

22 March 2021

REFLECTIONS ON POST-PANDEMIC DIGITAL SKILLS NEEDS

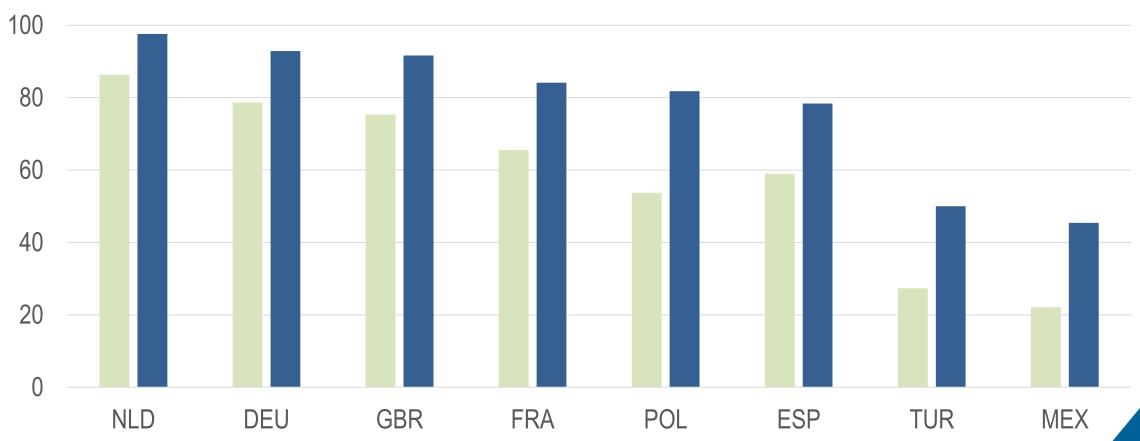




Digitalisation has been spreading fast

Percentage of households with computers, 2007 and 2017

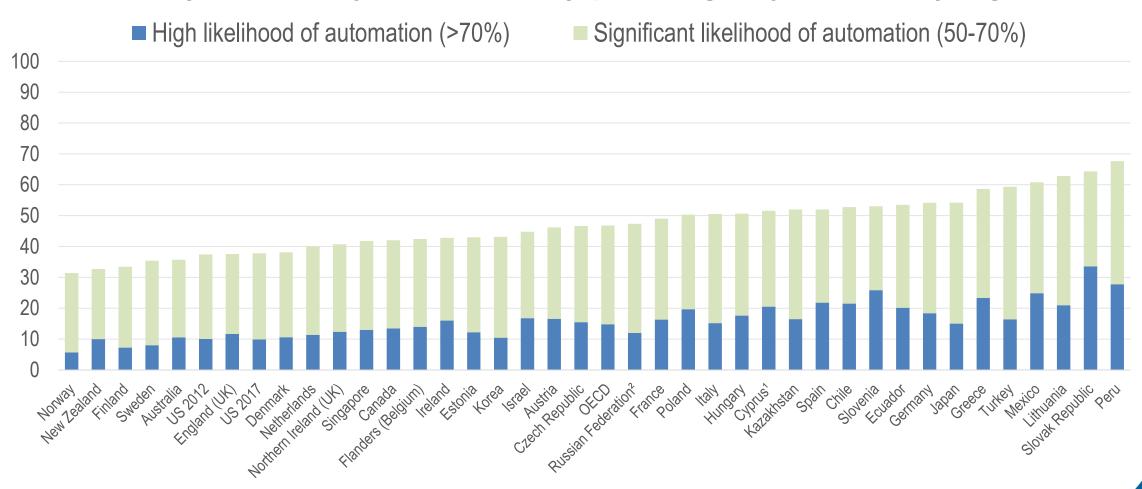






And many tasks will be automated

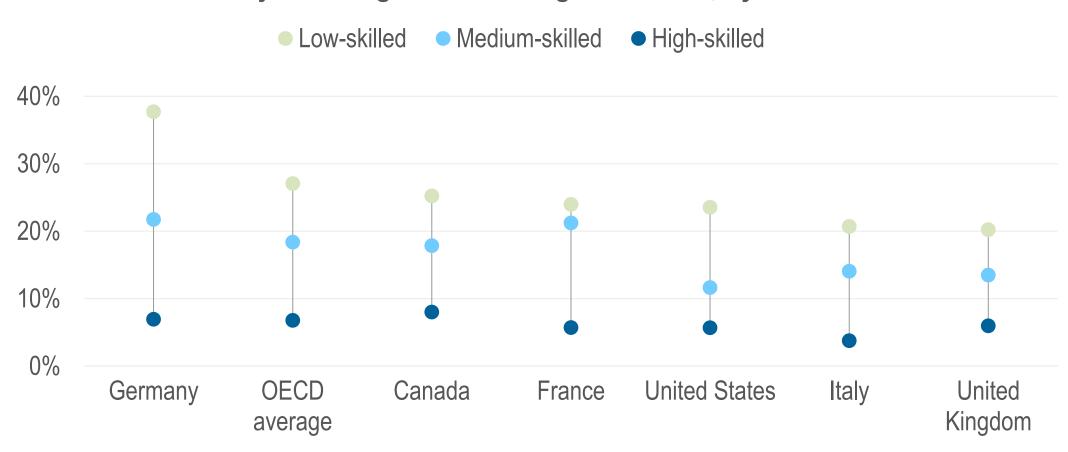
