



Unleashing a European skills revolution for a just future of work

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Upskilling and reskilling in the age of Al and big blur Special session 1 at the Global HR forum in Seoul

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Map implications of current challenges for VET systems, programmes and qualifications and reflect on how VET and skills policy can make them future-proof

Support 2020 EU skills agenda and wider policy ambitions by developing skills intelligence to expand the evidence base underlying VET and skills policies

Promote
systematic and
inclusive approaches
to adult learning and
CVET to support and
upscale upskilling
and reskilling



Cedefop vision for VET

Through proactive VET, people continuously acquire the skills and qualifications they need to shape their work, lives, economies and societies

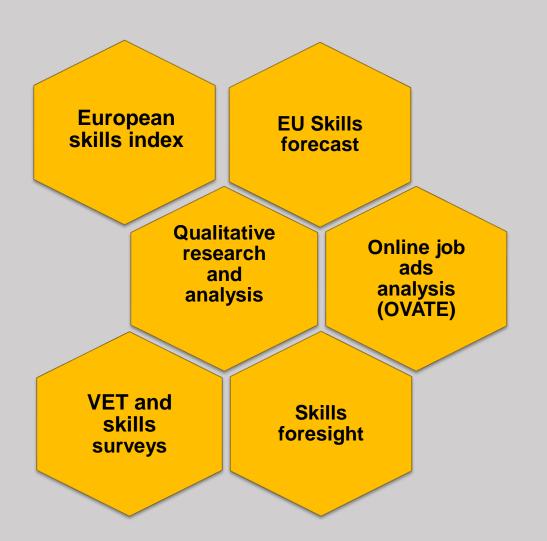
