

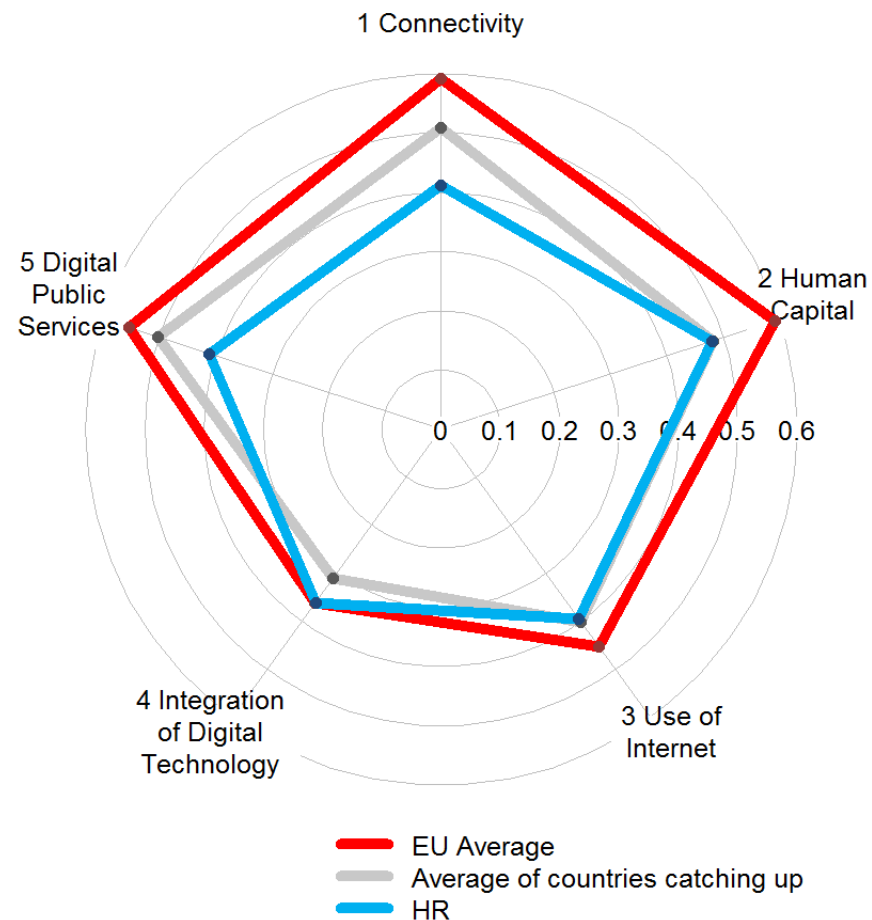


- Croatia's national strategies for digitising industry pg 3
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## Croatia has a national policy initiative on digitising industry under preparation

- The initiative is supported by the Ministry of Economy, Entrepreneurship and Crafts
- **Objectives:** Networking and digital connectivity; Education of workforce for Industry 4.0; Efficient use of resources; Digitisation of public administration; Enactment of legal regulations; Creation of technical standards and security of systems and data
- Some of the **pilot projects** are: SUPRACONTROL, FILIX, manufacturing of lighting products, THE-CUT, dies for injection moulding, RIMAC AUTOMOBILI, smart factory for electric automotive industry, etc.
- Funding: information NA

**Croatia ranks 24 among EU countries.  
It is part of the group of countries that are catching up.**



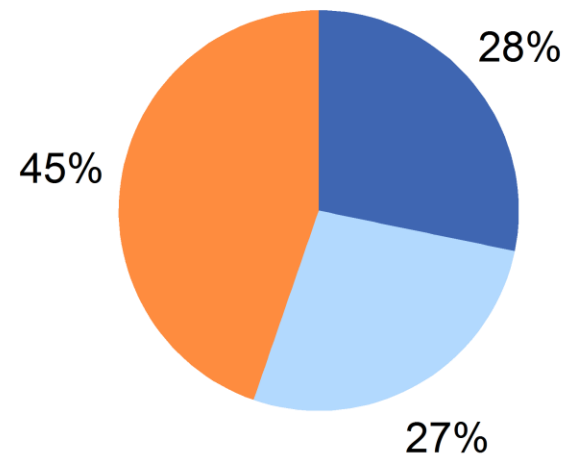
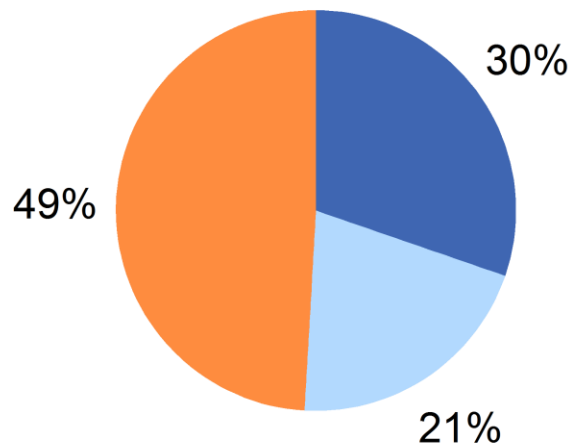
**In Croatia 21% of citizens have basic digital skills (27% in the EU) and 30% have above basic digital skills (28% in the EU).**

