

Dealing with the green and digital transition in a context of tight labour markets: threats and opportunities?

Wouter Zwysen, 02/02/2023

Structure

- Labour shortages in Europe
- Structural trends
- Need for new skills (re-skilling and up-skilling)
- Temporary/cyclical reasons:
- Challenges and opportunities



 "Labour shortages arise when the demand for workers in an occupation exceeds the supply of workers available who possess the required skills and are willing to work at a specific wage rate and in specific working conditions in a particular place and point in time." (Eurofound 2022 https://www.eurofound.europa.eu/observatories/eurwork/industrial-relationsdictionary/labour-shortage)



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Labour shortages in Europe

- Effects on:
 - Companies / productivity
 - Individuals
 - Job match

Labour shortages in Europe

- Effects on:
- Quantitative vs qualitative

Labour shortages in Europe

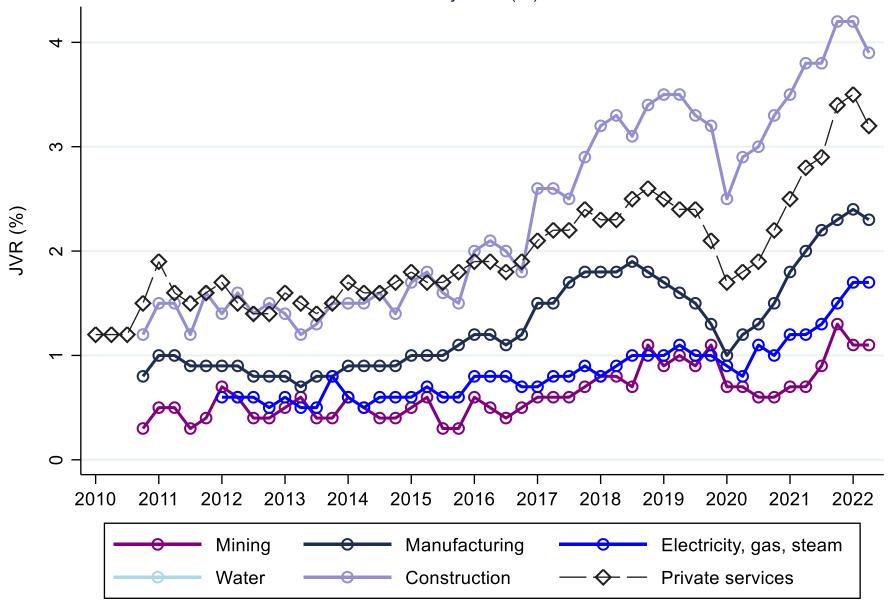
- Effects on:
- Quantitative vs qualitative
- Skills shortage?
 - Cedefop (2015): 12% of declared is true skills shortages
- Available workforce?
 - Beveridge curve and skills match has not worsened

