Digital Innovation Hubs and the need for upskilling the workforce in the wake of digitisation

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DER SPIEGEL

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Sie sind entlassen!

Wie uns Computer und Roboter die Arbeit wegnehmen —
und welche Berufe morgen noch sicher sind

Sportarzt Müller-Wohlfahrt
Heilende Hände, aber
Probleme mit den Finanzen

Eine dramatische Karriere
Erst Gefängnis, dann
Präsidentenpalast?

Steinzeit-Drama
Warum Neandertaler
zu Kannibalen wurden

Digital skills at different life stages

ict specialist skills

ict advanced user skills for work

ict basic user skills for work

Digital skills for everyday life

Youth

Workforce

Senior citizens
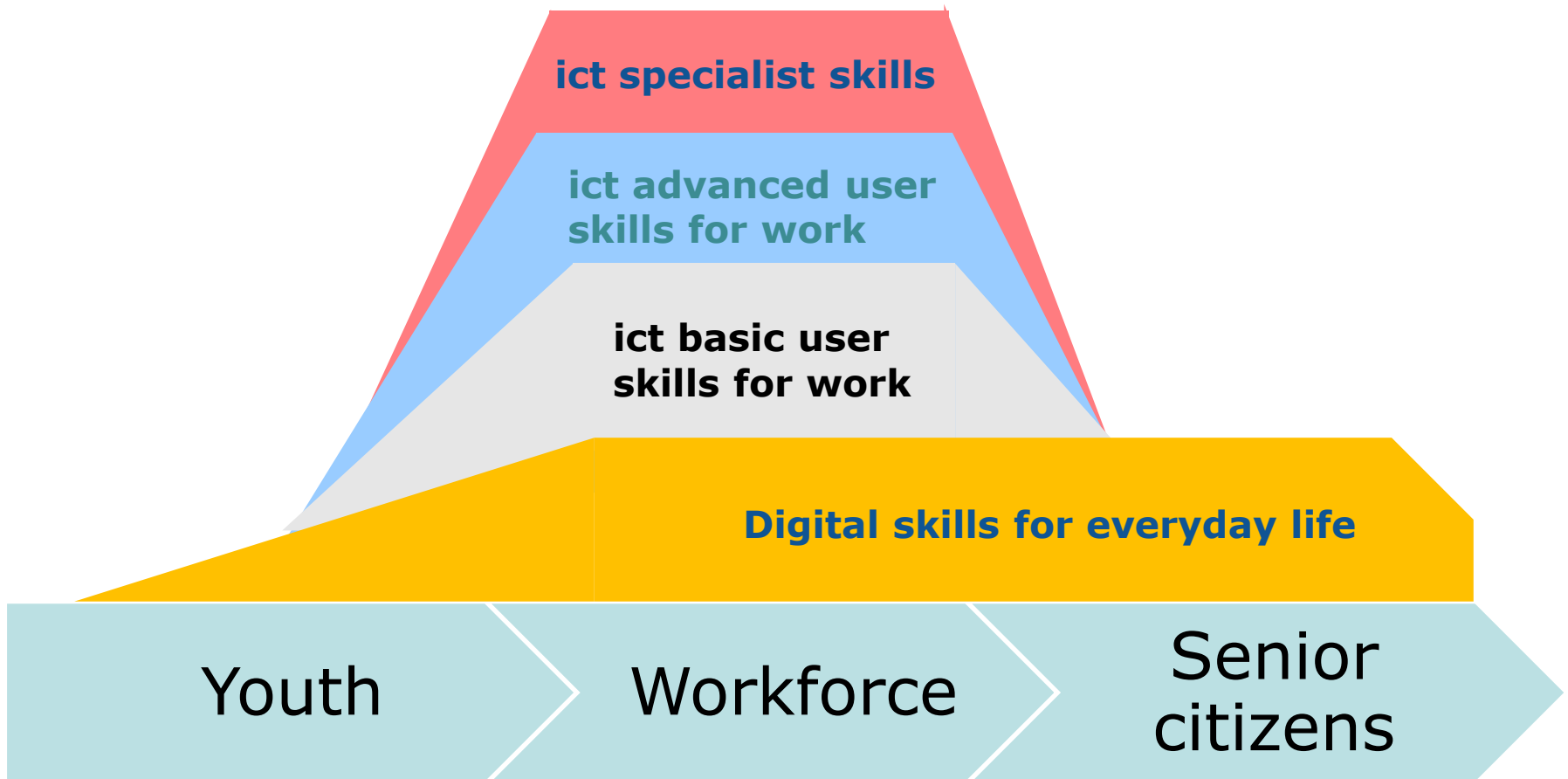
The whole labour force needs digital skills

