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Manifesto for Digital Romania

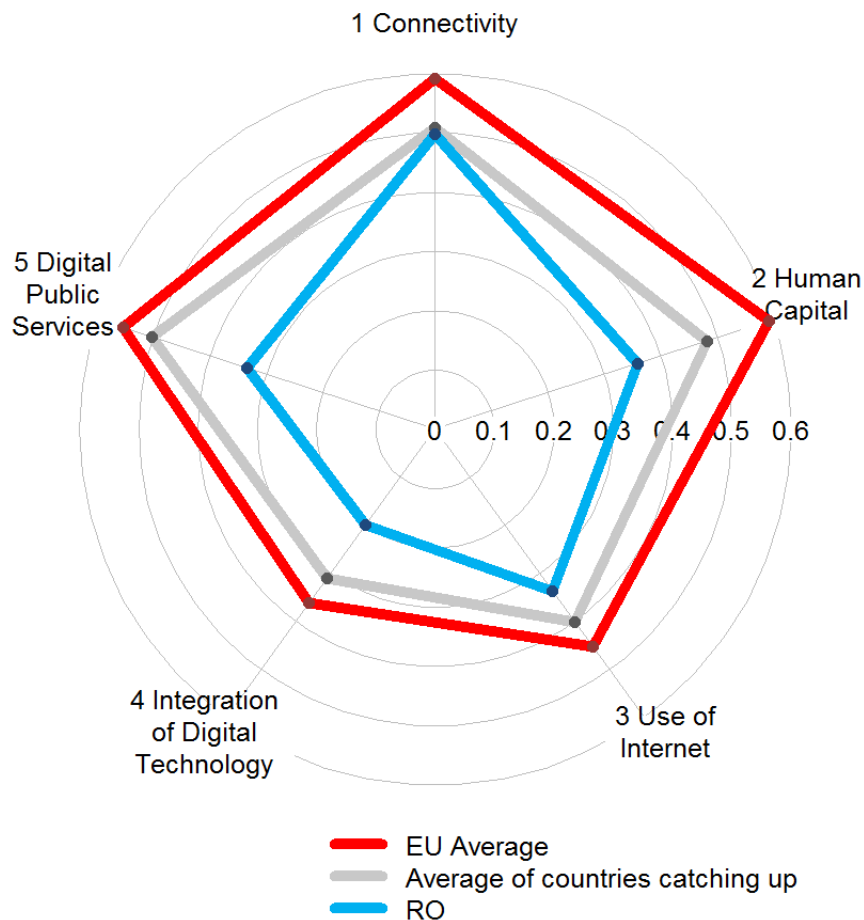


- The manifesto was launched in November **2016** by Prime Minister Dacian Ciolos.
- It commits to a set of principles aligned with the vision for a digital future. It brings together decision-makers, the ITC and creative industries, communities of programmers and entrepreneurs, civic and professional associations.
- It will support projects, services and data that are open by default, agile, adaptable and flexible solutions, cutting-edge technology, and continuous innovation in the field of digital technologies.

<http://gov.ro/en/news/address-by-prime-minister-dacian-ciolos-at-the-international-digital-romania-4-0-industry-forum>

Romania ranks 28 among EU countries.

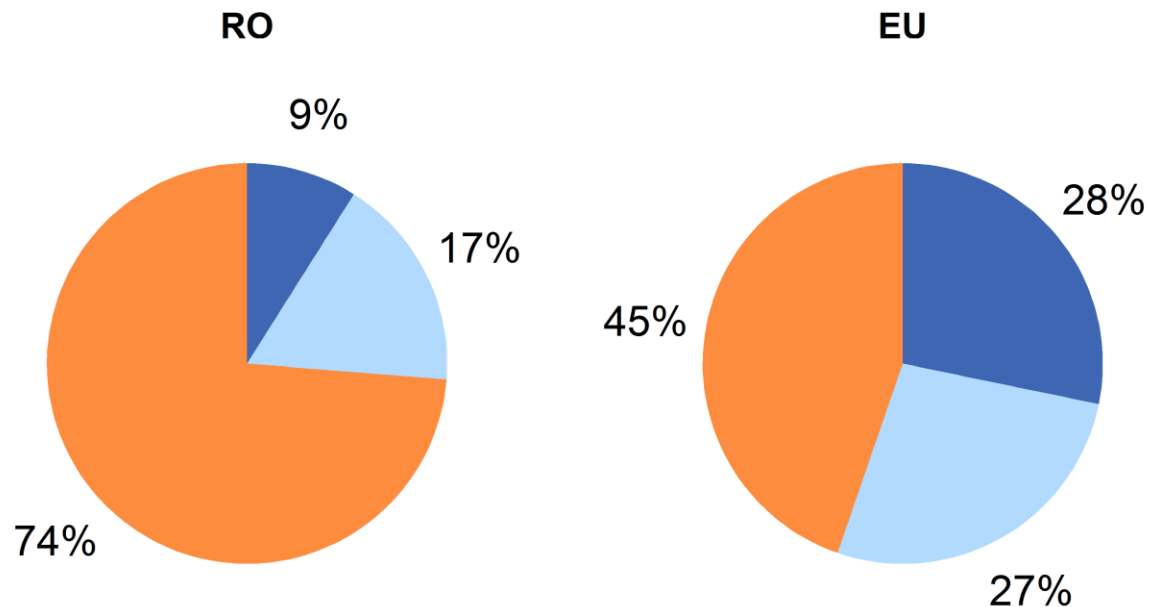
It is part of the group of countries that are catching up.



In Romania 17% of citizens have basic digital skills (27% in the EU) and 9% have above basic digital skills (28% in the EU).

