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Poland's national strategy for digitising industry



MINISTERSTWO
ROZWOJU

- The **Future Industry Platform (Platforma Przemysłu Przyszłości - PPP)** is currently under preparation by the **Ministry of Economic Development**. The **PPP** is one of the strategic projects included in the Polish midterm development strategies, called **Responsible Development Strategy**. The estimated launch of the initiative falls in 2018.
- The **PPP** main tasks will be to integrate private and public stakeholders in the field of industrial transformation and to build awareness among Polish enterprises about the technological and business opportunities carried by the Industry 4.0.
- The new organisation will also advise, demonstrate and help companies with the application of new solutions thanks to digital solutions as well as the network of competence centres.
- **Industrial Transformation Team:** at the core of the Polish Industry 4.0 Platform set up in 2016 by the government comprising ministry and industry representatives focusing on 5 relevant development areas of digital technologies

Responsible Development Strategy

- An **“economic roadmap”** for Poland was launched in 2015 over the time period of 25 years with investments of appr. **PLN1 trillion** (235bn EUR) until 2030 - The “Morawiecki plan”
- Aim: strengthen Polish capital and ensure the growth of innovativeness of Polish companies in order to make them competitive on foreign markets
- In February **2016**, an **“Action Plan for the Responsible Development of Poland”** was adopted

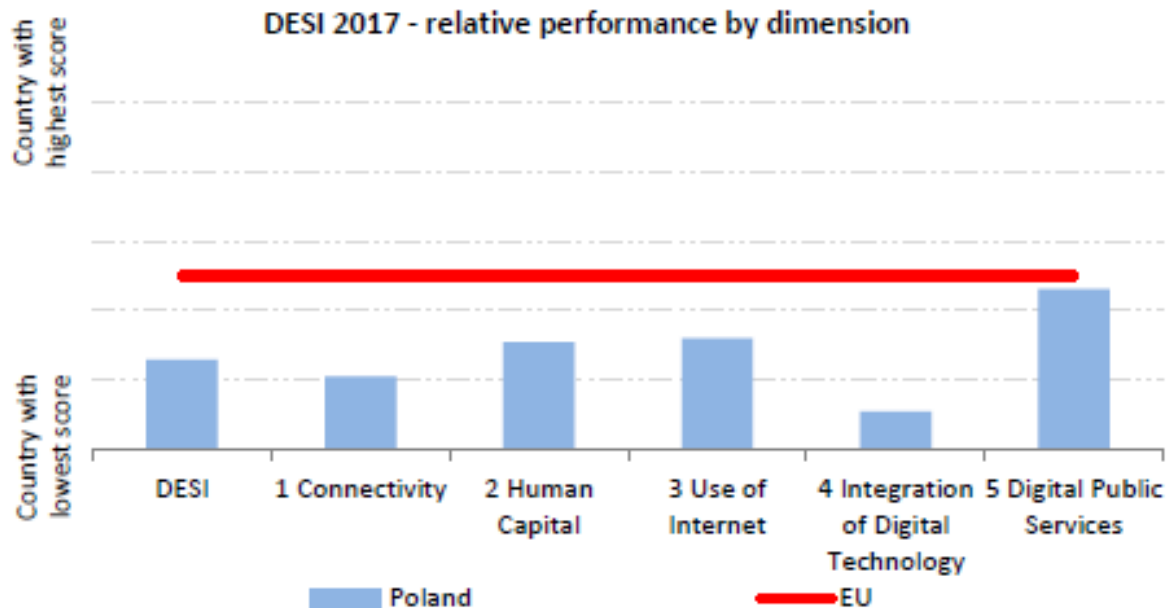
<http://financialobserver.eu/poland/polish-government-unveils-5-pillar-economic-roadmap-to-2040/>

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>

Poland's performance in the DESI 2017



**Poland ranks 23 among EU countries.
It is part of the group of countries that are falling behind.**





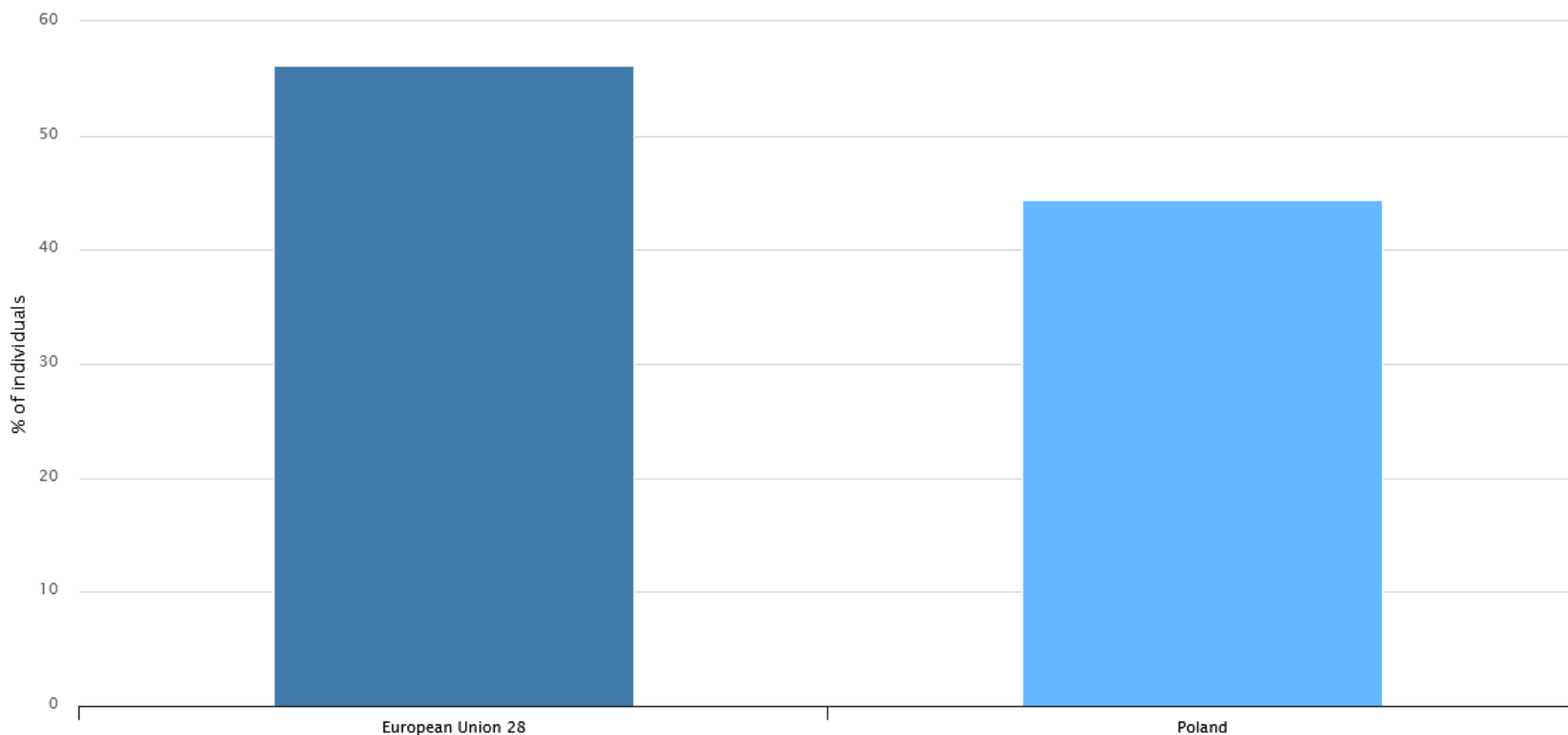
European Commission

Human Capital: Digital Skills

In Poland 44% of citizens have basic digital skills (56% in the EU)