## Digital Skills (2015)

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

**HR**

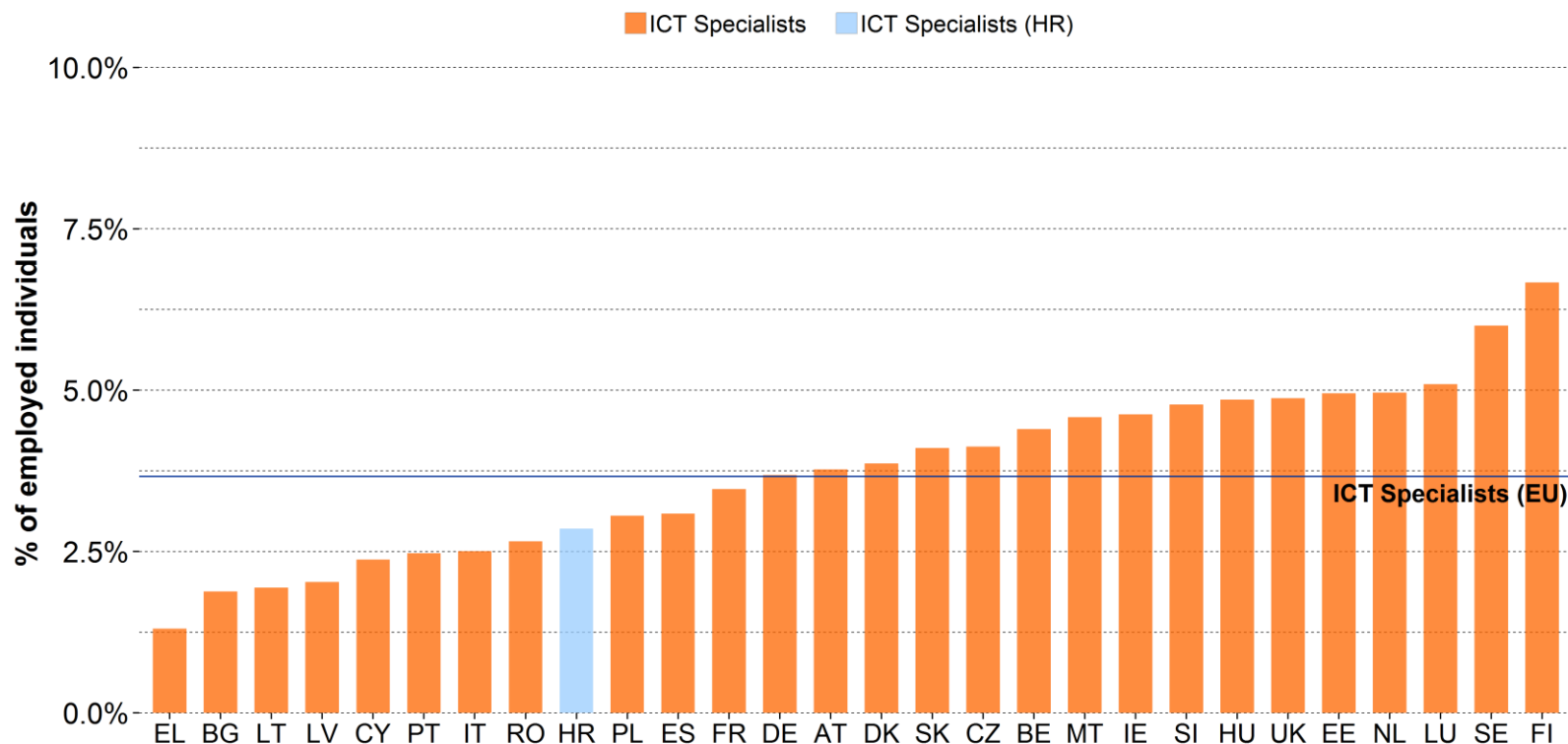
**EU**



% of individuals

In Croatia ICT Specialists account for 2.9% of the workforce (3.7% in the EU).

