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- Hungary's performance in the DESI 2016 pg 4-11
- Level of Digital Intensity in Hungarian enterprises
by sector and size pg 12-13
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- Services provided and types of customers supported by DIHs
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- Clusters and KETs in Hungary pg 18-19
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- Pilot Lines in Nanotechnology and Advanced Materials pg 21
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Hungary's national strategy for digitising industry



Hungarian Platform IPAR 4.0 (Industry 4.0)

- Launched in **2016** under the leadership of the Institute for Computer Science and Control (SZTAKI), the Hungarian Academy of Sciences with the full support and commitment of the **Government of Hungary**, and specifically that of the **Ministry of National Economy**.
- Primary focus is on the **automotive sector**.
- **7 strong working groups:** Strategic planning; Employment, education and training; Manufacturing and logistics; ICT technologies (safety, reference architectures, standards); Industry 4.0 cyber-physical pilot systems; Innovation and business model and legal framework

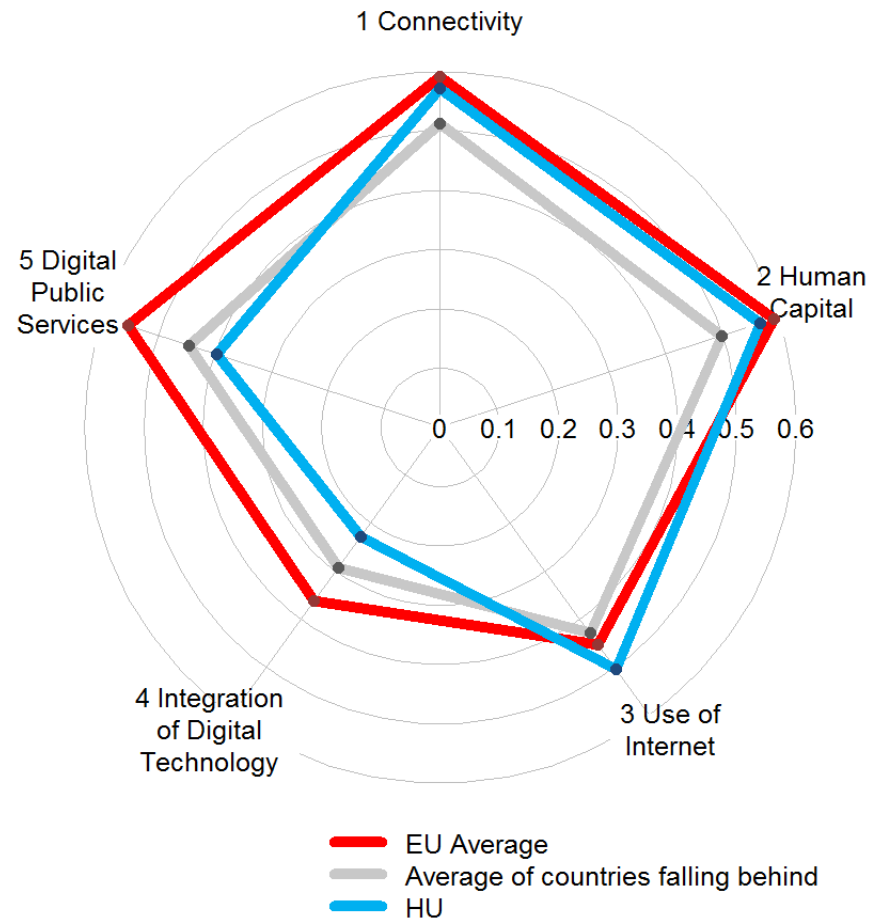
<https://www.i40platform.hu>

Funding

- Part of the wider EPIC CoE project, IPAR 4.0 is financed by the same financial sources.
- Key financial instrument: Horizon2020 with more than **10.8 million EUR** (appr. HUF 3.26 billion)
- Contributions by the NRD Office (**3.6 million EUR**) and GINOP

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>

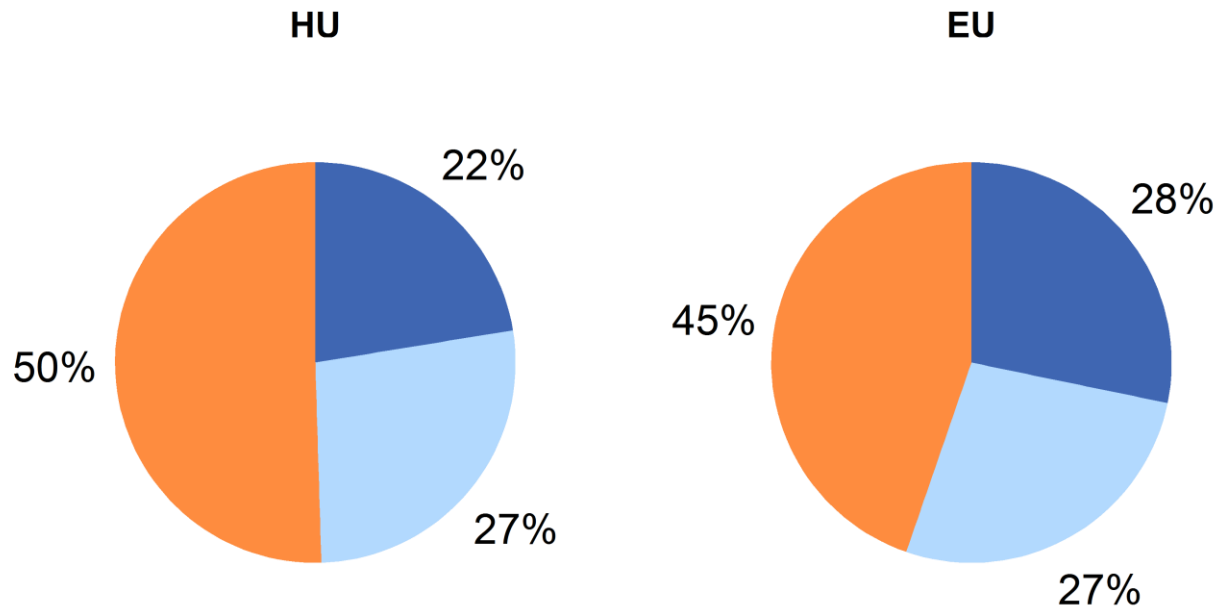
**Hungary ranks 20 among EU countries.
It is part of the group of countries that are falling behind.**



In Hungary 27% of citizens have basic digital skills (27% in the EU) and 22% have above basic digital skills (28% in the EU).

