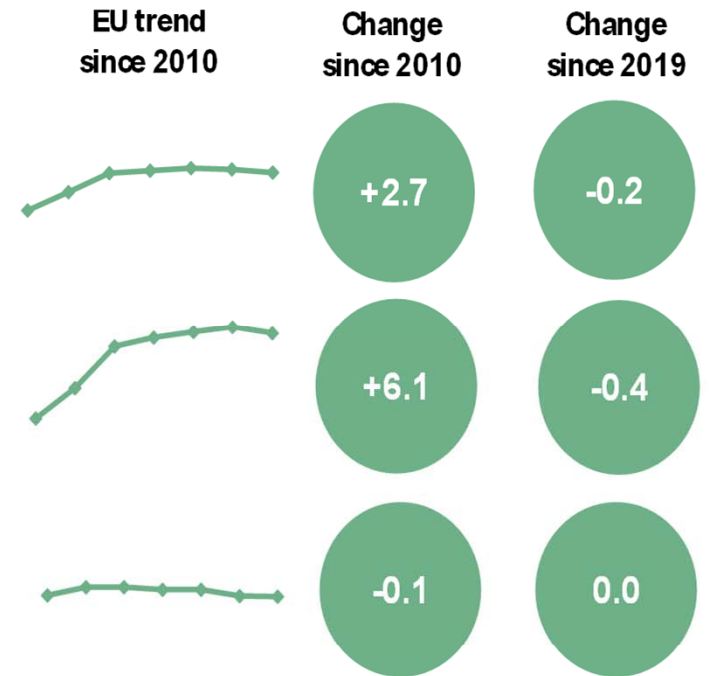
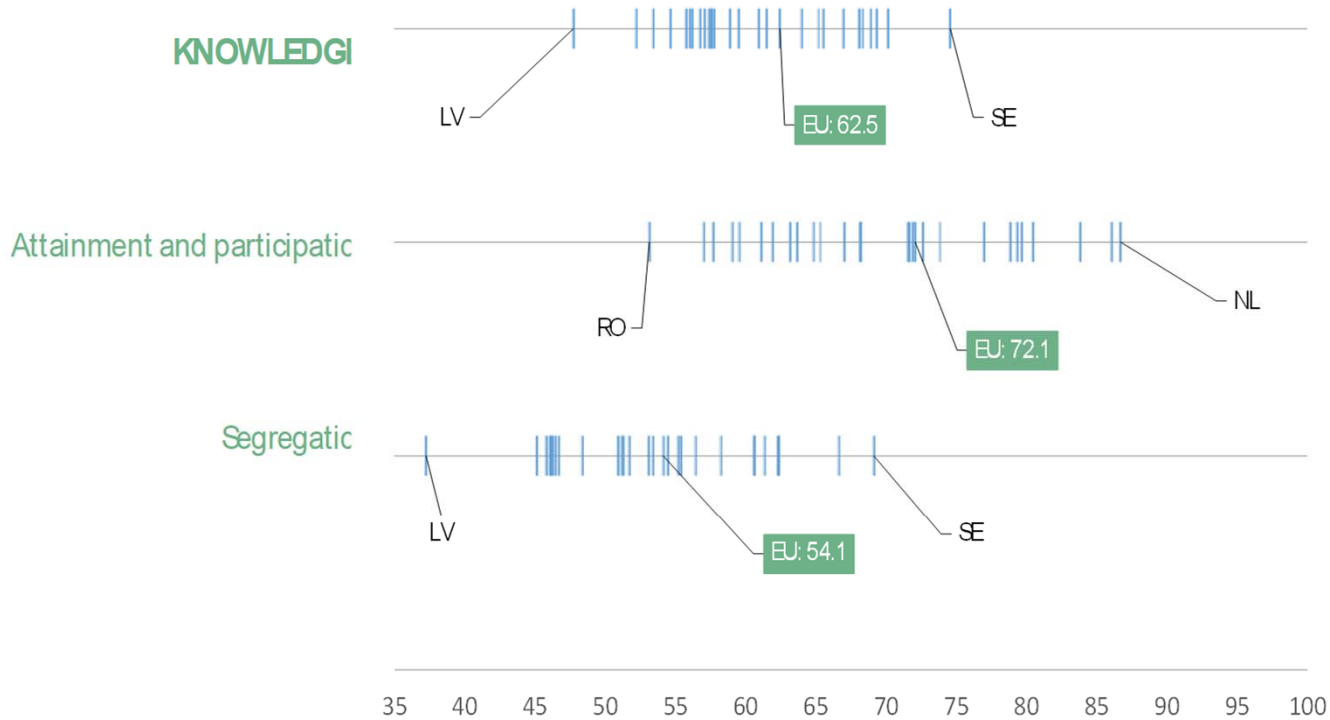