## ICT Specialists in the workforce (2014)

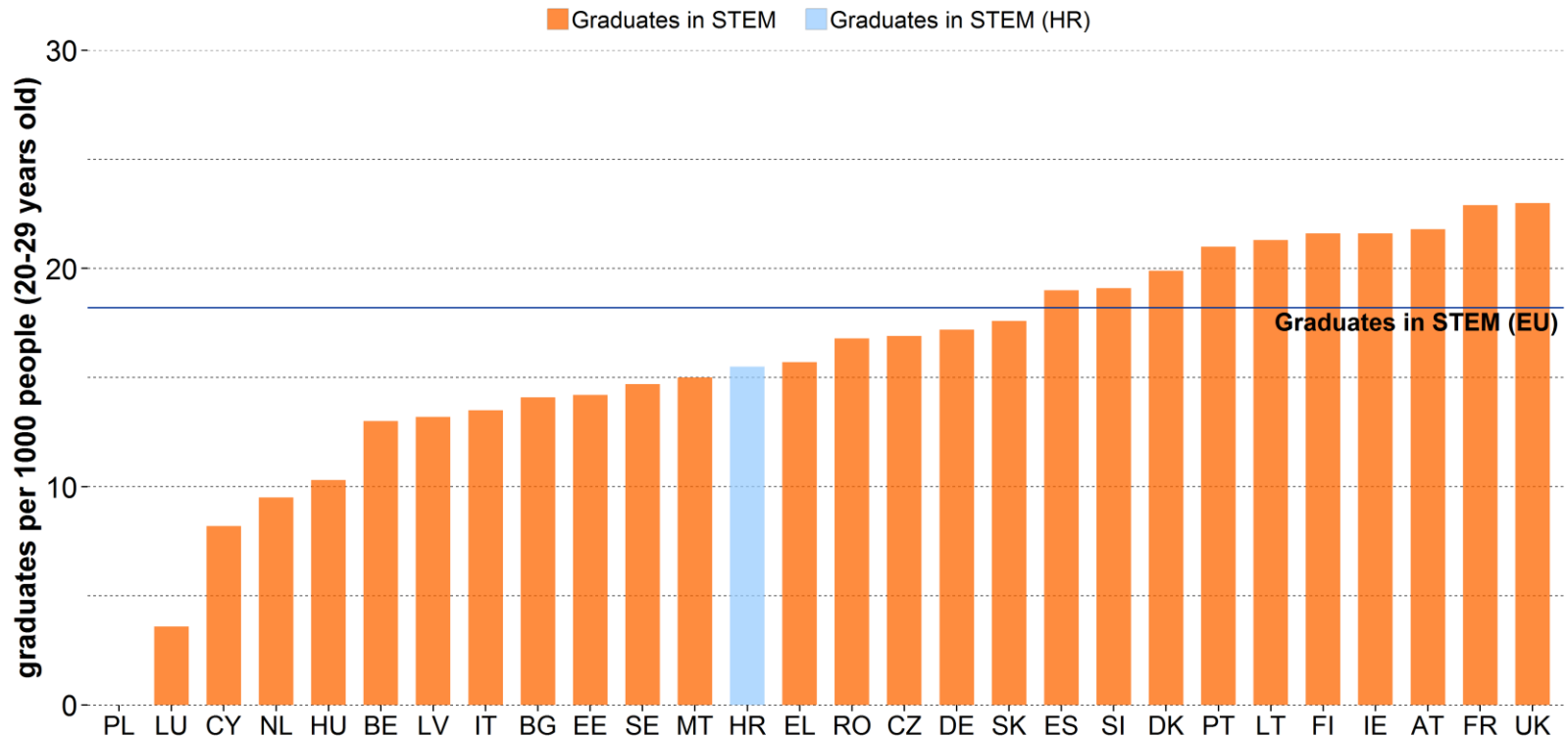


# Human Capital: Graduates in STEM (Science, Technology and Mathematics)

European  
Commission

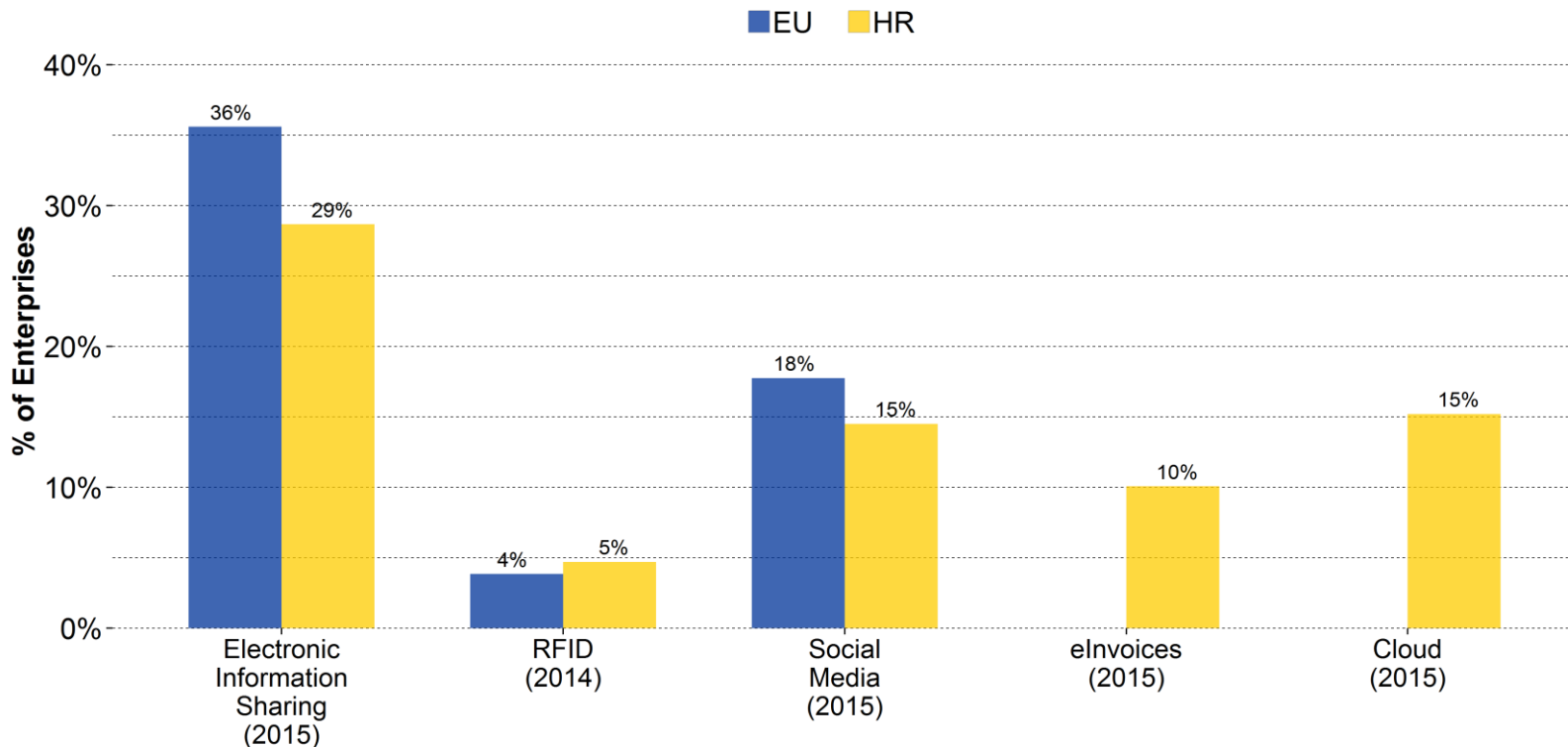
**Croatia has 16 graduates in STEM per each 1000 people aged  
20-29 years old (18 in the EU).**