Digital Skills (2015)

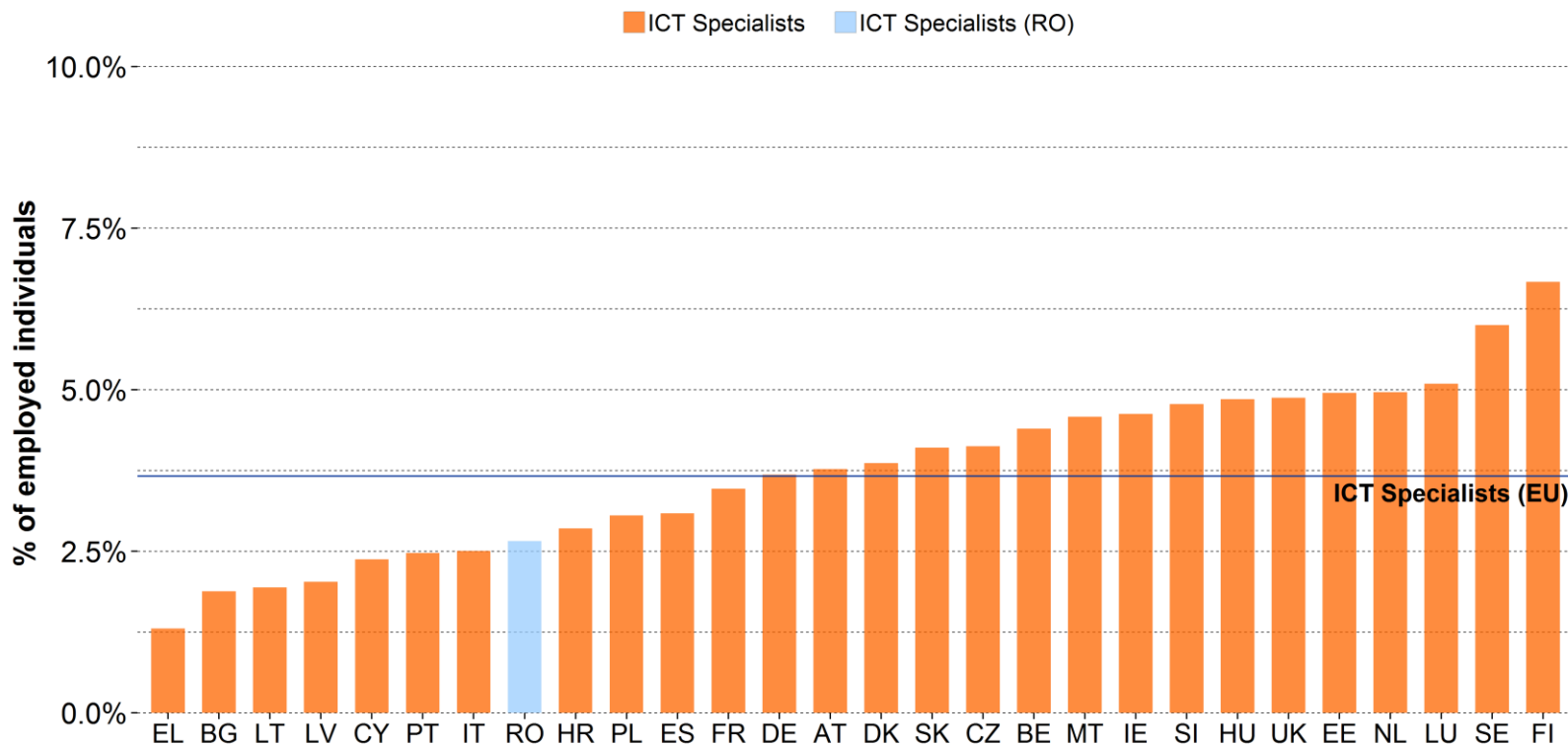
■ Above basic digital skills ■ Basic digital skills ■ Low or no digital skills, or do not use the internet



% of individuals

In Romania ICT Specialists account for 2.7% of the workforce (3.7% in the EU).

ICT Specialists in the workforce (2014)

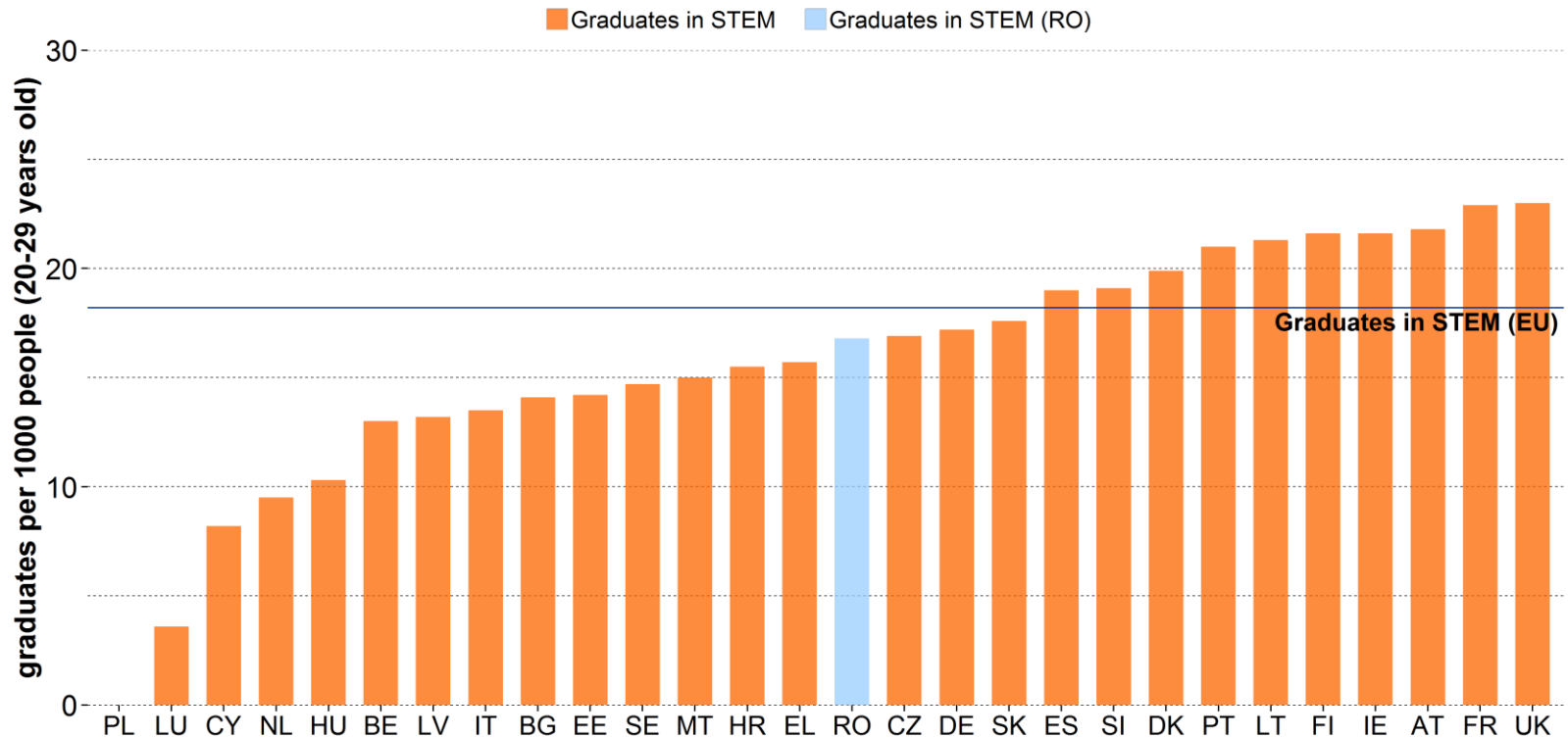


Human Capital: Graduates in STEM (Science, Technology and Mathematics)