Gender Equality Index 2022

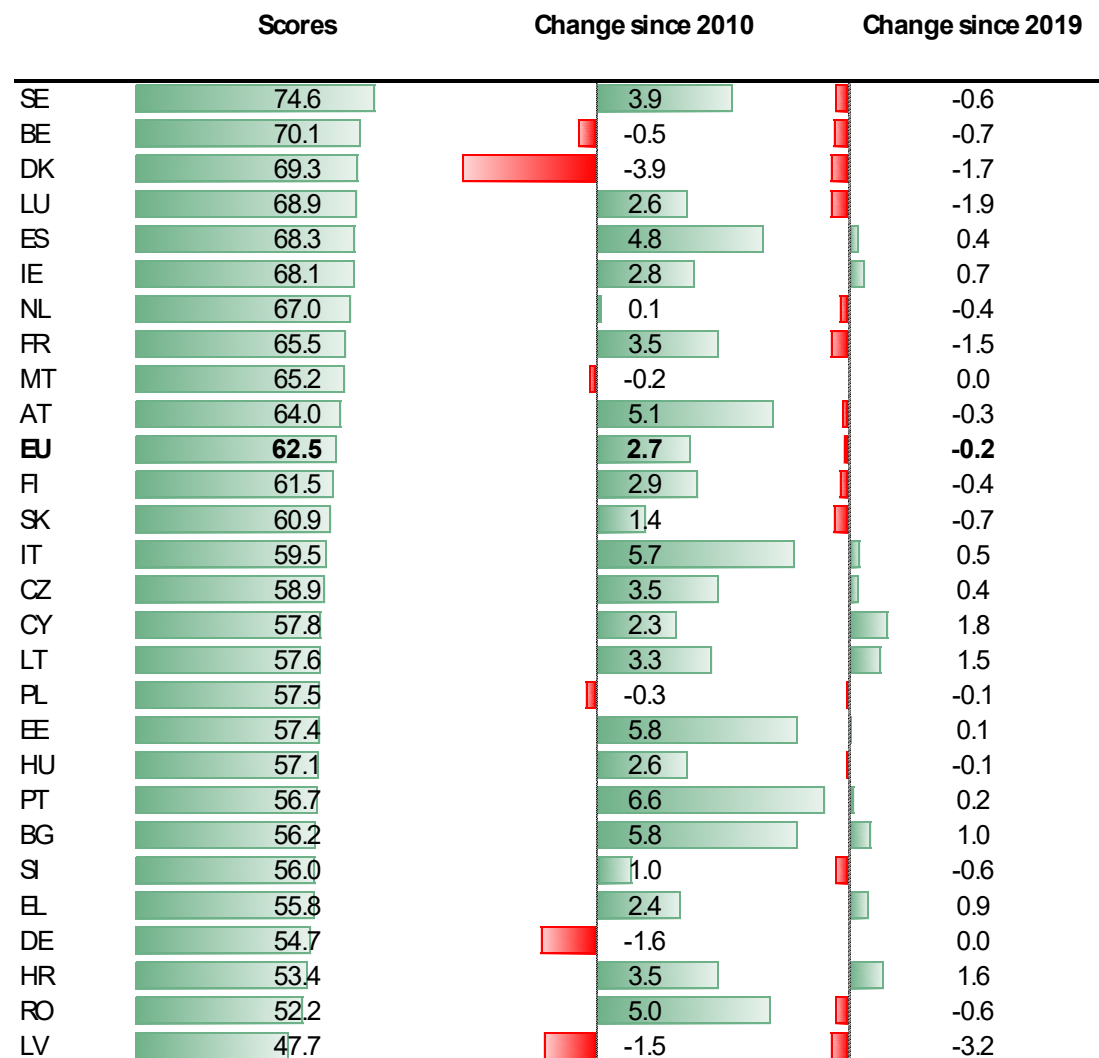


Domain of Knowledge

Range of knowledge domain scores by country



Domain of knowledge



Domain of knowledge, Spain and EU27



Graduates of tertiary education (%)

ES-W	32
ES-M	31
EU-W	27
EU-M	26

Source: Eurostat, EU LFS, 2020.



Tertiary students in education, health and welfare, humanities and arts (%)

ES-W	49
ES-M	25
EU-W	43
EU-M	21

Source: Eurostat, Education statistics, 2020. educ_enr15, educ_uoe_enrt03.

People participating in formal or non-formal education (%)

ES-W	17
ES-M	16
EU-W	16
EU-M	15

Source: Eurostat, EU LFS, 2020.

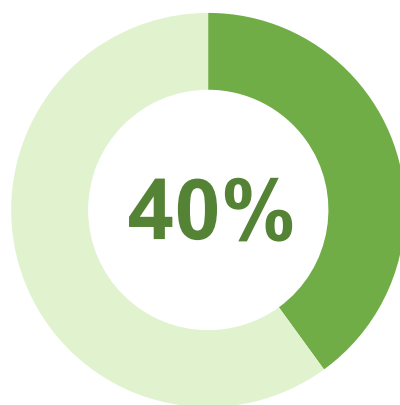


Digital skills

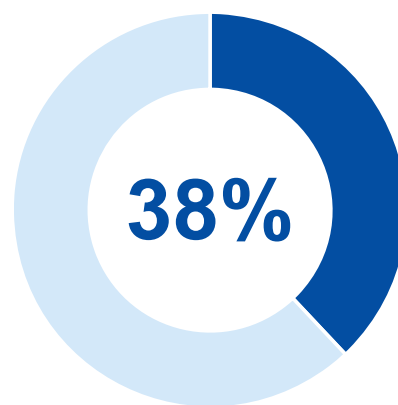


Young people represent the most digitally skilled generation in the EU

16-24 years old hold above-basic digital skills



Women



Men

Despite equal footing in educational attainment ...



Girls feel **less confident** about their digital skills

73 % of boys aged 15 feel comfortable installing softwares by themselves, compared with **49 % of girls**





Girls see few prospects in digital job

15-year-olds (boys and girls) top performers in science expect to work in scientific professions at the age of 30



EIGE, Gender Statistics Database, 2022

Gender differences in types of digital skills



- Digital skills increase with level of education
- Gender differences in all types of digital skills are largest among those with low education
- In all education levels, women fall behind in problem-solving and software skills

Segregation in education





Most segregated fields of education (2020)

EAH

STEM

Field	% Men	% Women
Education	18	82
Arts and humanities	31	69
Health and welfare	22	78
Natural sciences, mathematics and statistics	45	55
Information and Communication Technologies	79	21
Engineering, manufacturing and construction	74	26



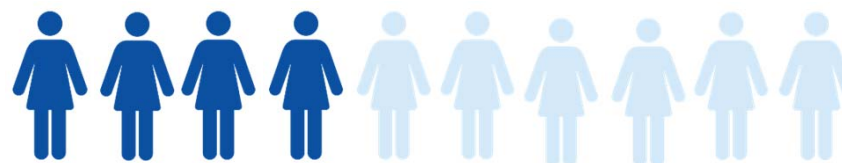


Segregation in tertiary education (2020)

Tertiary students in the fields of Education, Arts and Humanities and Health and Welfare (EAH)