Cross-country variation in job automatability, percentage of jobs at risk by degree of risk





With potentially distributional consequences

Share of jobs at high risk of being automated, by education



Source: Nedelkoska and Quintini, 2018, based on PIAAC data (2012)



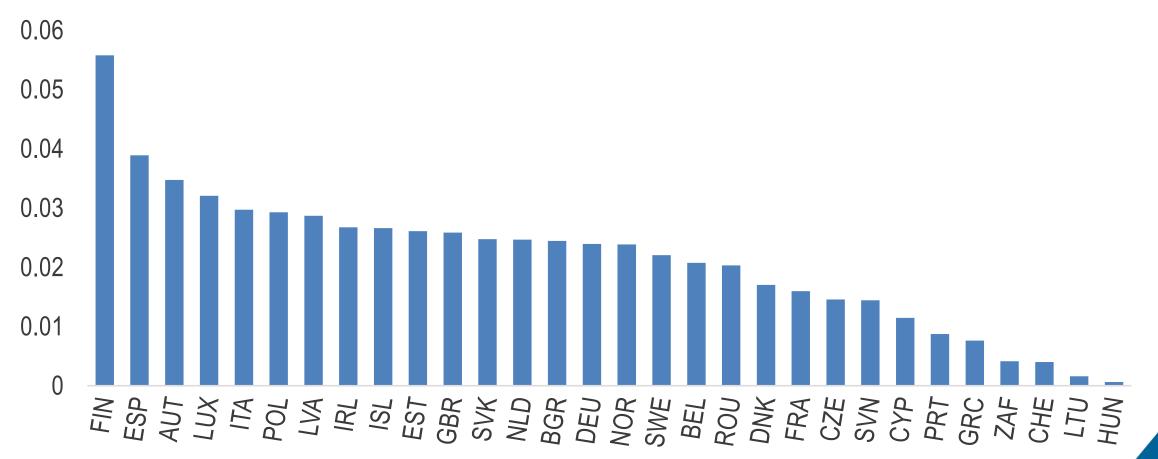
What do we mean by digital skill needs?





