



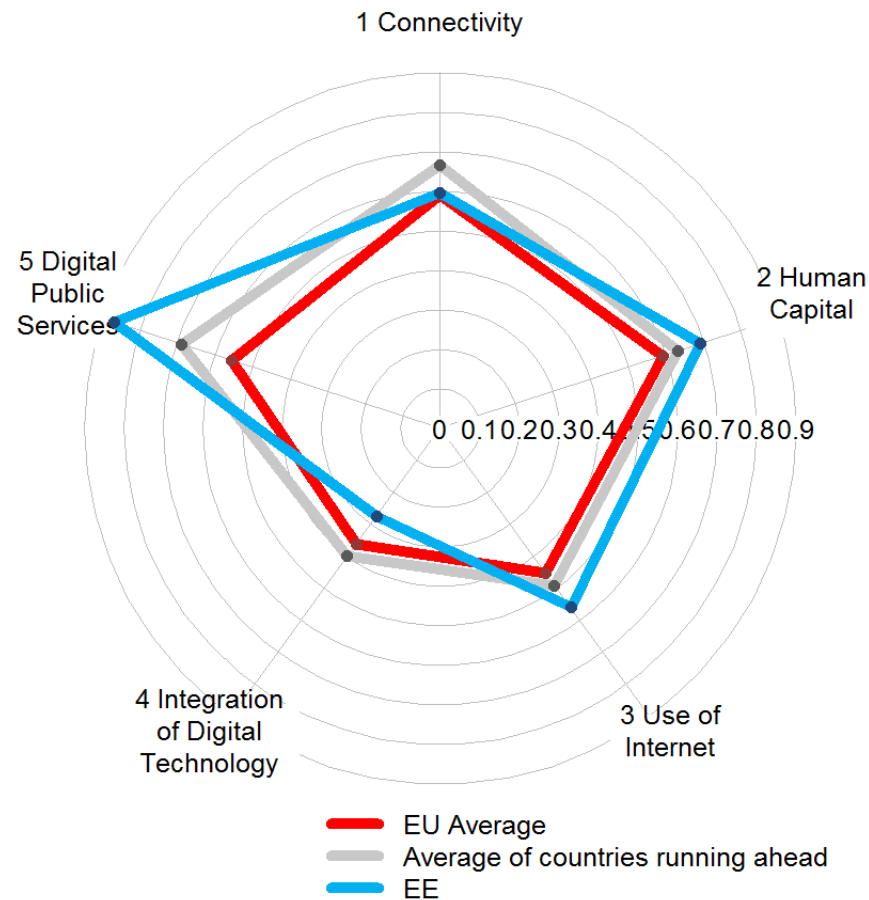
- Estonia's national policy initiative on digitising industry pg 3
- Estonia's performance in the DESI 2016 pg 4-11
- Level of Digital Intensity in Estonian enterprises by sector and size pg 12-13
- Digital Innovation Hubs Catalogue, the Estonia case pg 14
- Services provided and types of customers supported by DIHs in Estonia – Analysis pg 15
- DIHs and Competence centres funded by EU projects in Estonia in FP7 & H2020 pg 16-17
- Clusters and KETs in Estonia pg 18-19
- eit Digital Co-Location Centres pg 20
- Pilot Lines in Nanotechnology and Advanced Materials pg 21
- Planned investments, allocated resources, in Estonia, in relation to European Regional Development Funds in categories relevant for Digital Innovation Hubs pg 22

