

# HOW TO DIGITAL SKILLS IN CZECHIA? ROLE OF MIT IN DIGITAL SKILLS

International conference THE ROLE OF DIGITAL SKILLS  
March 24, 2021 (on line)



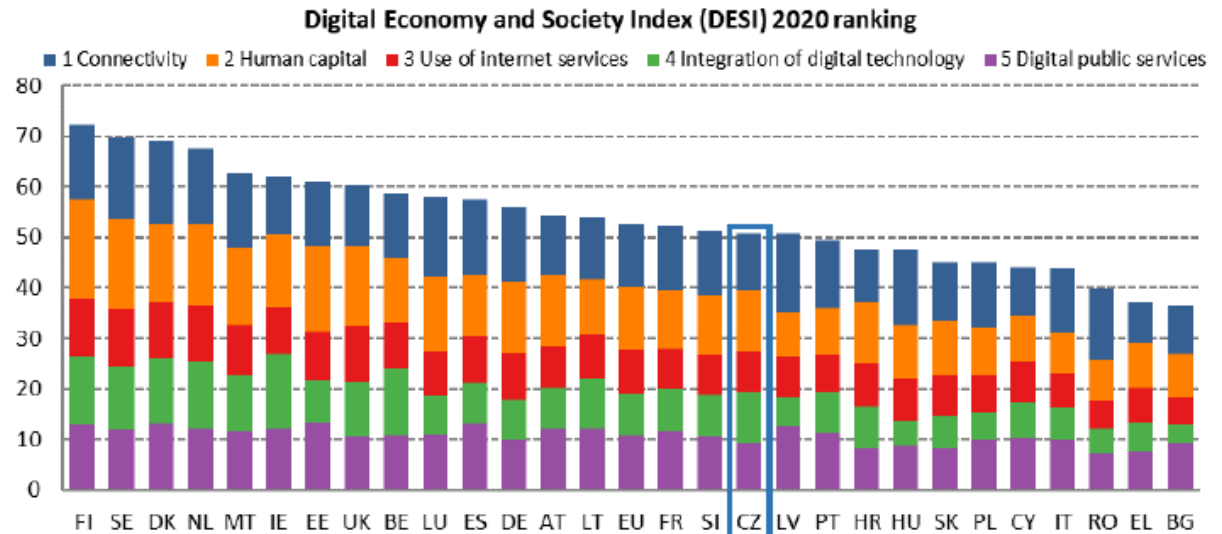
MINISTRY OF  
INDUSTRY AND TRADE

Petr Očko  
Deputy minister for digitization and  
innovation

# CZ position in DESI 2020

- ▶ Still under EU avg.
- ▶ Modest „step by step“ improving
- ▶ Quite good in „Human capital“
- ▶ Weak in „Digital public services“

	Czechia		EU
	rank	score	score
DESI 2020	17	50.8	52.6
DESI 2019	18	47.3	49.4
DESI 2018	19	44.7	46.5

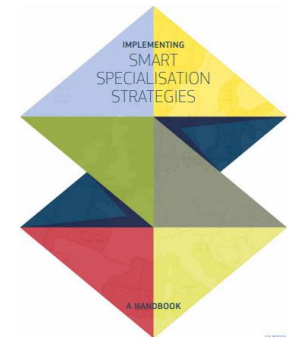
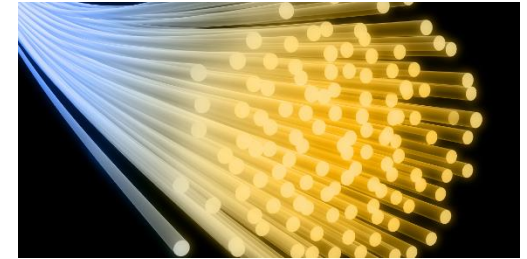


## ▶ We must invest more into digital skills!!!

- ▶ Citizens (to be able to use internet services)
- ▶ Employees (to provide digital transition in companies)
- ▶ Businesses (to be able to implement digital processes)

# MIT – digital transition responsibility

- ➔ Infrastructure (*National Plan for the Development of Very-High-Capacity Networks*)
- ➔ Digital Czech Rep. – pillar Digital Economy and Society
- ➔ Research & Innovation (*National Research and Innovation Strategy for Smart Specialisation*)
- ➔ Development and implementation of AI (*National Artificial Intelligence Strategy*)
- ➔ Support of SMEs (*SME Support Strategy for the period 2021 – 2027*)