4 out of 10

Female tertiary students



2 out of 10

Male tertiary students



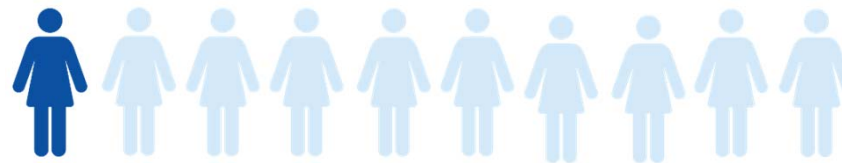


Segregation in tertiary education (2020)

Tertiary students in the fields of Science, Technology, Engineering and Mathematics (STEM)

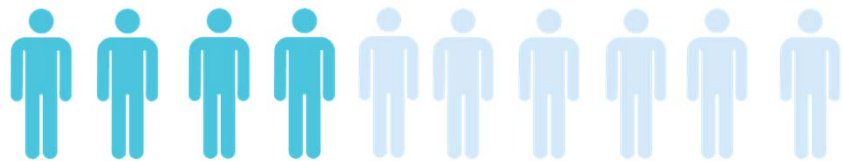
1 out of 10

Female tertiary students



4 out of 10

Male tertiary students



Segregation in tertiary education



Demands for education

- Demand for STEM professionals and associate professionals is expected to **grow by around 8% by 2025**, (Cedefop)
- **Demands for caring are also increasing** in the context of aging societies



Consequences of segregation in education



Consequences of segregation in education



- Future gender gaps in the labour market
- Gender gap in the involvement in the digital transition
- Women and girls' social engagement
- Young women at higher risk of being victims of online harassment
- Economic growth

ICT sector



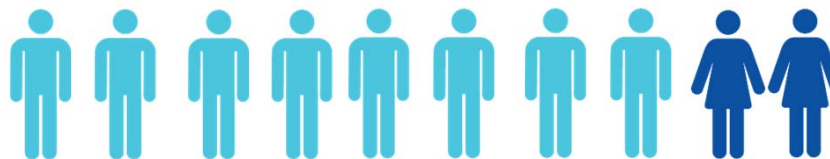
- Employment growth 8 times higher than average
- Shortages of ICT specialists

