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The Czech Republic's national strategy for digitising industry

European Commission






Průmysl 4.0 (Industry 4.0)

- The initiative **Industry 4.0** was prepared by the **Ministry of Industry and Trade** and approved by the Government in August **2016**
- It involves **different ministries** according to relevant measures, business associations, trade unions and academia.
- Has become a part of the newly established **Alliance Society 4.0** and is taken into consideration by the **Czech Action Plan for Society 4.0**.

<http://www.mpo.cz/en/industry/industry-four/>

Funding – there are no specific resources for Industry 4.0, but it is possible to draw from various sources:

- **Operational Program Enterprise and Innovation (OP PIK):** key financial instrument to support the implementation of P4.0 national strategy; **120bn CZK (4,5bn EUR)**
- Additional operation programmes from the the Ministry of Education, Youth and Sports, and the Ministry of Social Affairs are allocating **CZK 145bn (5.48bn EUR)** with the aim to address educational and social digital transformation
- The Ministry of Industry and Trade is also preparing a **National Innovation Fund (NIF)** subsidised with **CZK 1.3bn (49M EUR)** to activate the venture capital market

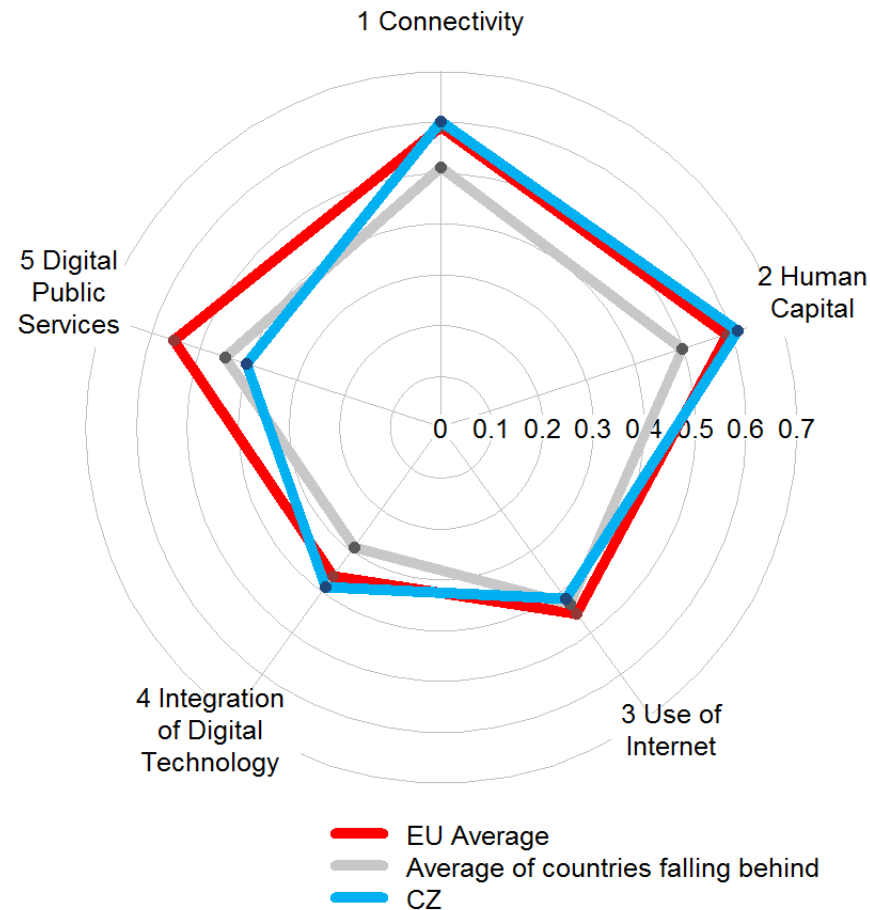
 Policy Lever(s)	Bottom-up approach, public financing, orientation towards skills.
 Funding Model	Funding model based on already existing Operation Programmes of the involved ministries and the Technological Agency of the Czech Republic.
 Target audience(s)	Policy makers, private sector, R&D organisations, industry associations, academia.
 Concepts & Focus Areas	Timely response to the market and industry changes by creating a flexible education system, adapting the labour market and regulatory framework.
 Key drivers	Active involvement of the policy makers from key Ministries, representatives from industry, business, research and education.
 Key barriers	Reluctance to change, insufficient knowledge of Industry 4.0, deficient coverage of broadband connection in some regions.
 Implementation strategy	A team of experts involved in the creation of the Action Plan for Alliance Society 4.0, dissemination activities and awareness raising already in place.
 Results achieved	No results available, the initiative is still in the early stage of implementation.

For more information please refer to the individual report per Member State on the national and regional initiatives on Digitising European Industry available on <https://ec.europa.eu/futurium/en/implementing-digitising-european-industry-actions/national-initiatives-digitising-industry>

The Czech Republic's performance in the DESI 2016



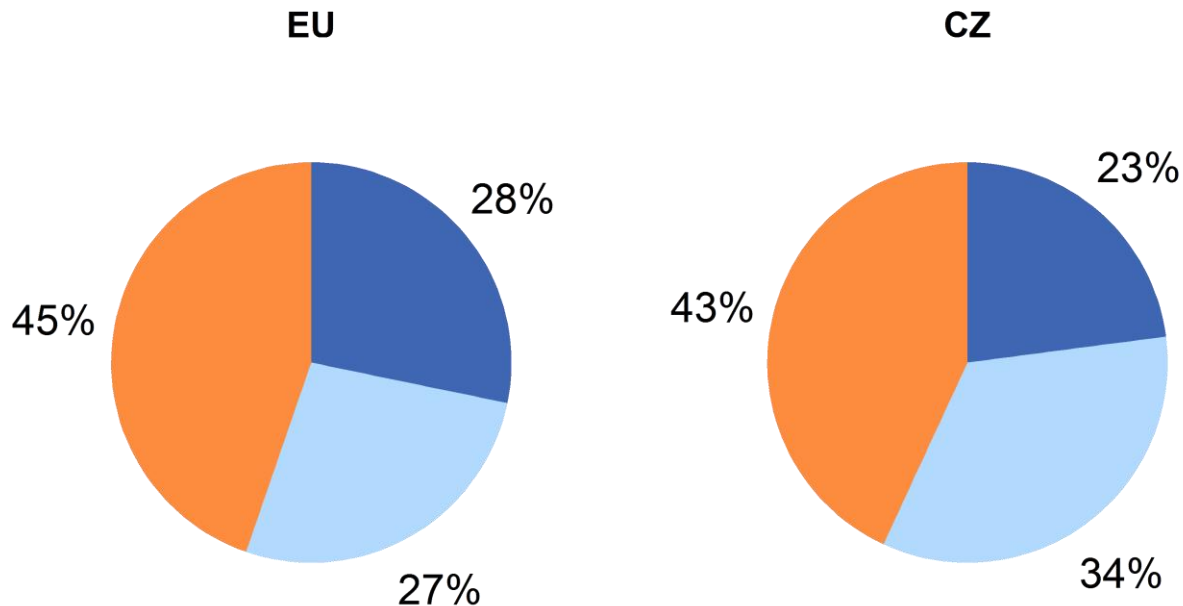
**The Czech Republic ranks 17 among EU countries.
It is part of the group of countries that are falling behind.**



In the Czech Republic 34% of citizens have basic digital skills (27% in the EU) and 23% have above basic digital skills (28% in the EU).