Sharp rise in labour shortages





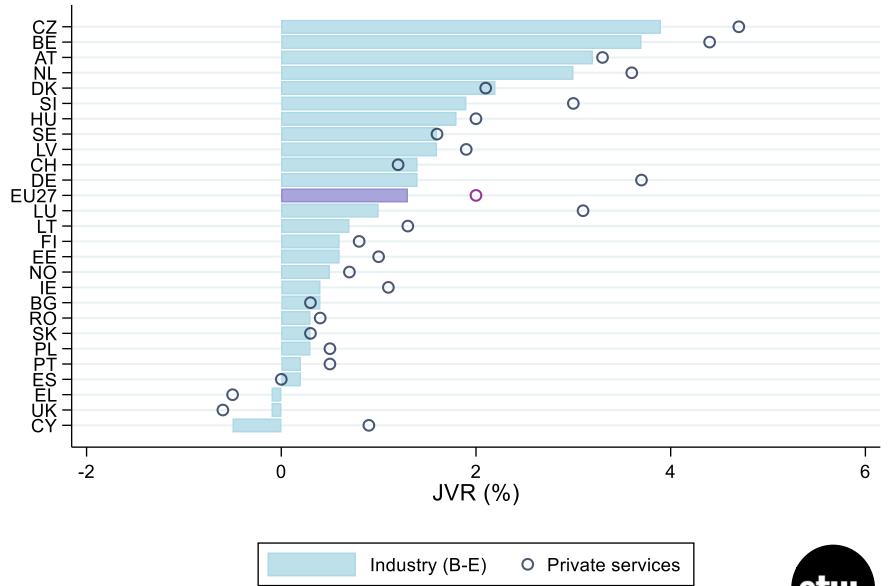
Job Vacancy Rate (%) in EU27





- Job vacancy rate increased from 2010 to 2022
- By over 1pp overall
- Most in CZ, BE, AT, NL
- Least in UK, CY, Greece

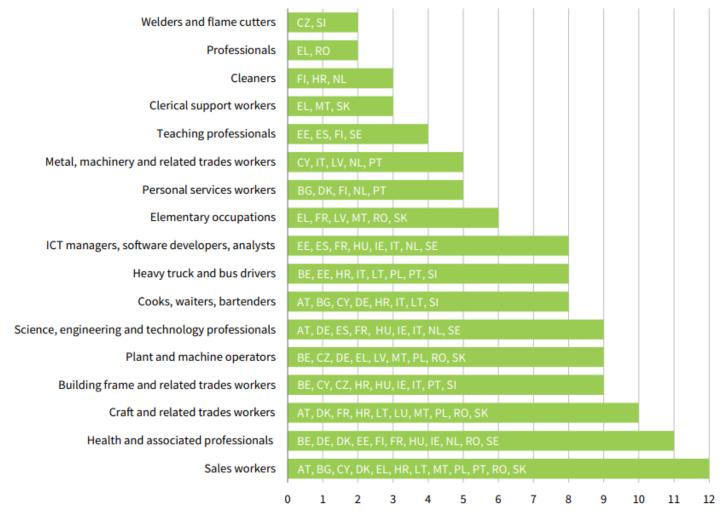




Occupations in 2019

- Similar profiles are missing across countries
- Mixed skills levels

Figure 10: Main shortage occupations – number of countries reporting shortages in different occupations, EU27, 2020

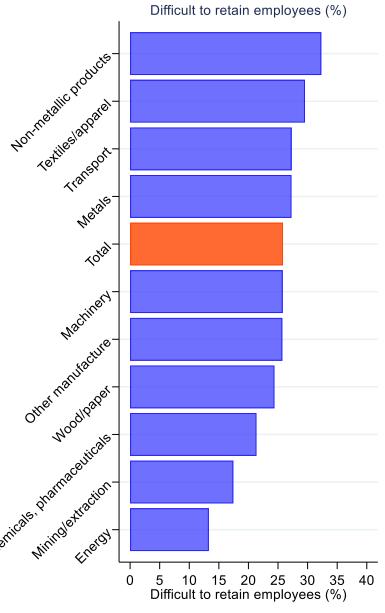


Source: Authors' own compilation, based on information provided by the Network of Eurofound Correspondents

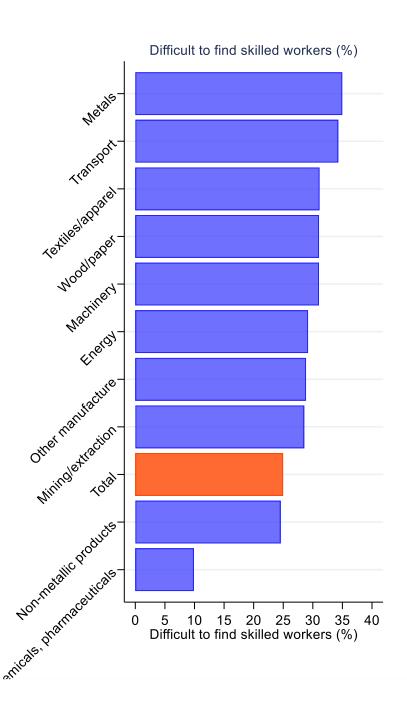
Eurofound 2021, p.24

Employers' perceptions

- Variation in retaining skilled workers
- Almost all employers in industrial sectors report difficulties finding skilled workers.