Digital Skills (2015)

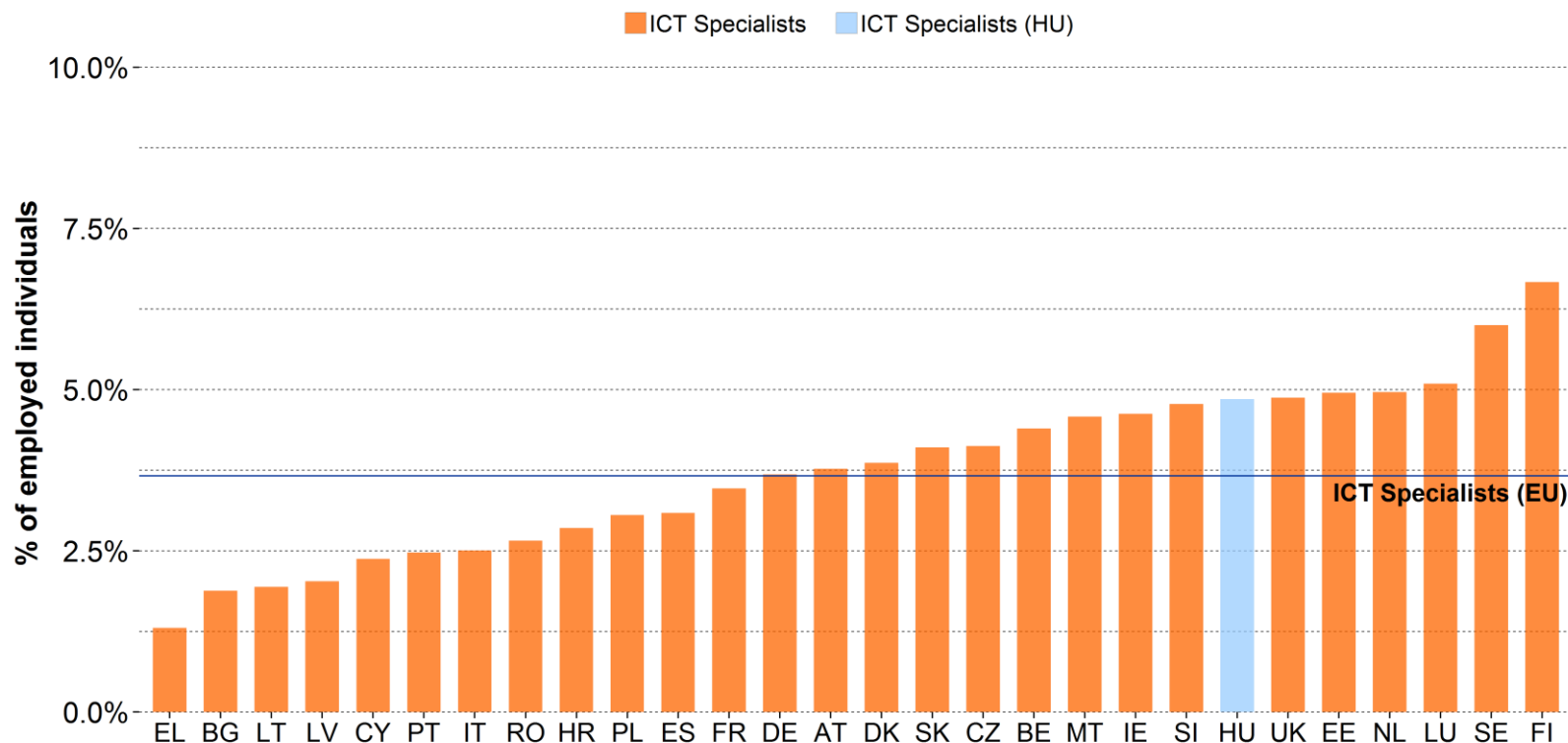
■ Above basic digital skills ■ Basic digital skills ■ Low or no digital skills, or do not use the internet



% of individuals

In Hungary ICT Specialists account for 4.9% of the workforce (3.7% in the EU).

ICT Specialists in the workforce (2014)