# Smart Specialisation Strategy

## ➔ S3 (RIS3):

- ▶ Commonly used concept of support for research, development and innovation in EU countries
- ▶ **Objective:** to use and develop the potential of a given country or region to create a long-term competitive advantage based on knowledge and innovation



## ➔ The essence of smart specialization:

- ▶ Concentrate all available resources (material, human and financial) on only a few priority areas where the country / region is able to achieve significant change
- ▶ (Unlike "sprinkling" - area support for everything on a small scale)
- ▶ Continuous „Entrepreneurial Discovery Process“ of detection business opportunities and directing activities towards increasing competitiveness

## ➔ Implementation of RIS3 = enabling condition for investing EU funds for research and innovation

# National RIS3 Priorities

## Horizontal priorities

- Response to generic/horizontal issues of the RD&I system in the CZ in key areas of change
- Horizontal strategic a specific objectives of RIS3 (necessary for change the system):
  - Business RD&I
  - Public R&D
  - **People and smart skills**
  - Digital agenda

## Vertical thematic priorities

### Domains of research & Innovation Specialisation

Combination of technological specialisation in cross-cutting technologies (KETs) and absorption capacity for new knowledge and R&D in the application sectors:

- Specific RD&I topics
- KET applications
- Relevant topics from the social sciences

### Societal challenges

Specific topics focusing on responses to emerging societal challenges solvable by RD&I

# Structure of RIS3 horizontal priorities

## Key areas of change

Business RD&I

People and smart skills

Digital agenda

Public R&D

## Strategic objectives

Increasing the Innovation performance of companies

Increase the availability of skilled work force for RD&I

Increase the use of new digital technologies

Improving the quality of public research

**Digital transition of the Czech Rep.**

# How can MIT support it?

- ➔ Own MIT activities focused on business
  - ▶ Training of employees in companies that provide digital transformations (e.g. introduction of robotic production will be accompanied by operator training)
  - ▶ Awareness rising in business (seminars and other communication activities focused on better understanding of digital transition in the company)
  - ▶ Improvement of digital innovation ecosystem (establishment of Digital Innovation Hubs – DIH and eDIH) in Czech regions that will provide up-skilling towards advanced digital skills

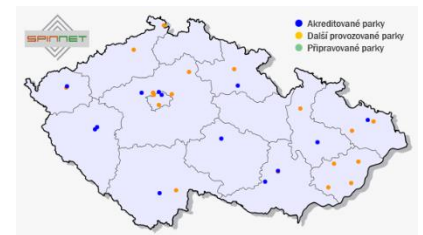
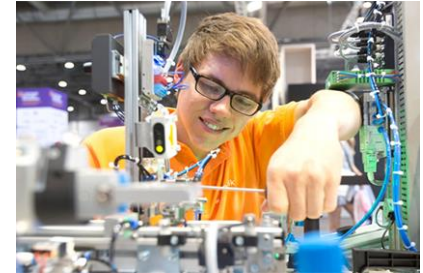


**Funded from national budget, OP TAC and Digital Europe Programme**

# How can MIT support it?

## ➔ Cooperation with others

- ▶ Ministry of Education, Youth and Sports: *focused on dual education and Long Life Learning; support of polytechnic education*
- ▶ Confederation of Industry of the Czech Republic/Chamber of Commerce: *cooperation on VET; training and employment of foreigners*
- ▶ Innovation centres in regions: *Help with education of businesses (through regional offices of governmental agency Czechinvest)*



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# Digital Europe Programme

- ➔ Advanced digital skills
  - Specialised education programmes or modules in key capacity areas
  - Short term training courses in key capacity areas
  - Advanced digital skills analysis
  - Promoting European excellence in educational innovation
- ➔ European Digital Innovation Hubs
  - Train the trainer programme
  - Reskilling and upskilling of employees



# National AI Strategy of the Czech Republic

- ➔ Human capital and the education system together with lifelong learning
  - ▶ Developing methodological support for school principals, teachers and faculties educating teachers for proposed changes in the curriculum
  - ▶ Financial support and accreditation of a new PhD program for AI in English at national level
  - ▶ Financial support and accreditation of PhD program for study of social, economic, security and legal impacts of AI



# Thank you for your attention



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