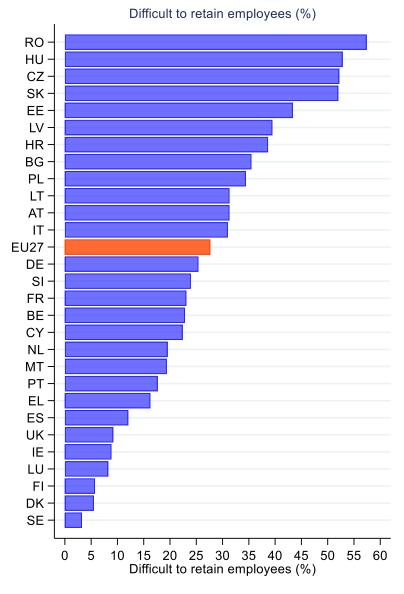


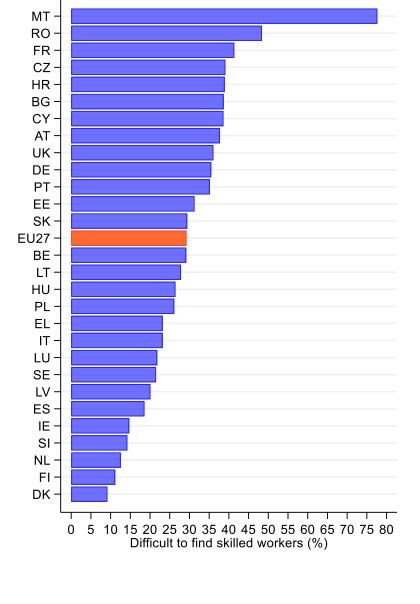
Source: ECS 2019, averaged over EU27+UK



Employers' perceptions

- Most difficult to retain employees in industrial sectors in Romania, Hungary, Czechia, Slovakia, ...
- Least difficult in Sweden,
 Denmark, Finland, Luxembourg,
 Ireland.
- Difficult to find skilled workers also in several of the same countries.





Difficult to find skilled workers (%)

Source: ECS 2019, averaged over

EU27+UK

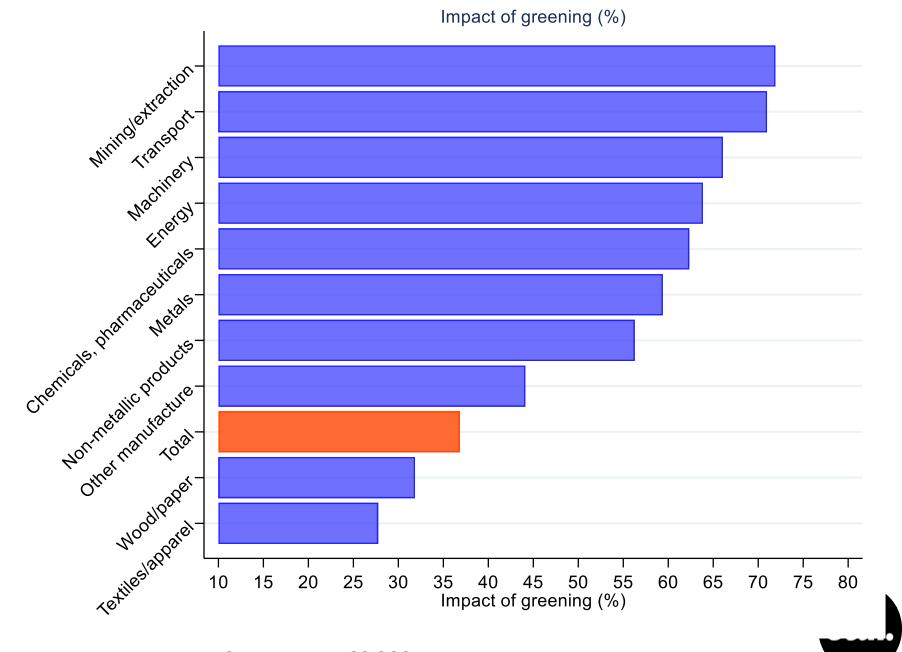
Structural trends - transformations

- Green transition
 - Heavily impacts industrial sectors
 - Need for new skills, but which ones?
 - Continuous learning rather than higher education



