

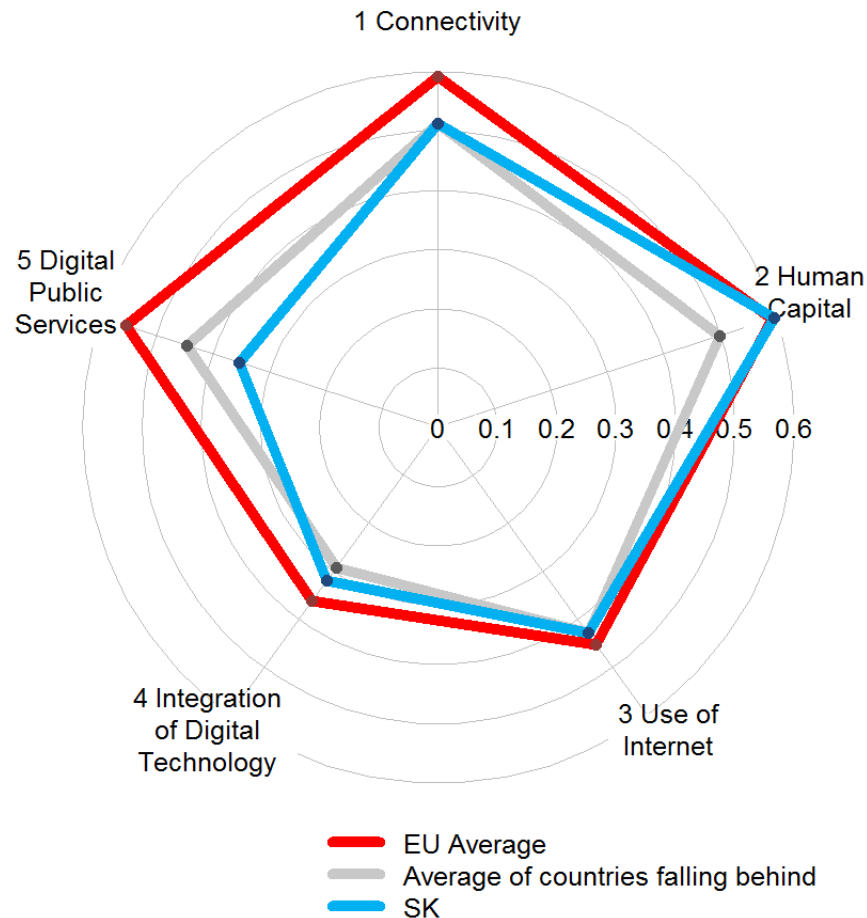
- Slovakia's national strategy for digitising industry pg 3
- Slovakia's performance in the DESI 2016 pg 4-11
- Level of Digital Intensity in Slovak enterprises by sector and size pg 12-13
- Digital Innovation Hubs Catalogue, the Slovakia case pg 14
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- DIHs and Competence centres funded by EU projects in Slovakia in FP7 & H2020 pg 16-17
- Clusters and KETs in Slovakia pg 18-19
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- Pilot Lines in Nanotechnology and Advanced Materials pg 21
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- The Conception of Smart Industry for Slovakia was approved by the Slovak government in October **2016** and a platform of smart industry with working groups in relevant areas was established and falls under the Ministry of Economy of the Slovak Republic's jurisdiction.
- In March **2017 the first meeting of the platform** (representatives of the government, businesses and academia) was held.
- By the end of 2017 an **action plan** is expected to be approved under a concrete schedule with clearly specified measures.

<http://www.rokovania.sk/Rokovanie.aspx/BodRokovaniaDetail?idMaterial=26016>

**Slovakia ranks 21 among EU countries.
It is part of the group of countries that are falling behind.**



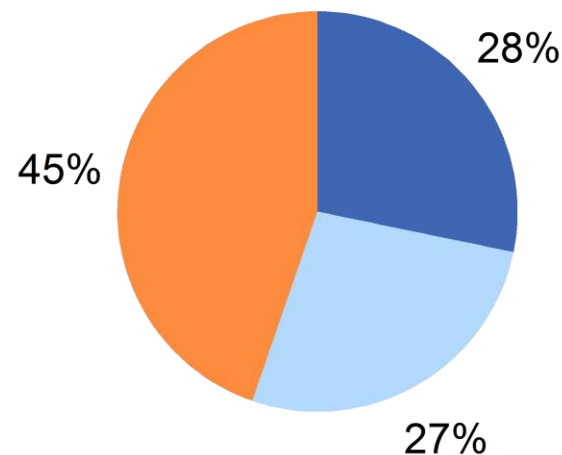
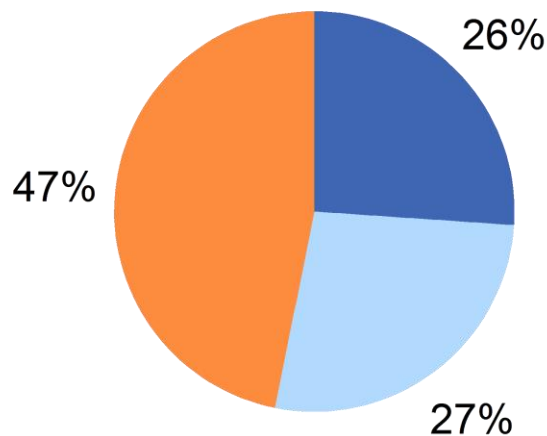
In Slovakia 27% of citizens have basic digital skills (27% in the EU) and 26% have above basic digital skills (28% in the EU).