# Estonia's national policy initiative on digitising industry



**Estonia has not yet developed a national policy initiative on digitising industry**

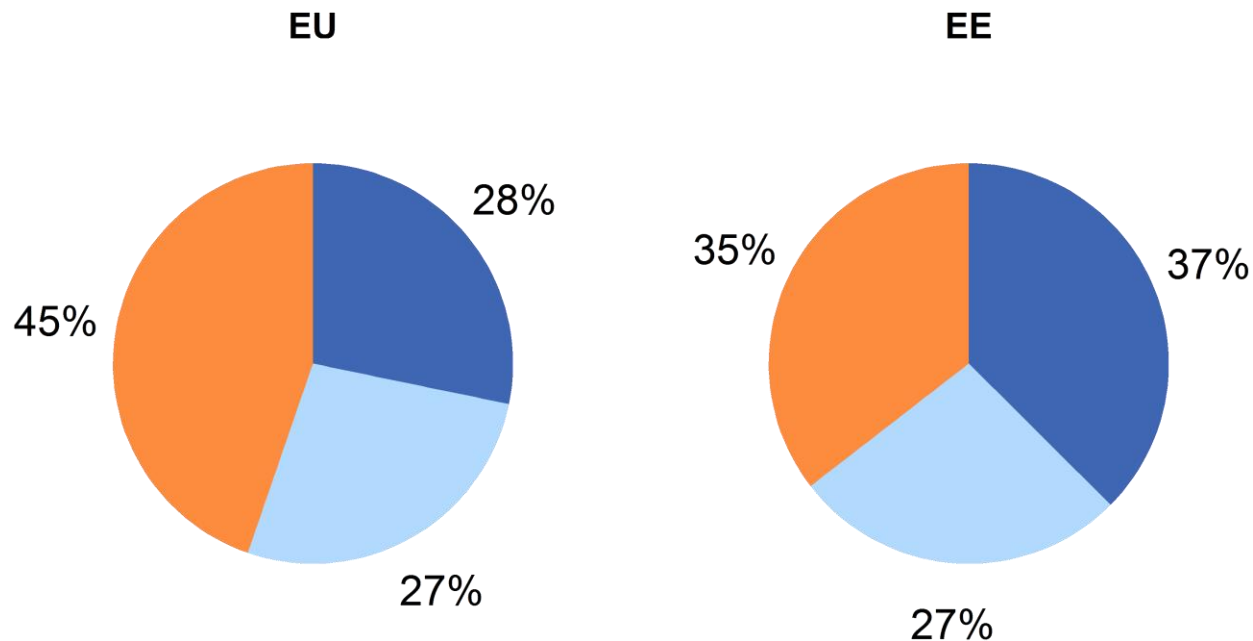
**Estonia ranks 7 among EU countries.**  
**It is part of the group of countries that are running ahead.**



**In Estonia 27% of citizens have basic digital skills (27% in the EU) and 37% have above basic digital skills (28% in the EU).**

## Digital Skills (2015)

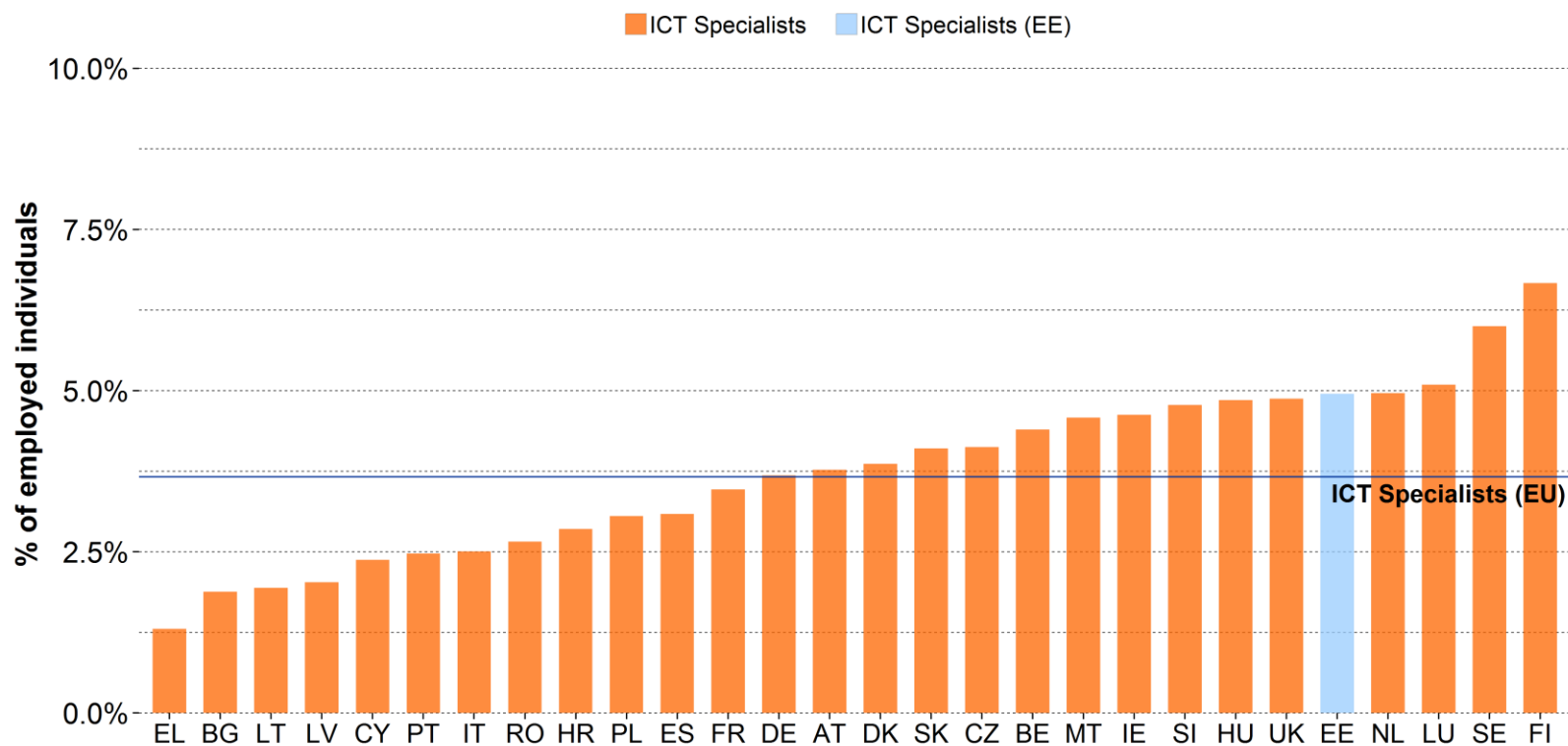
■ Above basic digital skills   ■ Basic digital skills   ■ Low or no digital skills, or do not use the internet