Digital Skills (2015)

■ Above basic digital skills ■ Basic digital skills ■ Low or no digital skills, or do not use the internet

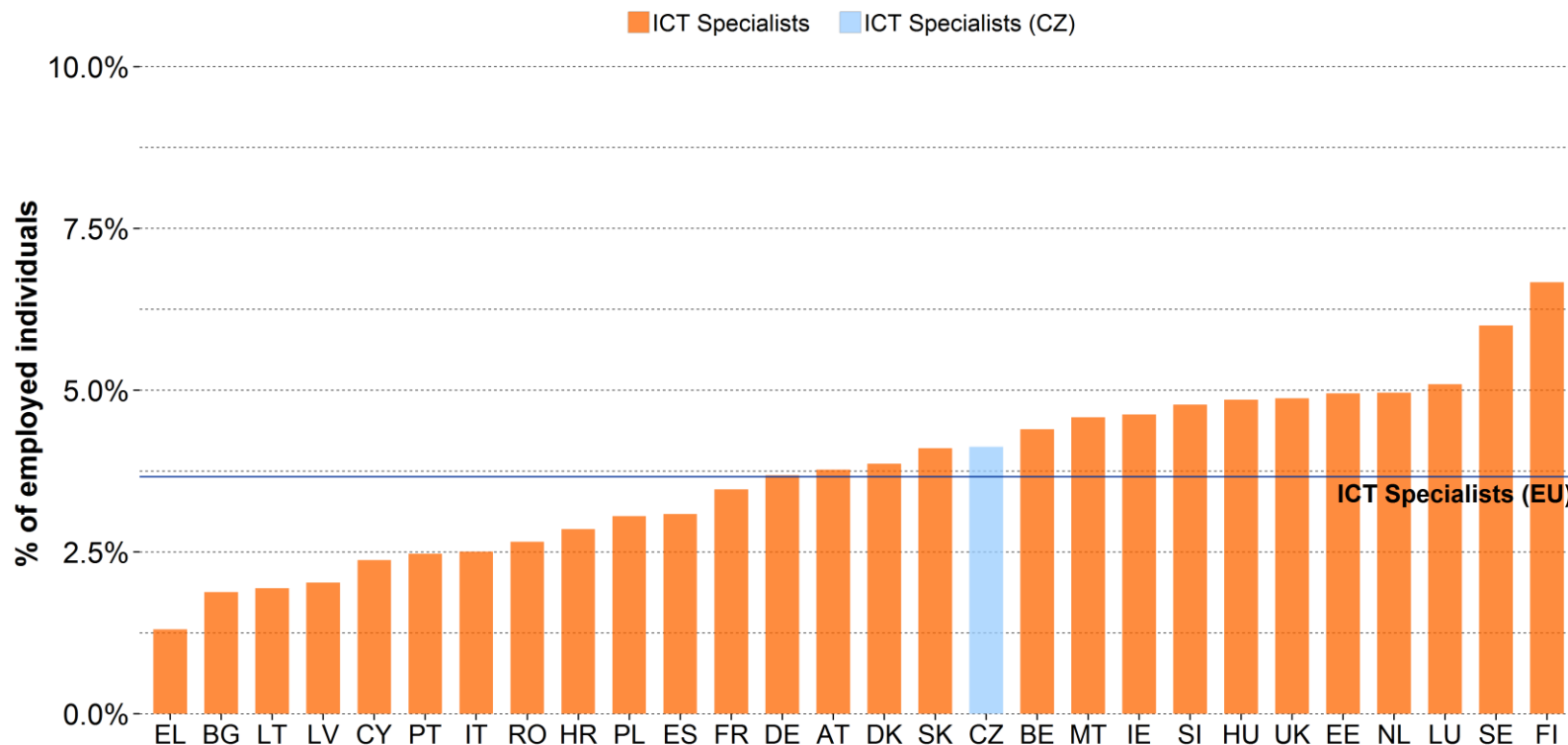


% of individuals

Human Capital: ICT Specialists in the workforce

In the Czech Republic ICT Specialists account for 4.1% of the workforce (3.7% in the EU).

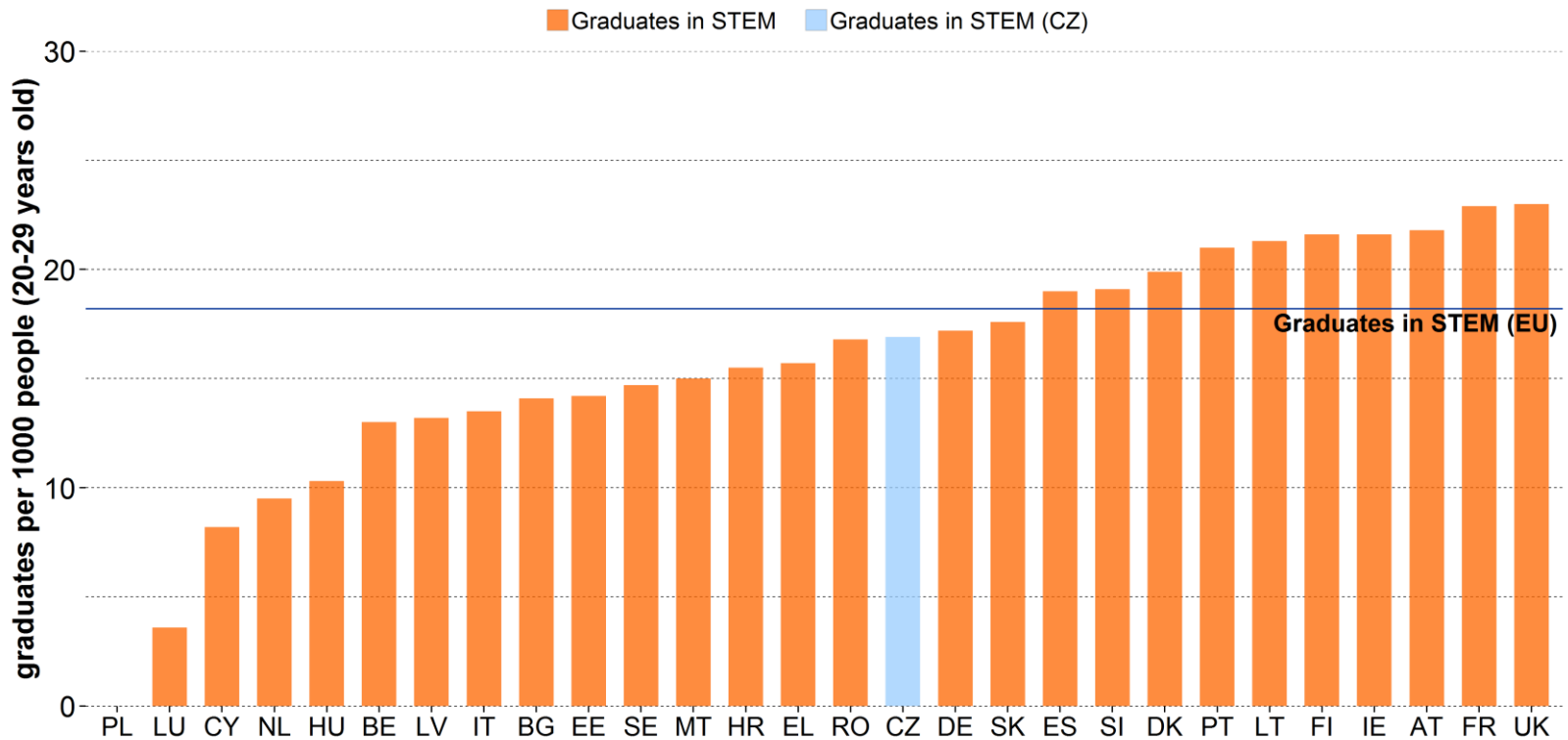
ICT Specialists in the workforce (2014)