Cedefop strategic areas of operation

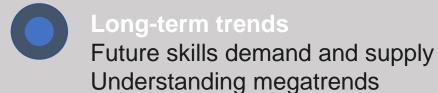
Shaping VET and qualifications

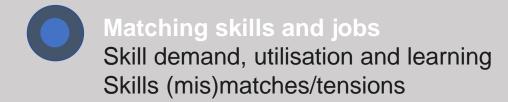
Valuing VET and skills

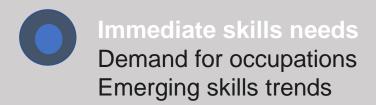
Informing VET and skills policies

Developing sound skills intelligence means blending insights



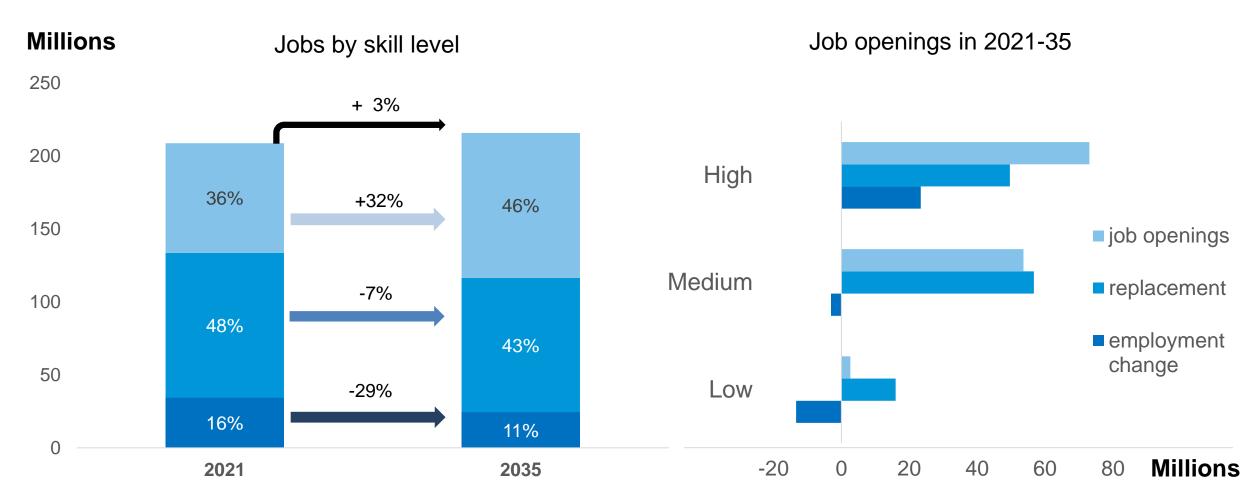








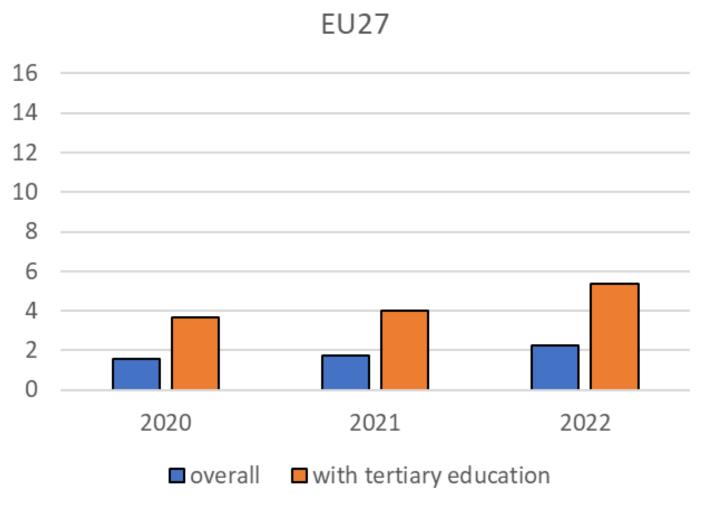
Up to 2035 EU jobs will become much more skills intensive





Source: Cedefop skills forecast 2021-35

Labour market tightness has risen post Covid-19





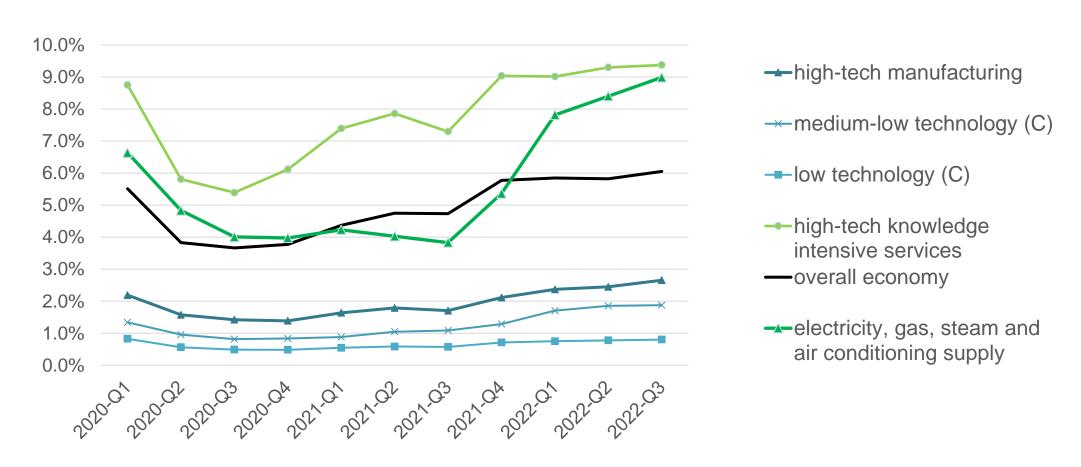


Source: own calculations based on LFS, JVS and WIH-OJA database



Covid rebound to high tech services and energy sector

Job vacancy rates in selected sectors (Q1-2020 until Q3-2022)



NB: For better visualisation sectors that followed the same trends as the overall economy are not included. Source: WIH-OJA data, Eurostat LFS LFSQ_EGAN22D.