Individuals with basic or above basic digital skills

Year: 2016



European Commission, Digital Scoreboard

Digital Scoreboard 2016

<https://ec.europa.eu/digital-single-market/en/scoreboard/poland>

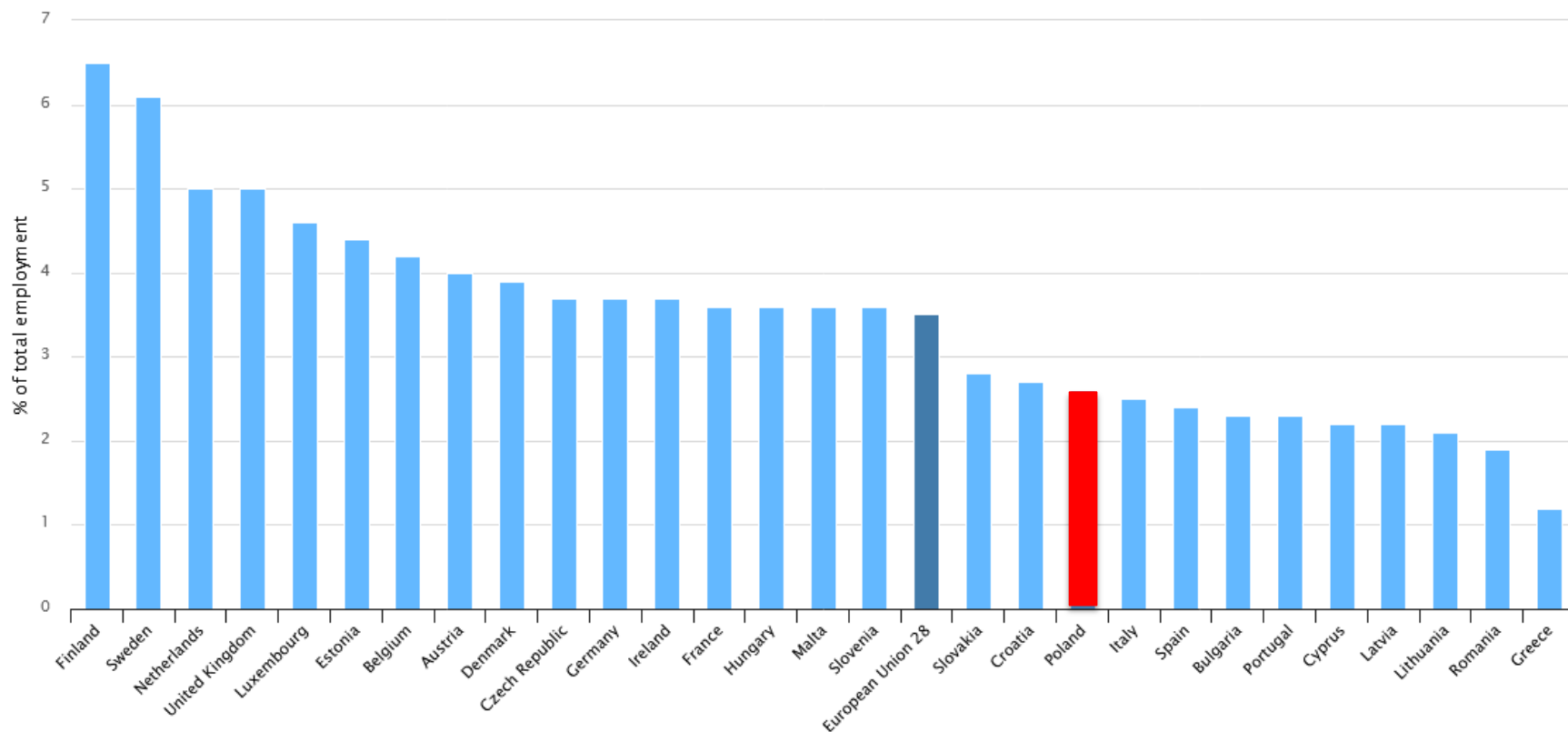
Source: Eurostat - Community survey on ICT usage in Households and by Individuals

Human Capital: ICT Specialists in the workforce

In Poland ICT Specialists account for 2.6% of the workforce (3.5% in the EU).

Persons Employed with ICT Specialist Skills (broad measure)