## Graduates in Science, Technology and Mathematics (2013)



**Businesses in Croatia 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

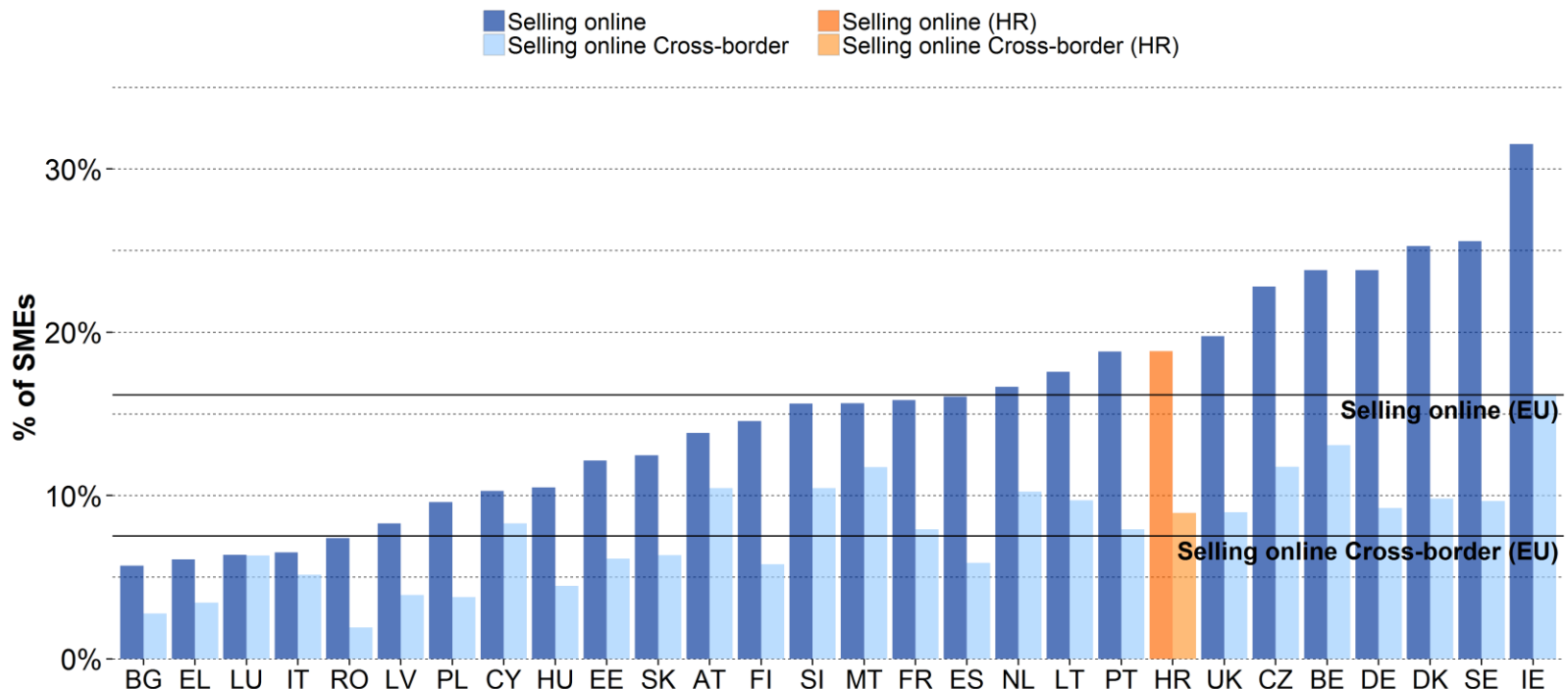




**In Croatia 19% of SMEs sell online (16% in the EU).**

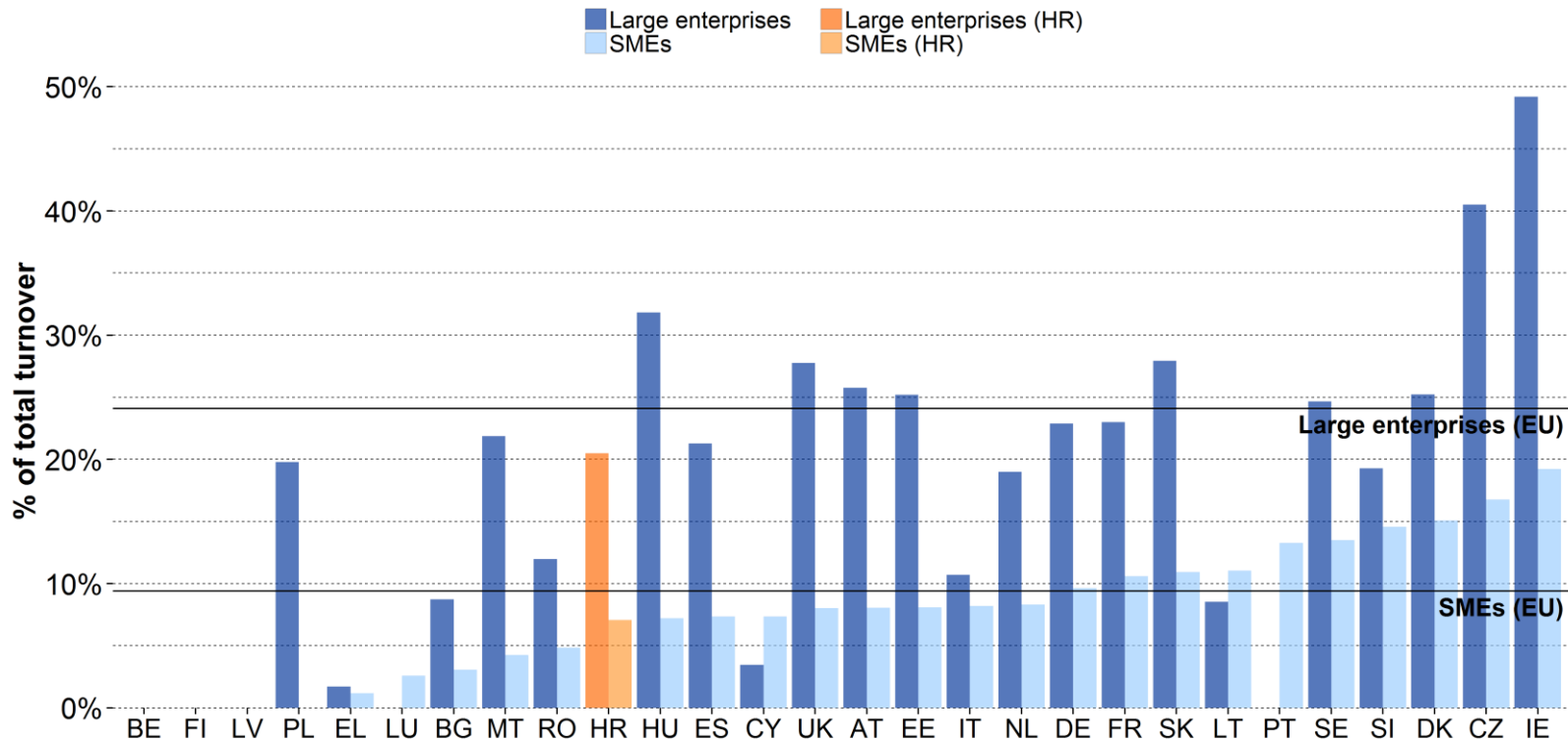