Green transition creates more EU jobs than it destroys

European Green Deal skill forecast scenario

- About 2.5 million additional jobs by 2030
- Employment benefits in most sectors, some negatively affected (e.g., coal mining)
- Indirect employment benefits mainly for service-based sectors (e.g. ICT, real estate)

Up-/reskilling for all workers:

- Targeted policy for 'key' and 'thyroid' occupations
- VET for workers' transitions in 'brown' sectors (e.g. conventional electricity)
- IVET to prepare future workers for green(er) jobs

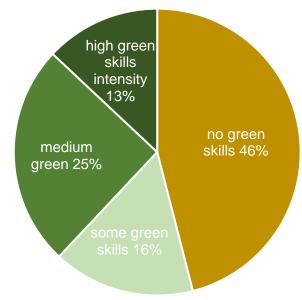
Cedefop (2021) The green employment and skills transformation



Jobs driving green transition

Frontline green jobs Greentech specialists
Green transition managers Digital specialists
Green 'hearts and minds' professionals
Cedefop foresights in cities, waste management, agri-food, circular economy

Online job advertisements by 'greenness' (averages for Q1 2020 - Q4 2022)

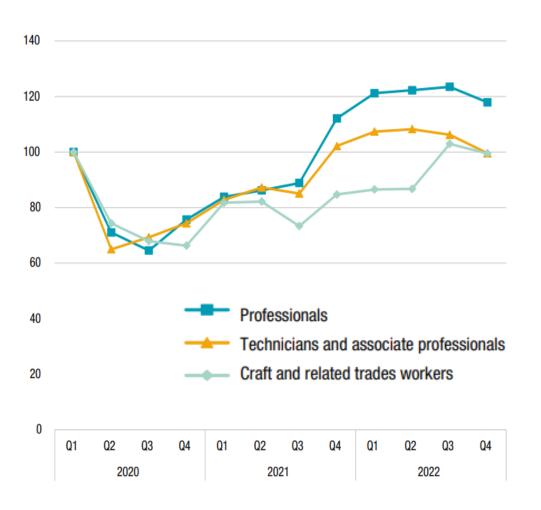


Source: WIH-OJA

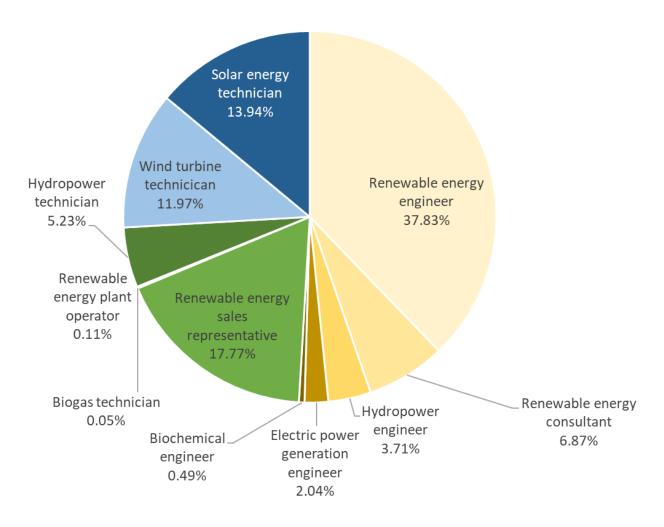
High trained people set green transition in motion...



Growth in online job ads for renewable energy occupations (ISCO, Q1 2020 = 100)



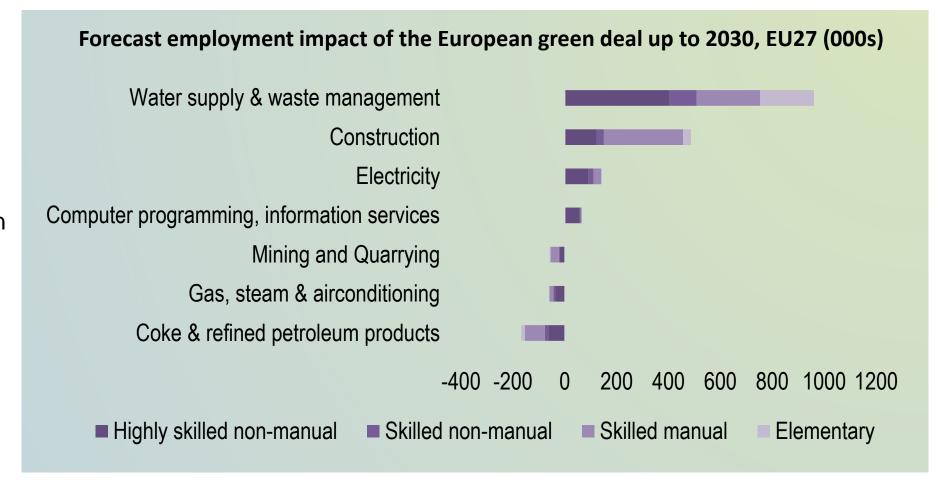
Demand for renewable occupations, Q1 2023, EU27