European
Commission

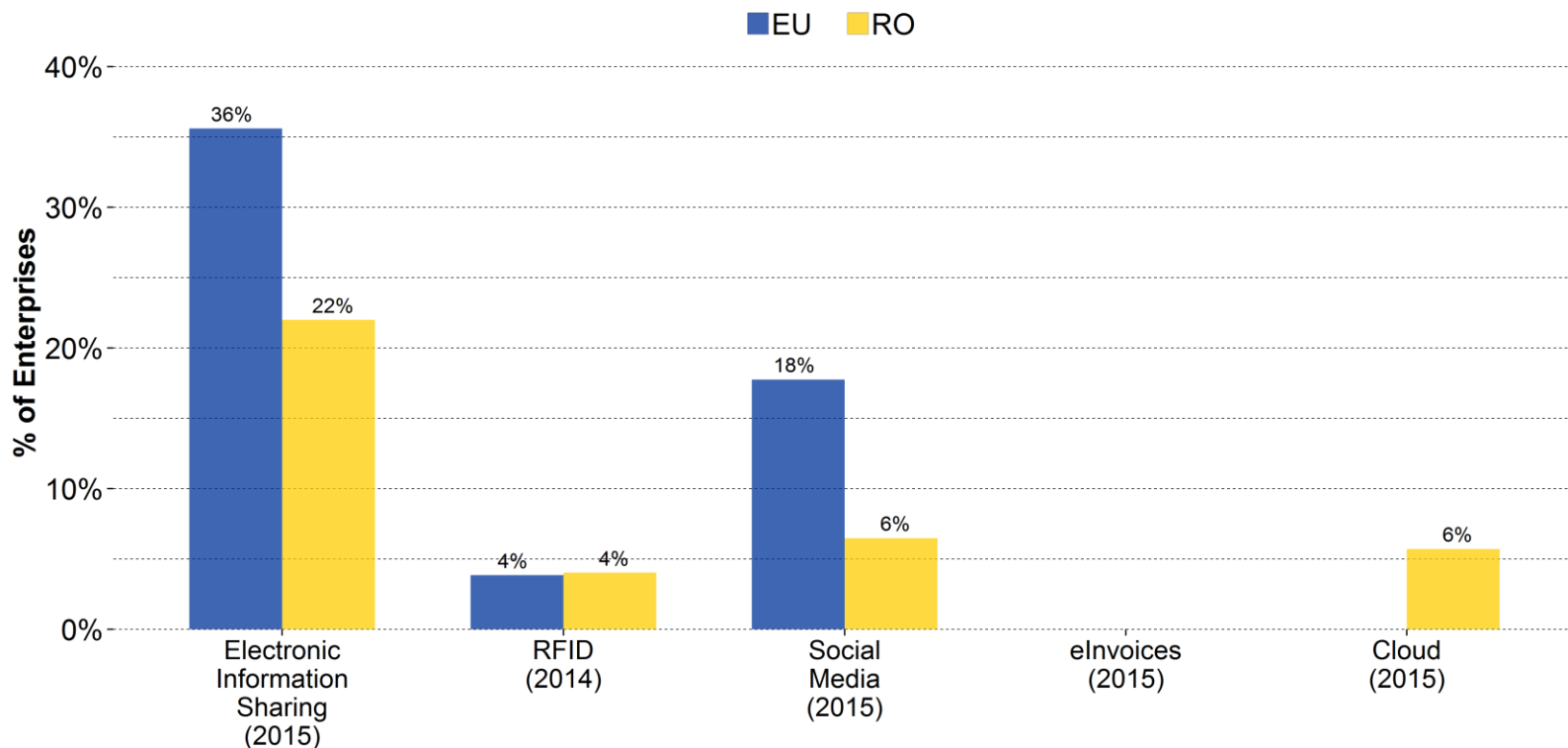
Romania has 17 graduates in STEM per each 1000 people aged 20-29 years old (18 in the EU).

Graduates in Science, Technology and Mathematics (2013)