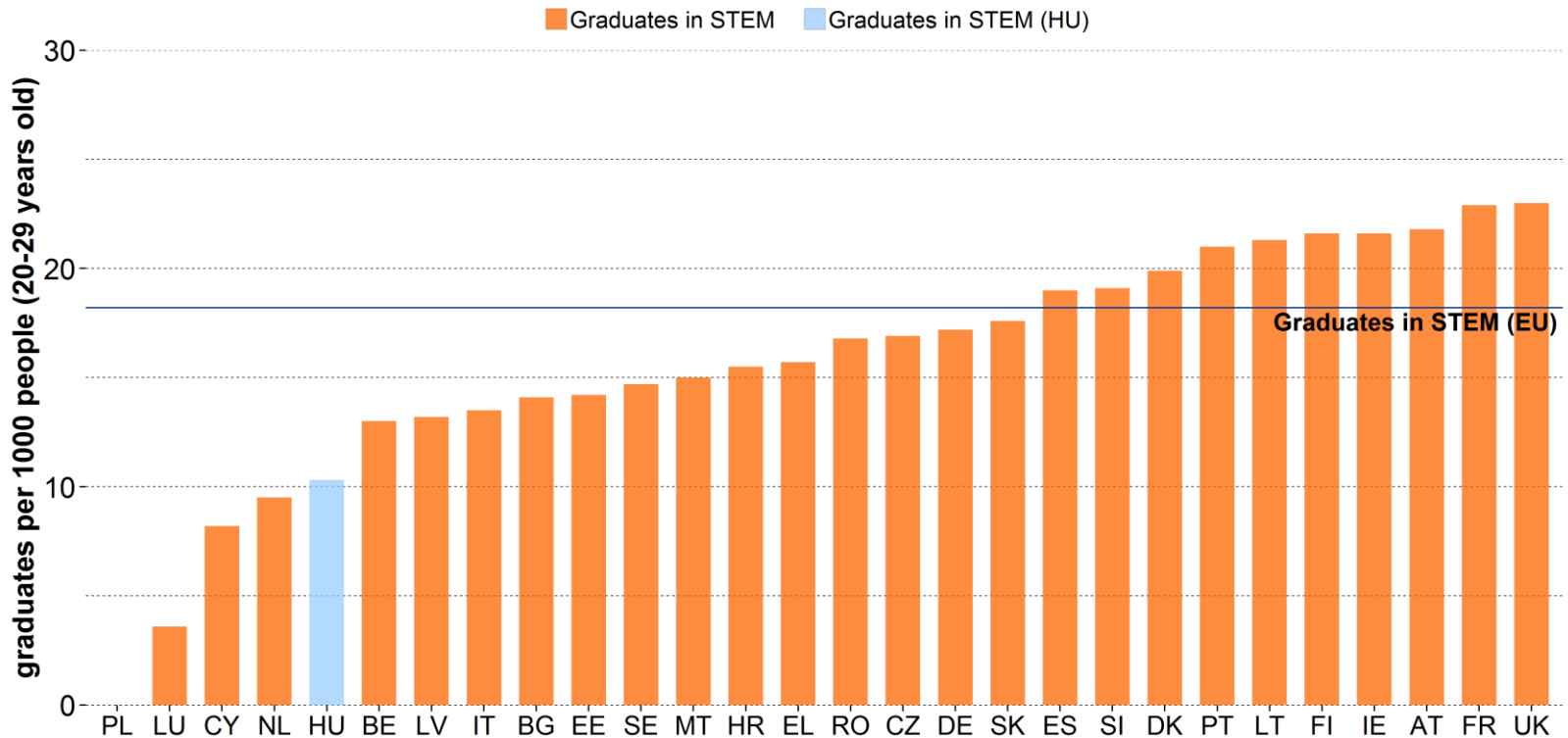


Human Capital: Graduates in STEM (Science, Technology and Mathematics)

European
Commission

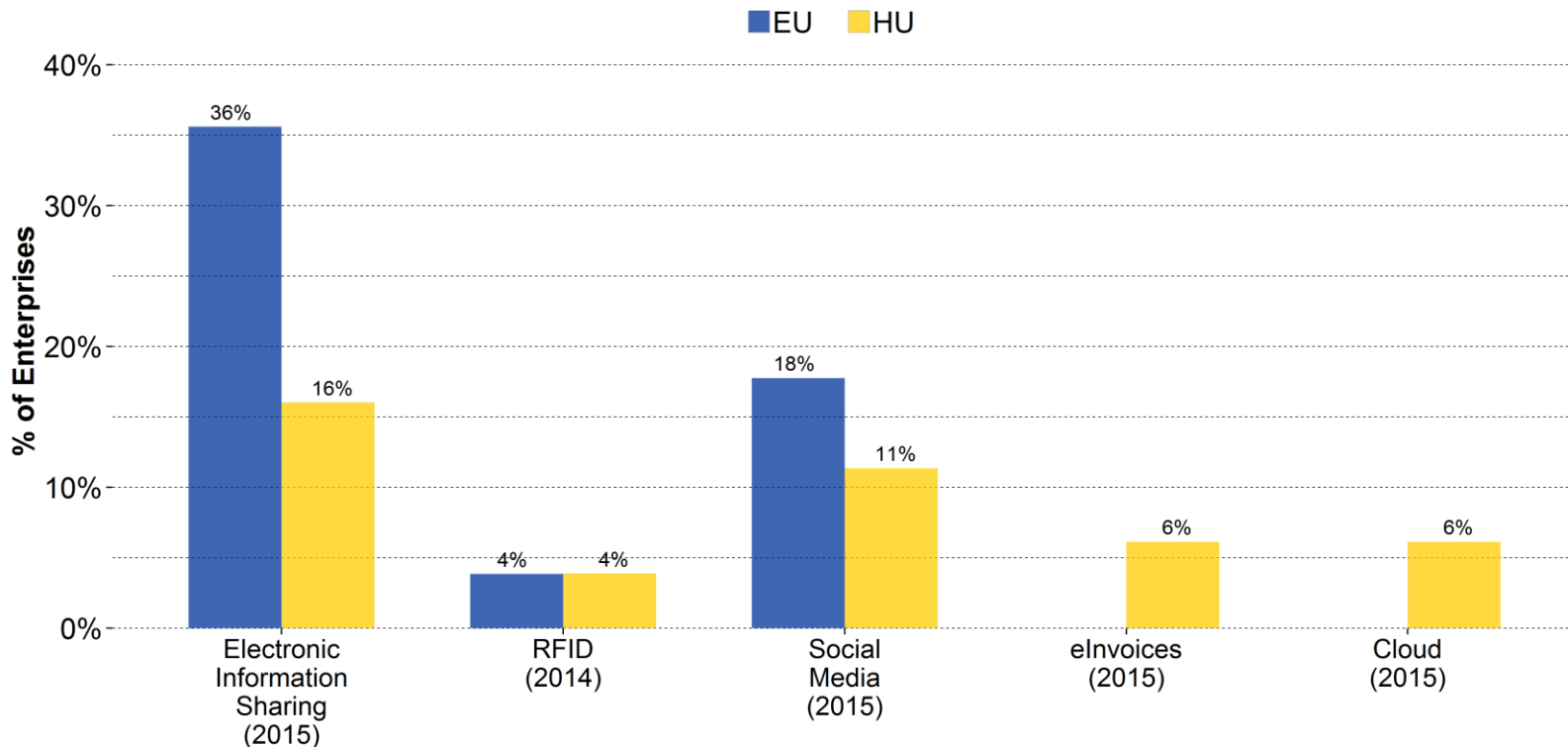
Hungary has 10 graduates in STEM per each 1000 people aged 20-29 years old (18 in the EU).

Graduates in Science, Technology and Mathematics (2013)