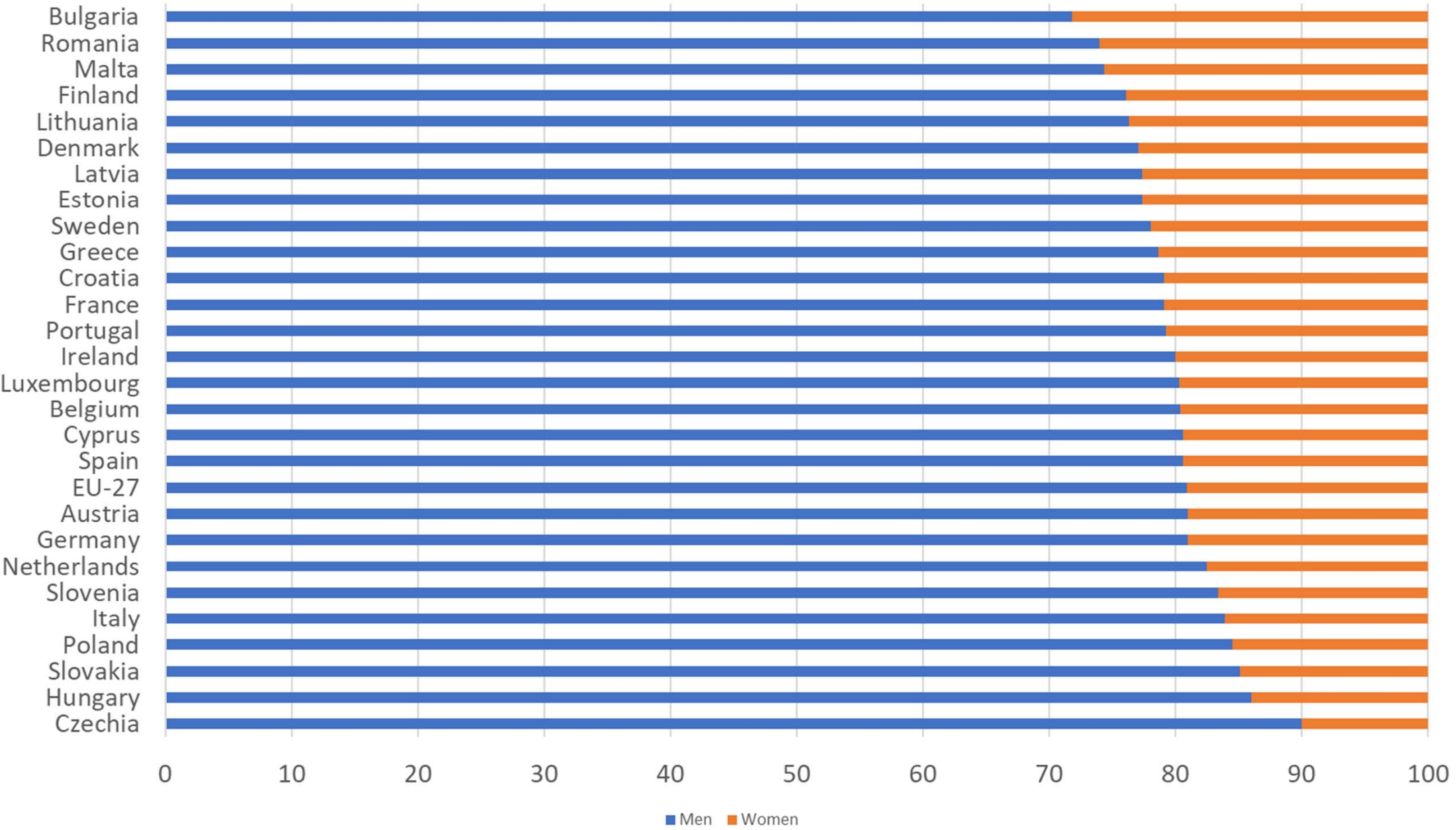
BUT

- Very few girls aspire to become ICT professionals
- ICT education does not lead to ICT jobs for women
- Share of women ICT specialists is very low

8 out of 10

Employed ICT specialists are men





Gender pay gap:

How much less
do women earn
than men?



Difference between average gross
hourly earnings of male and female
employees as % of male gross
earnings, 2020



Involvement in the digital transformation



Without women actively engaged in shaping digital technologies:

- Future digital products and services will hold biases, reinforcing gender stereotypes and amplifying gender inequalities
- Future lines of work will remain closed to women
- The AI sector will be at high-security risk