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

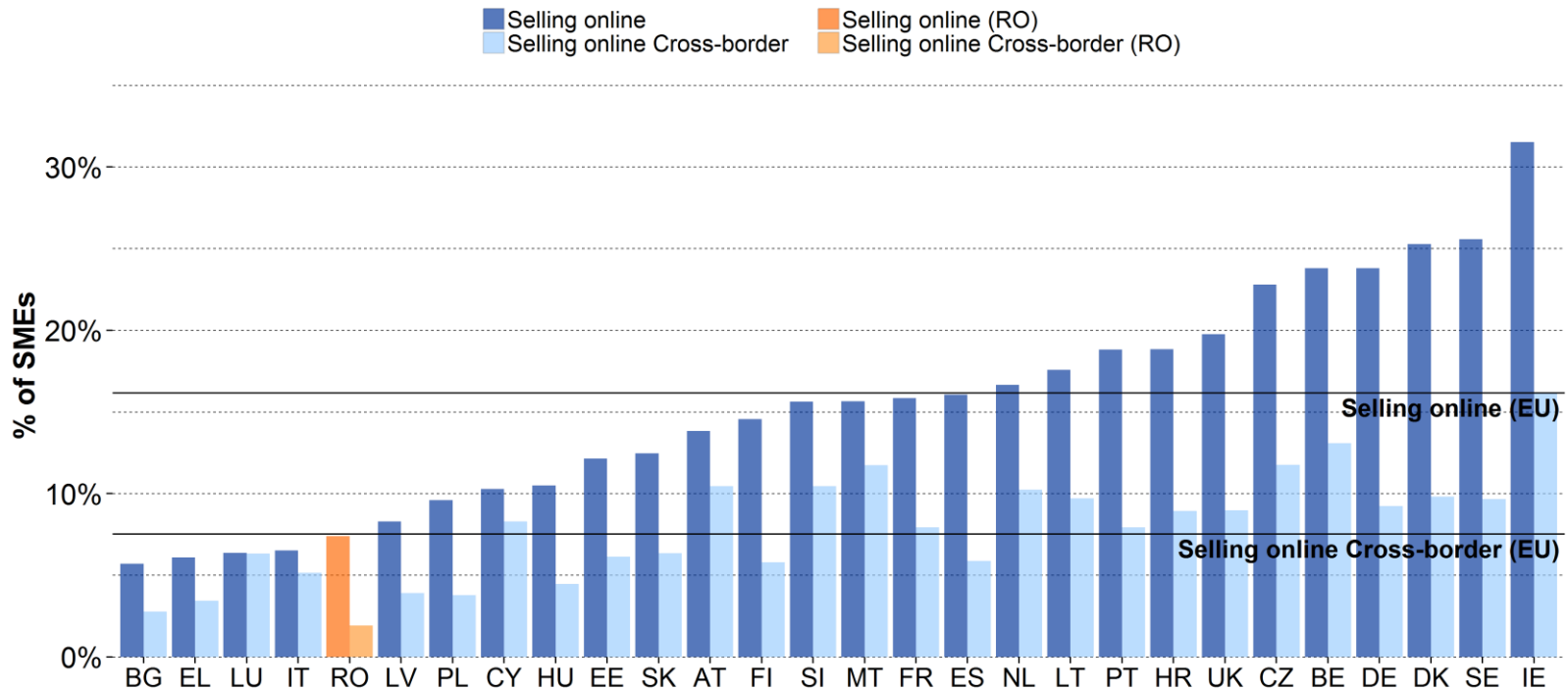
Adoption of Digital Technology by Businesses



In Romania 7.4% of SMEs sell online (16% in the EU).

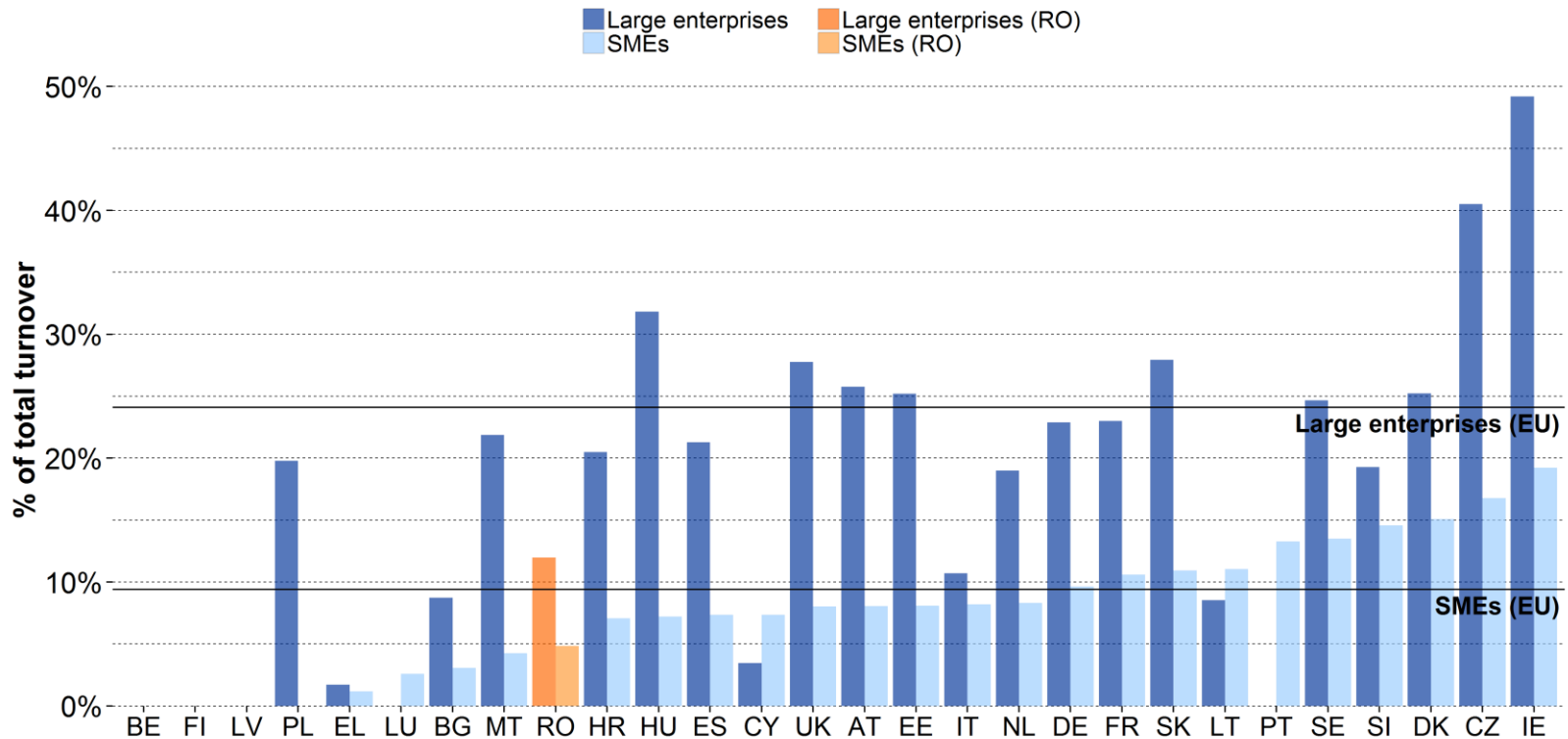
1.9% of Romanian SMEs sell online to other EU countries (7.5% in the EU).