% of individuals

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

### ICT Specialists in the workforce (2014)

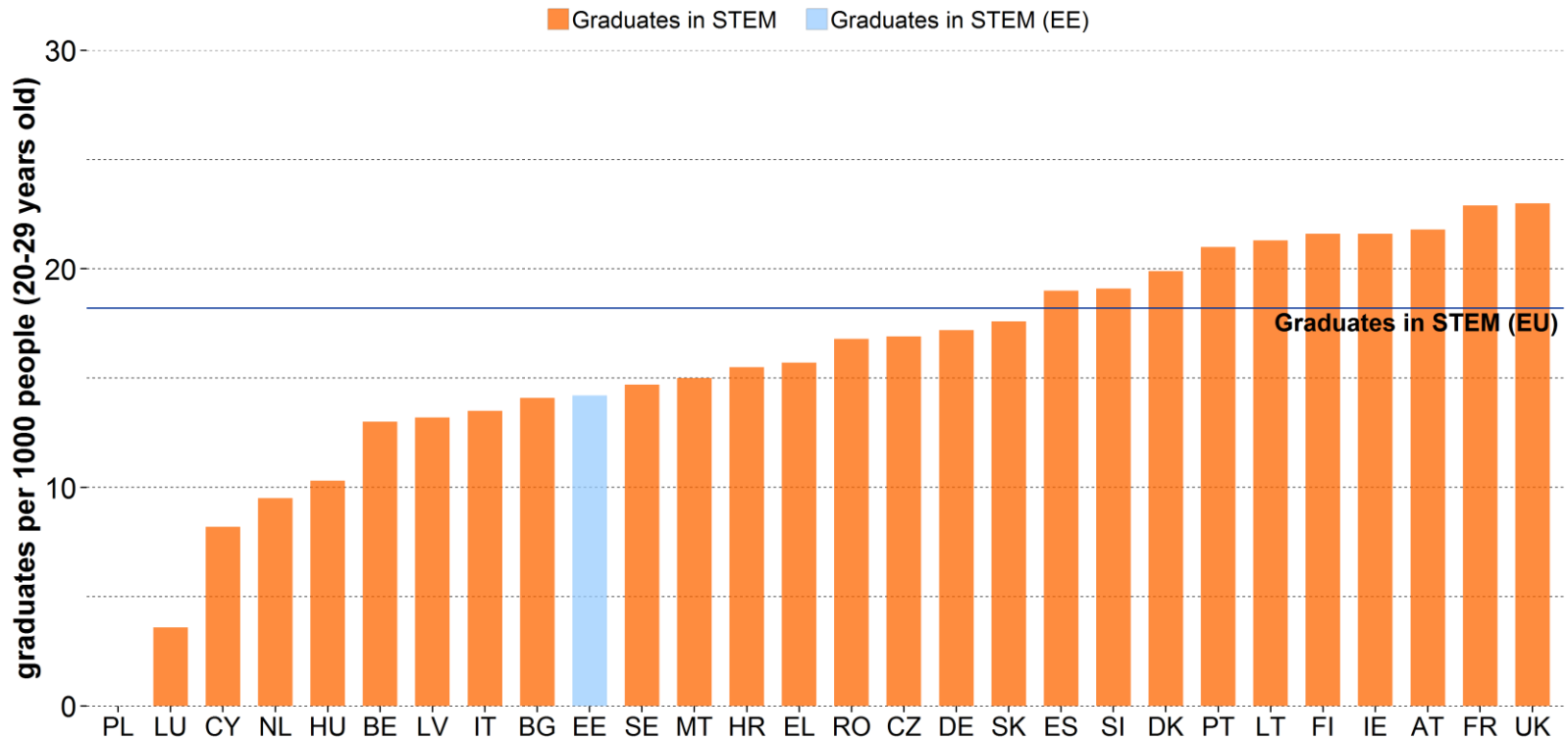


# Human Capital: Graduates in STEM (Science, Technology and Mathematics)

European  
Commission

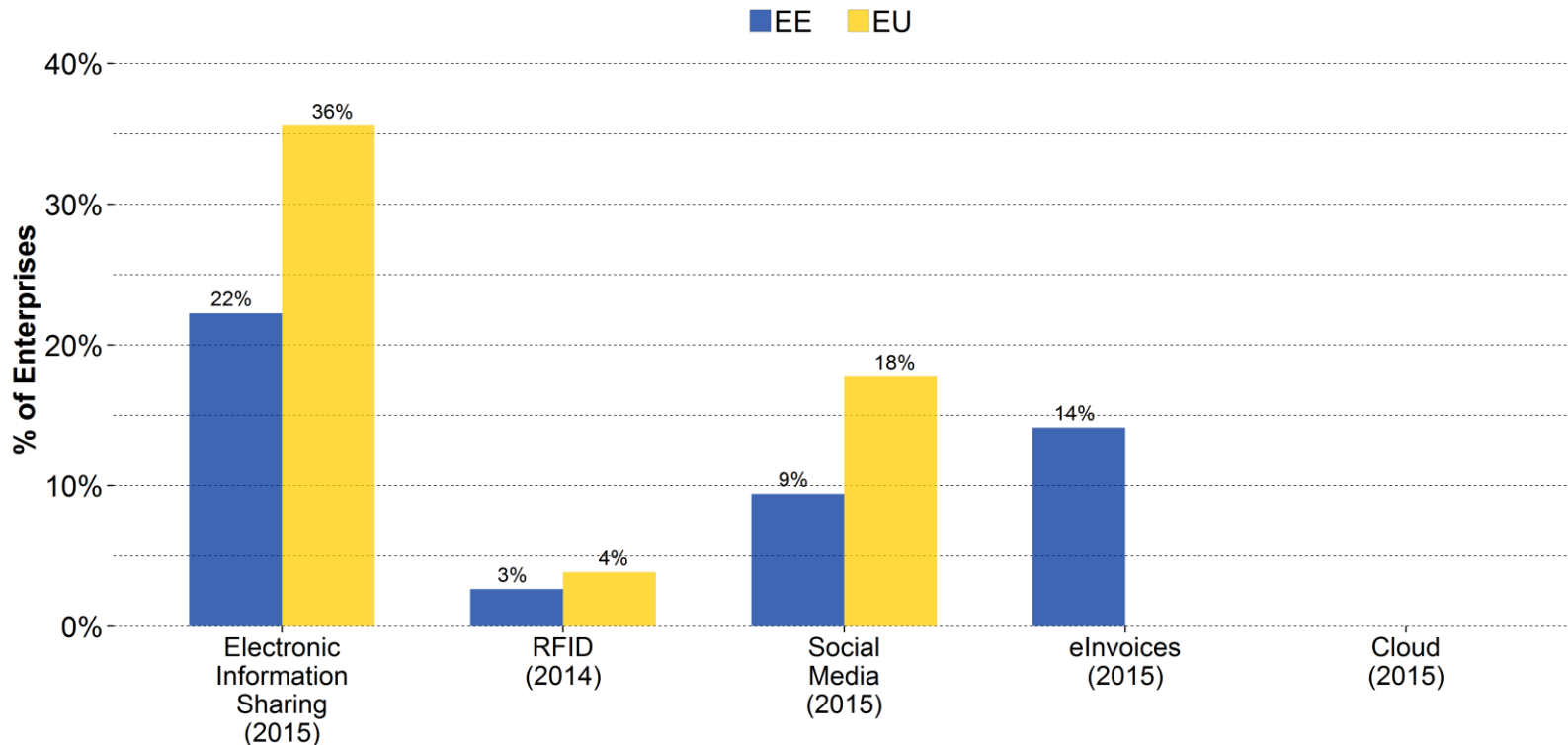
**Estonia has 14 graduates in STEM per each 1000 people aged  
20-29 years old (18 in the EU).**