Today's hospital doctors need digital skills
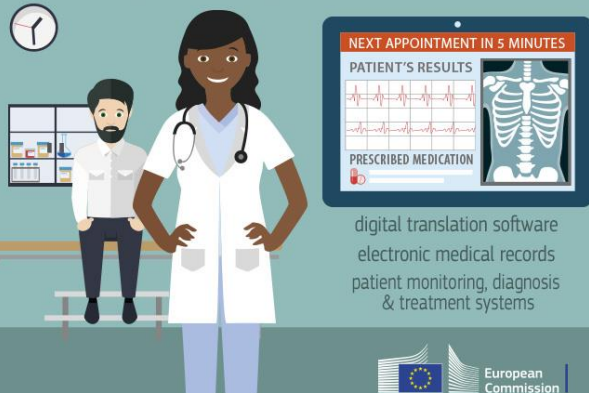
Benefits:

- facilitates communication between doctors & patients
- improves access to medical information
- allows doctors to save time and to treat more patients

NEXT APPOINTMENT IN 5 MINUTES
PATIENT'S RESULTS
PRESCRIBED MEDICATION

digital translation software
electronic medical records
patient monitoring, diagnosis & treatment systems

European Commission

#EUSkillsAgenda

Today's industrial machine operators need digital skills

Benefits:

- faster manufacturing & reduced errors
- less hard, manual, repetitive tasks
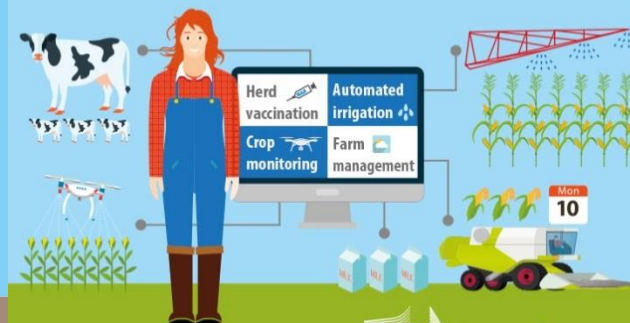- manufacturing processes more sustainable.

computer-aided design
manufacturing & machinist calculating software

European Commission

#EUSkillsAgenda

Today's VET teachers need digital skills

- Learning management systems
- Virtual learning platforms
- Digital simulation technologies

INTERACTIVE WHITE BOARD

Benefits:

- improved communication between teachers & students
- improved quality of learning
- increased safety