Digital Skills (2015)

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

SK

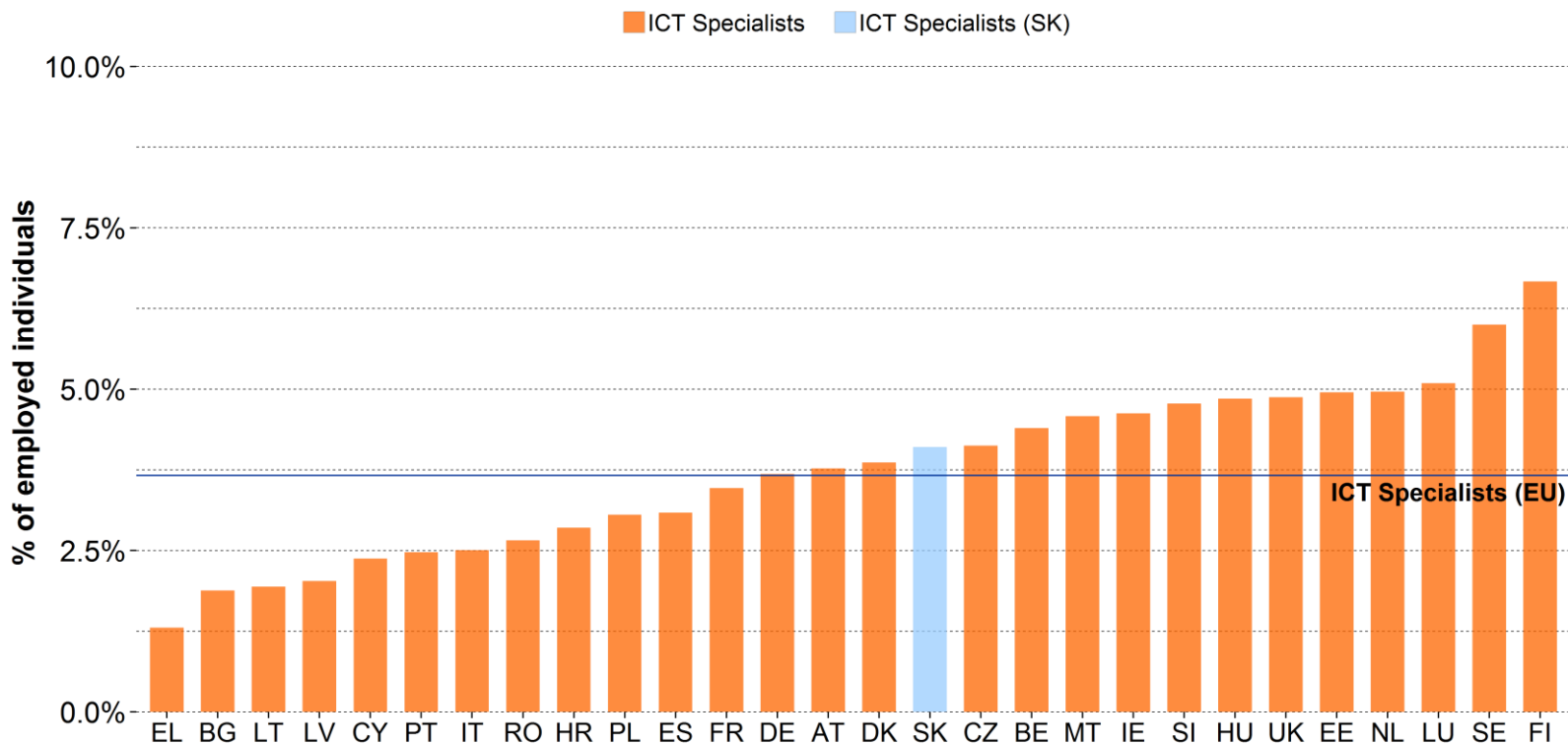
EU



% of individuals

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

ICT Specialists in the workforce (2014)