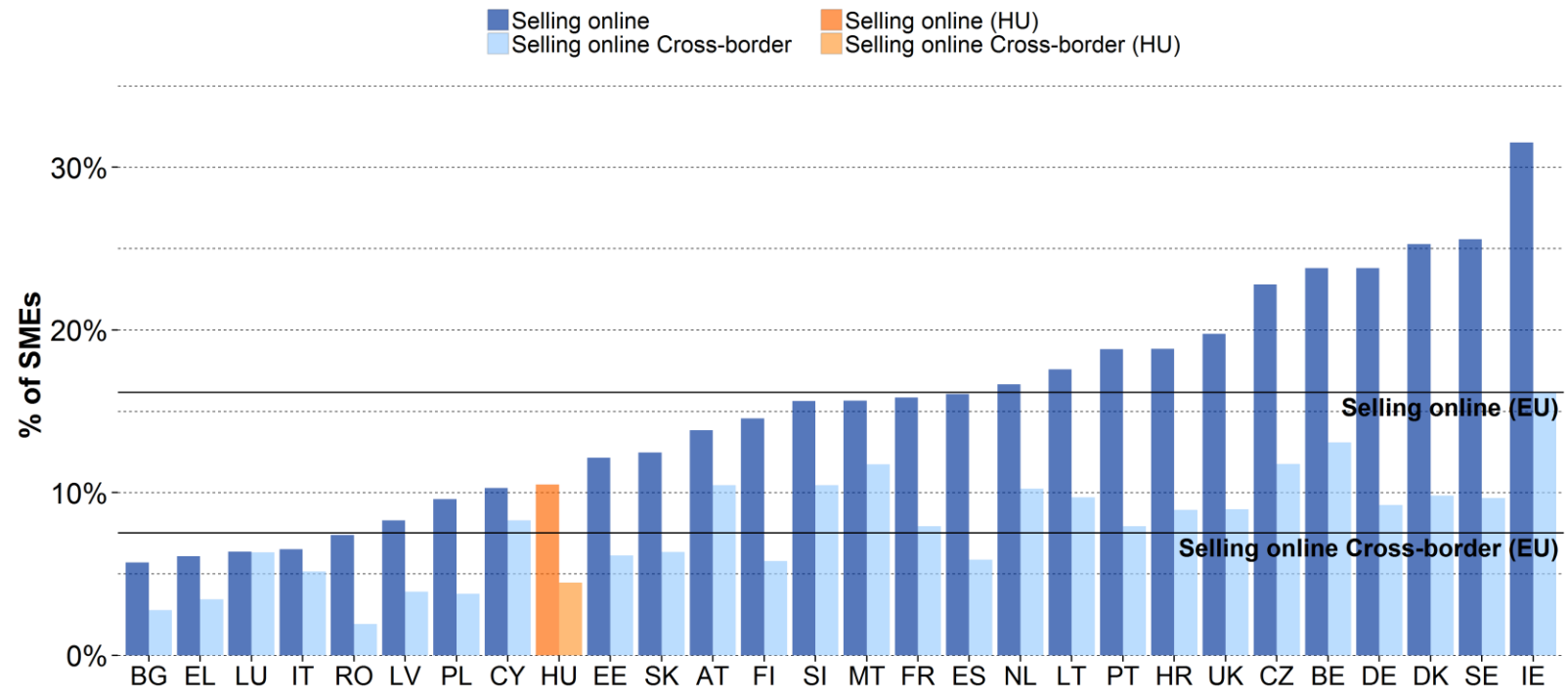
Businesses in Hungary are adopting different digital technologies to enhance productivity, such as sharing internal information electronically or using RFID, eInvoicing, Social Media and Cloud.

Adoption of Digital Technology by Businesses



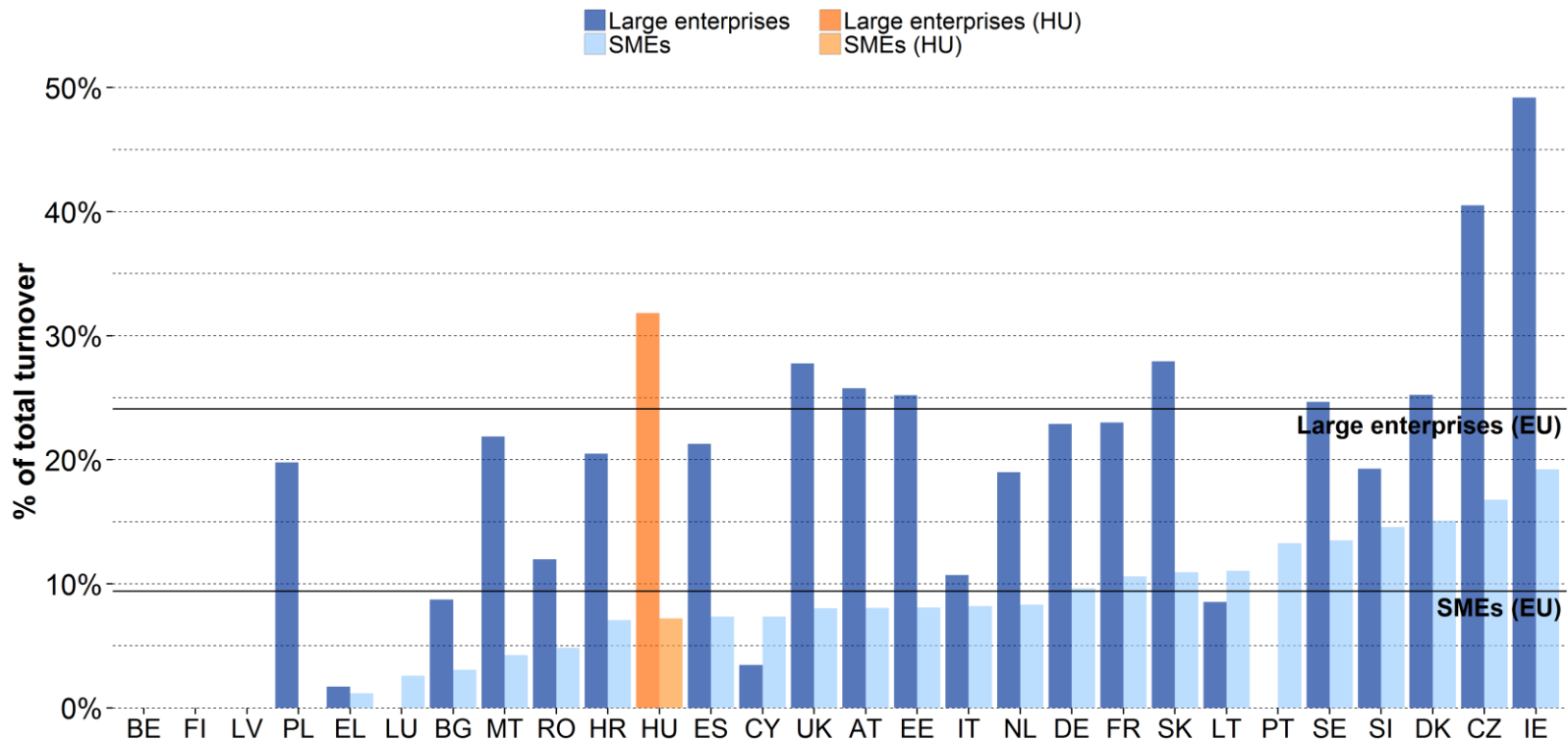
**In Hungary 10% of SMEs sell online (16% in the EU).
4.5% of Hungarian SMEs sell online to other EU countries (7.5% in the EU).**