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

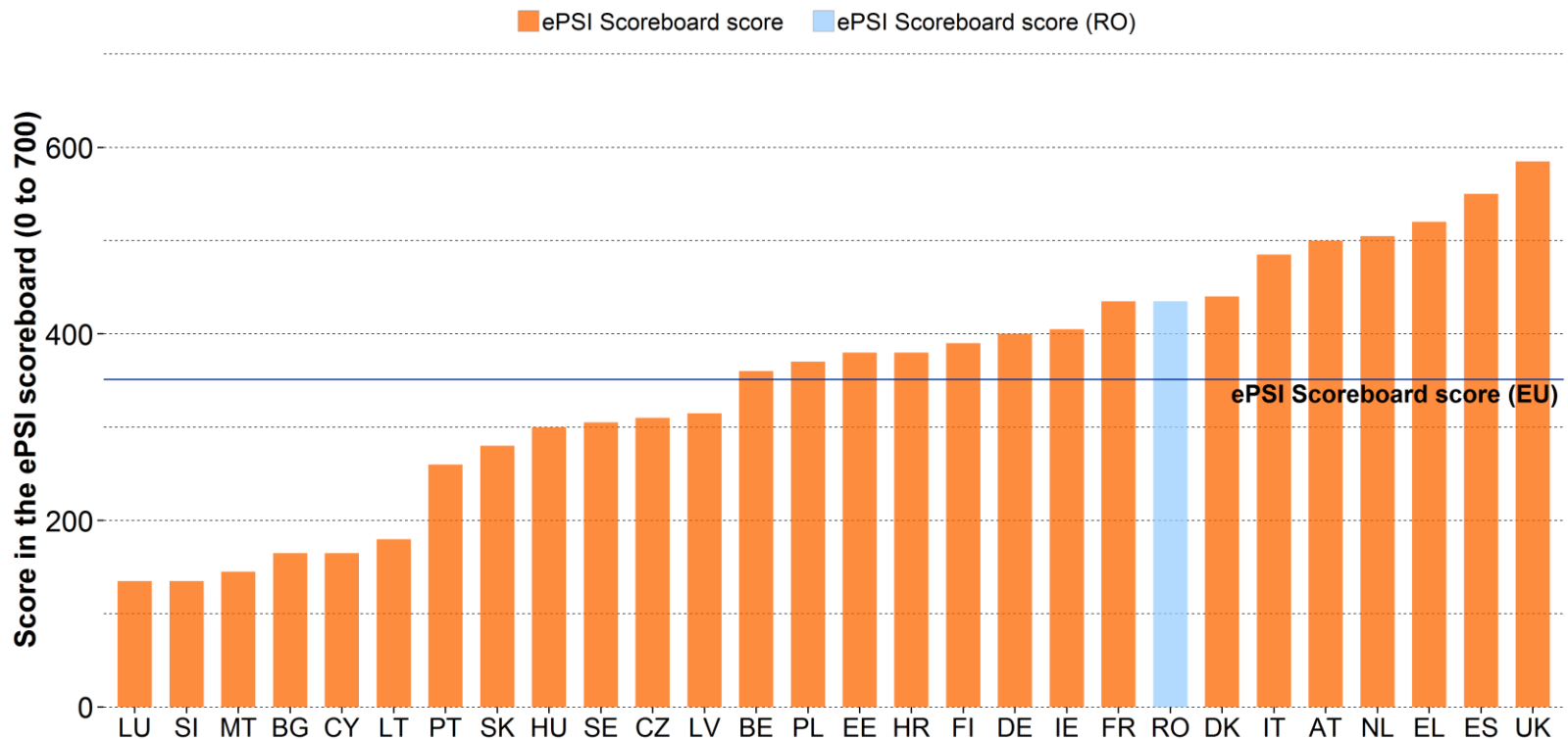


**SMEs in Romania obtain on average 4.9% of their turnover from eCommerce (9.4% in the EU).
Large enterprises derive on average 12% of their turnover from eCommerce (24% in the EU).**

Turnover from eCommerce (2015)



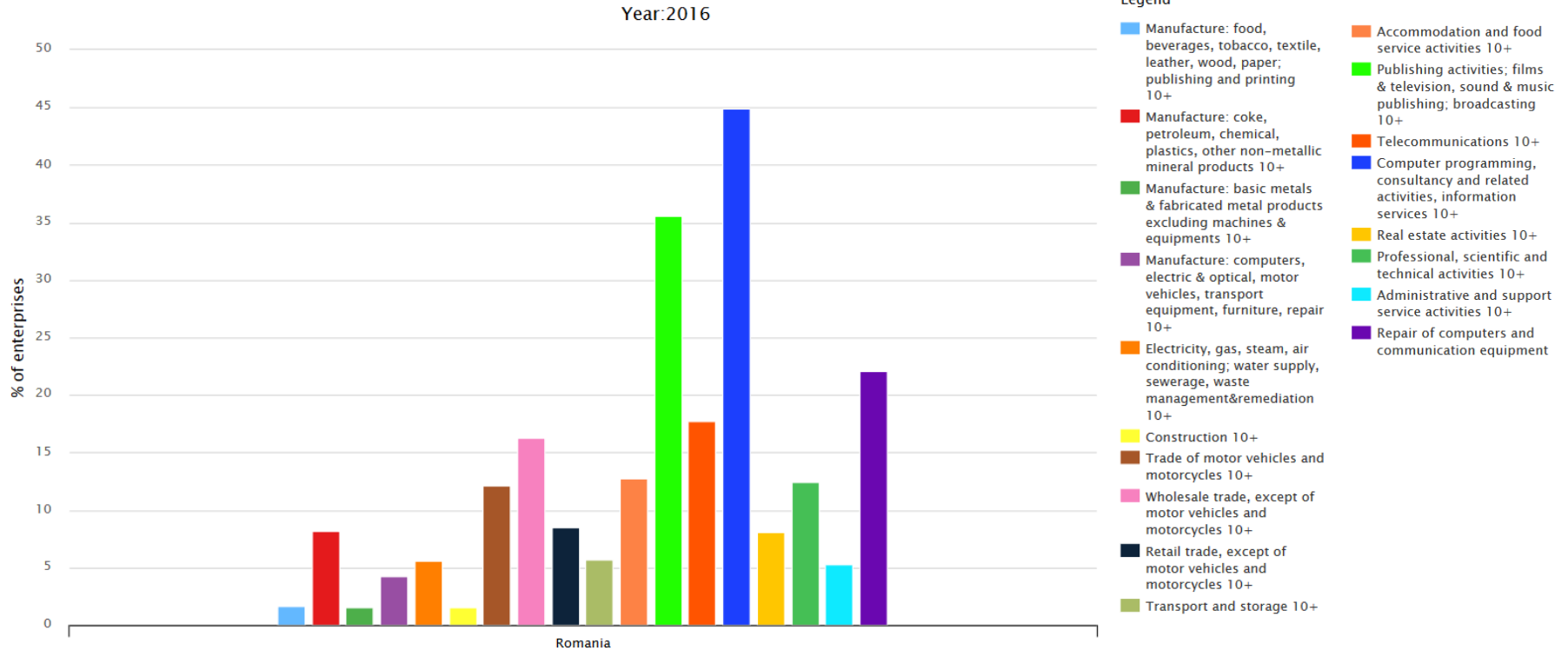
Open Data (2015)