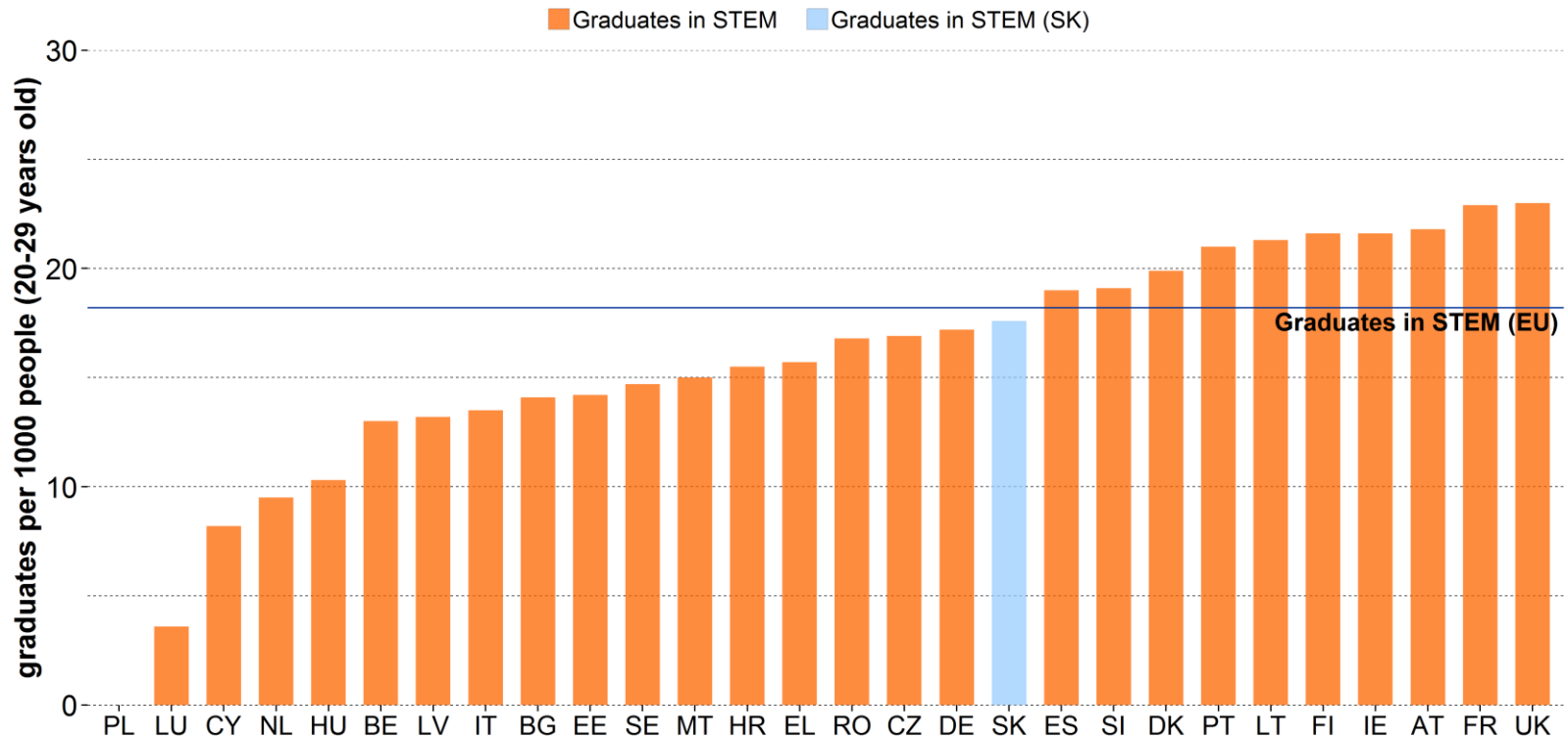


Human Capital: Graduates in STEM (Science, Technology and Mathematics)

European
Commission

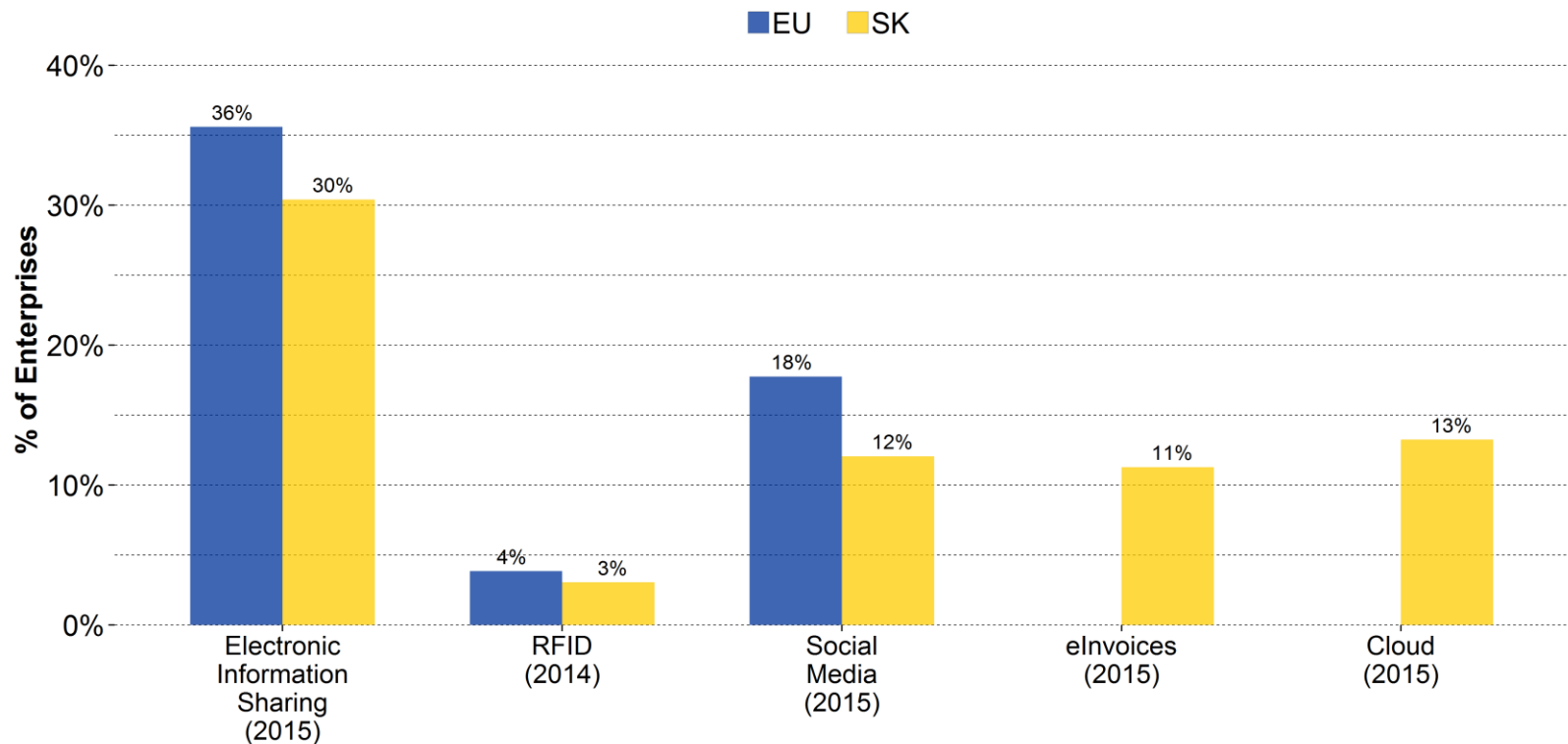
**Slovakia has 18 graduates in STEM per each 1000 people aged
20-29 years old (18 in the EU).**

Graduates in Science, Technology and Mathematics (2013)