**8.9% of Croatian SMEs sell online to other EU countries (7.5% in the EU).**

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



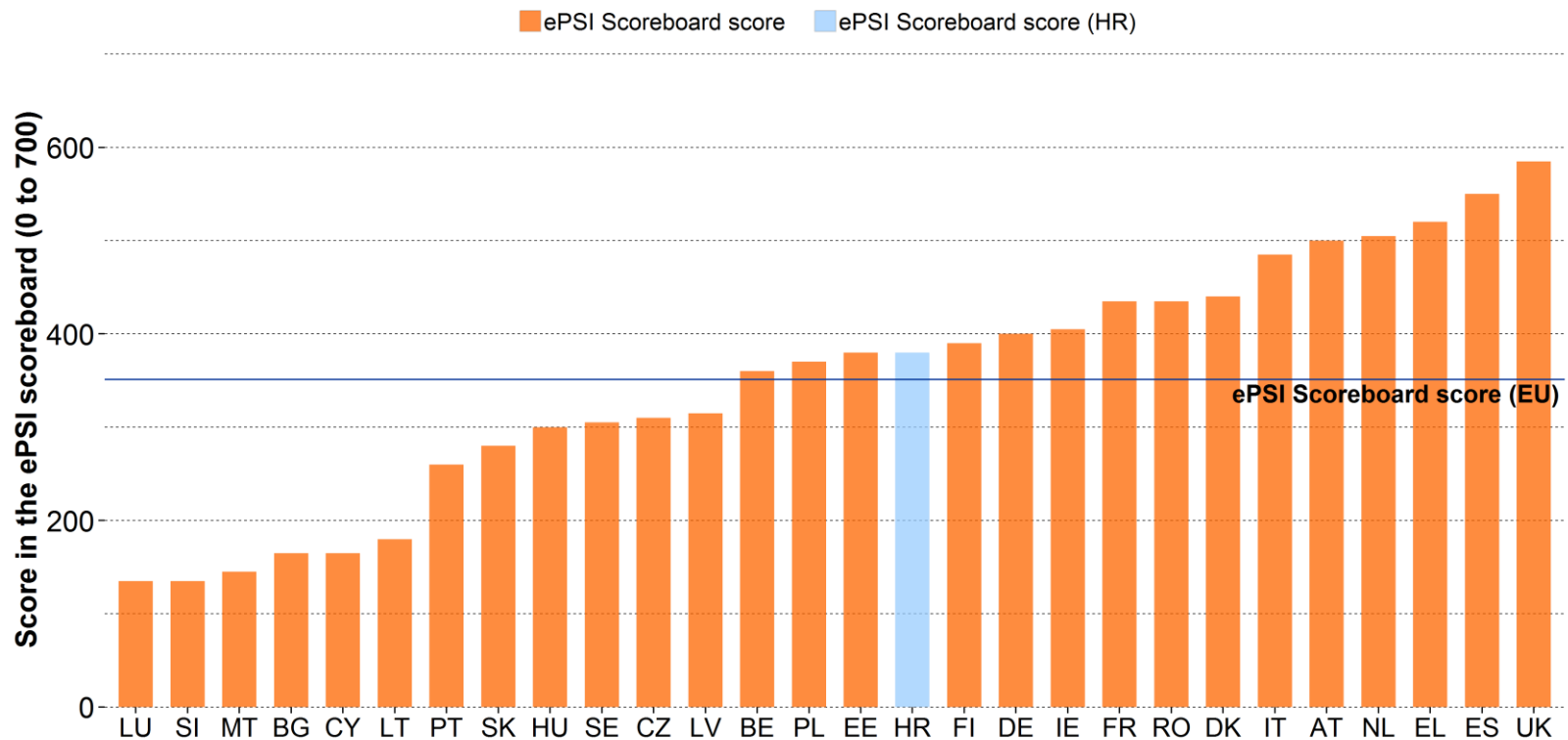
**SMEs in Croatia obtain on average 7.1% of their turnover from eCommerce (9.4% in the EU). Large enterprises derive on average 20% of their turnover from eCommerce (24% in the EU).**