Source: Skills in transition and WIH-OJA

...but middle & low-skilled workers also contribute to greening

- Technical profiles, e.g., builders/construction workers
- Decreased demand for low-skilled jobs, but still relevant for frontline green jobs: e.g., in waste management
- Social innovation: jobs relevant to retrofitting can enable the transition for vulnerable groups (e.g., early education leavers, migrants)



Source: Cedefop (2021). <u>The green employment and skills transformation: insights from a European Green Deal skills forecast scenario.</u>



The Covid19 pandemic accelerated digital transformation

Covid 19

pandemic and the digital transformation

Compared to pre-pandemic, more use of...

46%

Digital communication tools

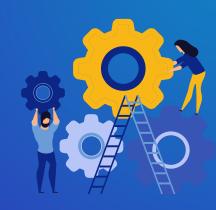
39%

Digital technologies for some work tasks

36%

Online job-related learning





87%

Adult EU+ workers using digital devices at work

39%

Adult EU+ workers work away from employer's premises

44%

New digital technology introduced in 2020-21

35%

Digital upskilling to sustain job performance





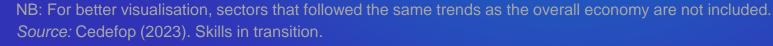
Source: Cedefop 2nd European Skills and Jobs Survey (2021)



Digital transition today is fastest in lower skilled jobs

Growth in online job advertisements for highly digitally intensive occupations by skill level of occupation (Q1 2020 = 100)

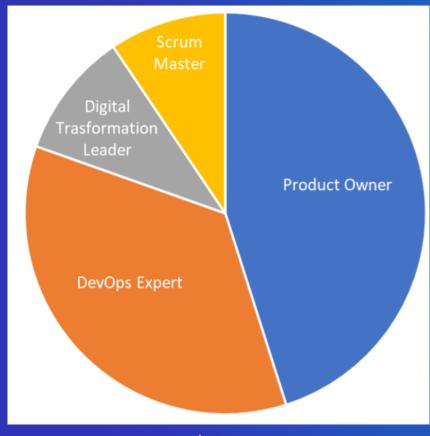




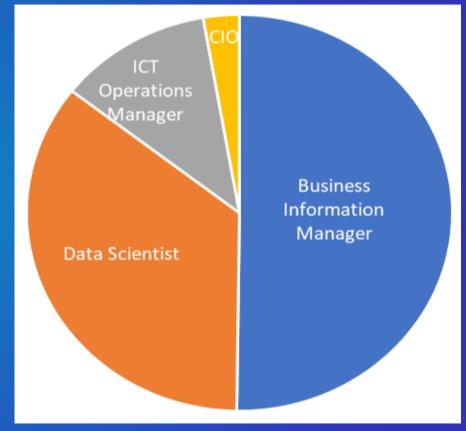


Process development and business ICT roles are gaining ground

Contribution (%) of ICT profiles to growth in the number of online job advertisements for process improvement and business ICT professionals (Q3 2018 - Q4 2022)



process improvement



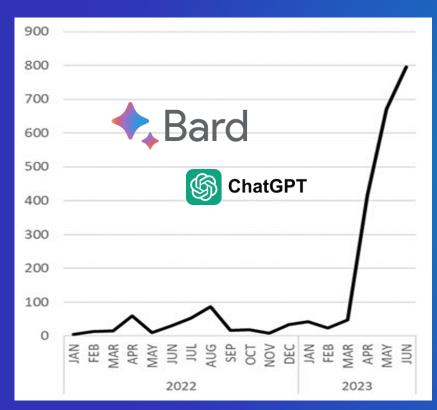
business ICT professionals

Note: data classified according to the European Committee for Standardization (CEN) ICT occupation profiles Source: WIH-OJA