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



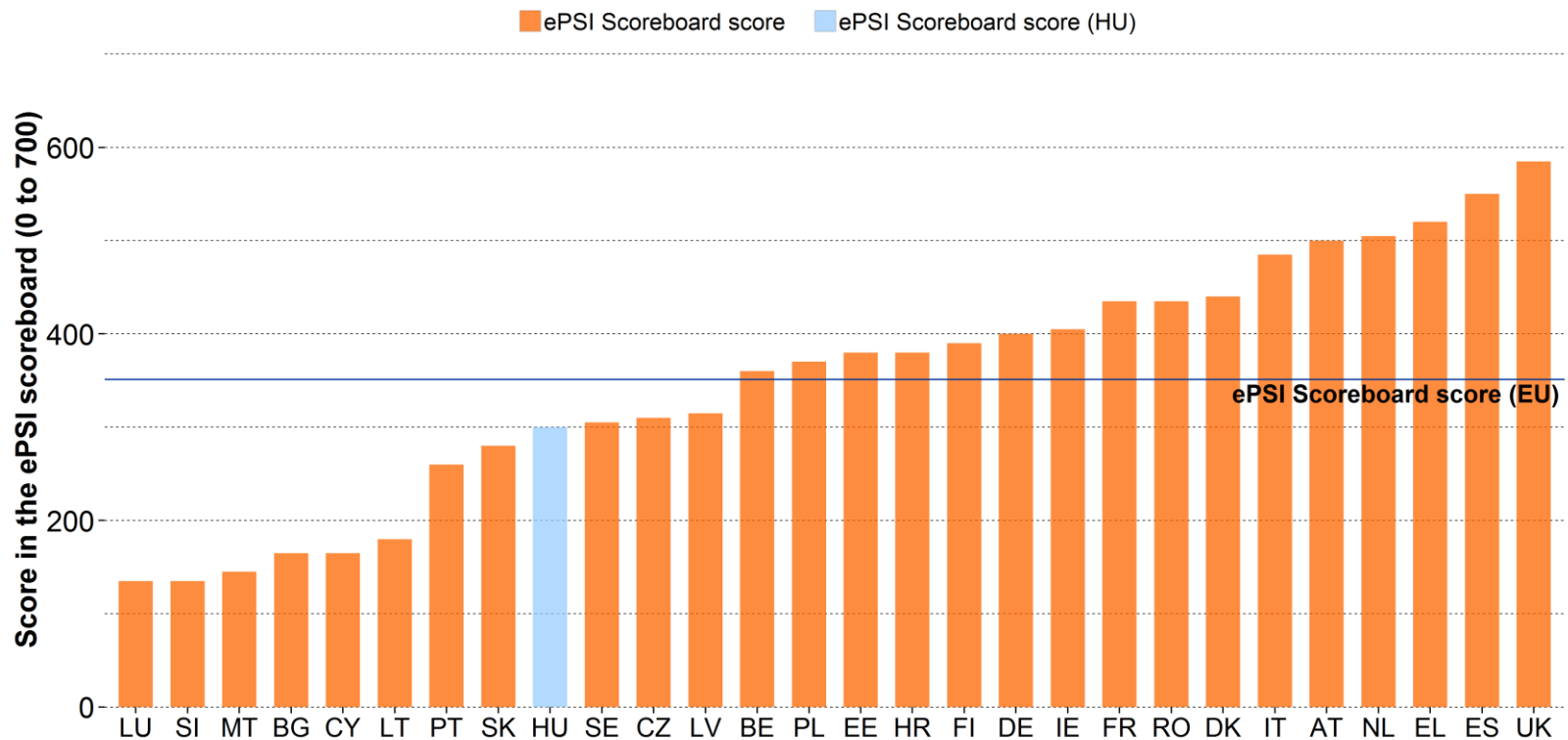
**SMEs in Hungary obtain on average 7.2% of their turnover from eCommerce (9.4% in the EU).
Large enterprises derive on average 32% of their turnover from eCommerce (24% in the EU).**

Turnover from eCommerce (2015)



Hungary scores 300 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)

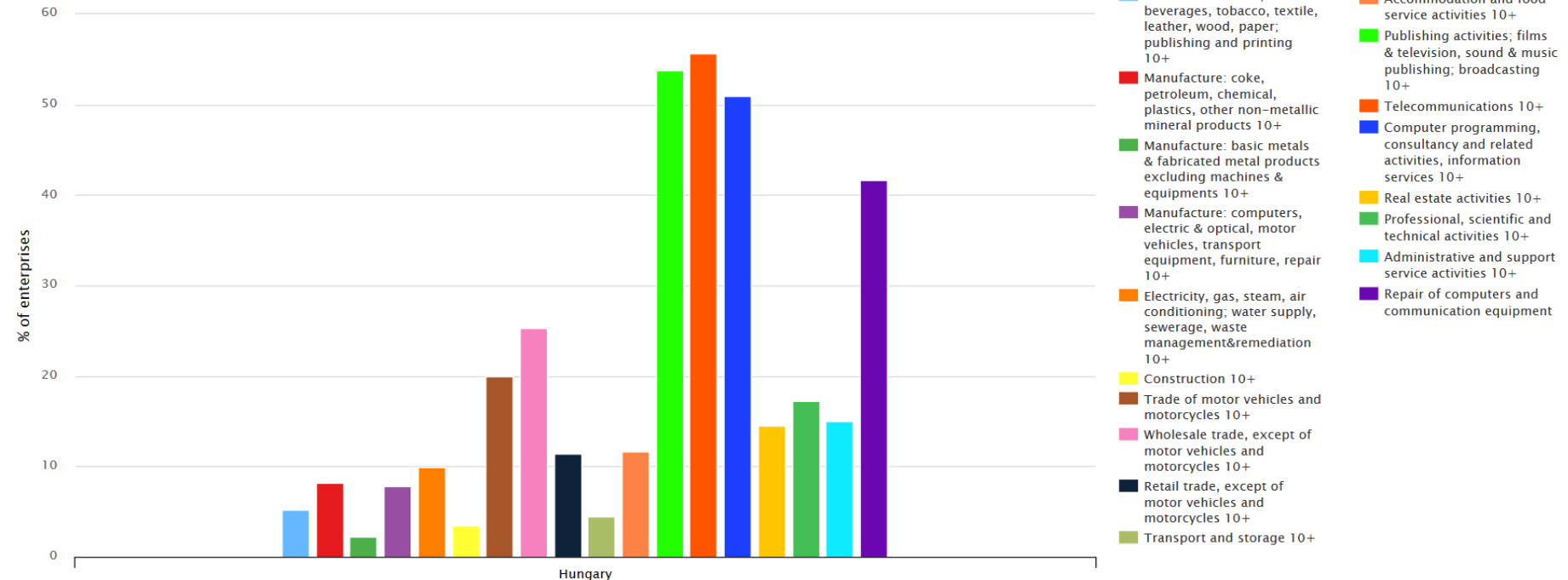


Enterprises with high level of Digital Intensity by economic sectors in Hungary

European Commission

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
- 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+
- Trade of motor vehicles and motorcycles 10+
- Administrative and support service activities 10+
- Wholesale trade, except of motor vehicles and motorcycles 10+
- Professional, scientific and technical activities 10+