Year:2015



European Commission, Digital Scoreboard

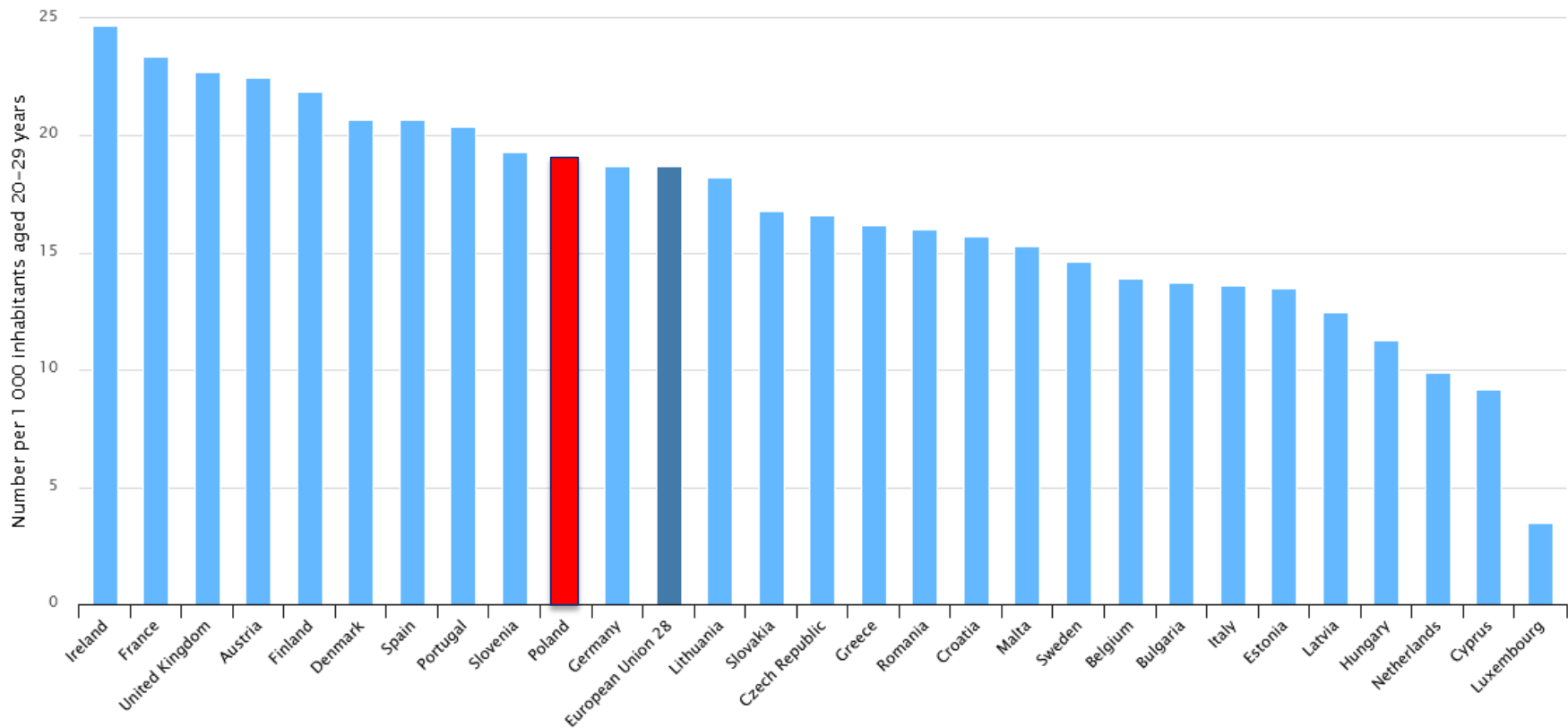
Human Capital: Graduates in STEM (Science, Technology and Mathematics)

European
Commission

In Poland 19 graduates per 1000 inhabitants aged 20-29 years completed science and technology university programs (18,7 in the EU)