Human Capital: Graduates in STEM (Science, Technology and Mathematics)

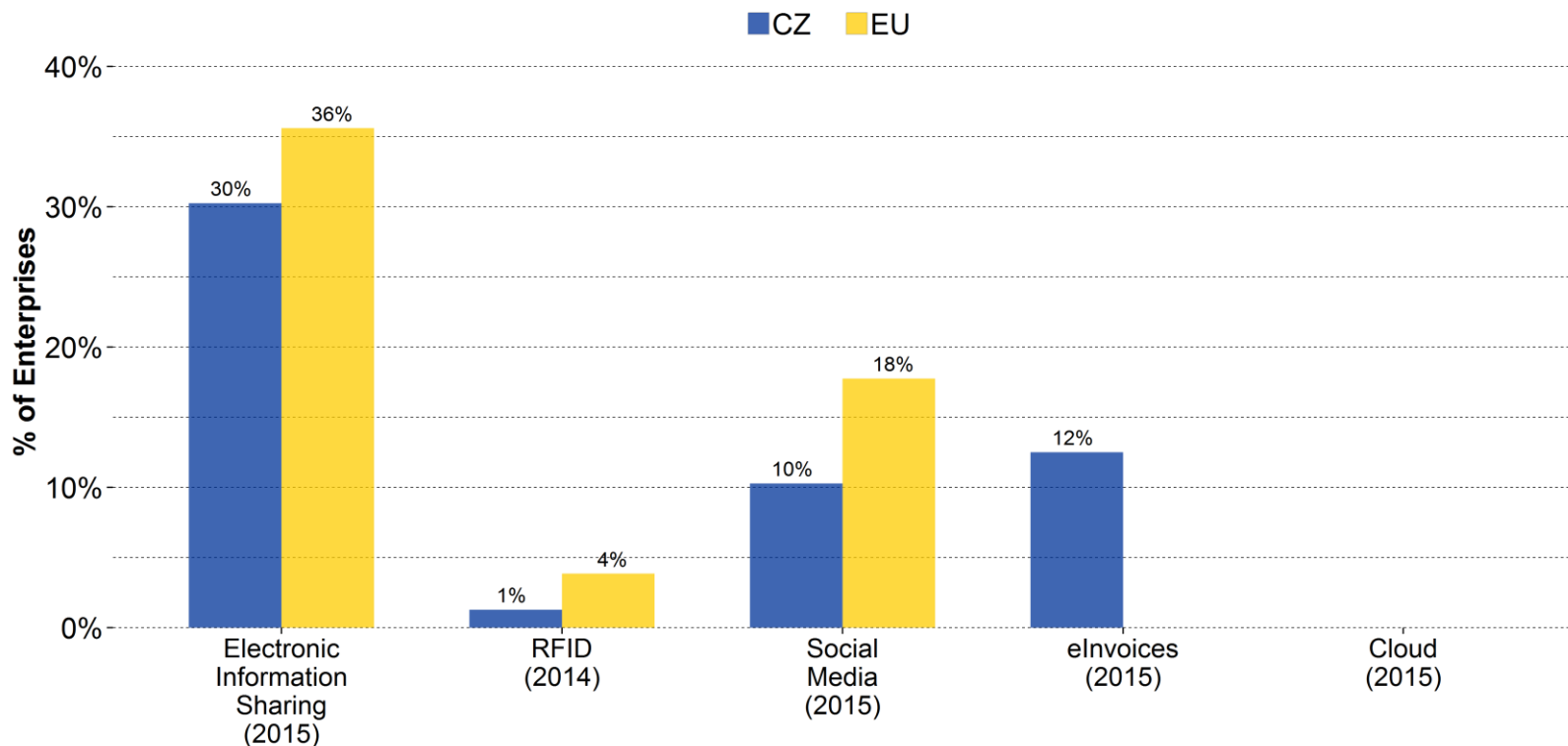
The Czech Republic has 17 graduates in STEM per each 1000 people aged 20-29 years old (18 in the EU).

Graduates in Science, Technology and Mathematics (2013)



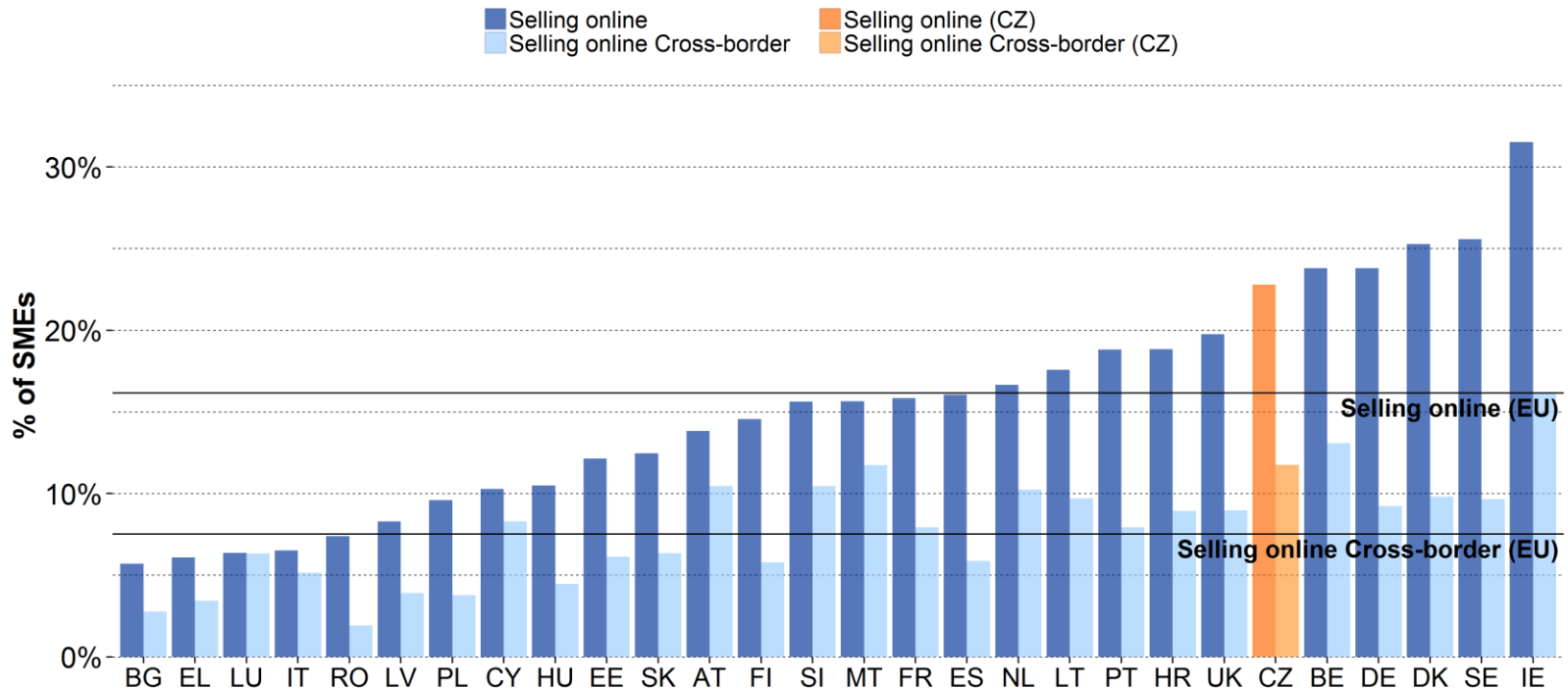
Businesses in the Czech Republic are adopting different digital technologies to enhance productivity, such as sharing internal information electronically or using RFID, eInvoicing, Social Media and Cloud.