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

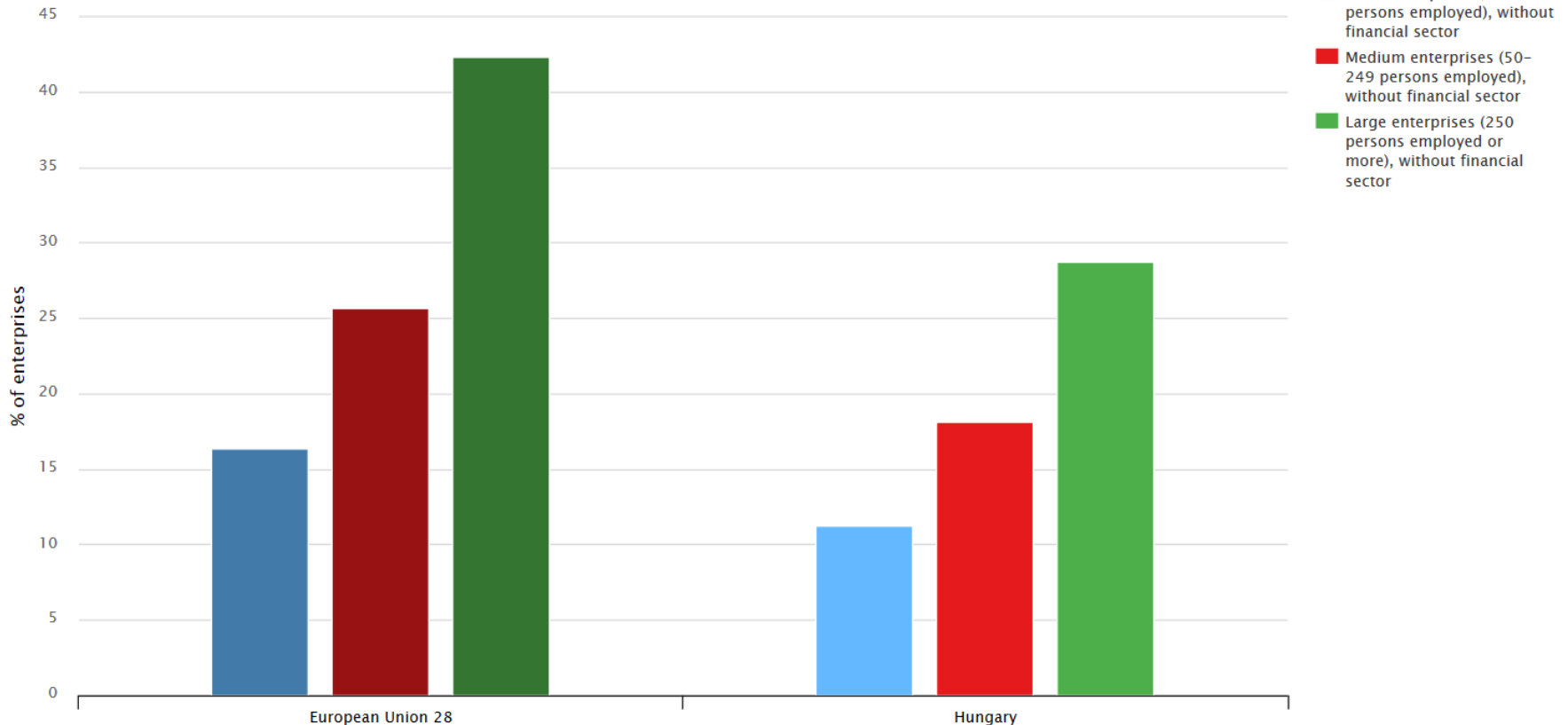
- Publishing activities; films & television, sound & music publishing; broadcasting 10+
- Telecommunications 10+
- Computer programming, consultancy and related activities, information services 10+
- Repair of computers and communication equipment

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

Digital Innovation Hubs Catalogue

The Hungary case

European
Commission



SMART SPECIALISATION PLATFORM



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

Home S3 Platform Sections Tools News Events Knowledge Repository

Search

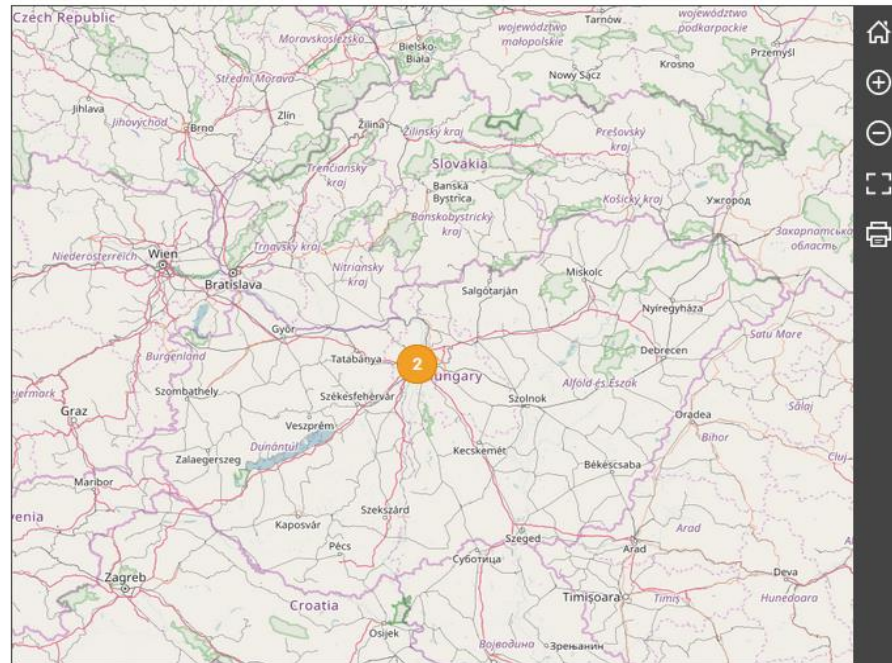
The version available presents:

- 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
EIT Digital Budapest Node	Pázmány Péter sétány 1/c, 1117, Budapest	Hungary	Zsuzsa Várhalmi	+36 20 582 4304	✉	🌐
Industry 4.0 National Technology Platform	Kende u. 13-17, 1111, Budapest	Hungary	Tamás Várgéző	+36 1 279 6110	✉	🌐