Science and technology graduates

Year:2014



European Commission, Digital Scoreboard

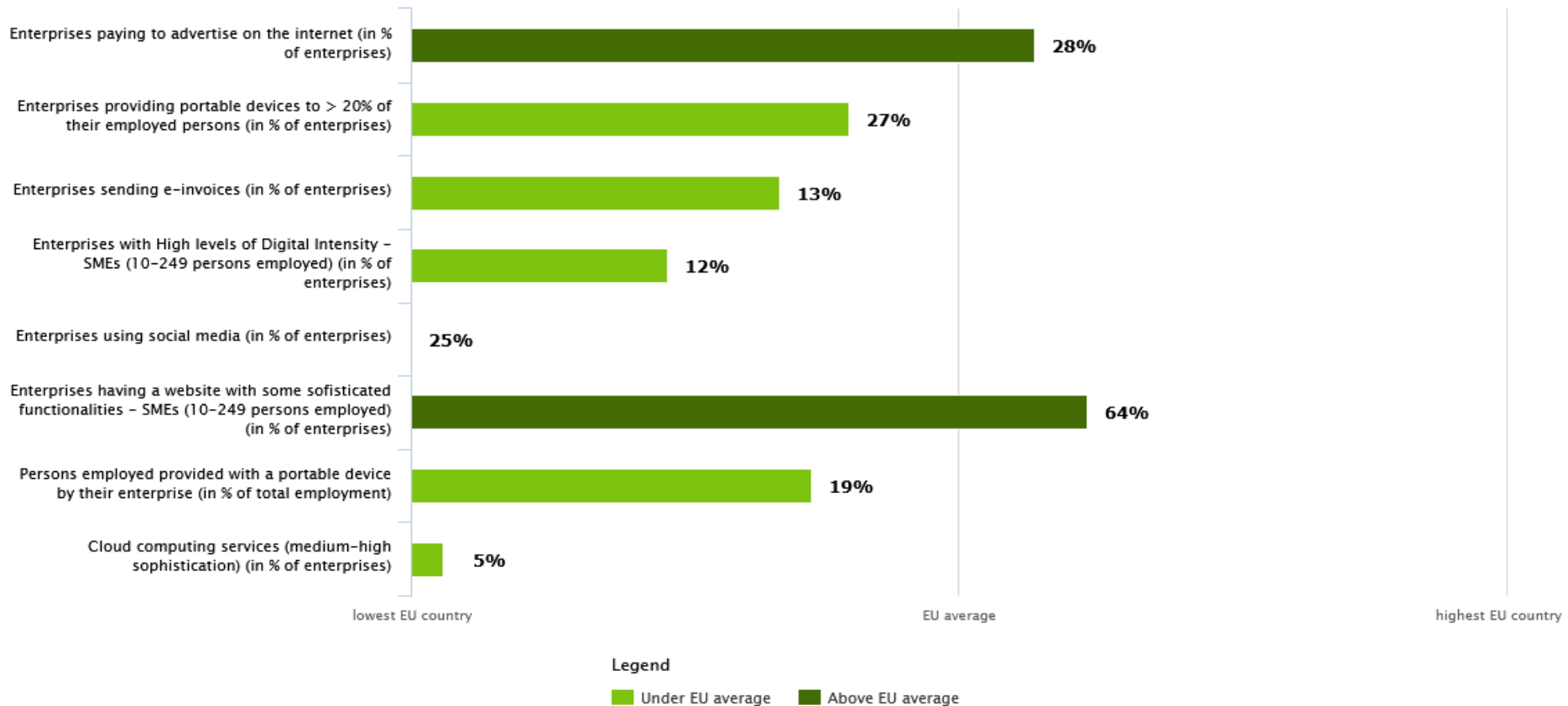
Digital Scoreboard 2016

<https://ec.europa.eu/digital-single-market/en/scoreboard/poland>

Source: Eurostat - Science and technology graduates

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

Country profile for Poland, eBusiness indicators
2016

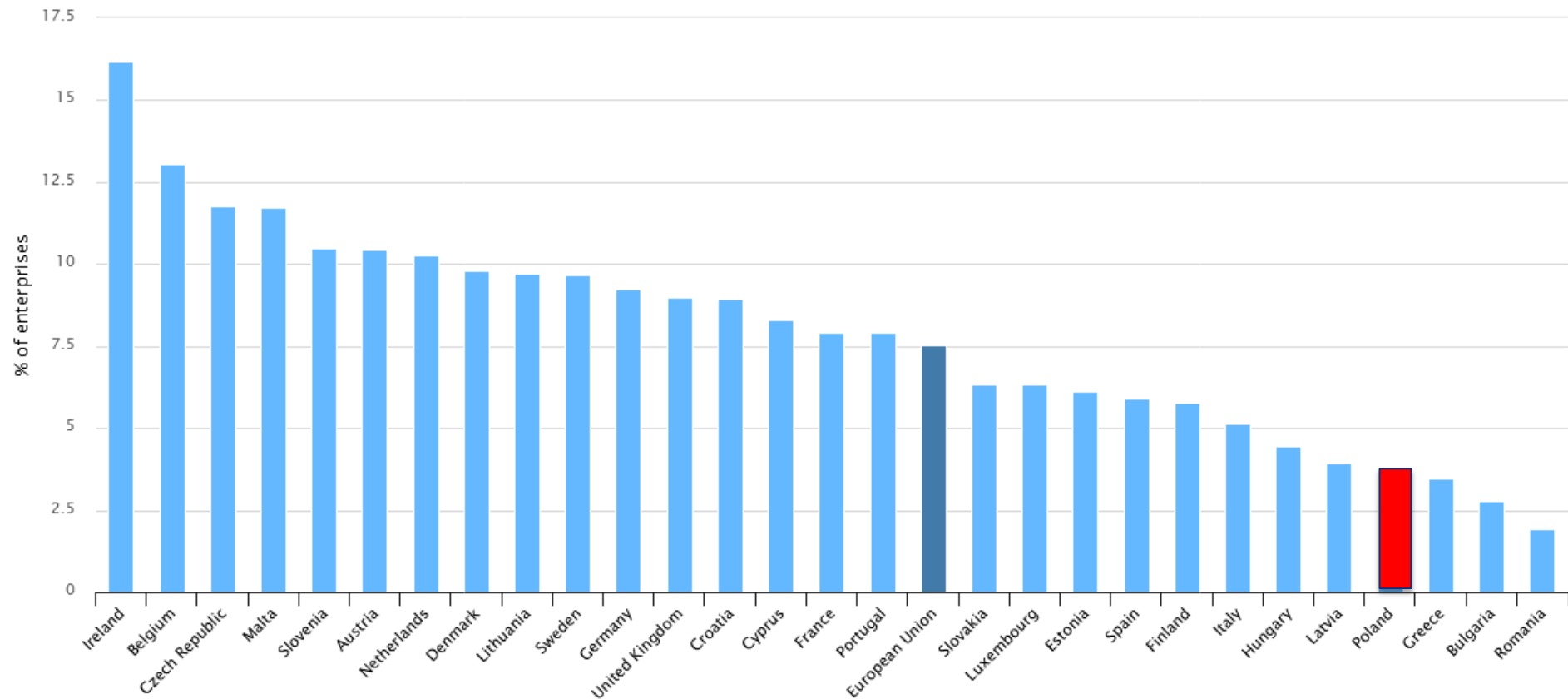


In Poland 10% of SMEs sell online (17% in the EU).

3.8% of Polish SMEs sell online to other EU countries (7.5% in the EU).

Enterprises having done electronic sales to other EU countries in the last calendar year, SMEs (10–249 persons employed), without financial sector

Year:2015

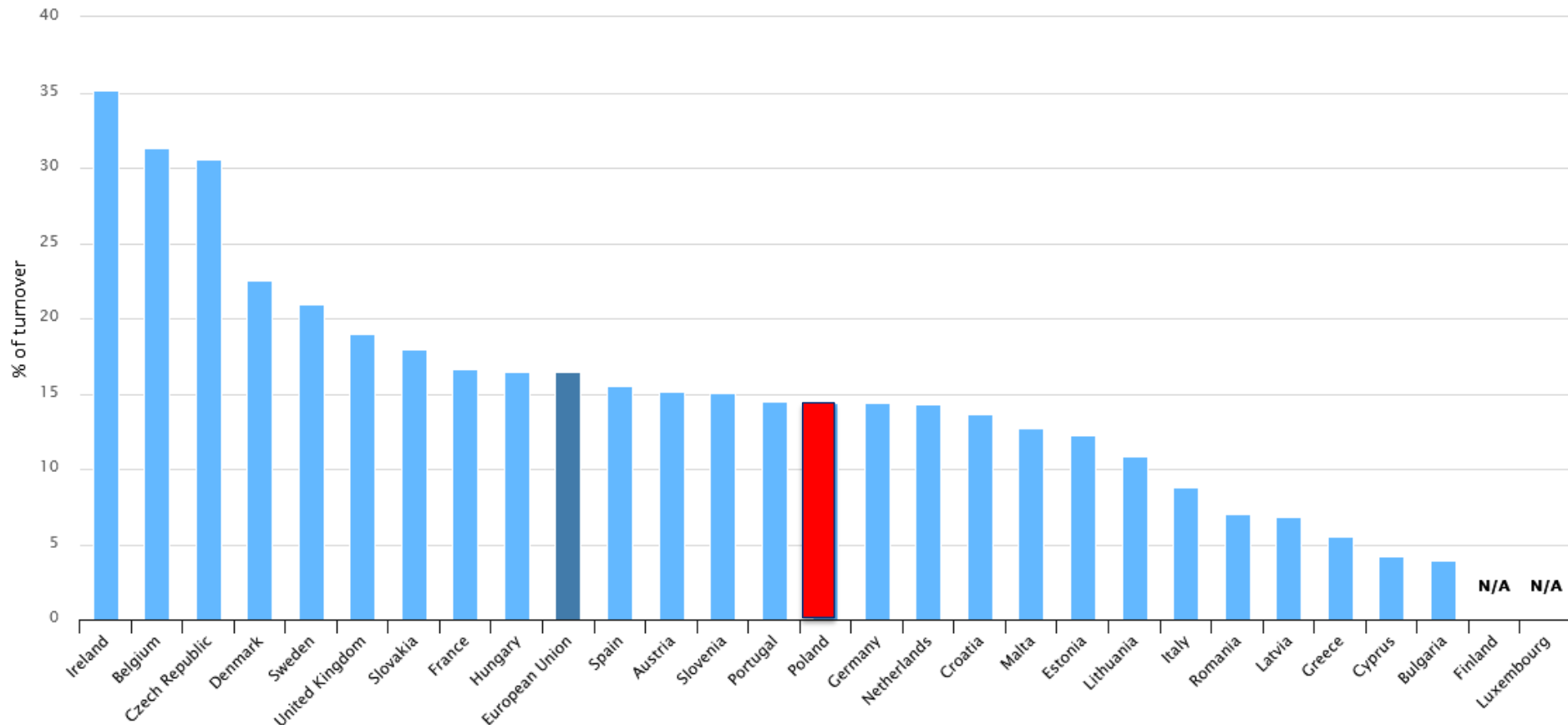


Integration of Digital Technology: SME Turnover from eCommerce

Polish enterprises derive on average 14,4% of their turnover from eCommerce (16,4 % in the EU)