European Commission

#EUSkillsAgenda

Today's farmers need digital skills

Herd vaccination
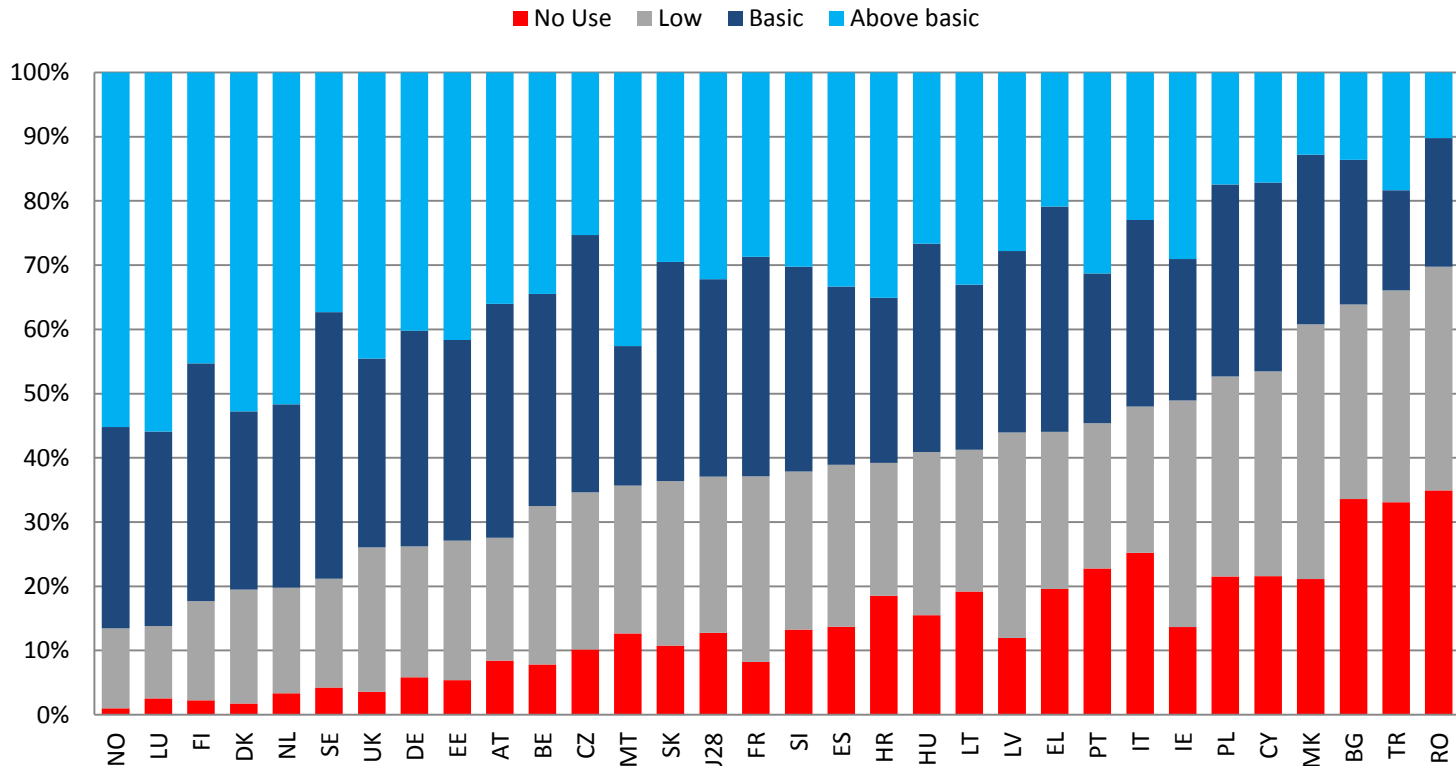Automated irrigation
Crop monitoring
Farm management

Mon 10

Benefits:

- improved decision making
- less repetitive & physically demanding tasks
- increased flexibility, productivity & animal health

European Commission

#EUSkillsAgenda

37% of the EU workforce has insufficient digital skills, 13% have no digital skills at all

Digital skills of the labour force, 2015 (% labour force with above basic, basic and low digital skills and no internet use)
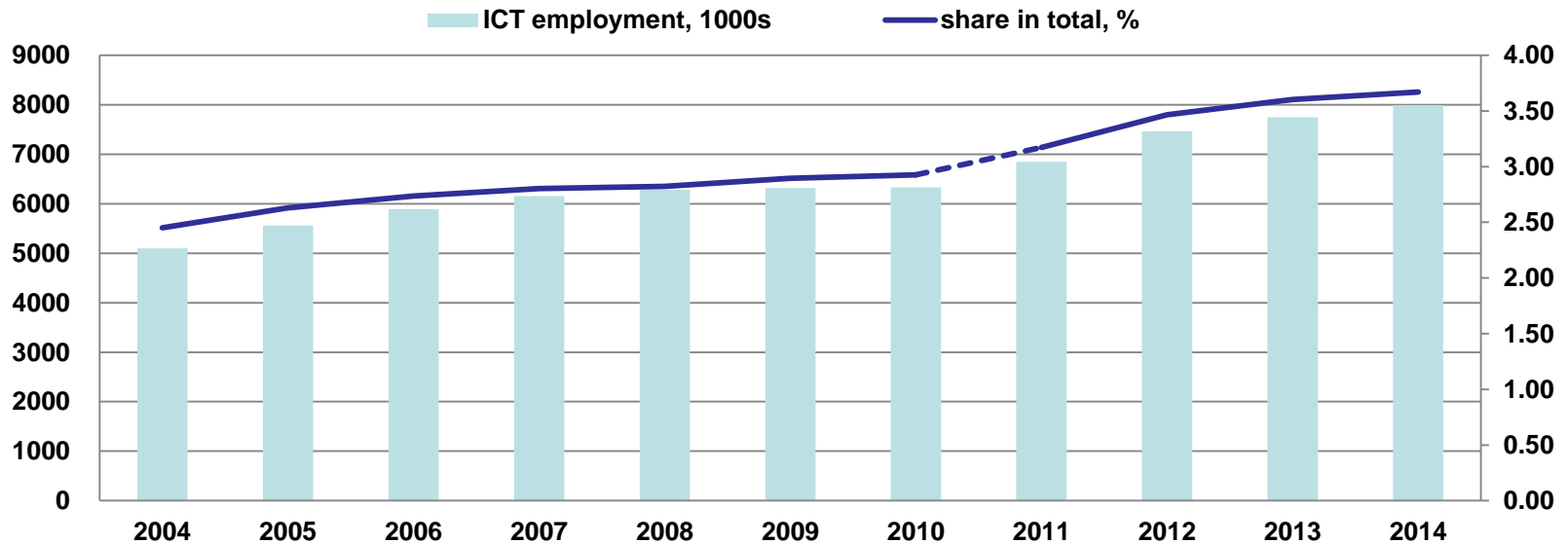