Many countries have a critical shortage in specialist skills

Index of shortages in computers and electronics skills



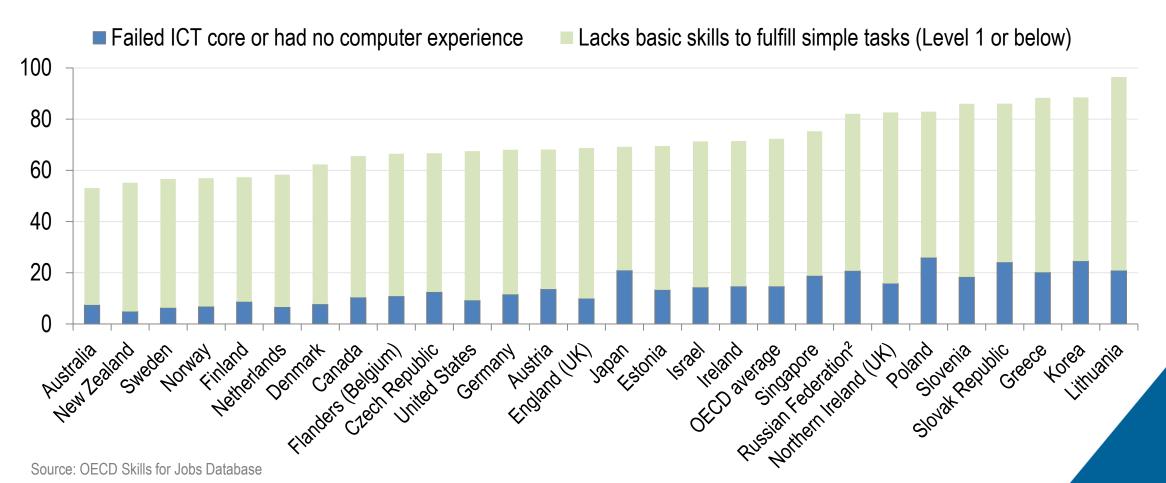
Source: OECD Skills for Jobs Database



More basic and general digital skills are often lacking

Problem-solving skills in Technology-Rich Environments

Percentage of the working-age population (aged 15/16-64)