Adoption of Digital Technology by Businesses



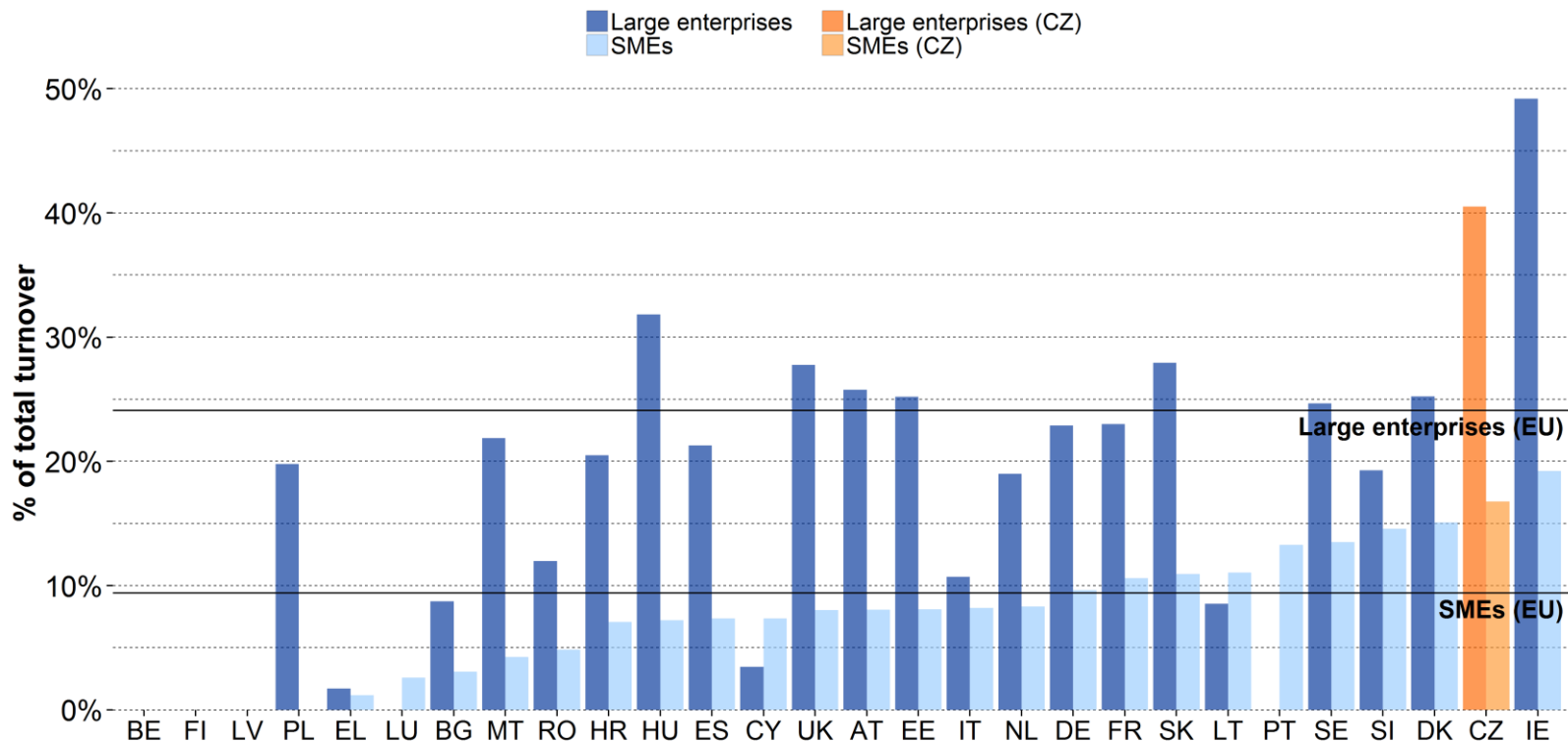
**In the Czech Republic 23% of SMEs sell online (16% in the EU).
12% of Czech SMEs sell online to other EU countries (7.5% in the EU).**

SMEs selling online Overall (2015) vs. Cross-border (2015)



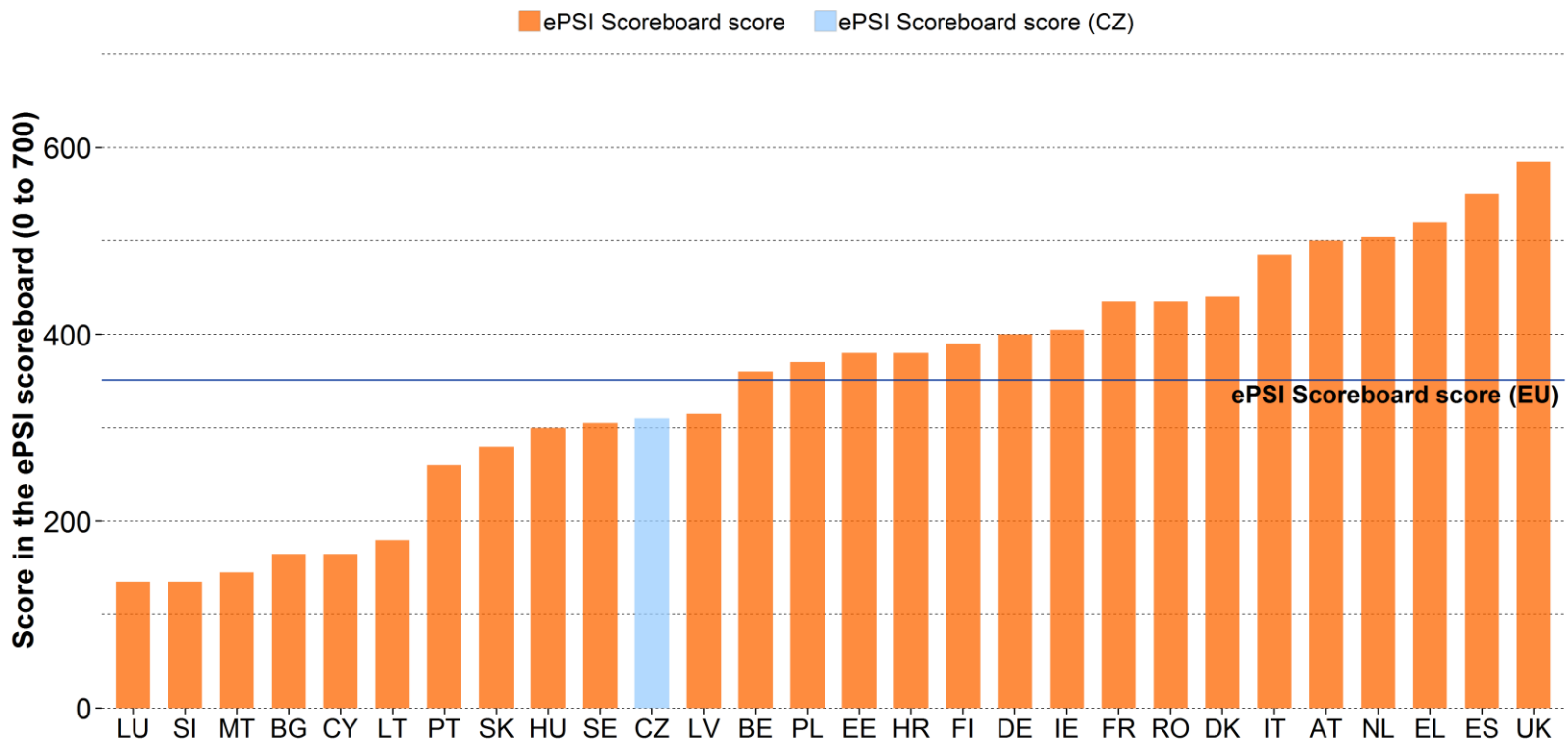
SMEs in the Czech Republic obtain on average 17% of their turnover from eCommerce (9.4% in the EU). Large enterprises derive on average 40% of their turnover from eCommerce (24% in the EU).