## Turnover from eCommerce (2015)



**Croatia scores 380 out of 700 in the European Public Sector Information scoreboard, against an overall score of 351 out of 700 for the European Union.**

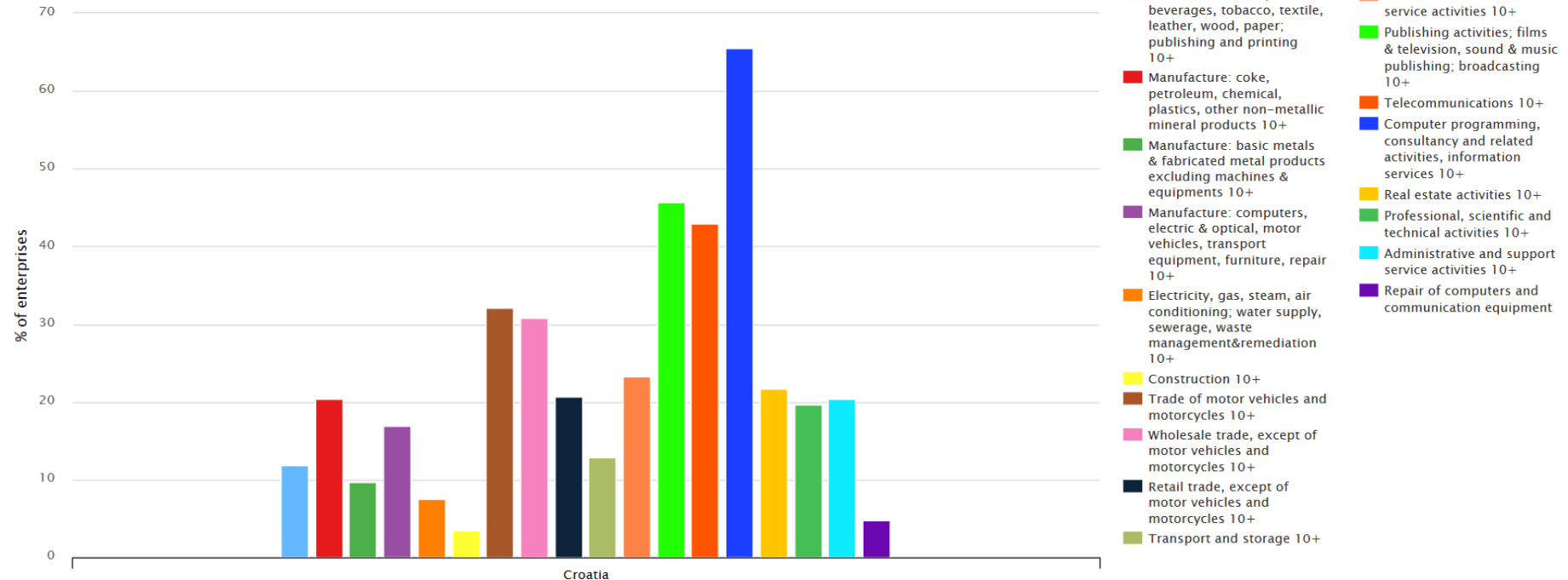
## Open Data (2015)