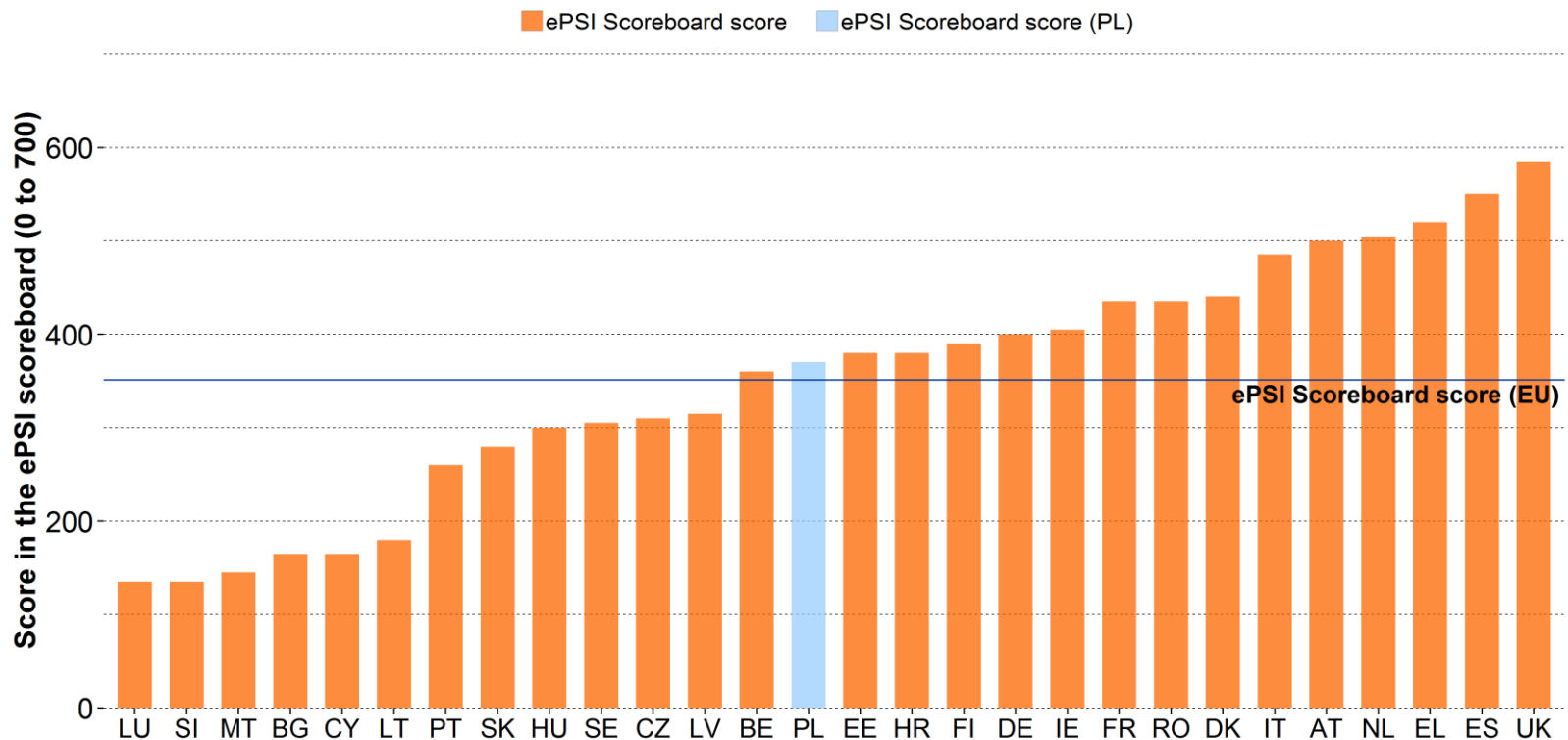
Total electronic sales by enterprises, as a % of their total turnover

Year:2016



Poland scores 370 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)

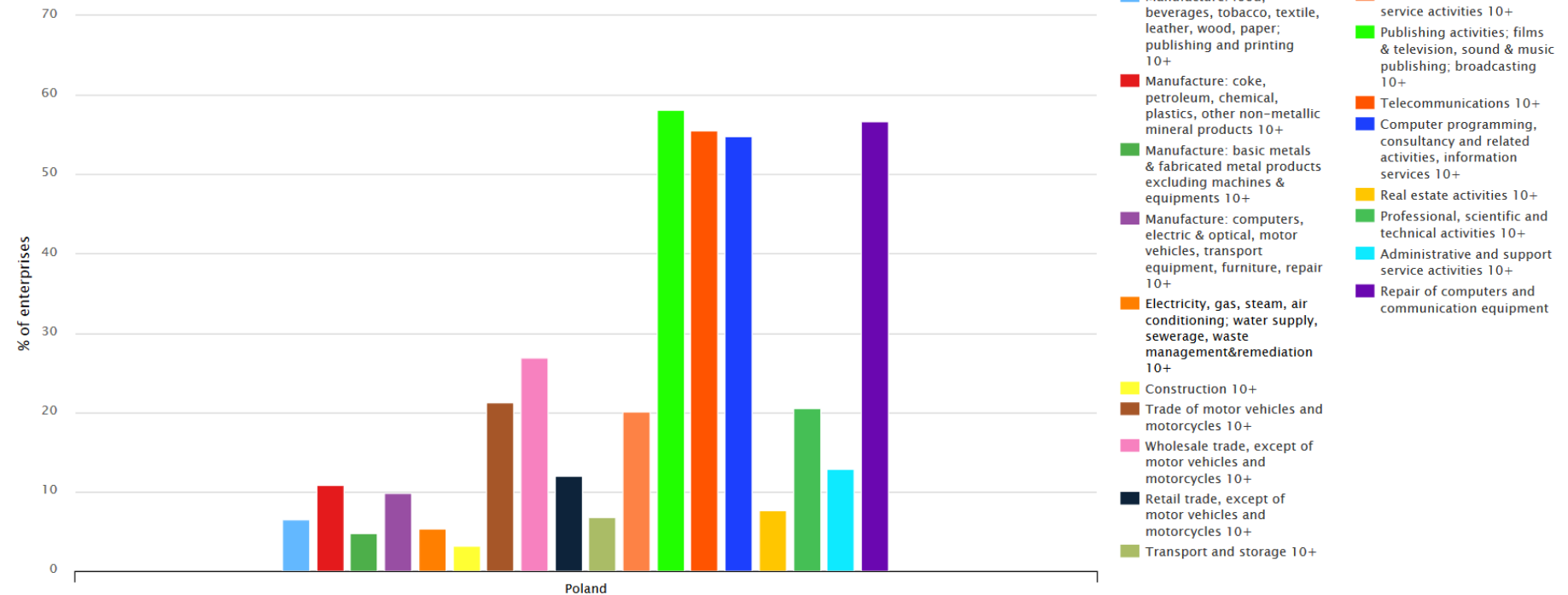


Enterprises with high level of Digital Intensity by economic sectors in Poland

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+
- Professional, scientific and technical activities 10+
- Trade of motor vehicles and motorcycles 10+