Turnover from eCommerce (2015)



The Czech Republic scores 310 out of 700 in the European Public Sector Information scoreboard, against an overall score of 351 out of 700 for the European Union.

Open Data (2015)

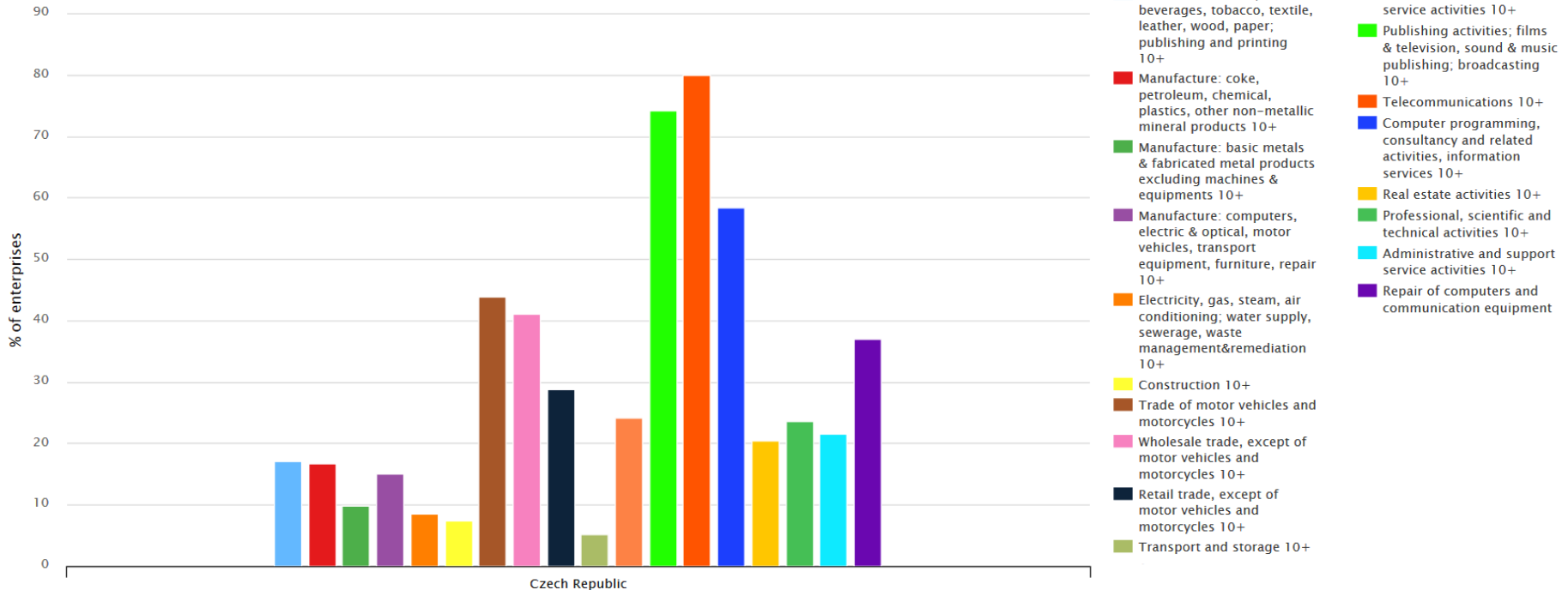




Enterprises with high level of Digital Intensity by economic sectors in the Czech Republic

Enterprises with High levels of Digital Intensity, by Economic sectors (17 Nace groups)

Year: 2016



Legend

- Manufacture: food, beverages, tobacco, textile, leather, wood, paper; publishing and printing 10+
- Manufacture: coke, petroleum, chemical, plastics, other non-metallic mineral products 10+
- Manufacture: basic metals & fabricated metal products excluding machines & equipments 10+
- Manufacture: computers, electric & optical, motor vehicles, transport equipment, furniture, repair 10+
- Electricity, gas, steam, air conditioning; water supply, sewerage, waste management&remediation 10+
- Construction 10+
- Trade of motor vehicles and motorcycles 10+
- Wholesale trade, except of motor vehicles and motorcycles 10+
- Retail trade, except of motor vehicles and motorcycles 10+
- Transport and storage 10+
- Accommodation and food service activities 10+
- Publishing activities; films & television, sound & music publishing; broadcasting 10+
- Telecommunications 10+
- Computer programming, consultancy and related activities, information services 10+
- Real estate activities 10+
- Professional, scientific and technical activities 10+
- Administrative and support service activities 10+
- Repair of computers and communication equipment

Sectors where less than 30% of the companies have a high level of digital intensity

- Manufacture: food, beverages, tobacco, textile, leather, wood, paper; publishing and printing 10+
- Manufacture: coke, petroleum, chemical, plastics, other non-metallic mineral products 10+
- Manufacture: basic metals & fabricated metal products excluding machines & equipment 10+
- Manufacture: computers, electric & optical, motor vehicles, transport equipment, furniture, repair 10+
- Electricity, gas, steam, air conditioning; water supply, sewerage, waste management & remediation 10+
- Construction 10+
- Retail trade, except of motor vehicles and motorcycles 10+
- Transport and storage 10+
- Accommodation and food service activities 10+
- Real estate activities 10+
- Administrative and support service activities 10+
- Professional, scientific and technical activities 10+

Sectors where more than 30% of the companies have a high level of digital intensity:

- Trade of motor vehicles and motorcycles 10+
- Wholesale trade, except of motor vehicles and motorcycles 10+
- Publishing activities; films & television, sound & music publishing; broadcasting 10+
- Telecommunications 10+
- Computer programming, consultancy and related activities, information services 10+
- Repair of computers and communication equipment