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

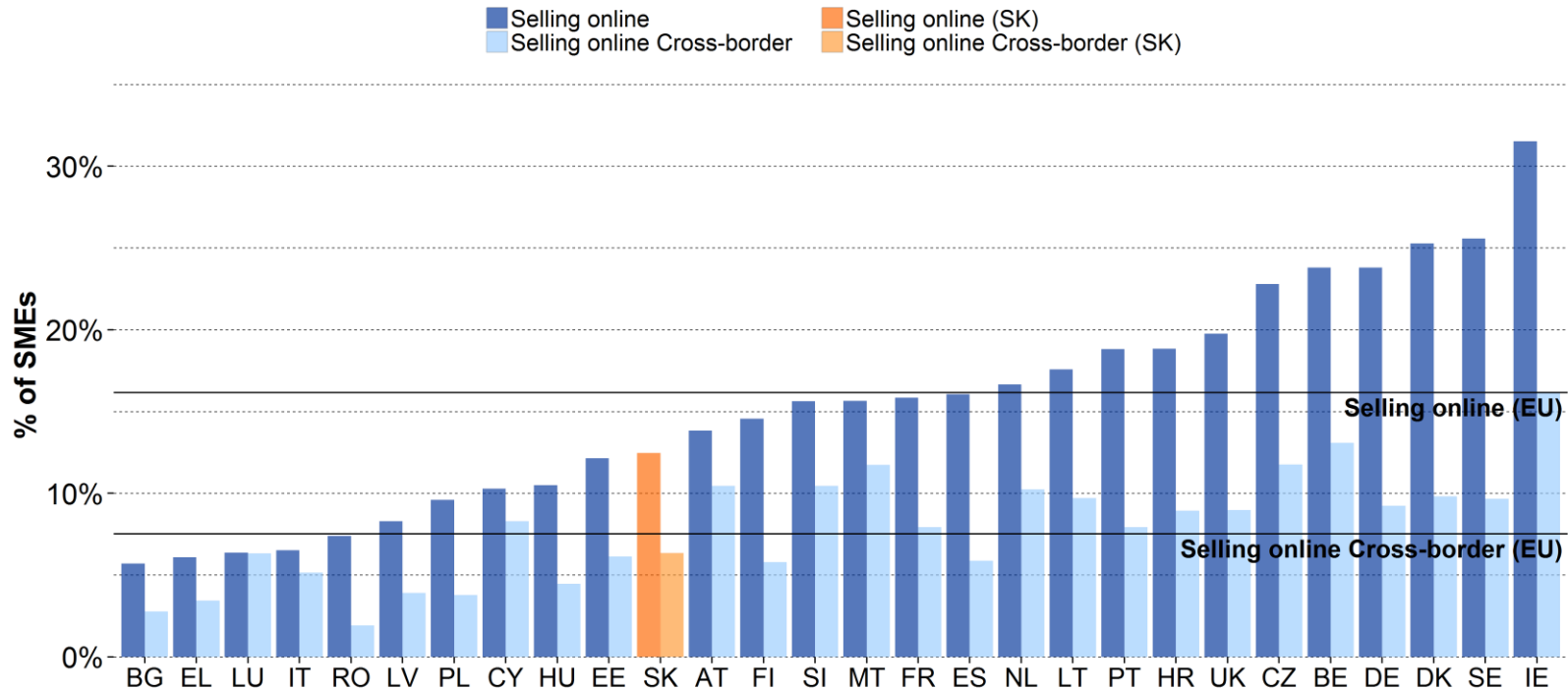
Adoption of Digital Technology by Businesses



In Slovakia 12% of SMEs sell online (16% in the EU).

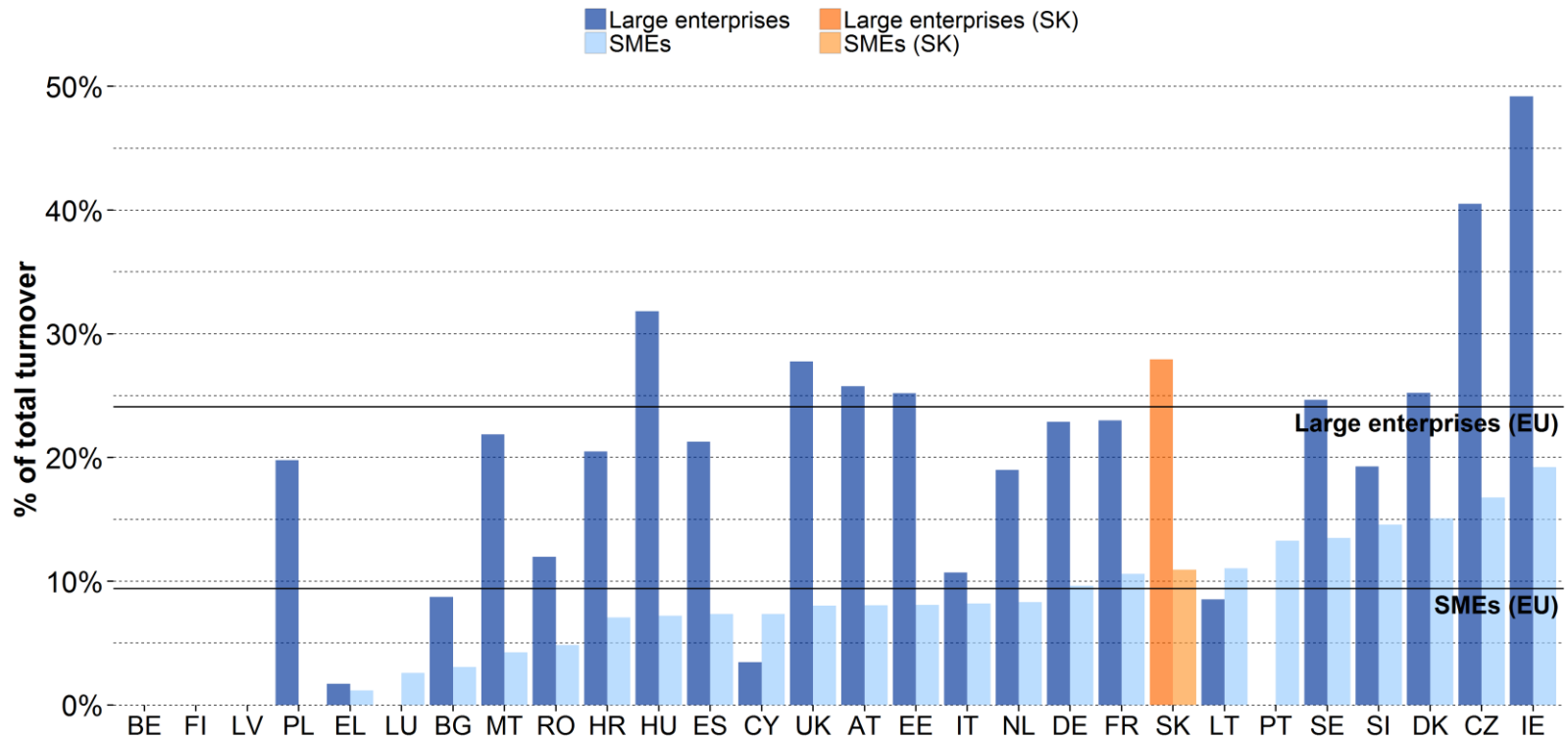
6.3% of Slovak SMEs sell online to other EU countries (7.5% in the EU).