Online harassment

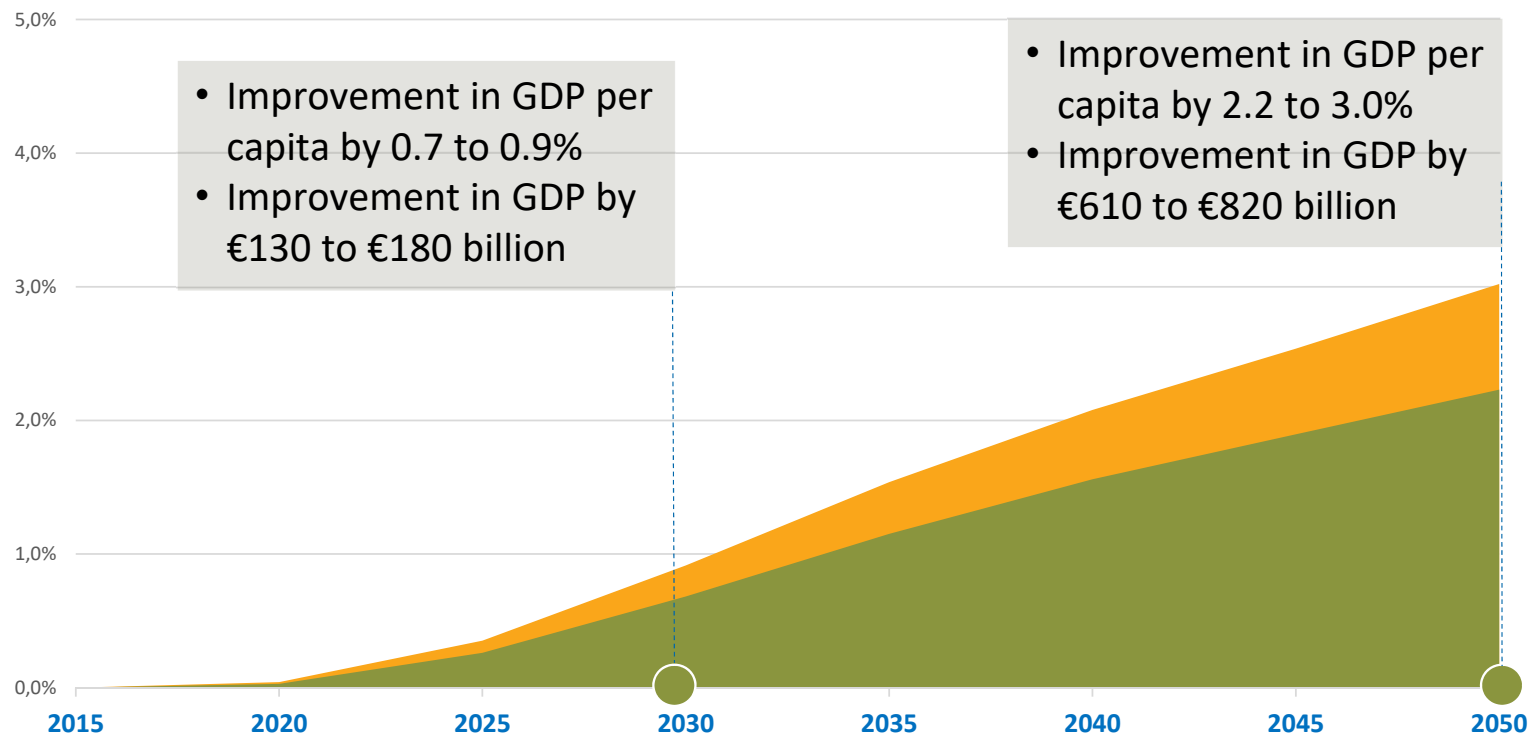


More young women (9%) than young men (6%) report being a victim of online harassment



51% women and 42% of young men hesitate to engage in social media debates due to fear of experiencing abuse

Effect of narrowing the STEM gender gap on GDP



● Rapid improvement in gender equality

● Slow improvement in gender equality

How to support and motivate women to enter the IT fields to use their potential?





- Measures that tackle gender gaps in education and training, which are also based on the continuation of gender stereotypes
- Positive examples for girls and young women, role models and support to overcome stereotypes
- Curriculum-renewal processes highlighting digital skills
- Sustainable and continuous professional development of digital competence for teachers and educators
- EU and national level monitoring of digital skills among girls and boys



Concluding remarks





Concluding remarks

Closing the gender gaps in digital skills and in self-confidence and motivation:

- increases the competitiveness and reduces socioeconomic inequalities.
- is imperative for ensuring quality and relevance of education outcomes for economic growth and social well-being,

It should be set as a **target and a prerequisite to inclusive societies.**





Thank you

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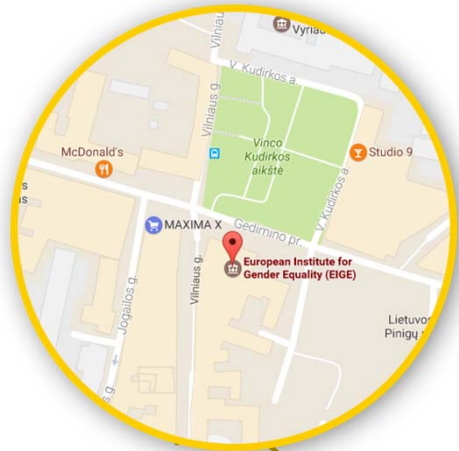
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