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



**Businesses in Estonia 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

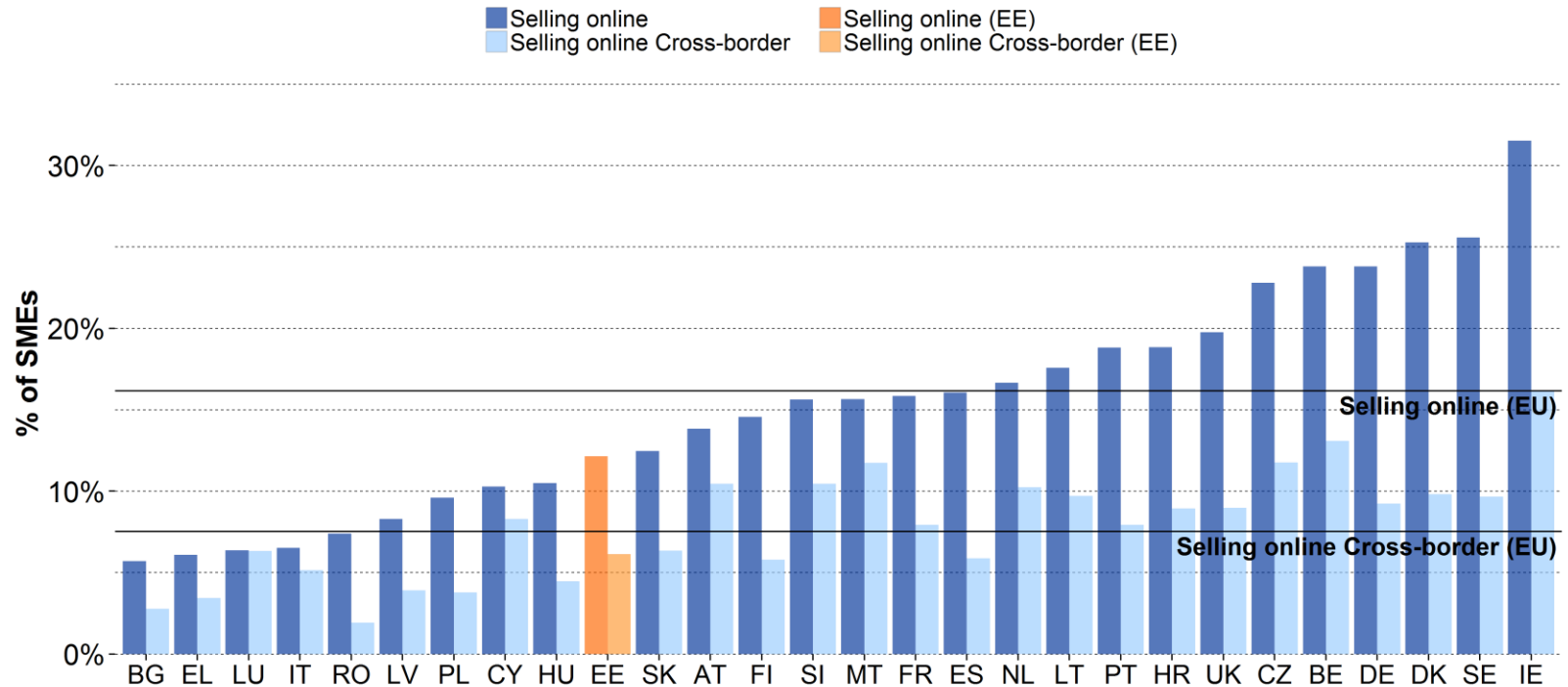