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



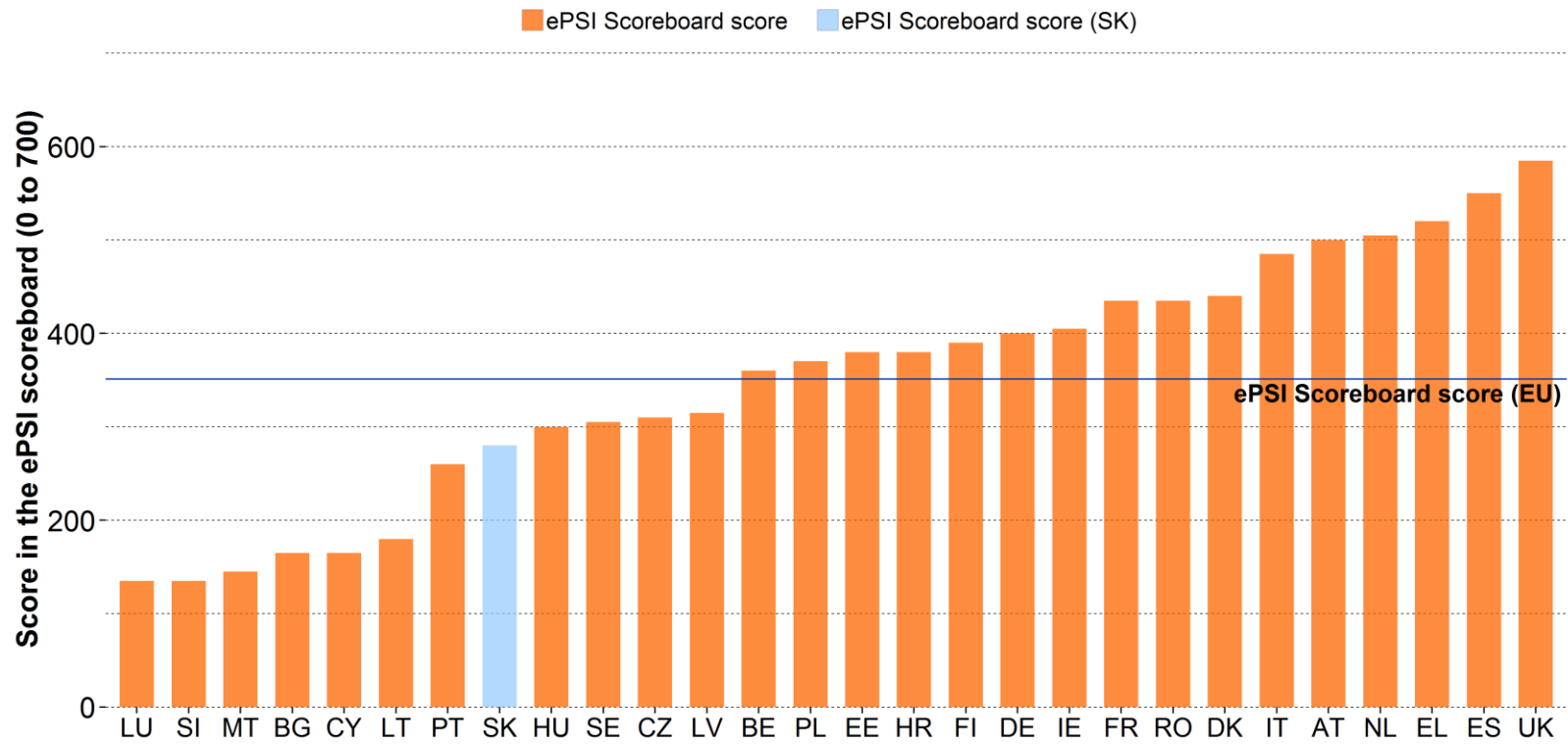
SMEs in Slovakia obtain on average 11% of their turnover from eCommerce (9.4% in the EU). Large enterprises derive on average 28% of their turnover from eCommerce (24% in the EU).