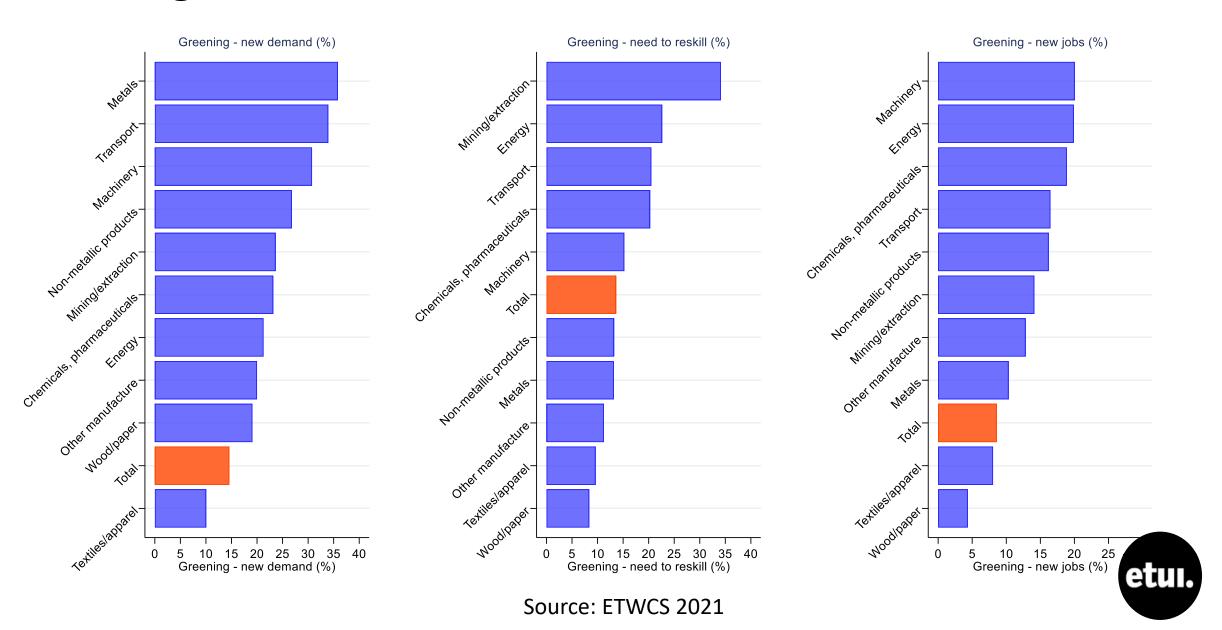
Greening

- ETWCS 2021 indicates which occupations are likely to be impacted.
- Much more than private services
- Most in mining, utilities, manufacturing
- 40% of all jobs to be affected