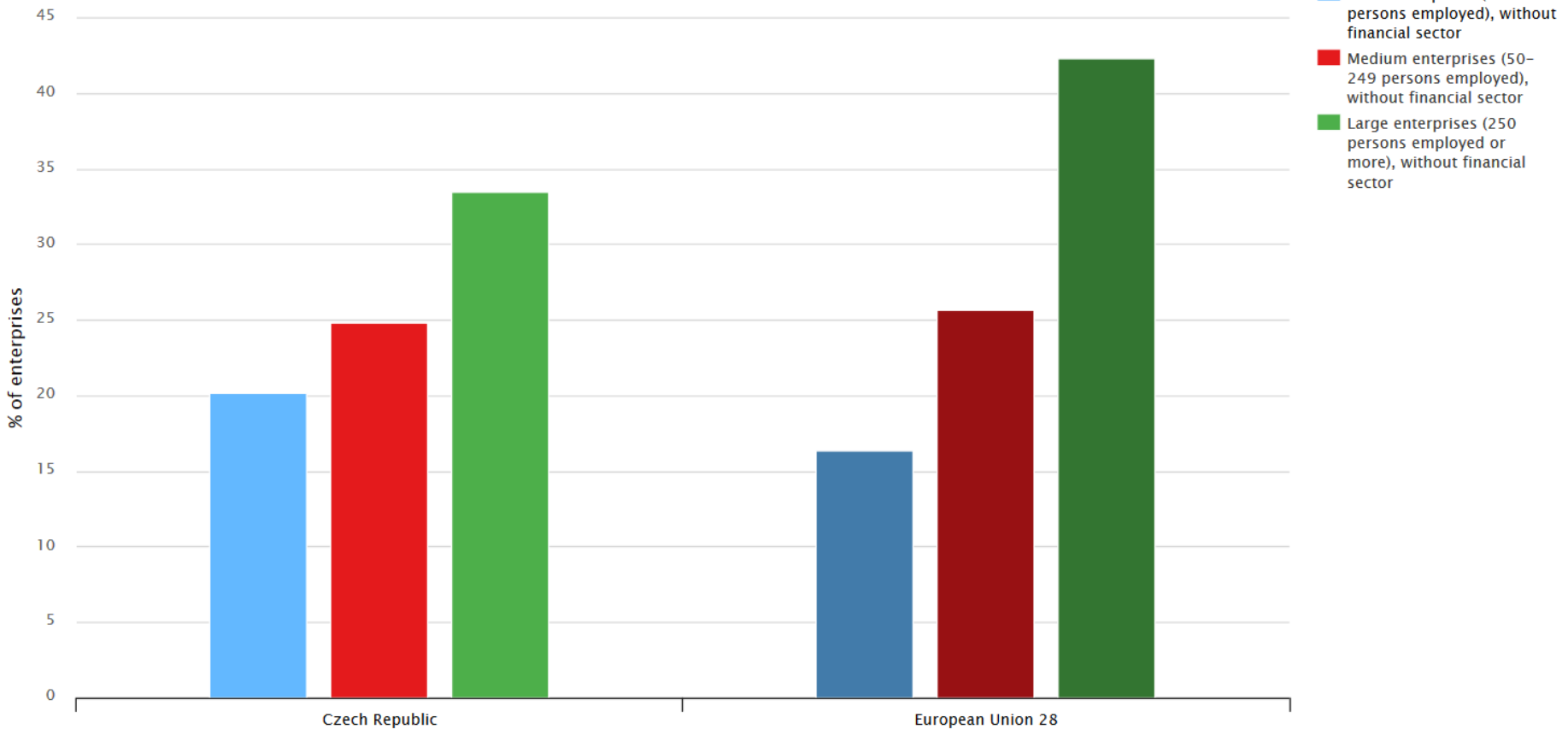
[http://digital-agenda-data.eu/charts/analyse-one-indicator-and-compare-breakdowns#chart={%22indicator-group%22:%22ebusiness%22,%22indicator%22:%22e_di_hivhi%22,%22breakdown-group%22:%22econsector%22,%22unit-measure%22:%22pc_ent%22,%22time-period%22:%222016%22,%22ref-area%22:\[%22CZ%22\]}](http://digital-agenda-data.eu/charts/analyse-one-indicator-and-compare-breakdowns#chart={%22indicator-group%22:%22ebusiness%22,%22indicator%22:%22e_di_hivhi%22,%22breakdown-group%22:%22econsector%22,%22unit-measure%22:%22pc_ent%22,%22time-period%22:%222016%22,%22ref-area%22:[%22CZ%22]})

Enterprises with high levels of digital intensity, by Enterprise size

European Commission

Enterprises with High levels of Digital Intensity, by Enterprise size (Small, Medium, Large)

Year:2016



[http://digital-agenda-data.eu/charts/analyse-one-indicator-and-compare-breakdowns#chart={%22indicator-group%22:%22ebusiness%22,%22indicator%22:%22e_di_hivhi%22,%22breakdown-group%22:%22byENTsize_s_m_l%22,%22unit-measure%22:%22pc_ent%22,%22time-period%22:%222016%22,%22ref-area%22:\[%22CZ%22,%22EU28%22\]}](http://digital-agenda-data.eu/charts/analyse-one-indicator-and-compare-breakdowns#chart={%22indicator-group%22:%22ebusiness%22,%22indicator%22:%22e_di_hivhi%22,%22breakdown-group%22:%22byENTsize_s_m_l%22,%22unit-measure%22:%22pc_ent%22,%22time-period%22:%222016%22,%22ref-area%22:[%22CZ%22,%22EU28%22]})

Digital Innovation Hubs Catalogue

The Czech Republic case

European
Commission



SMART SPECIALISATION PLATFORM

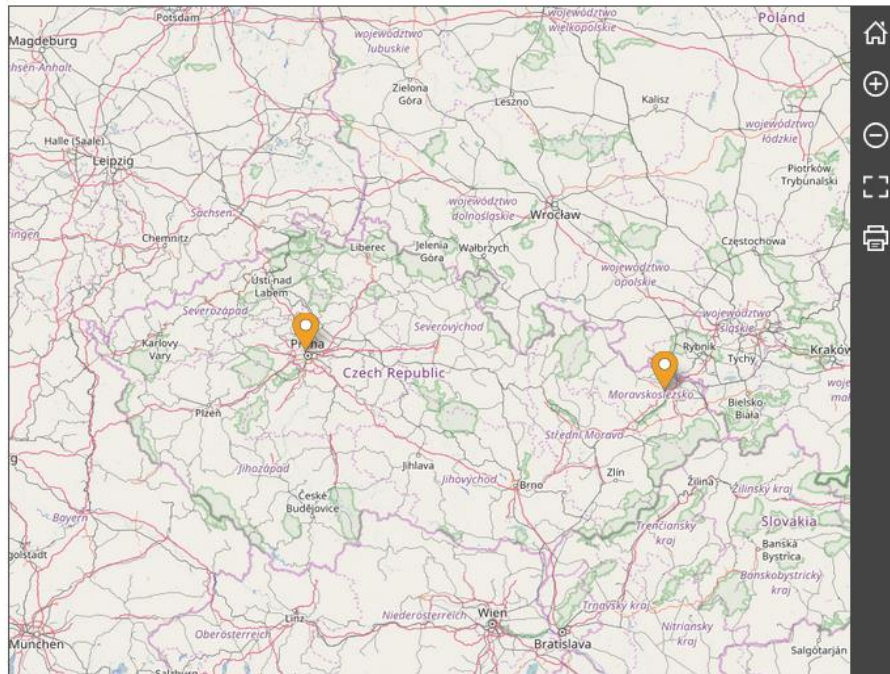


European Commission / Smart Specialisation Platform / Tools / Digital Innovation Hubs

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Search

Digital Innovation Hubs



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Export Hubs to csv

Hub Name	Location	Country	Contact	Phone	Email	Website
Industry 4.0 Center at CIIRC	Zikova 1903/4, 166 36, Praha 6	Czech Republic	Ing. Michaela Horáková	+420224354139	✉	🌐
IT4Innovations National Supercomputing Center	17. listopadu 15/2172, 708 33, Ostrava-Poruba	Czech Republic	Ing. Karina Pešatová, MBA	+420597329587	✉	🌐

Search: CZECH REPUBLIC

Technical Competences: None selected

Services Provided: None selected

Focus on TRL: None selected

Market sectors: None selected

- Select all
- Agriculture, hunting and forestry
- Fishing
- Mining and quarrying
- Electricity, gas and water supply
- Construction
- Wholesale and retail trade
- Hotels and restaurants
- Transport, storage and communication
- Financial intermediation
- Real estate, renting and business activities
- Public administration and defence

The version available presents:

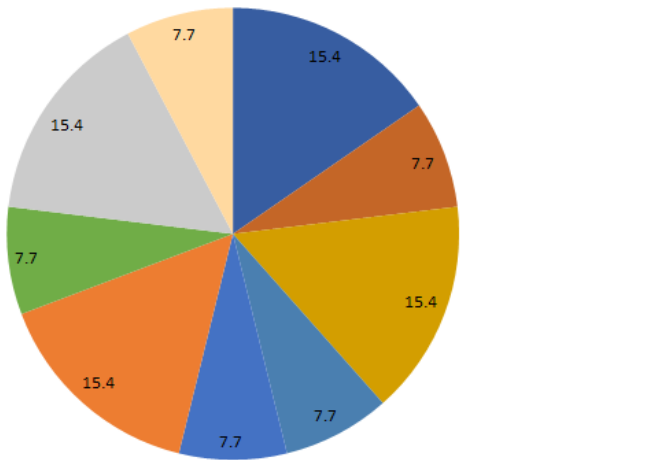
- Fact-sheets with profile, contact data, service examples for regional, national, and EU-supported DIHs
- Map-based search tool by technical competences, market sector, services

<http://s3platform.jrc.ec.europa.eu/digital-innovation-hubs-tool>

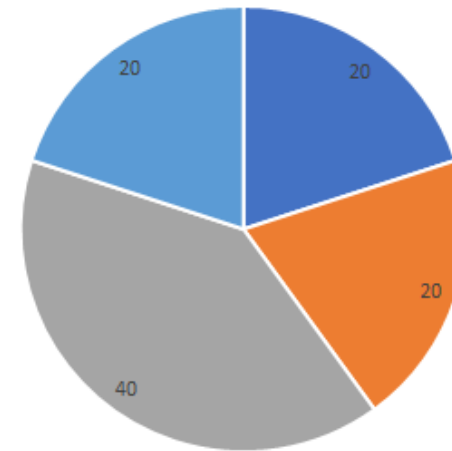
JRC-B3-DIH@ec.europa.eu

Services provided and types of customers supported by DIHs in the Czech Republic - Analysis

Types of services provided (%)



Types of customers supported (%)



- Concept validation and prototyping
- Awareness creation
- Commercial infrastructure
- Ecosystem building, scouting, brokerage, networking
- Incubator/accelerator support
- Mentoring
- Other (description)
- Testing and validation
- Voice of the customer, product consortia
- Access to Funding and Investor Readiness Services
- Collaborative Research
- Digital Maturity Assessment
- Education and skills development
- Market intelligence
- N/A
- Pre-competitive series production
- Visioning and Strategy Development for Businesses
- Large companies, multi-nationals
- N/A
- SMEs (<250 employees)
- MidCaps (between €2-10 billion turnover)
- Research organisations
- Start-up companies

The analysis of the data presented was conducted by TNO, the detailed data is provided in the Catalogue of DIHs available on: <http://s3platform.jrc.ec.europa.eu/digital-innovation-hubs-tool>



Competence centers/DIHs funded by EU projects in the Czech Republic in H2020

Project Topic Code	Project Acronym	Project Duration	Project End Date	Participant Legal Name	Participant Role	Participant Short Name	Core Legal Entity Type	Research Organisation?
FOF-12-2017	CloudiFacturing	42	31/01/2018	FERRAM STROJIRNA, s.r.o.	PARTICIPANT	FERRAM	PRIVATE	No
FOF-12-2017	CloudiFacturing	42	31/08/2021	VYSOKA SKOLA BANSKA - TECHNICKA UNIVERZITA OSTRAVA	PARTICIPANT	IT4I	PUBLIC	No
ICT-04-2017	TETRAMAX	48	31/08/2021	VYSOKA SKOLA BANSKA - TECHNICKA UNIVERZITA OSTRAVA	PARTICIPANT	IT4I	PUBLIC	No
ICT-04-2017	SmartEEs	36	13/09/2020	AMIRES SRO	PARTICIPANT	AMI	PRIVATE	No

Competence centers/DIHs funded by EU projects in the Czech Republic in FP7

Project Number	Project Acronym	Project Duration	Project Start Date	Project End Date	Project Number of Participants	Participant Short Name	Participant Legal Name	Participant Role	Organisation Type
609306	INTEFIX	36	01-Jul-2013	30-Jun-2016	33	RCMT	CESKE VYSOKE UCENI TECHNICKE V PRAZE	Participant	HES
609306	INTEFIX	36	01-Jul-2013	30-Jun-2016	33	TYC	STROJIRNA TYC SRO	Participant	PRC
609306	INTEFIX	36	01-Jul-2013	30-Jun-2016	33	COMPOTECH	COMPO TECH PLUS SPOL SRO	Participant	PRC
601116	ECHORD Plus Plus	60	01-Oct-2013	30-Sep-2018	107	CVUT	CESKE VYSOKE UCENI TECHNICKE V PRAZE	Participant	HES
601116	ECHORD Plus Plus	60	01-Oct-2013	30-Sep-2018	107	SURO	STATNI USTAV RADIACNI OCHRANY v.v.i.	Participant	REC

Clusters in the Czech Republic [1-2]

European
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Search...

HOME CLUSTER ORGANISATIONS EU CLUSTER PARTNERSHIPS MATCHMAKING EVENTS INTERNATIONAL COOPERATION PARTNER SEARCH TOOLS

Cluster Organisations Mapping Tool

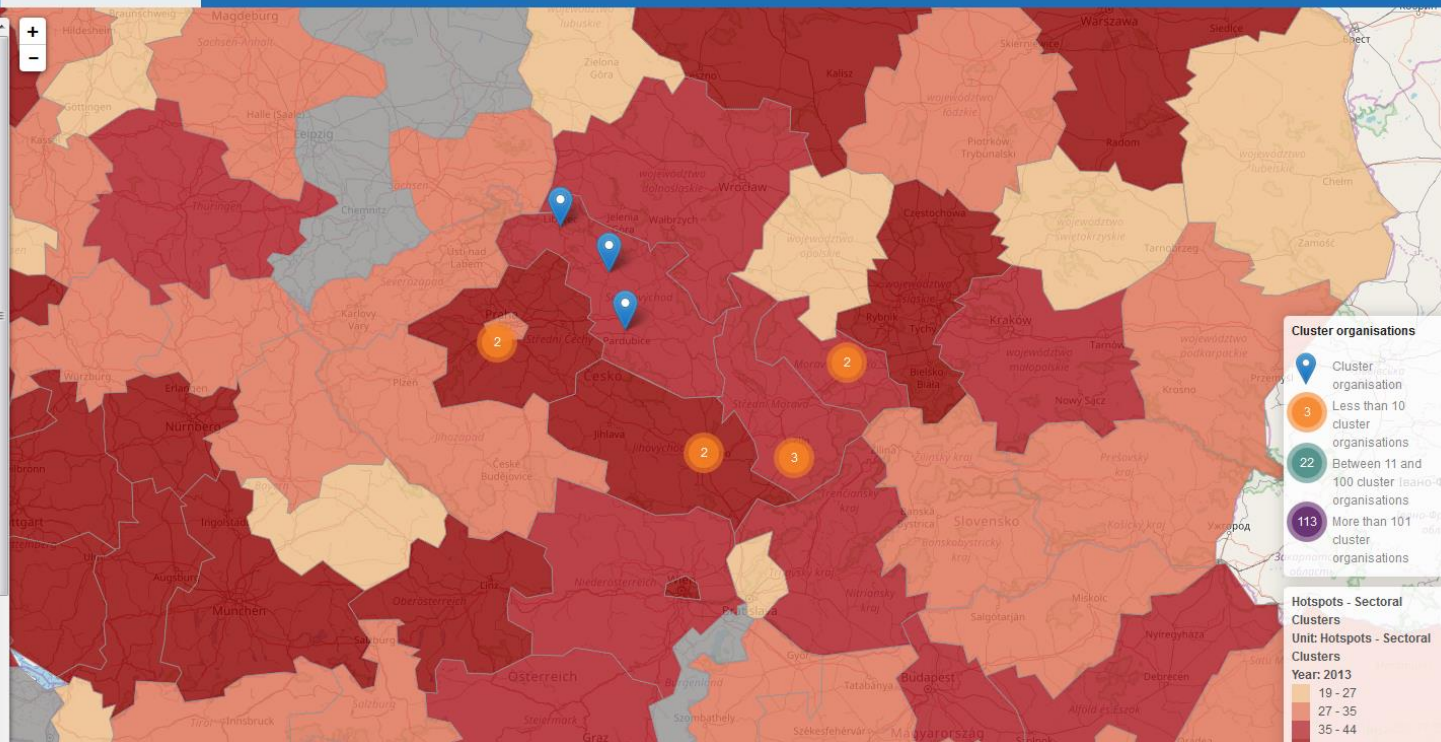
Welcome on the ECCP cluster organisations mapping tool. This tool maps cluster organisations registered on the ECCP platform and shows also data from the European Cluster Observatory.