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

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

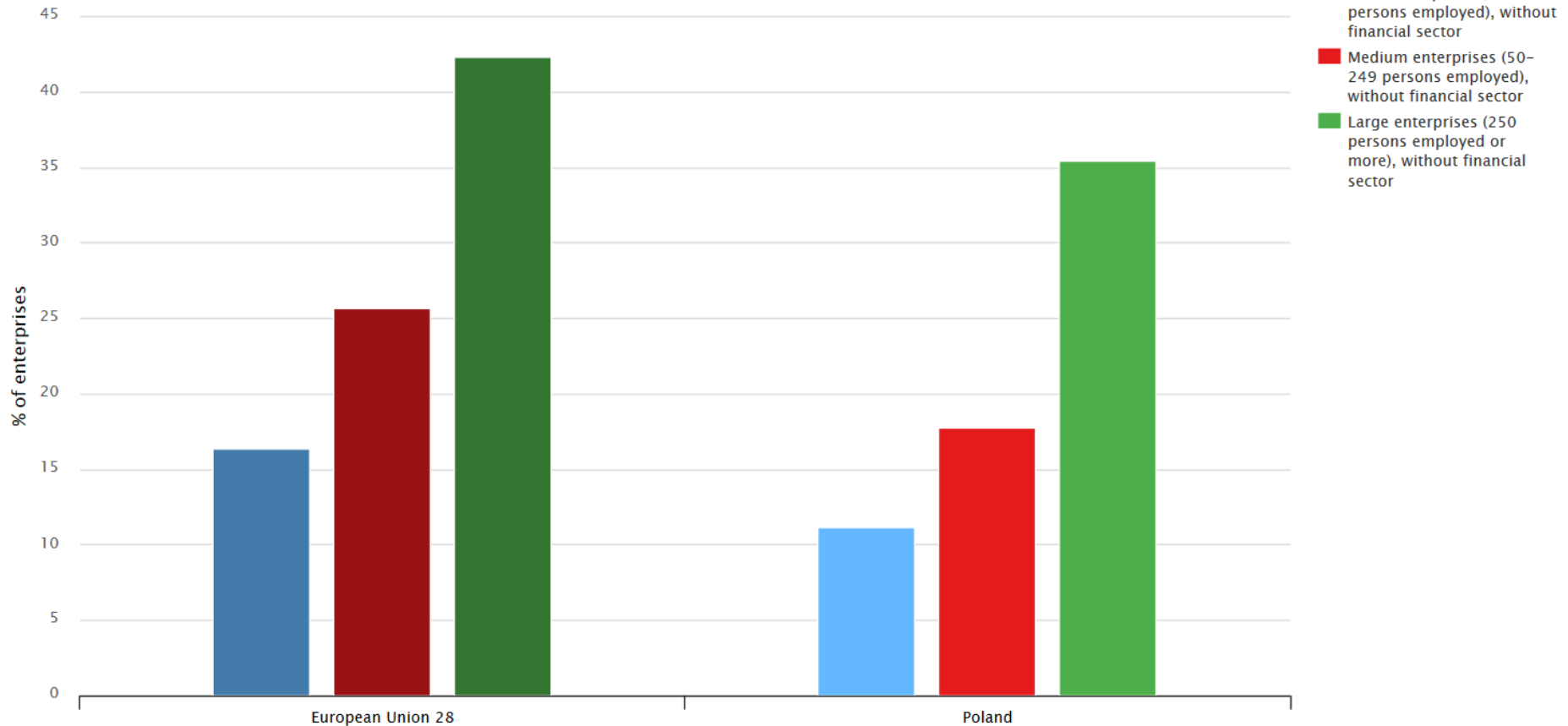
http://digital-agenda-data.eu/charts/analyse-one-indicator-and-compare-breakdowns#chart={%22indicator-group%22:%22ebusiness%22,%22indicator%22:%22e_di_hivhi%22,%22breakdown-group%22:%22econsector%22,%22unit-measure%22:%22pc_ent%22,%22time-period%22:%222016%22,%22ref-area%22:%22PL%22}}

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

Digital Innovation Hubs Catalogue

The Poland case

European
Commission

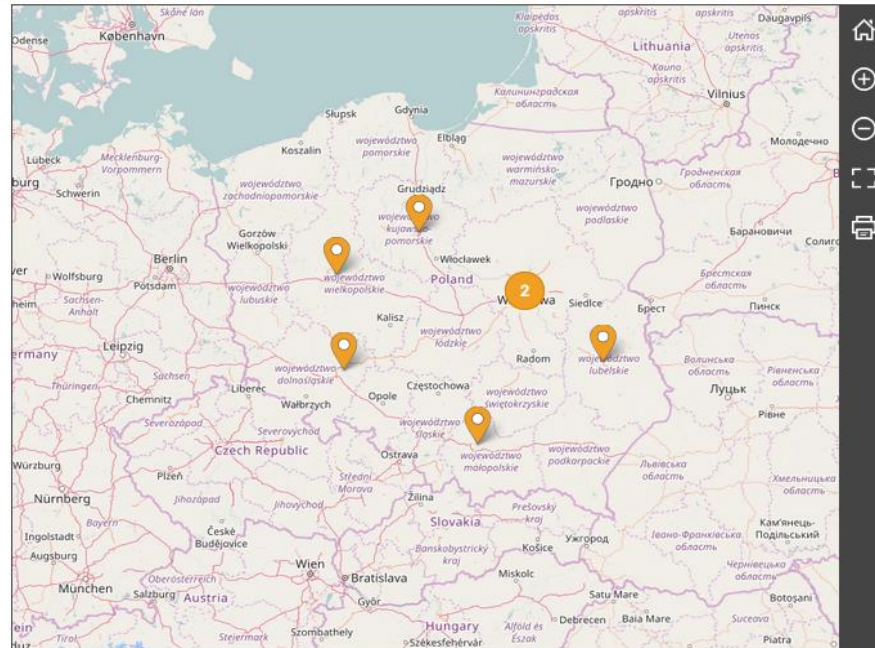
The version available presents:

- 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

Digital Innovation Hubs



Leaflet | © OpenStreetMap contributors | Disclaimer

[Export Hubs to csv](#)