Search

HUNGARY

Technical Competences

None selected

Services Provided

None selected

Focus on TRL

None selected

Market sectors

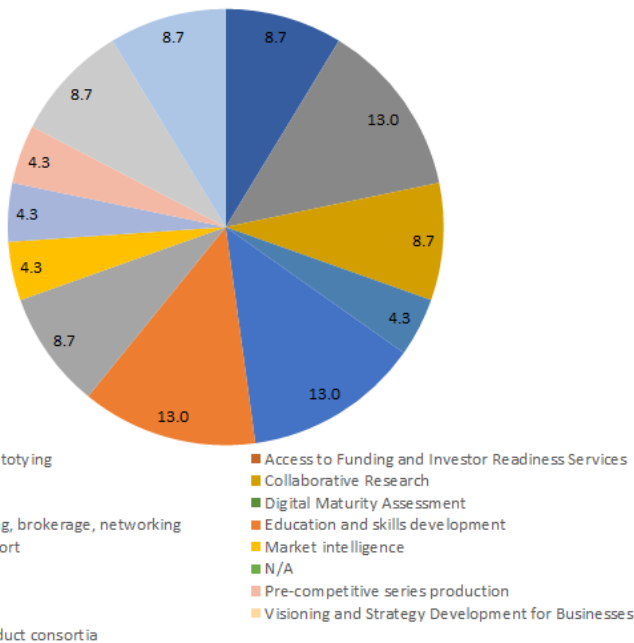
None selected

Select all

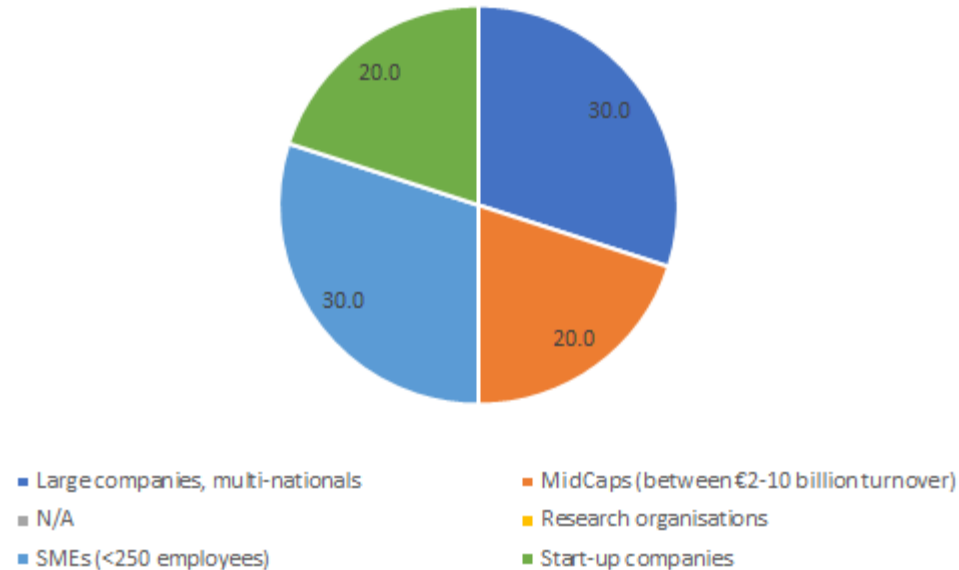
- Agriculture, hunting and forestry
- Fishing
- Mining and quarrying
- Electricity, gas and water supply
- Construction
- Wholesale and retail trade
- Hotels and restaurants
- Transport, storage and communication
- Financial intermediation
- Real estate, renting and business activities
- Public administration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

Services provided and types of customers supported by DIHs in Hungary - 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>



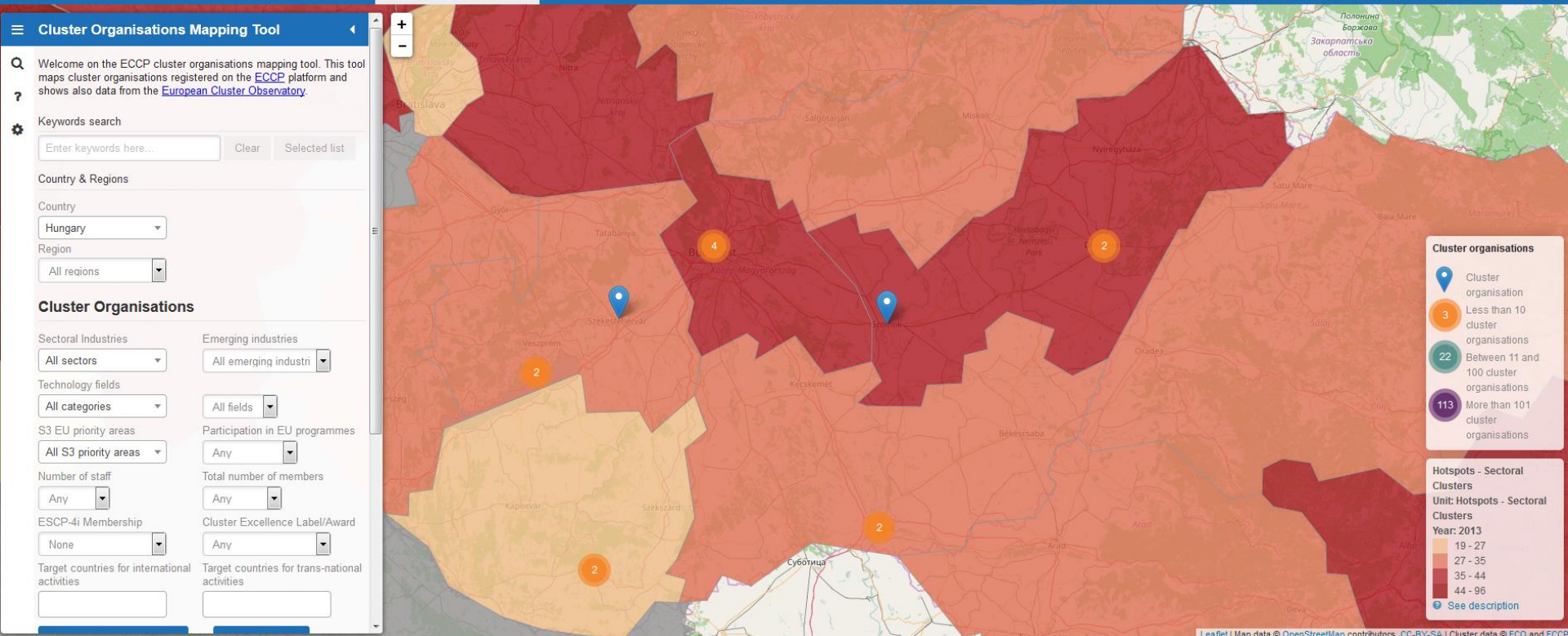
Competence centers/DIHs funded by EU projects in Hungary in H2020