Keywords search
Enter keywords here... Clear Selected list

Country & Regions
Country: Czech Republic Region: [dropdown]

Cluster Organisations
Sectoral Industries: All sectors Emerging industries: All emerging industri
Technology fields: All categories Participation in EU programmes: Any
S3 EU priority areas: All S3 priority areas Total number of members: Any
Number of staff: Any Cluster Excellence Label/Award: Any
ESCP-4i Membership: None Target countries for international activities: [input]
Target countries for trans-national activities: [input]

See selection on the list Reset filters



https://www.clustercollaboration.eu/print/cluster-list?combine=&country_code=cz

Please see [WG1 report](#)

Clusters in the Czech Republic [2-2]

European
Commission



Agentura pro podporu podnikání a investic



Hledaný text

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[O Czechinvestu](#) | [Kontakty](#) | [Tiskové centrum](#) | [Ke stažení](#)

Hlavní menu

- Úvodní stránka
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- Programy podpory
- Rozvoj spolupráce firem
 - Klasy
 - Technologické platformy
- Podpora výzkumu a vývoje
- Podpora investic
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- investice
- dotační programy

AGENTURA PRO PODPORU PODNIKÁNÍ A INOVACE



ETICKÁ LINKA

Víte o protiprávním jednání?



MINISTERSTVO
PRŮMYSLU A OBCHODU



[Úvodní stránka](#) > [Rozvoj spolupráce firem](#) > [Klasy](#) > Podpořené klasy v ČR

Podpořené klasy v ČR

[Výzva I.](#)

[Výzva II.](#)

[Výzva II. – pokračování](#)

Podporované klasy v ČR – Výzva I., II. a II. – pokračování



<http://www.czechinvest.org/podporene-klasy-v-cr>

The screenshot displays the GROWTH portal interface. At the top, the European Commission logo and the text "GROWTH Internal Market, Industry, Entrepreneurship and SMEs" are visible. Below this is a navigation bar with tabs for "Single Market and Standards", "Industry" (selected), "Entrepreneurship and SMEs", "Access to finance for SMEs", and "Sectors". A search bar is located on the left side of the navigation bar.

The main content area is titled "SMEs' Access to Key Enabling Technologies". It includes a sub-header "What is the objective of the map below?" followed by a paragraph: "To allow **SMEs**, wherever located in Europe, to find **Technology Centres** which can help to innovate through **Key Enabling Technologies (KETs)**." Below this, another paragraph states: "The Technology centres are selected according to **criteria** demonstrating their capacity to collaborate with **SMEs** on close-to-market research and innovation (Technology Readiness Levels 3 to 8, not necessarily the whole range)." A third paragraph asks "How to use the map?" and explains that filters on the right refine the search and that more details can be seen by clicking on markers.

On the right side, there is a "Filters" panel with a "Countries" section. A list of countries is shown with checkboxes, and "Czech Republic" is selected. The list includes: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Poland, Portugal, Romania, and Slovakia.

At the bottom of the main content area, there is a "Map" button and a "List" button. Below these is a map of Central Europe showing a blue location pin in the Czech Republic near Prague and a green location pin in Poland near Wrocław.

On the left side of the main content area, there is a "KETs Tools" sidebar with a menu: "KETs Observatory", "KETs Technology Centres" (selected), "KETs TCA Mapping", "Contacts", "Help", and "Login". Below this is an "Industry - links" sidebar with a menu: "News", "Events", "Tools and Databases", "Contracts and grants", "Public consultations", and "Publications".

[https://ec.europa.eu/growth/tools-databases/kets-tools/kets-tc/map?field_postal_address_country\[\]=CZ](https://ec.europa.eu/growth/tools-databases/kets-tools/kets-tc/map?field_postal_address_country[]=CZ)

Co-Location Centres are meeting places, melting pots, hubs, where planned, as well as ad hoc, meetings and events take place.

They bring together talents, ideas, technologies and investments that turn the Co-Location Centres into vibrant hot spots where students, researchers, engineers and business developers cross-pollinate to succeed in the market.

<https://masterschool.eitdigital.eu/about-us/co-location-centres/>

**No eit Digital Co-Location Centre
in the Czech Republic**

Pilot Lines in Nanotechnology and Advanced Materials

European
Commission



Investment and Business Development
Agency



Searched phrase

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Nanotechnology & Advanced Materials

[Case Studies](#)

[Research & development](#)

[Useful links](#)

Introduction

The dynamically developing nanotechnology sector is penetrating a full range of various fields. In the Czech Republic, this primarily involves the automotive, aviation, textile and chemical industries, which have a strong tradition and most to gain from the use of nanotechnology.

The absolute majority of domestic firms involved in nanotechnology are companies that need to rapidly internationalise and find business partners abroad in order to be successful. Elmarco, TESCANA ORSAY HOLDING or Contipro are great examples of such companies.

An example of successful internationalisation of Czech institutions is the Memorandum on Cooperation between Czechinvest Agency and the Nano Technology Research Association of South Korea, which was concluded in 2012. In 2011, the Technical University of Liberec signed the Agreement on Cooperation with Shinshu University in Japan.



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Planned investments, allocated resources, in Czech Republic, in relation to European Regional Development Funds in categories relevant for Digital Innovation Hubs

European Commission

EUROPEAN STRUCTURAL AND INVESTMENT FUNDS

DATA

European Commission > European Structural & Investment Funds > Data

HOME EXPLORE EU DATA EXPLORE BY THEME EXPLORE BY COUNTRY EXPLORE BY FUND

Country Data for: Czech Republic

View a different country

Finances: Planned | Finances: Implemented | EU Payments

Achievements | Programmes

Czech Republic, through 11 national and regional programmes, benefits from ESIF funding of EUR 24 billion. This represents an average of 2 302 euro per person from the EU budget over the period 2014-2020. This page includes visualizations on the planning and implementation of the finances available, the EU payments to the Czech Republic and achievements at country level. You can explore further the ESI Funds programmes of the country in the "Programmes" section, where we list also the relevant Interreg programmes for the Czech Republic.

Total EU National

Country Budget for 2014-2020:

€32 291 366 027

FINANCES: PLANNED

Total

Back to Top

The planned EU financing, national co-financing and total financing are visible using the filters provided in the blue bar above. Based on the filter chosen the planned financing over the period 2014-2020 is presented below 1) by fund and 2) broken down by major theme. (The source dataset is available on the link "Explore and share this dataset").

Total Budget by Fund (daily update): Czech Republic, EUR

[Explore and Share this Data](#)

Fund	Percentage
ERDF	53.0%
CF	22.8%
YEI	13.0%
ESF	11.0%
EMFF	0%
EAFRD	0%

Refresh Date: 21/8/2017