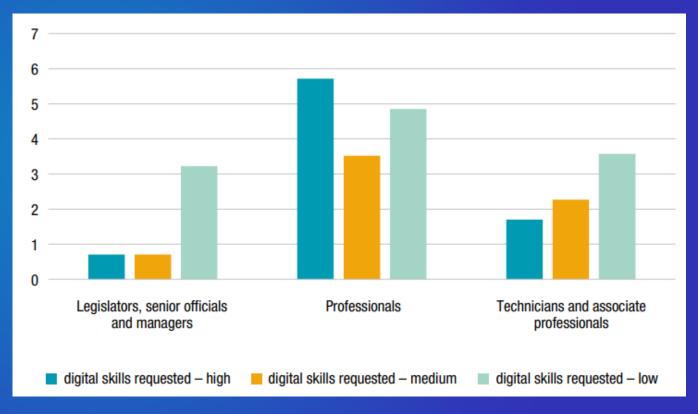
Al driving productivity makes digital skills essential for non-IT professionals

Mentions of *generative ai*, *chat gpt* & *google bard* in EU online job ads



Source WIH-OJA database

Online job ads for high-skilled non-IT occupations (ISCO 1 digit) by level of digital skills requested



Source: Skills in transition





Just digital transition means up and reskilling people...

Learning potential in digital activities (% adult workers)







910/





Basic

Browsing, e-

mail, social

Write or edit

spreadsheets

media

text

Use



20%

28%

38%

Medium

Use	50%
specialised	
software	
Prepare	60%
presentations	
Advanced	74%

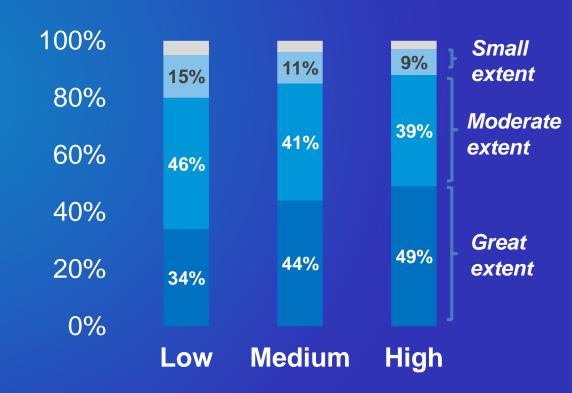
spreadsheets

Higher

Manage of	01/0
merge	
databases	
IT systems, hard/software	87%
Programme or code	92%

...and upgrading jobs

Use of knowledge and skills in EU+ jobs by qualification level in 2021



Source: Cedefop 2nd European Skills and Jobs Survey (2021)

Steps towards an inclusive skill revolution supporting twin transition

EUROPEAN YEAR OF SKILLS	Upscaling VET & adult learning	Innovation in governance	Better matching skills and jobs
Policy level	Time to move When making adult learning a reality for all, actions speak louder than words	Bring everyone on board Successful policy design and implementation require trust-based partnerships rather than silo thinking	Make permaskilling the norm Investing in skills and upgrading jobs go together
Systemic level	Make VET flexible and inclusive Flexible, inclusive, age-neutral and learner-centred VET is the only way forward	Skills thrive best in ecosystems Via better skills utilisation, companies, in particular MSMEs, can play a more active role in skills ecosystems	VET fuels the twin transition VET is best placed to deliver higher- level skills for the digital and green transitions
Implementation level	Foster CVET for all Employer engagement drives the development, expansion and reach of CVET programmes	Support learners Coordinated support measures will engage people in up- and reskilling	Turn skills intelligence into action User-centred skills intelligence helps translate trends and policy aims into actionable learning and matching opportunities



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