# Enterprises with high level of Digital Intensity by economic sectors in Croatia

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

Year: 2016



## 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+
- Repair of computers and communication equipment

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

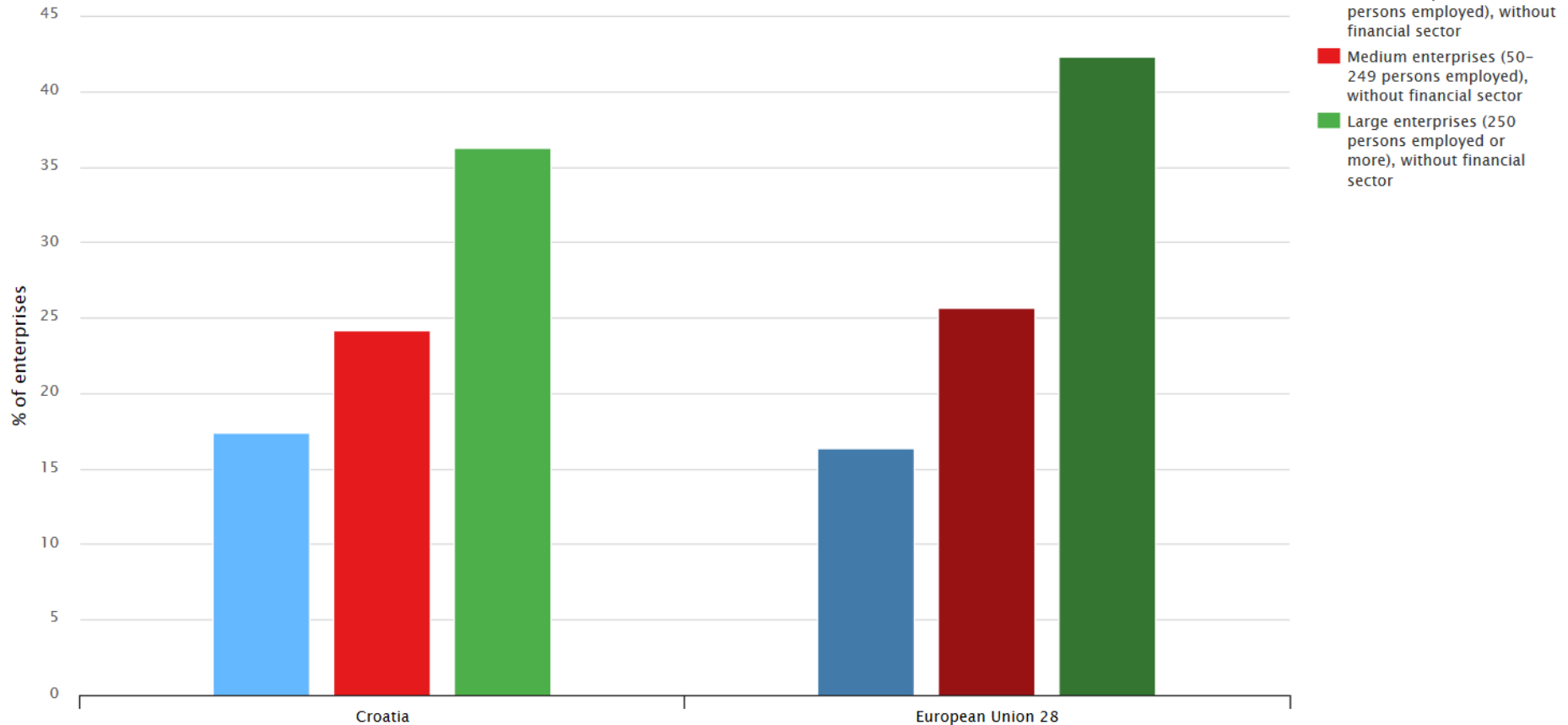
- Trade of motor vehicles and motorcycles 10+
- Wholesale trade, except of motor vehicles and motorcycles 10+
- Publishing activities; films & television, sound & music publishing; broadcasting 10+
- Telecommunications 10+
- Computer programming, consultancy and related activities, information services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

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

# Digital Innovation Hubs Catalogue

## The Croatia 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

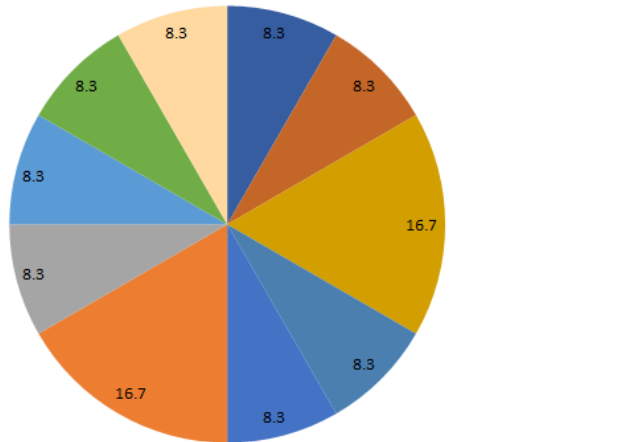
<http://s3platform.jrc.ec.europa.eu/digital-innovation-hubs-tool>

[JRC-B3-DIH@ec.europa.eu](mailto:JRC-B3-DIH@ec.europa.eu)

The screenshot displays the 'SMART SPECIALISATION PLATFORM' interface. At the top, there is a navigation bar with the European Commission logo and the platform name. Below this is a secondary navigation bar with links for 'Home', 'S3 Platform', 'Sections', 'Tools', 'News', 'Events', and 'Knowledge Repository'. A search bar is located on the right side of this bar. The main content area is titled 'Digital Innovation Hubs' and features a map of Croatia. The map is overlaid with various colored lines and markers, indicating different Digital Innovation Hubs. To the right of the map is a search and filter panel. It includes a search box with the text 'CROATIA'. Below the search box are three dropdown menus: 'Technical Competences' (None selected), 'Services Provided' (None selected), and 'Focus on TRL' (None selected). At the bottom of the filter panel is a 'Market sectors' section with a 'None selected' dropdown and a list of checkboxes for various sectors: 'Select all', 'Agriculture, hunting and forestry', 'Fishing', 'Mining and quarrying', 'Electricity, gas and water supply', 'Construction', 'Wholesale and retail trade', and 'Hotels and restaurants'. The map itself shows major cities like Zagreb, Rijeka, and Osijek, and various regions. The bottom of the interface includes a footer with 'Leaflet | © OpenStreetMap contributors | Disclaimer' and a link to 'Export Hubs to csv'.

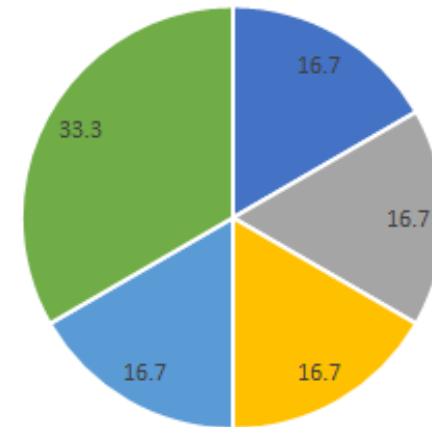
# Services provided and types of customers supported by DIHs in Croatia - Analysis

## 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 Croatia 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	SVEUCILISTE U ZAGREBU FAKULTET ELEKTROTEHNIKE I RACUNARSTVA	PARTICIPANT	UZAGREB	PUBLIC	Yes
FOF-12-2017	L4MS	42	31/03/2021	INOVACIJSKI CENTAR NIKOLA TESLA	PARTICIPANT	ICENT	PRIVATE	Yes
FOF-12-2017	L4MS	42	31/03/2021	MURAPLAST d.o.o.	PARTICIPANT	MP	PRIVATE	No