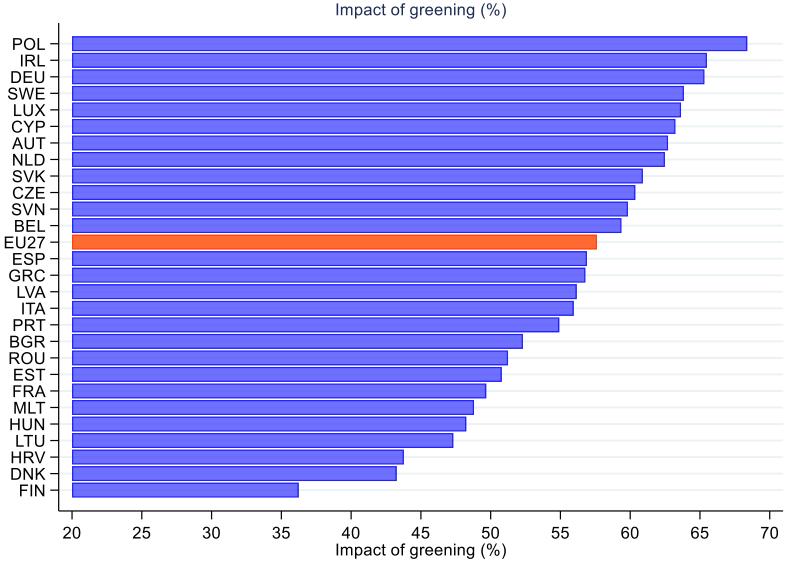
Source: ETWCS 2021

Greening



Greening

Variation over countries



Source: ETWCS 2021



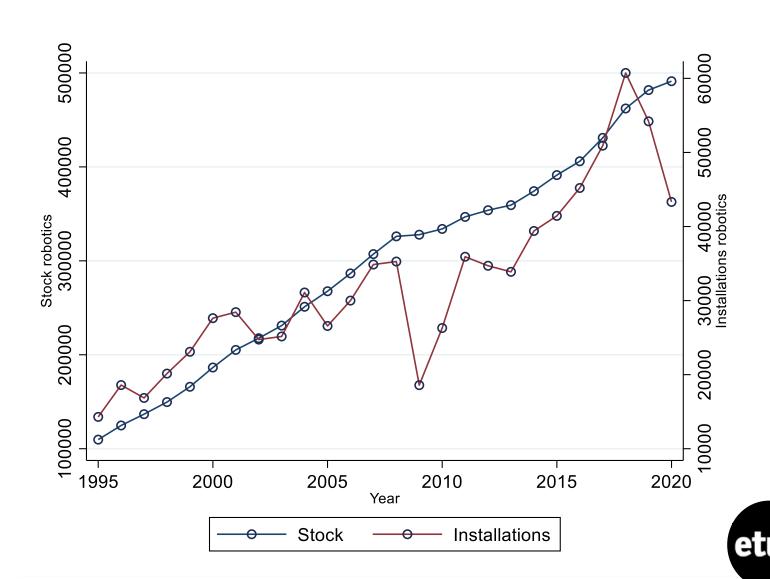
Structural trends - transformations

- Green transition
 - Heavily impacts industrial sectors
 - Need for new skills, but which ones?
 - Continuous learning rather than higher education
- Digital transition
 - Automation
 - Replace or change?
 - Uneven impact

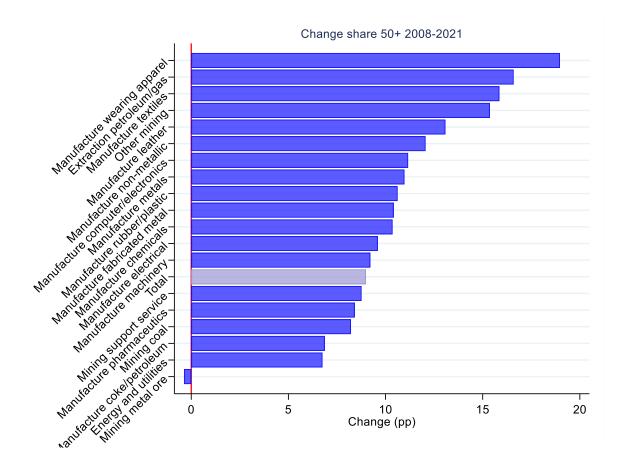


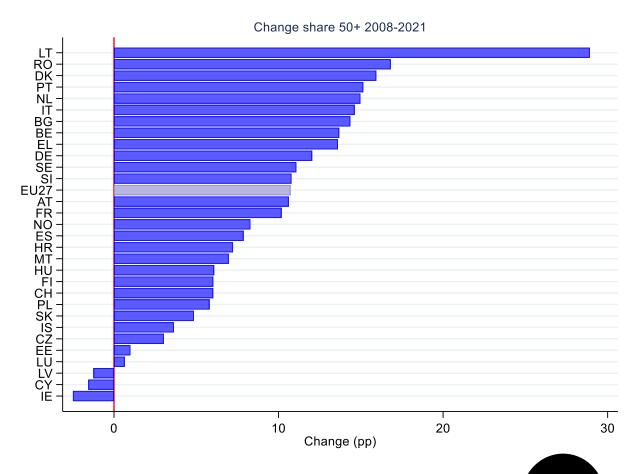
Automation

- Increase in robotics / automation over time in included countries.
- Stock increases over time, but slows down with pandemic.
- Automation overall does not reduce employment, but can change tasks
- However, short-term reductions