Hub Name	Location	Country	Contact	Phone	Email	Website
Centre for Advanced Manufacturing Technologies, Wroclaw University of Science and Technology	Lukasiewiczza 5 street, 50-371, Wroclaw	Poland	Prof. Edward Chlebus, Director	71 320 2046	✉	
CYBERSEC HUB	Feldmana 4/9-1, 31-130, Kraków	Poland	Robert Siudak	+48 12 200 23 73	✉	
Emerging Transactional and Financial Technology Hub (ETFTH)	Warsaw	Poland	Magda Borowik	+48607519519	✉	

Search
POLAND

Technical Competences
None selected ▾

Services Provided
None selected ▾

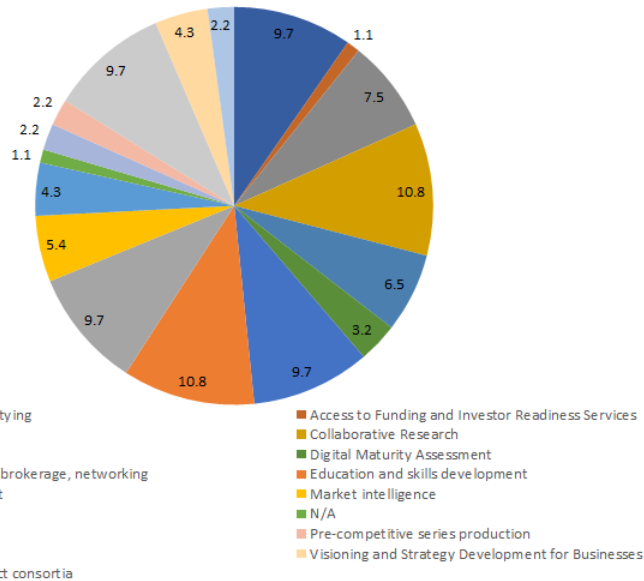
Focus on TRL
None selected ▾

Market sectors
None selected ▾

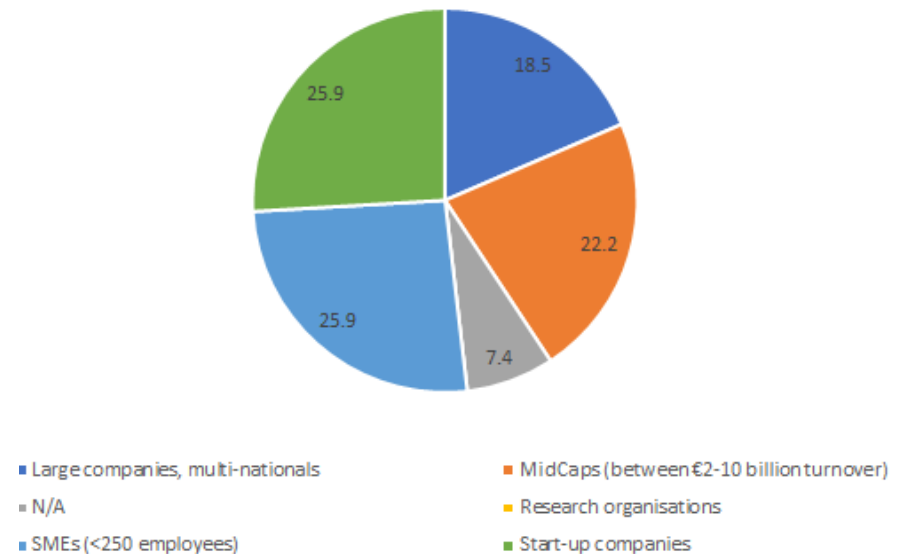
- Select all
- Agriculture, hunting and forestry
- Fishing
- Mining and quarrying
- Electricity, gas and water supply
- Construction
- Wholesale and retail trade
- Hotels and restaurants
- Transport, storage and communication
- Financial intermediation
- Real estate, renting and business activities
-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

Services provided and types of customers supported by DIHs in Poland - 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 Poland 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-09-2015	HORSE	54	30/04/2020	SPOLKA AKCYJNA ODLEWNIE POLSKIE	PARTICIPANT	OPSA	PRIVATE	No
FOF-12-2017	MIDIH	36	30/09/2020	INSTYTUT CHEMII BIOORGANICZNEJ POLSKIEJ AKADEMII NAUK	PARTICIPANT	PSNC	PUBLIC	Yes
FOF-12-2017	L4MS	42	31/03/2021	FUNDINGBOX ACCELERATOR SP ZOO	PARTICIPANT	FBOX	PRIVATE	No
FOF-12-2017	AMable	48	31/08/2021	POLITECHNIKA WROCLAWSKA	PARTICIPANT	PWR	PUBLIC	Yes
FOF-12-2017	CloudiFacturing	42	31/03/2021	SKA POLSKA SP Z O. O.	PARTICIPANT	SKA	PRIVATE	No
ICT-04-2017	TETRAMAX	48	31/08/2021	TECHMO SPOLKA Z OGRANICZONA ODPOWIEDZIALNOSCIA	PARTICIPANT	TECHMO	PRIVATE	No
ICT-04-2017	TETRAMAX	48	31/08/2021	FUNDINGBOX ACCELERATOR SP ZOO	PARTICIPANT	FBOX	PRIVATE	No
FOF-12-2017	I4MS-Go	30	29/02/2020	FUNDINGBOX ACCELERATOR SP ZOO	COORDINATOR	FBOX	PRIVATE	No



Competence centers/DIHs funded by EU projects in Poland 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
609029	FORTISSIMO	42	01-Jul-2013	31-Dec-2016	123	MIT	MICROSCOPEIT SP ZOO	Participant	PRC
619205	ACTPHAST	48	01-Nov-2013	31-Oct-2017	24	WUT	POLITECHNIKA WARSZAWSKA	Participant	HES
619205	ACTPHAST	48	01-Nov-2013	31-Oct-2017	24	UMCS	UNIWERSYTET MARII CURIE-SKLODOWSKIEJ	Participant	HES
619205	ACTPHAST	48	01-Nov-2013	31-Oct-2017	24	ITME	INSTYTUT TECHNOLOGII MATERIALOW ELEKTRONICZNYCH	Participant	REC