Turnover from eCommerce (2015)



Slovakia scores 280 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)

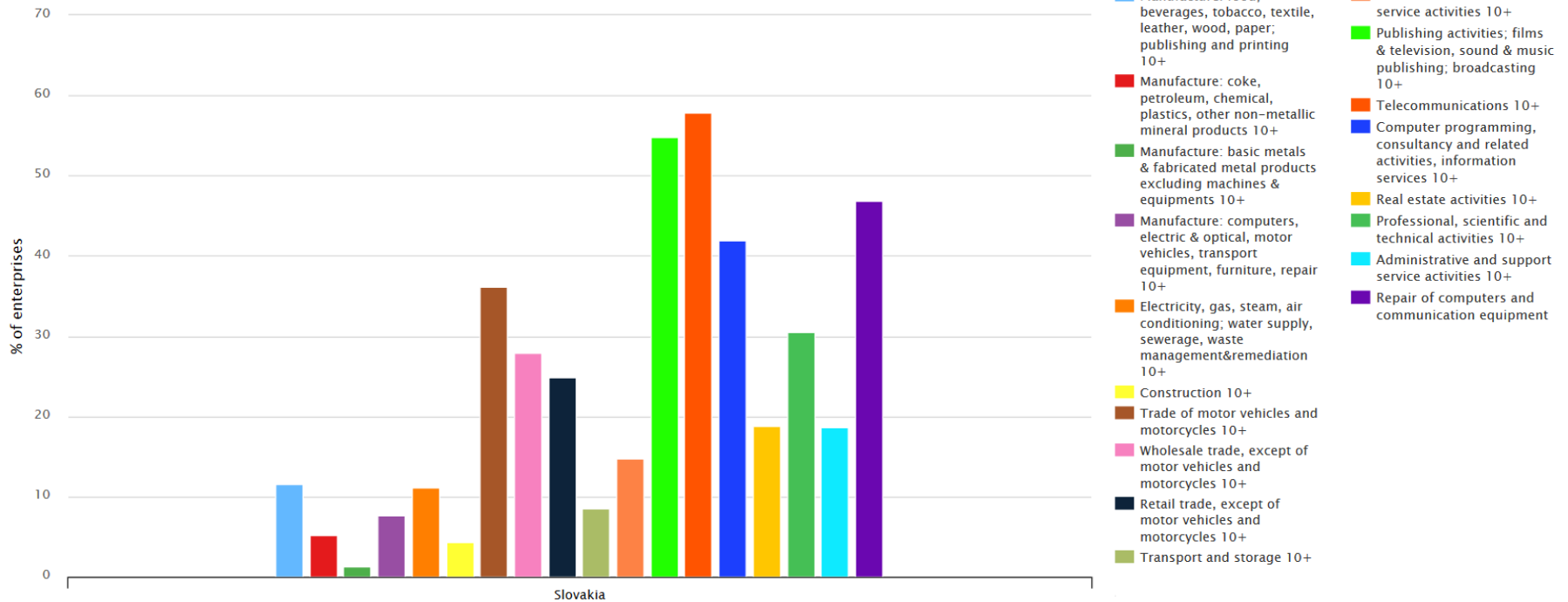


Enterprises with high level of Digital Intensity by economic sectors in Slovakia

European
Commission

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
- Construction 10+
- Retail trade, except of motor vehicles and motorcycles 10+
- Transport and storage 10+
- Administrative and support service activities 10+
- Accommodation and food service activities 10+
- Wholesale trade, except of motor vehicles and motorcycles 10+
- Real estate activities 10+

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

- Trade of motor vehicles and motorcycles 10+
- Publishing activities; films & television, sound & music publishing; broadcasting 10+
- Telecommunications 10+
- Computing programming. Consultancy and related activities, information services 10+
- Professional, scientific and technical activities 10+
- Repair of computers and communication equipment

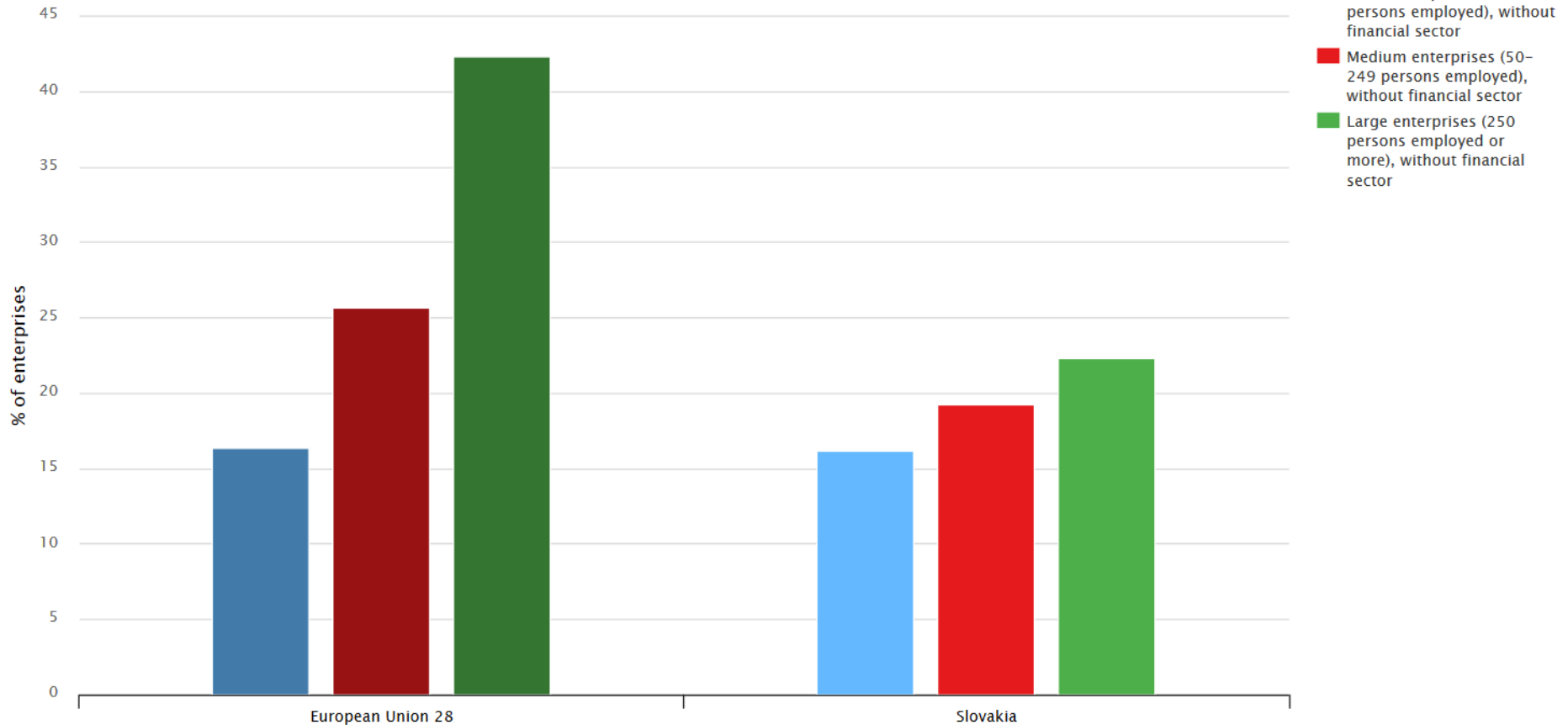
http://digital-agenda-data.eu/charts/analyse-one-indicator-and-compare-breakdowns#chart={%22indicator-group%22:%22ebusiness%22,%22indicator%22:%22e_di_hivhi%22,%22breakdown-group%22:%22econsector%22,%22unit-measure%22:%22pc_ent%22,%22time-period%22:%222016%22,%22ref-area%22:%22SK%22}}