As are many of the complementary skills

Skills in surplus in most countries

Skills in shortage in most countries

Physical strength, peripheral vision, depth perception, stamina

reasoning, fluency of ideas

Manual dexterity, control precision

Dependability, leadership, initiative, cooperation

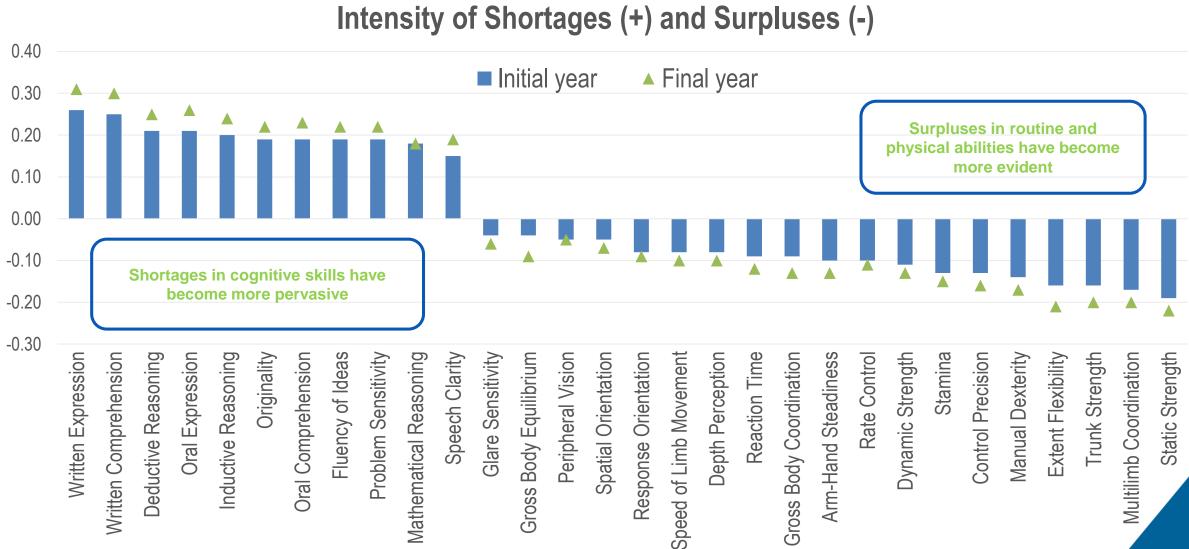
Inductive and deductive

Engineering and technology, food processing, building and construction

Social perceptiveness



These trends have strengthened

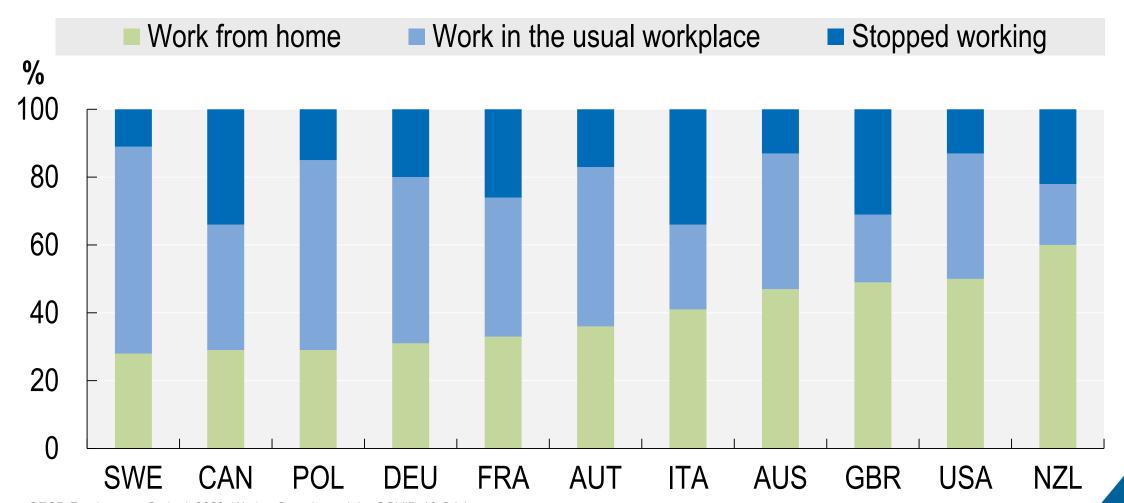


Source: OECD Skills for Jobs Database



What has been the impact of Covid-19?

Share of total workers usually employed before the onset of the crisis

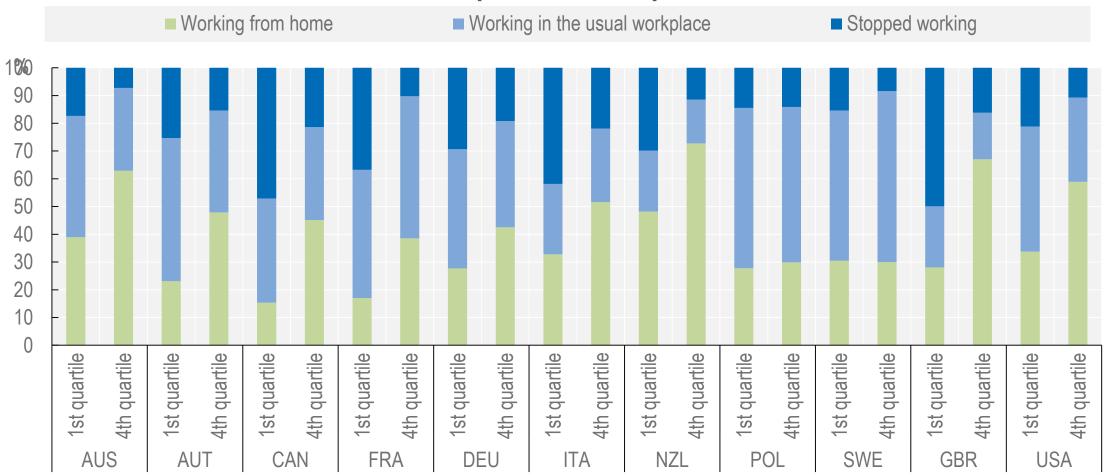


Source: OECD Employment Outlook 2020: Worker Security and the COVID-19 Crisis



Access to teleworking varied by income

Share of total workers usually employed before the onset of the crisis by earnings quartile, mid-April 2020



Source: OECD Employment Outlook 2020: Worker Security and the COVID-19 Crisis



Youth have missed out on work experience



Many apprenticeships were cancelled, interrupted or put on hold and certification was disrupted



Internship were mostly cancelled or allowed online, missing out on much of informal learning



Work-based learning was disrupted as it was difficult to provide online



What needs to be done?



Raising training participation through tailored solutions for vulnerable groups



Reducing barriers to participation: covering direct and indirect costs and providing flexible solutions



Developing career guidance and advice and effective outreach



Aligning the training content more strongly with the skills needs of the labour market – e.g. digital skills



Improving the quality and impact of training provision



Certifying training to make it portable and modular



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