# Competence centers/DIHs funded by EU projects in Croatia 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	UNIZG-FER	SVEUCILISTE U ZAGREBU FAKULTET ELEKTROTEHNIKE I RACUNARSTVA	Participant	HES

### 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: Croatia

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

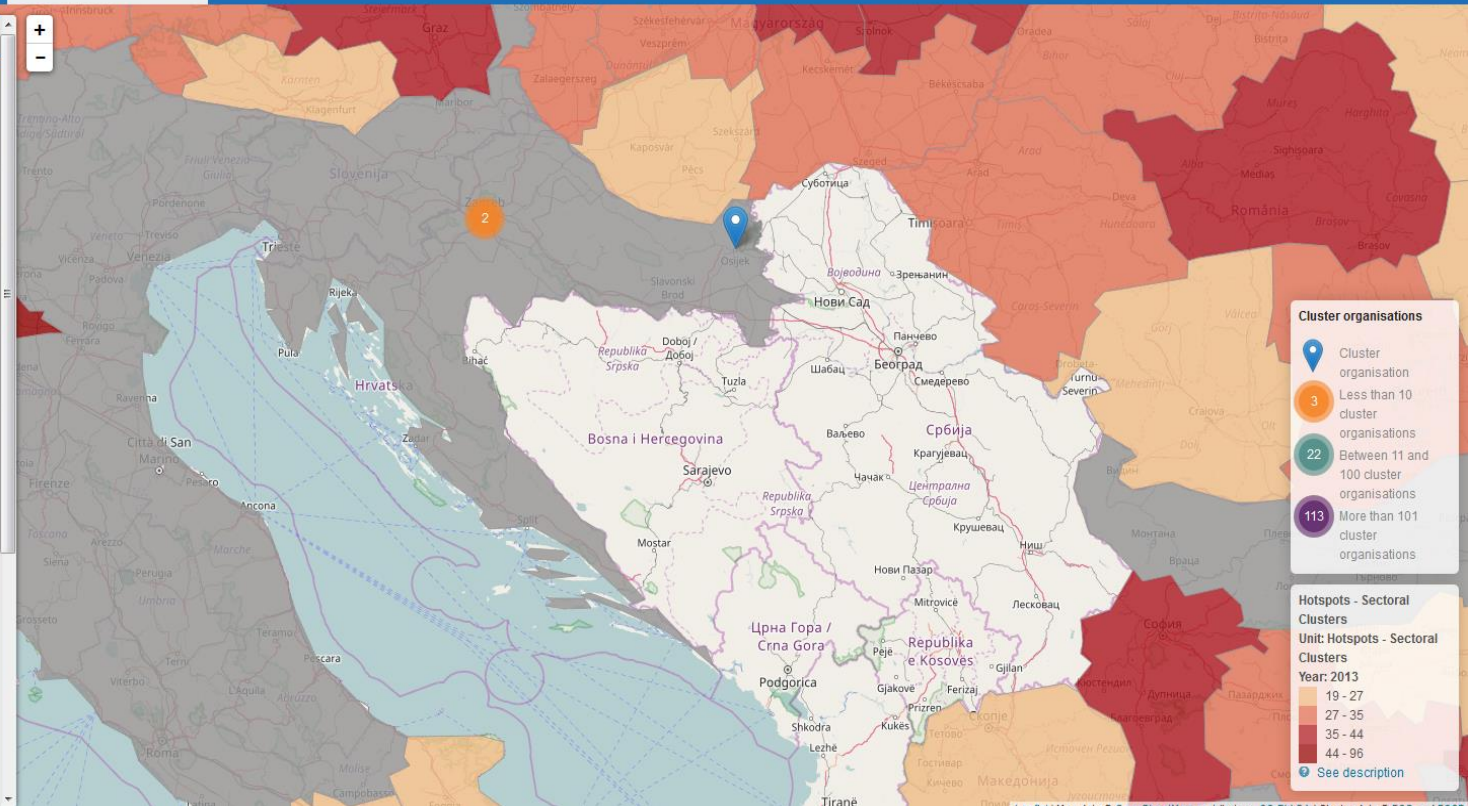
Total number of members: Any

ESCP-4i Membership: None

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=hr](https://www.clustercollaboration.eu/print/cluster-list?combine=&country_code=hr)

Please see [WG1 report](#)

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

**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 Croatia**

## **No Pilot Lines in Nanotechnology and Advanced Materials in Croatia**

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

European Commission

## EUROPEAN STRUCTURAL AND INVESTMENT FUNDS

DATA

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

### Country Data for: Croatia

View a different country

Finances: Planned

Finances: Implemented

EU Payments

Achievements

Programmes

Croatia, through 4 national programmes, benefits from ESIF funding of EUR 10.7 billion. This represents an average of 2 529 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 Croatia 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 Croatia.

Total EU National

Country Budget for 2014-2020:

€12 677 147 109

FINANCES: PLANNED

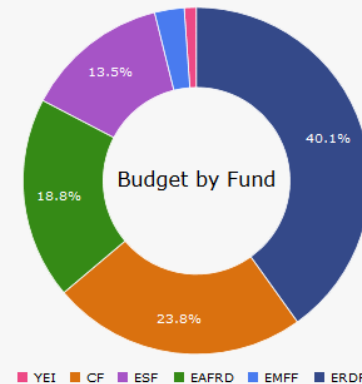
Total

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): Croatia, EUR

Explore and Share this Data



Refresh Date: 21/8/2017