Ageing workforce





Structural trends - transformations

- Green transition
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 - Need for new skills, but which ones?
 - Continuous learning rather than higher education
- Digital transition
 - Automation
 - Replace or change?
 - Uneven impact
- Demographic transition



Skills shortage?



Skills shortage?

- Highest shortages in middle-educated occupations
- Need for technical/vocational profiles

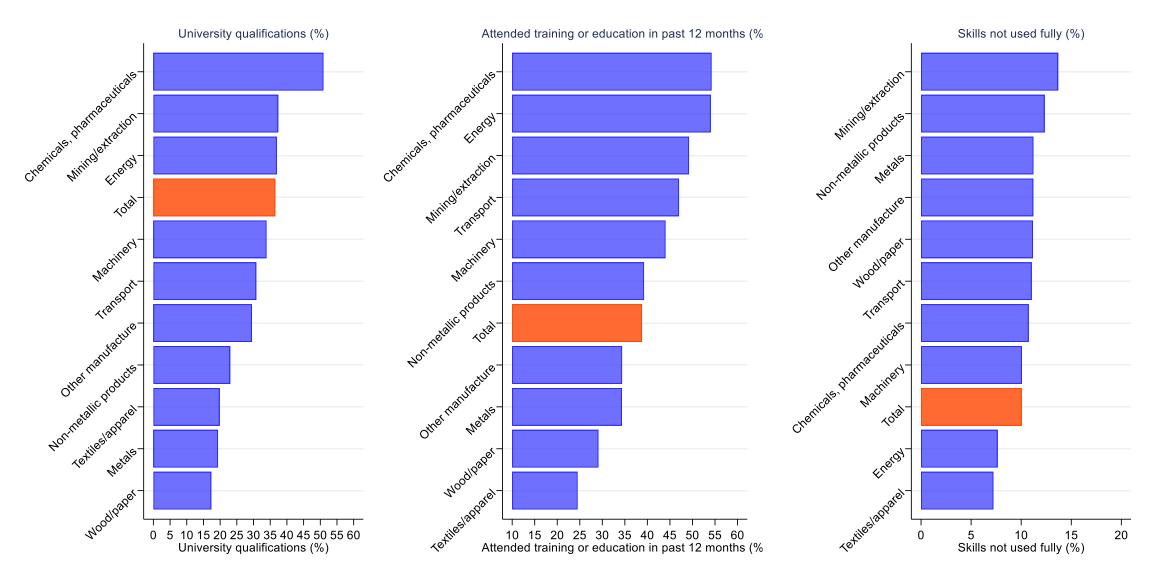


Skills shortage?

- Highest shortages in middle-educated occupations
- Need for technical/vocational profiles
- Training
 - European Pillar of Social Rights
 - European Skills strategy
 - Questions:
 - Quality / quantity
 - Who pays? Employer (productivity), employee (career)