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

European Commission

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



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+
- Trade of motor vehicles and motorcycles 10+
- Wholesale trade, except of motor vehicles and motorcycles 10+
- Accommodation and food service activities 10+
- Real estate activities 10+
- Professional, scientific and technical activities 10+
- Repair of computers and communication equipment

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

- Publishing activities; films & television, sound & music publishing; broadcasting 10+
- Computing programming. Consultancy and related activities, information services 10+

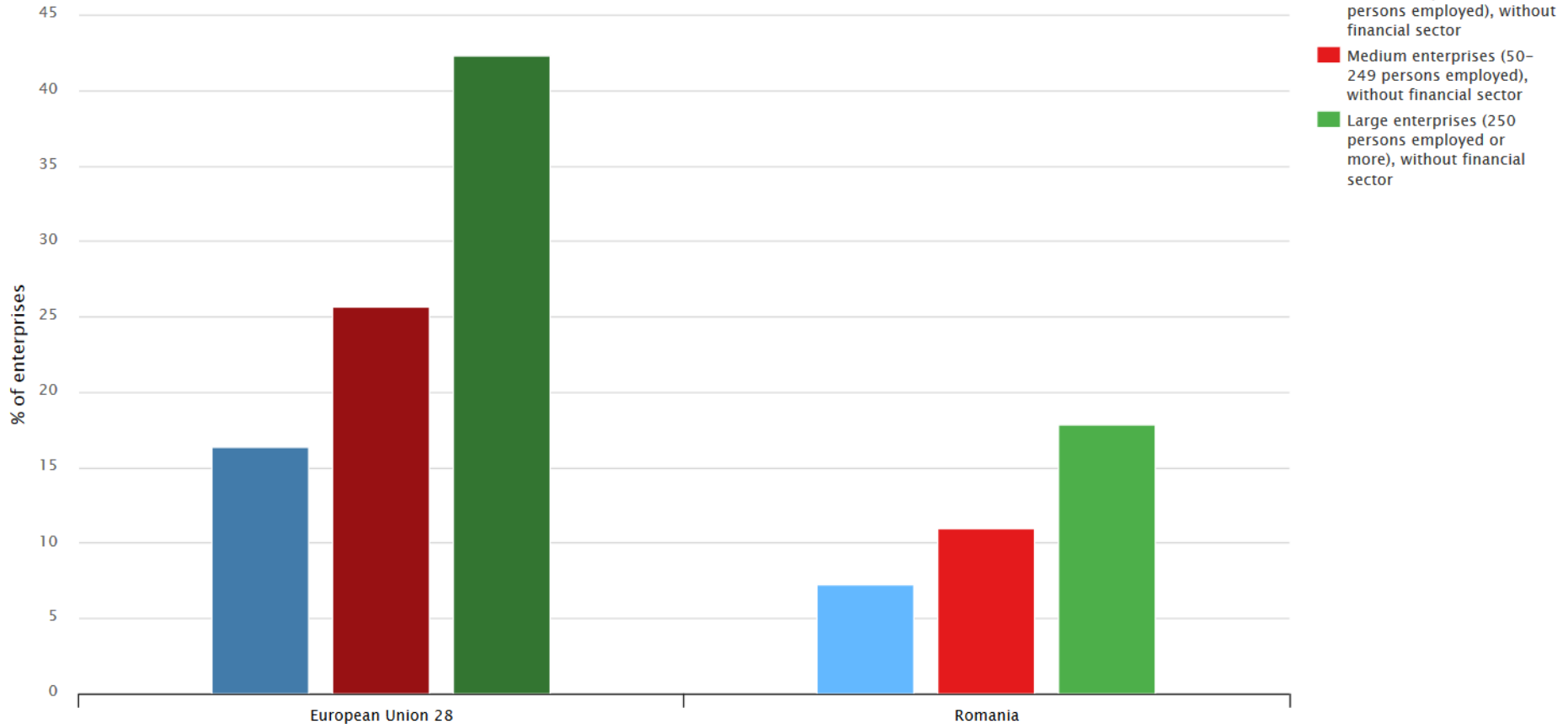
http://digital-agenda-data.eu/charts/analyse-one-indicator-and-compare-breakdowns#chart={%22indicator-group%22:%22ebusiness%22,%22indicator%22:%22e_di_hivhi%22,%22breakdown-group%22:%22econsector%22,%22unit-measure%22:%22percent%22,%22time-period%22:%222016%22,%22ref-area%22:%22RO%22}