Legend: ■ No Use ■ Low ■ Basic ■ Above basic

Categories: NO, LU, FI, DK, NL, SE, UK, DE, EE, AT, BE, CZ, MT, SK, EU28, FR, SI, ES, HR, HU, LT, LV, EL, PT, IT, IE, PL, CY, MK, BG, TR, RO

Source: Commission services based on Eurostat data

Employment of ICT specialists has grown by 2.9 million in the EU over last 10 years

Employment of ICT specialists in the EU in absolute terms and as a share of total employment, 2004-2014

Source: Eurostat

Shortage of digital technology experts

- 40% of enterprises trying to recruit ICT professionals have difficulty doing so

- Market failure: supply is not responding to demand

2015:   337,000 open vacancies

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2020:   756,000 open vacancies

Source: Empirica, May 2015

New Skills Agenda for Europe

- Adopted in June 2016
- Digital skills in all actions, in particular:

  Skills guarantee
  Blueprint

- **Digital Skills and Jobs Coalition**

  - Multi-stakeholder partnership (education, business, social partners, Member States) to tackle the digital skills challenge with concrete actions
  - Building on the achievements of the Grand Coalition for Digital Jobs

Addressing the digital skills gap

- **New Skills Agenda:** digital skills in all actions, in particular:
  - Skills guarantee
  - Blueprint

- **Digital Skills and Jobs Coalition**
  - Multi-stakeholder partnership (education, business, social partners, Member States) to tackle the digital skills challenge with concrete actions
  - Building on the achievements of the Grand Coalition for Digital Jobs

Coming up:
LAUNCH on DECEMBER 1st

- **We would like to bring DIHs and related actors into the Coalition**

- **Do you want to be invited for the conference?**

- **=> mail me at alexander.riedl@ec.europa.eu**

- **Join the Coalition**

- "Shared Concept" by Member States

- Renewed pledges, good practices, awards

Questions for you:

- *What is the role of DIHs in assessing skills needs and skills delivery?*

- *Connecting DIHs with skills providers in the ecosystem: how do you do it?*

- *Who has good practices to share of what works and what not, including the use of European funds?*

- https://ec.europa.eu/digital-single-market/en/news/apply-now-new-european-digital-skills-award-2016

Thank you!

Q & A

@digitalskillsEU

Backup

@digitalskillsEU

The Grand Coalition for Digital Jobs

- Launched in 2013

- More than 2 million people trained

- 100 stakeholders, mostly from ICT industry and "digital constituency"

- National and local coalitions in more than 13 countries

What is new?

Broadening the scope to the workforce as **all sectors become digital**

Involve Member States and stakeholders in designing and delivering solutions: national digital skills strategies and national coalitions by 2017, joint targets by end of 2016

Best-practice exchange; pledges and joint training programmes; link to sectoral "blueprints"

Better use of European and national **funds**