Enterprises with high levels of digital intensity, by Enterprise size



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:\[%22EU28%22,%22SK%22\]}](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:[%22EU28%22,%22SK%22]})

Digital Innovation Hubs Catalogue

The Slovakia case

European
Commission

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

The screenshot displays the 'SMART SPECIALISATION PLATFORM' website. The header features the European Commission logo and the platform name. Below the header is a navigation menu with options: Home, S3 Platform, Sections, Tools (highlighted), News, Events, and Knowledge Repository. A search bar is located on the right side of the navigation menu.

The main content area is titled 'Digital Innovation Hubs'. It features a map of Slovakia with various regions labeled, such as Bratislavský kraj, Trnavský kraj, Zlínský kraj, and Košický kraj. A red location pin is placed on the map. To the right of the map is a sidebar with search filters:

- Search:** SLOVAKIA
- Technical Competences:** None selected
- Services Provided:** None selected
- Focus on TRL:** None selected
- Market sectors:** None selected

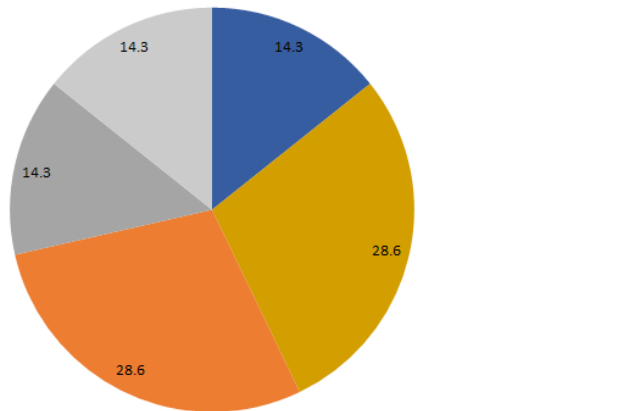
The 'Market sectors' dropdown menu is expanded, showing the following options:

- Select all
- Agriculture, hunting and forestry
- Fishing
- Mining and quarrying
- Electricity, gas and water supply
- Construction
- Wholesale and retail trade
- Hotels and restaurants

At the bottom of the page, there is a footer with the text 'Leaflet | © OpenStreetMap contributors | Disclaimer' and a button labeled 'Export Hubs to csv'.

Services provided and types of customers supported by DIHs in Slovakia - Analysis

Types of services provided (%)



- 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

Types of customers supported (%)



- 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 Slovakia 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	MIDIH	36	30/09/2020	TECHNICKA UNIVERZITA V KOSICIACH	PARTICIPANT	TUKE	PUBLIC	Yes