Training





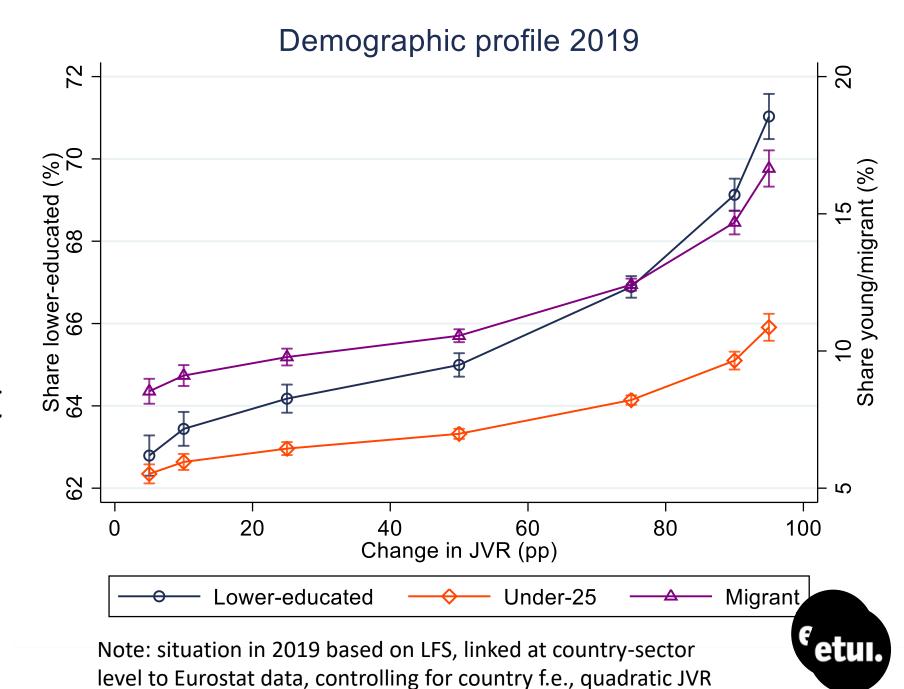
Source: ETWCS 2021

Temporary and cyclical reasons

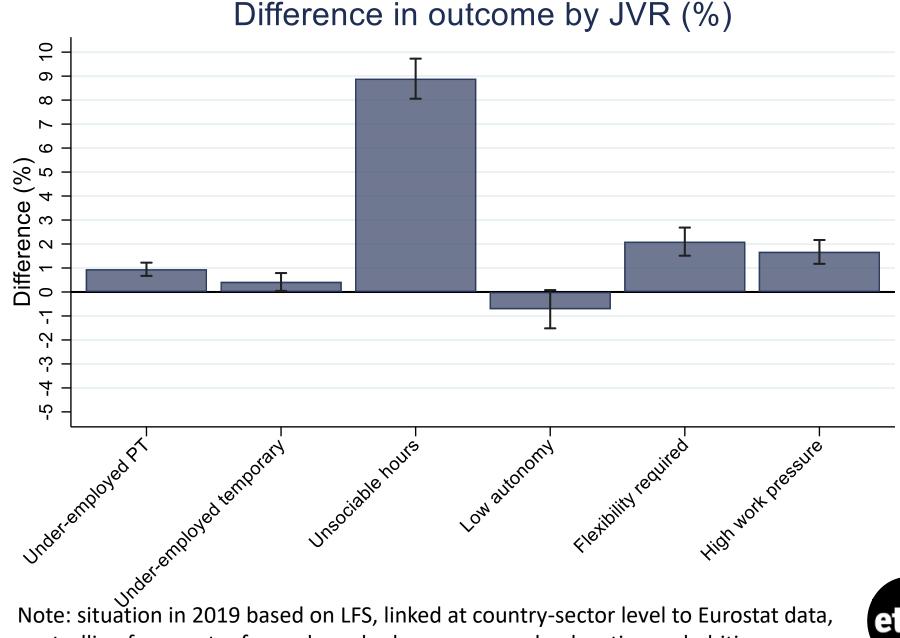
- Surging demand after Covid-19 recovery
- Slight slump in migration/mobility
- Possible re-evaluation in workers' preferences (contact, healthcare)
- → Made shortages more acute
- Increases bargaining power and mobility towards better jobs