**In Estonia 12% of SMEs sell online (16% in the EU).**

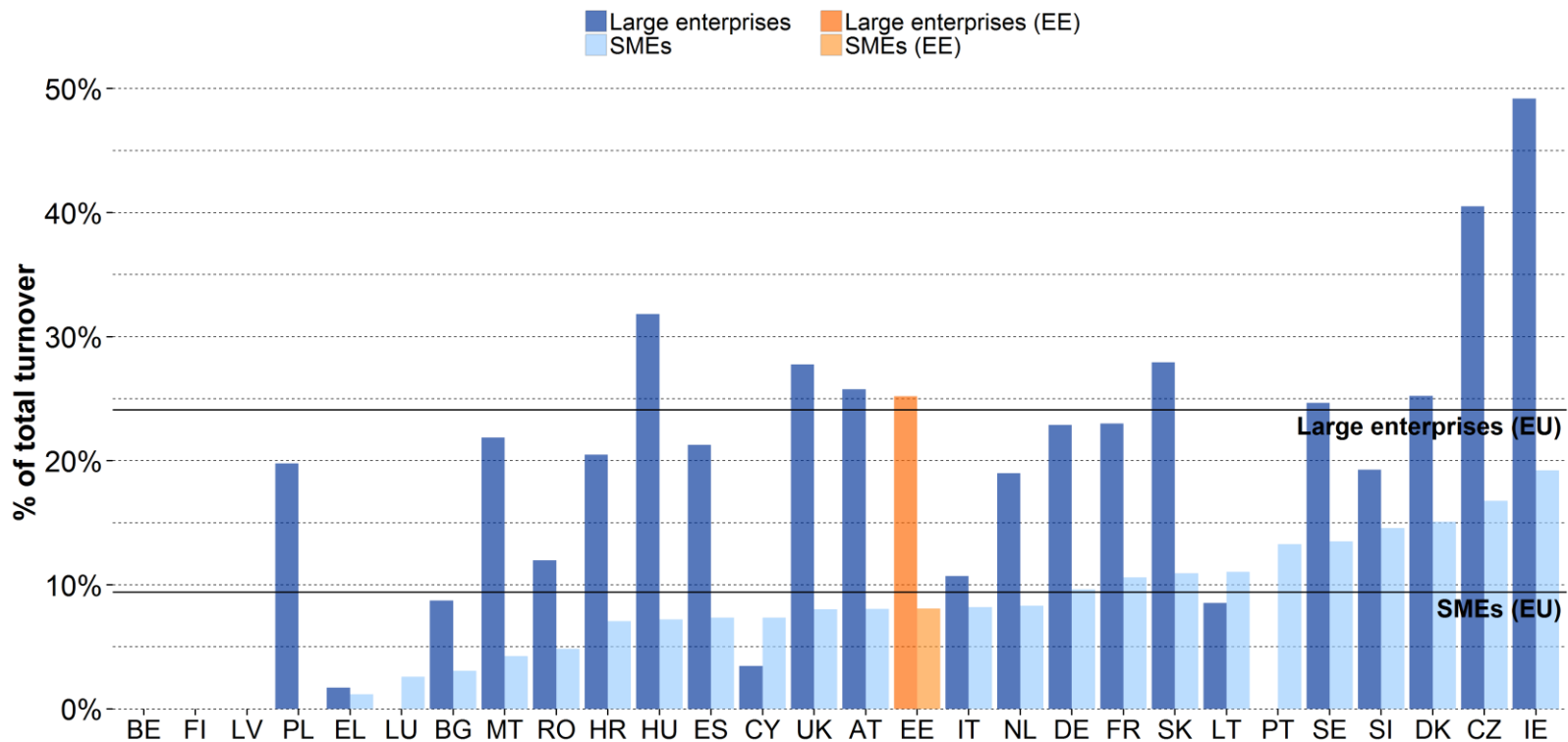
**6.1% of Estonian SMEs sell online to other EU countries (7.5% in the EU).**

