PROJECTING THE IMPACT OF ICT ON JOBS AND SKILLS

Vincenzo Spiezia

Senior Economist
Measurement and Analysis of the Digital Economy (MADE)
vincenzo.spiezia@oecd.org
JOBS
Impact of ICT on labour demand

Fast technological progress in ICTs

- rapid decrease in ICT equipment/software price

- large investments in ICTs
ICT investment and labour demand

Change in employment following a permanent 5%-decrease in the user cost of ICT capital

Change in labour demand due to ICT investments 1990-2012
Average yearly rates (%)
SKILLS
Demand for **ICT generic skills (OPS)** by country

Share of employed individuals using OPS daily at work, 2011 and 2014

Source: OECD, based on PIAAC Database, October 2015.
Correlations between OPS intensity and task frequency – by education, 2012

Average across countries

Source: OECD, based on PIAAC Database, October 2015.
Correlations between ICTs and activity groups (changes over time)

By typical skill level of occupations (job zone)

1. Interacting with Others
2. Mental Processes
3. Work Output (complex, technical)
4. Work Output (physical, manual)
5. Information Input

Source: OECD, based on O*NET, June 2015.