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-01-2014	EuroCPS	36	31/01/2018	BUDAPESTI MUSZAKI ES GAZDASAGTUDOMANYI EGYETEM	PARTICIPANT	BME	PUBLIC	Yes
ICT-04-2017	TETRAMAX	48	31/08/2021	BUDAPESTI MUSZAKI ES GAZDASAGTUDOMANYI EGYETEM	PARTICIPANT	BME	PUBLIC	Yes
ICT-04-2017	Smart4Europe	24	31/08/2019	BUDAPESTI MUSZAKI ES GAZDASAGTUDOMANYI EGYETEM	PARTICIPANT	BME	PUBLIC	Yes
ICT-04-2017	FED4SAE	36	31/08/2020	BUDAPESTI MUSZAKI ES GAZDASAGTUDOMANYI EGYETEM	PARTICIPANT	BME	PUBLIC	Yes
FOF-12-2017	L4MS	42	31/10/2018	PANNON GAZDASAGI HALOZAT EGYESULET	PARTICIPANT	PBN	PRIVATE	No
FOF-12-2017	CloudiFacturing	42		Bakony Elektronika Kft.	PARTICIPANT	BE	PRIVATE	No
FOF-12-2017	CloudiFacturing	42		INNOMINE GROUP KFT	PARTICIPANT	INNOMINE	PRIVATE	No
FOF-12-2017	CloudiFacturing	42		DSS Consulting Informatikai és Tanácsadó Kft.	PARTICIPANT	DSS	PRIVATE	N/A
FOF-12-2017	CloudiFacturing	42		MAGYAR TUDOMANYOS AKADEMIA SZAMITASTECHNIKAI ES AUTOMATIZALASI KUTATOINTEZET	PARTICIPANT	SZTAKI	PUBLIC	Yes




Competence centers/DIHs funded by EU projects in Hungary 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
608886	CloudSME	33	01-Jul-2013	31-Mar-2016	29	MTA SZTAKI	MAGYAR TUDOMANYOS AKADEMIA SZAMITASTECHNIKAI ES AUTOMATIZALASI KUTATOINTEZET	Participant	REC
632860	I3H	30	01-Jul-2014	31-Dec-2016	9	EOTVOS LORAND UNIVERSITY	EOTVOS LORAND TUDOMANYEGYETEM	Participant	HES



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


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)**.

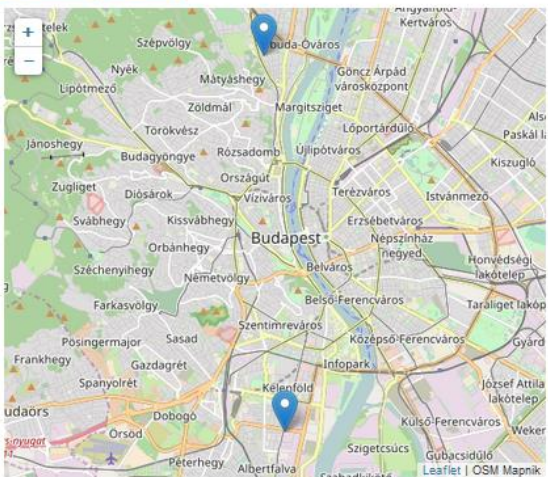
The Technology centres are selected according to [criteria](#) demonstrating their capacity to collaborate with **SMEs** on close-to-market research and innovation (Technology Readiness Levels 3 to 8, not necessarily the whole range).

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

eit Digital Co-Location Centre in Budapest



About us

Overview

Action Lines

Locations

[Brussels Head Office](#)

[Berlin Node](#)

[Budapest Node](#)

[Visit](#)

[Eindhoven Node](#)

[Helsinki Node](#)

[Madrid Node](#)

[London Node](#)

[Paris Node](#)

Budapest Node

The EIT Digital Budapest Node is a consortium of two local universities - namely, [Eötvös Loránd University \(ELTE\)](#) and [Budapest University of Technology and Economics \(BME\)](#) - and their leading industrial partners (consortial partners: [Ericsson Hungary](#), [Magyar Telekom](#), [OTP](#), [MTA-SZTAKI](#), [E-Group](#), [evopro](#)); and cooperating partner is Cisco Systems Hungary.

The group is supported by ELTE-Soft Nonprofit Ltd.

A unique feature of the EIT Digital Budapest Node is that it builds on the innovative potential of the dynamically developing Hungarian SMEs and startups. To help them maximize their potential, it has recently created a platform of Hungarian SMEs and reinforced its innovation management and business accelerator activities.

The EIT Digital Hungary is the only partner of the pan-European organisation which is located in the Central and Eastern European region.



<https://www.eitdigital.eu/about-us/locations/budapest-node/>

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

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
686116	OptiNanoPro	Processing and control of novel nanomaterials in packaging, automotive and solar panel processing lines	01/10/2015	30/09/2018	LASER CONSULT MUSZAKI- TUDOMANYOS ES GAZDASAGI TANACSADO KORLATOLT FELELOSSEGU TARSASAG	LC Innoconsult		
686116	OptiNanoPro	Processing and control of novel nanomaterials in packaging, automotive and solar panel processing lines	01/10/2015	30/09/2018	PEMU MUANYAGIPARI ZARTKORUEN MUKODORESZVENYTA RSASAG	PEMU	Packaging, Automotive, Photovoltaics	for validation and demonstration work during the project

Planned investments, allocated resources, in Hungary, 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: Hungary

View a different country

Finances: Planned

Finances: Implemented

EU Payments

Achievements

Programmes

Hungary, through 9 national programmes, benefits from ESIF funding of EUR 25 billion. This represents an average of 2532 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 Hungary 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 Hungary.

Total EU National

Country Budget for 2014-2020:

€29 646 675 436

FINANCES: PLANNED

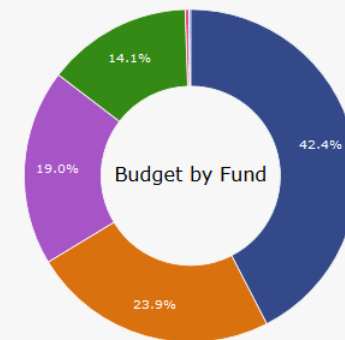
Total

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): Hungary, EUR

Explore and Share this Data



CF YEI ESF ERDF EAFRD EMFF

Refresh Date: 21/8/2017