Sharpest increase – more loweducated, young, migrant workers



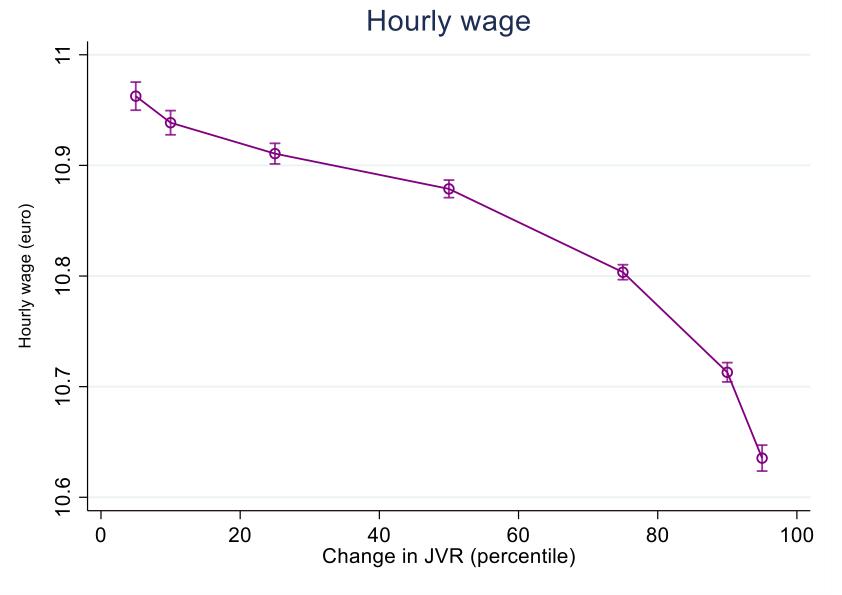
JVR rose sharpest where conditions are worse



Note: situation in 2019 based on LFS, linked at country-sector level to Eurostat data, controlling for country f.e. and gender by age squared, education, cohabiting, quadratic JVR



JVR rose sharpest where conditions are worse

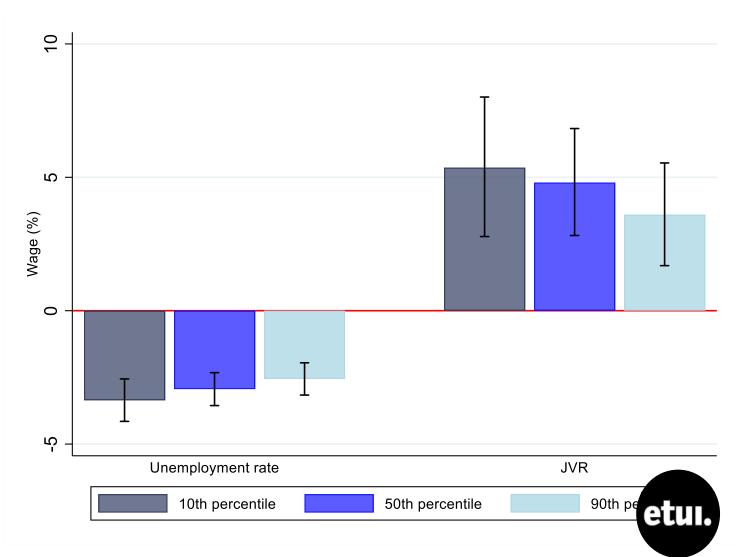


Note: situation in 2018 based on SES, linked at country-sector level to Eurostat data, controlling for country f.e. and gender by age squared, education, firm-size, tenure ate firm, occupation, quadratic JVR



Tight labour market as an opportunity

- Bargaining power has been shifting towards employers with digitalization, differences between firms
- Demand for labour can shift it back somewhat
- Higher wage growth at the bottom
- Similarly in the US.



Challenges and opportunities

- Long-term labour shortages can hinder productivity and competitiveness
- Can endanger green transition
- Mobility and migration can only help so much → many shortages are ubiquitous.
- Need to ensure skilled workforce
 on-the-job training and vocational rather than highly educated workers
- Tight labour market also advantages workers → improve labour conditions



Conclusion

- Shortages reflect structural and temporary aspects
- Specific profiles are lacking
 - Skills and education particularly technical/digital
 - Continuous → European Year of Skills
- Sharp rise in JVR since Covid-pandemic
- These sectors were categorized by:
 - Relatively lower-qualified, young, and migrant workers
 - Worse conditions: contracts, autonomy and work pressure
 - Relatively lower pay