Clusters in Poland

European
Commission



EUROPEAN
CLUSTER COLLABORATION
PLATFORM .eu

Login

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

Poland

Region

All regions

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

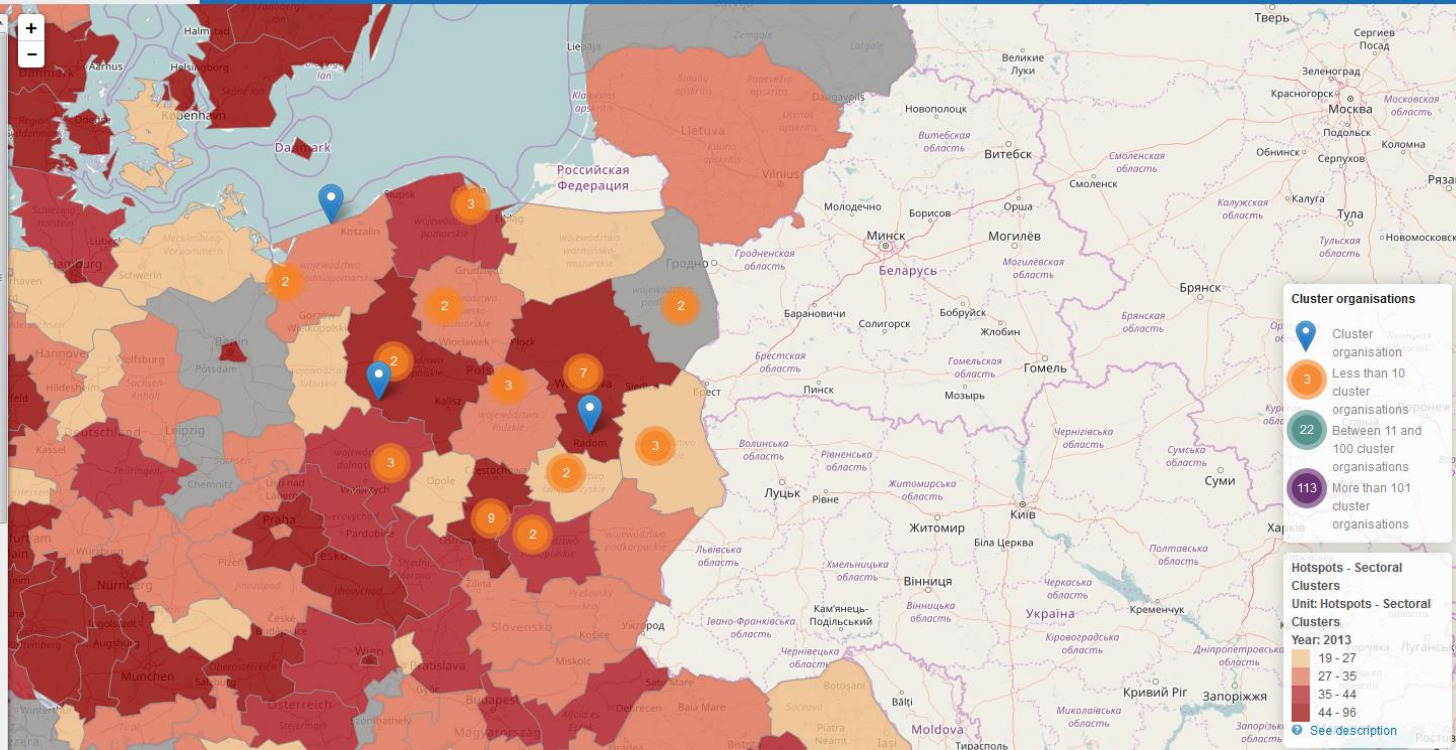
Total number of members

Any

Cluster Excellence Label/Award


Any

Target countries for trans-national activities



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


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)**.

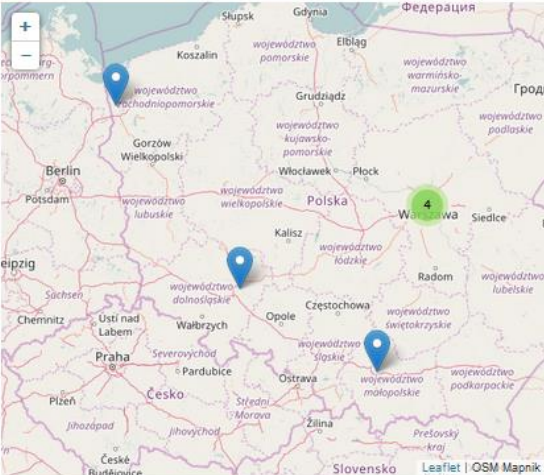
The Technology centres are selected according to criteria demonstrating their capacity to collaborate with SMEs on close-to-market research and innovation (Technology Readiness Levels 3 to 8, not necessarily the whole range).

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

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 Poland

Project Number	Project Acronym	Project Title	Project Start Date	Project End Date	Participant Legal Name	Participant Short Name	Sectors	Pilot line
646307	PLATFORM	Open access pilot plants for sustainable industrial scale nanocomposites manufacturing based on buckypapers, doped veils and prepregs	01/02/2015	31/01/2018	FUNDACJA PARTNERSTWA TECHNOLOGICZNEGO TECHNOLOGY PARTNERS	FUNDACJA PARTNERSTWA TECHNOLOGICZNEGO TECHNOLOGY PARTNERS	Aerospace, Defence industry, Automotive industry, Chemical Industry, Energy storage, Textile Industry, Power Generation Industry, Oil and Gas Industry, Security Industry, Construction Industry	Continuous melt blown filaments
646307	PLATFORM	Open access pilot plants for sustainable industrial scale nanocomposites manufacturing based on buckypapers, doped veils and prepregs	01/02/2015	31/01/2018	TOMASZ MARIAN KOSMIDER	TMBK Partners		
646364	NANOFACTURING	The Development of Medium- and Large-Scale Sustainable Manufacturing Process Platforms for Clinically Compliant Solid Core Nanopharmaceuticals	01/02/2015	31/01/2019	PROCHIMIA SURFACES SP. Z O.O.	PROCHIMIA		
646397	NANOLEAP	"Nanocomposite for building constructions and civil infrastructures: European network pilot production line to promote industrial application cases."	01/01/2015	30/06/2018	PURINOVA Sp. z o.o.	PUR		

Planned investments, allocated resources, in Poland, 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: Poland

View a different country

Finances: Planned

Finances: Implemented

EU Payments

Achievements

Programmes

Poland, through 24 national programmes, benefits from ESIF funding of EUR 86 billion. This represents an average of 2262 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 Poland 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 Poland.

Total EU National

Country Budget for 2014-2020:

€104 899 024 556

FINANCES: PLANNED

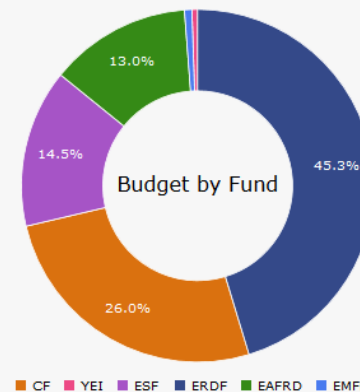
Total

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): Poland, EUR

Explore and Share this Data



Refresh Date: 21/8/2017