Competence centers/DIHs funded by EU projects in Slovakia in FP7



No participation

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

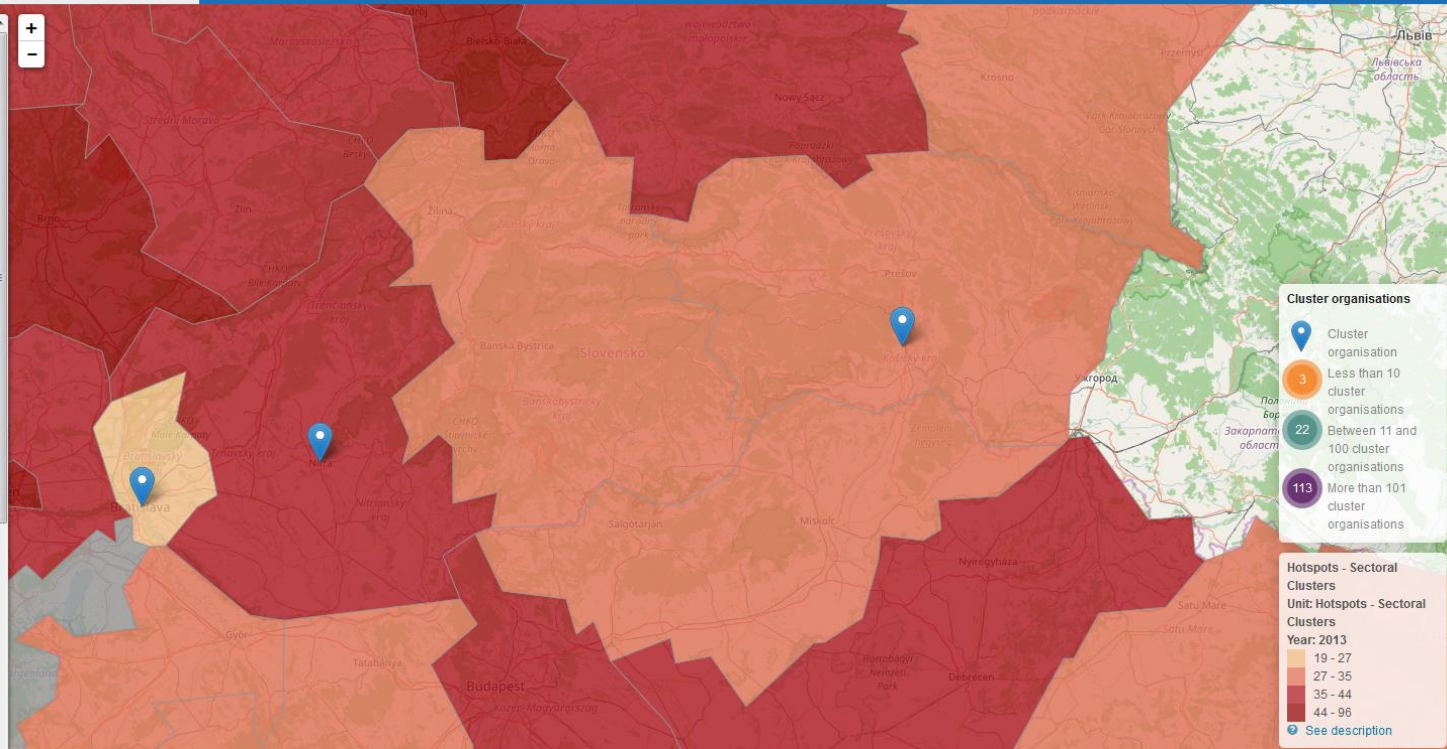
Country & Regions

Country
Slovakia
Region

Cluster Organisations

Sectoral Industries
All sectors
Technology fields
All categories
S3 EU priority areas
All S3 priority areas
Number of staff
Any
ESCP-4i Membership
None
Target countries for international activities

Emerging industries
All emerging industries
All fields
Participation in EU programmes
Any
Total number of members
Any
Cluster Excellence Label/Award
Any
Target countries for trans-national activities



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

Please see [WG1 report](#)

The screenshot displays the 'GROWTH' website interface, specifically the 'SMEs' Access to Key Enabling Technologies' tool. The page features a navigation bar with 'Industry' selected, and a sidebar with 'KETs Tools' and 'Industry - links'. The main content area includes a title 'SMEs' Access to Key Enabling Technologies', an objective of the map, and instructions on how to use the map. A map of Central Europe is shown with a blue pin in Slovakia. A 'Filters' panel on the right allows users to select countries, with 'Slovakia' checked.

GROWTH
Internal Market, Industry, Entrepreneurship and SMEs

European Commission > Growth > KETs Tools > SMEs' Access to Key Enabling Technologies

Single Market and Standards | **Industry** | Entrepreneurship and SMEs | Access to finance for SMEs | Sectors

KETs Tools

- KETs Observatory
- KETs Technology Centres**
 - KETs TCs Mapping
 - Contacts
- Help
- Login

Industry - links

- News
- Events
- Tools and Databases
- Contracts and grants
- Public consultations
- Publications

SMEs' Access to Key Enabling Technologies

What is the objective of the map below?

To allow **SMEs**, wherever located in Europe, to find **Technology Centres** which can help to innovate through **Key Enabling Technologies (KETs)**.

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).

How to use the map?

Filters at the right-side of the map allow to refine the search.

More details, including the **SME** contact person, can be seen by clicking on the marker for each centre.

Map | List

Filters

- Countries**
 - Select All
 - Austria
 - Belgium
 - Bulgaria
 - Croatia
 - Cyprus
 - Czech Republic
 - Denmark
 - Estonia
 - Finland
 - France
 - Germany
 - Greece
 - Hungary
 - Ireland
 - Italy
 - Latvia
 - Lithuania
 - Luxembourg
 - Malta
 - Netherlands
 - Poland
 - Portugal
 - Romania
 - Slovakia
 - Slovenia
 - Spain
 - Sweden
 - United Kingdom
- Technology**
- Readiness Levels**
- Market sectors**

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

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 Slovakia

No Pilot Lines in Nanotechnology and Advanced Materials in Slovakia

Planned investments, allocated resources, in Slovakia, 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: Slovak Republic

View a different country

Finances: Planned

Finances: Implemented

EU Payments

Achievements

Programmes

Slovak Republic, through 9 national programmes, benefits from ESIF funding of EUR 15.3 billion. This represents an average of 2830 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 Slovak 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 Slovak Republic.

Total EU National

Country Budget for 2014-2020:

€20 078 231 718

FINANCES: PLANNED

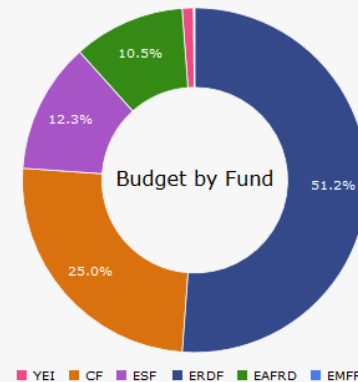
Total

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): Slovak Republic, EUR

Explore and Share this Data



Refresh Date: 21/8/2017