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

Digital Innovation Hubs Catalogue

The Romania case

European
Commission

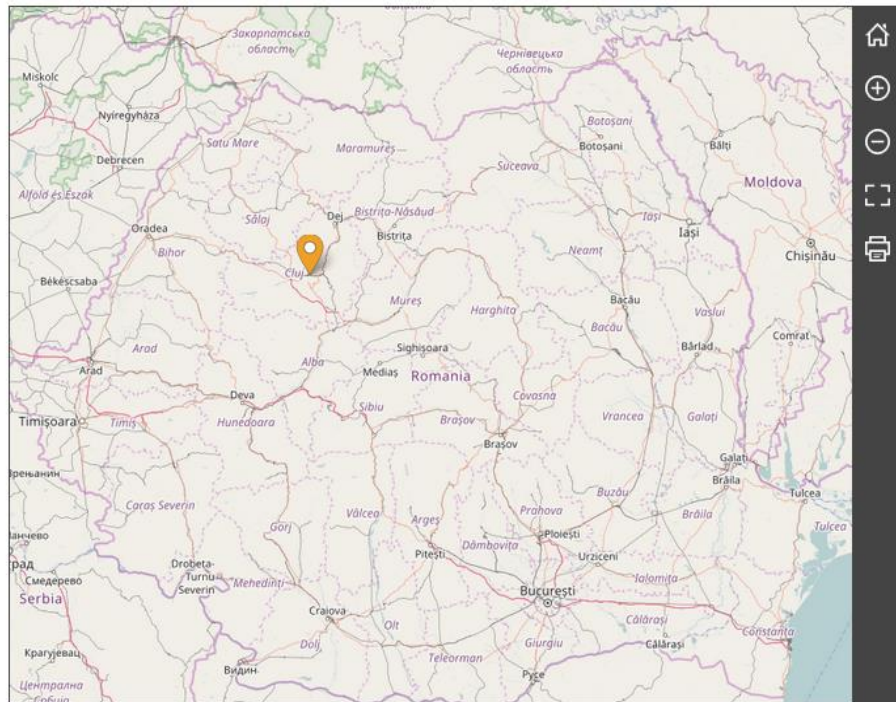


European Commission / Smart Specialisation Platform / Tools / Digital Innovation Hubs

Home S3 Platform Sections Tools News Events Knowledge Repository

Search

Digital Innovation Hubs



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[Export Hubs to csv](#)

Hub Name	Location	Country	Contact	Phone	Email	Website
Transilvania Digital Innovation Hub - Transilvania DIH	Nicolae Titulescu Boulevard no 4, 400420, Cluj-Napoca	Romania	BIANCA MUNTEAN	+4 0742225405	✉	

Search
ROMANIA

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

The version available presents:

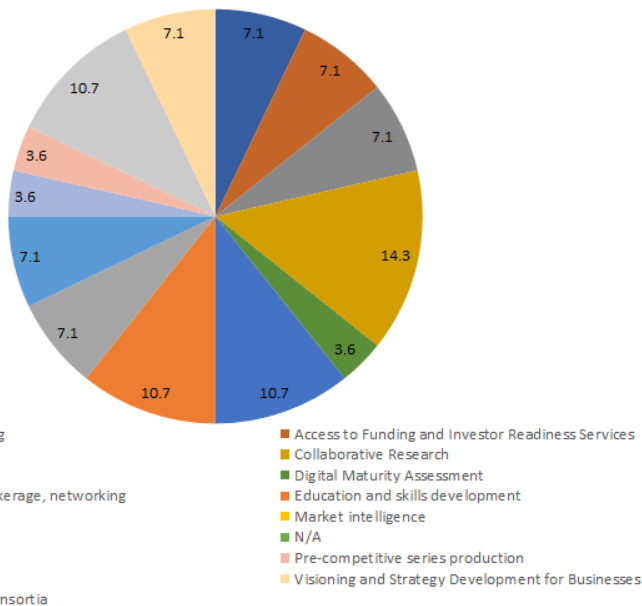
- Fact-sheets with profile, contact data, service examples for regional, national, and EU-supported DIHs
- Map-based search tool by technical competences, market sector, services

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

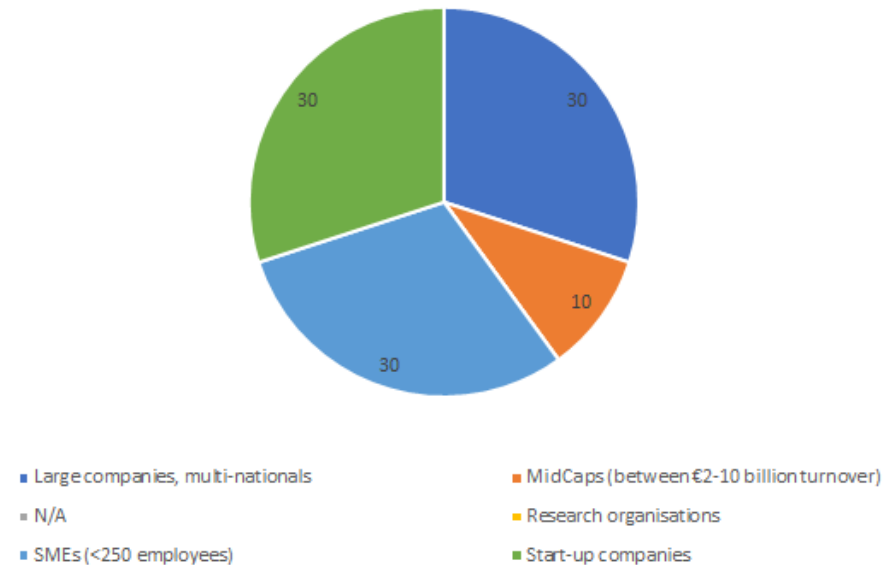
JRC-B3-DIH@ec.europa.eu

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

Types of services provided (%)



Types of customers supported (%)



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 Romania 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?
ICT-04-2017	TETRAMAX	48	31/08/2021	CONTROL DATA SYSTEMS SRL	PARTICIPANT	CDS	PRIVATE	No
FOF-12-2017	L4MS	42	31/03/2021	ASOCIATIA PRODUCATORILOR DE MOBILA DIN ROMANIA	PARTICIPANT	APMR	PRIVATE	No



Competence centers/DIHs funded by EU projects in Romania 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
608849	EuRoC	48	01-Jan-2014	31-Dec-2017	48	ICPE	INSTITUTUL DE CERCETARI ELECTROTEHNICE	Participant	PRC

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: Romania

Region:

Cluster Organisations

Sectoral Industries: All sectors

Emerging industries: All emerging industries

Technology fields: All categories

S3 EU priority areas: All S3 priority areas

Number of staff: Any

Participation in EU programmes: Any

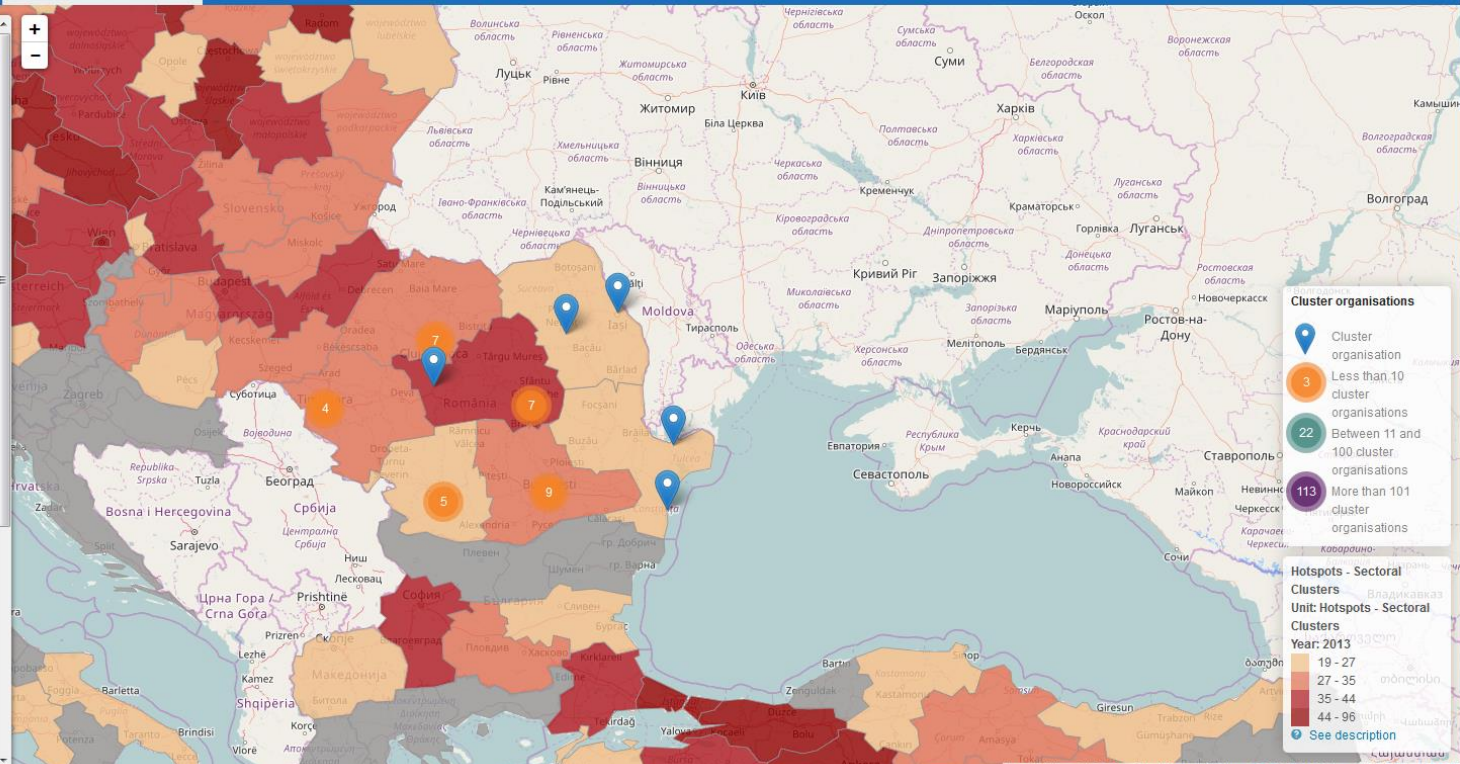
ESCP-4i Membership: None

Total number of members: Any

Cluster Excellence Label/Award: Any


Target countries for international activities:

Target countries for trans-national activities:



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

Please see [WG1 report](#)



GROWTH

Internal Market, Industry, Entrepreneurship and SMEs

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

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Home 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)**.

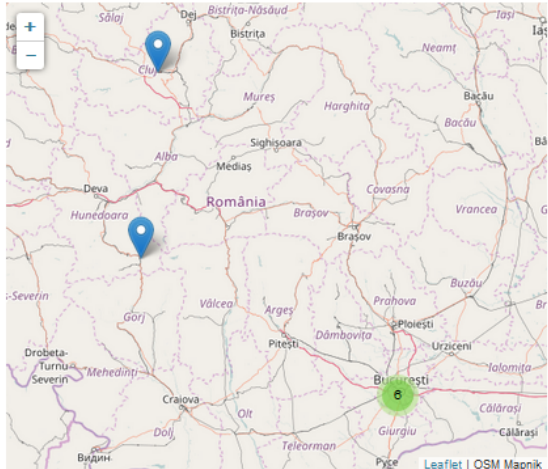
The Technology centres are selected according to [criteria](#) demonstrating their capacity to collaborate with **SMEs** on close-to-market research and innovation (Technology Readiness Levels 3 to 8, not necessarily the whole range).

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%5B0%5D=RO



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 Romania

Pilot Lines in Nanotechnology and Advanced Materials



Project Number	Project Acronym	Project Title	Project Start Date	Project End Date	Participant Legal Name	Participant Short Name	Sectors	Pilot line
686165	IZADI-NANO2INDUSTRY	Injection moulding, casting and coating PILOTS for the production of improved components with nano materials for automotive, construction and agricultural machinery.	01/11/2015	31/10/2018	INSTITUTUL NATIONAL DE CERCETARE DEZVOLTARE PENTRU CHIMIE SI PETROCHIMIE ICECHIM	ICECHIM		

Planned investments, allocated resources, in Romania, 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: Romania

View a different country

Finances: Planned

Finances: Implemented

EU Payments

Achievements

Programmes

Romania, through 9 national programmes, benefits from ESIF funding of EUR 30.8 billion representing an average of 1546 euro per person over the period 2014-2020. This page includes visualizations on the planning and implementation of the finances available, the EU payments to Romania and achievements at country level. You can explore further the ESI Funds programs of the country in the "Programmes" section, where we list also the relevant Interreg programmes for Romania.

Total EU National

Country Budget for 2014-2020:

€36 447 518 905

FINANCES: PLANNED

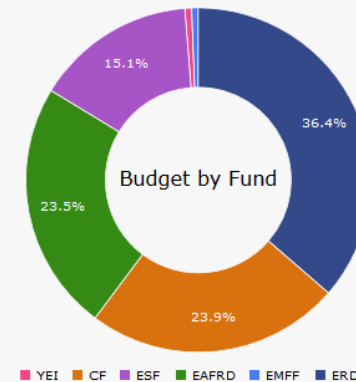
Total

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): Romania, EUR

Explore and Share this Data



Refresh Date: 21/8/2017