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



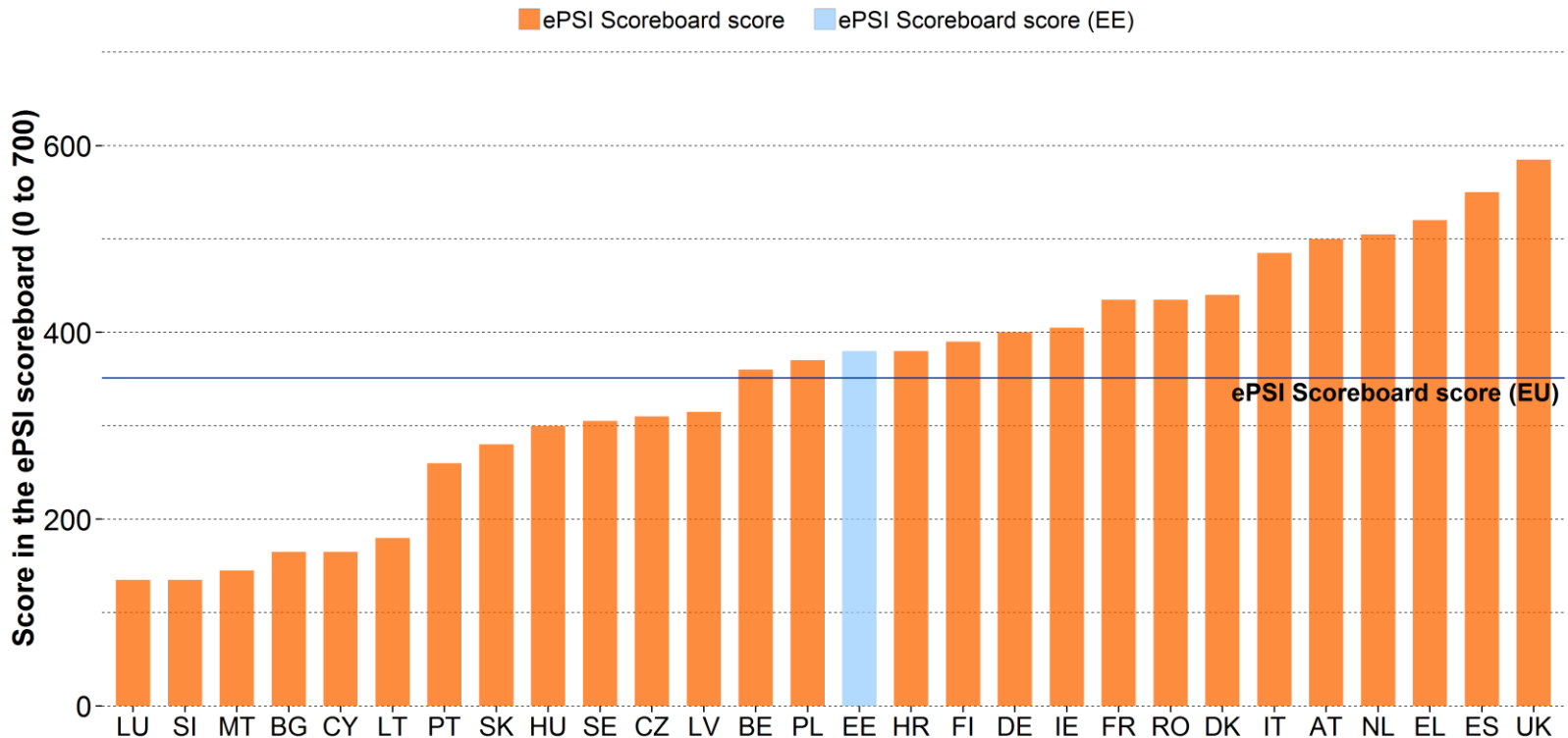
**SMEs in Estonia obtain on average 8.1% of their turnover from eCommerce (9.4% in the EU). Large enterprises derive on average 25% of their turnover from eCommerce (24% in the EU).**

## Turnover from eCommerce (2015)



**Estonia 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.**

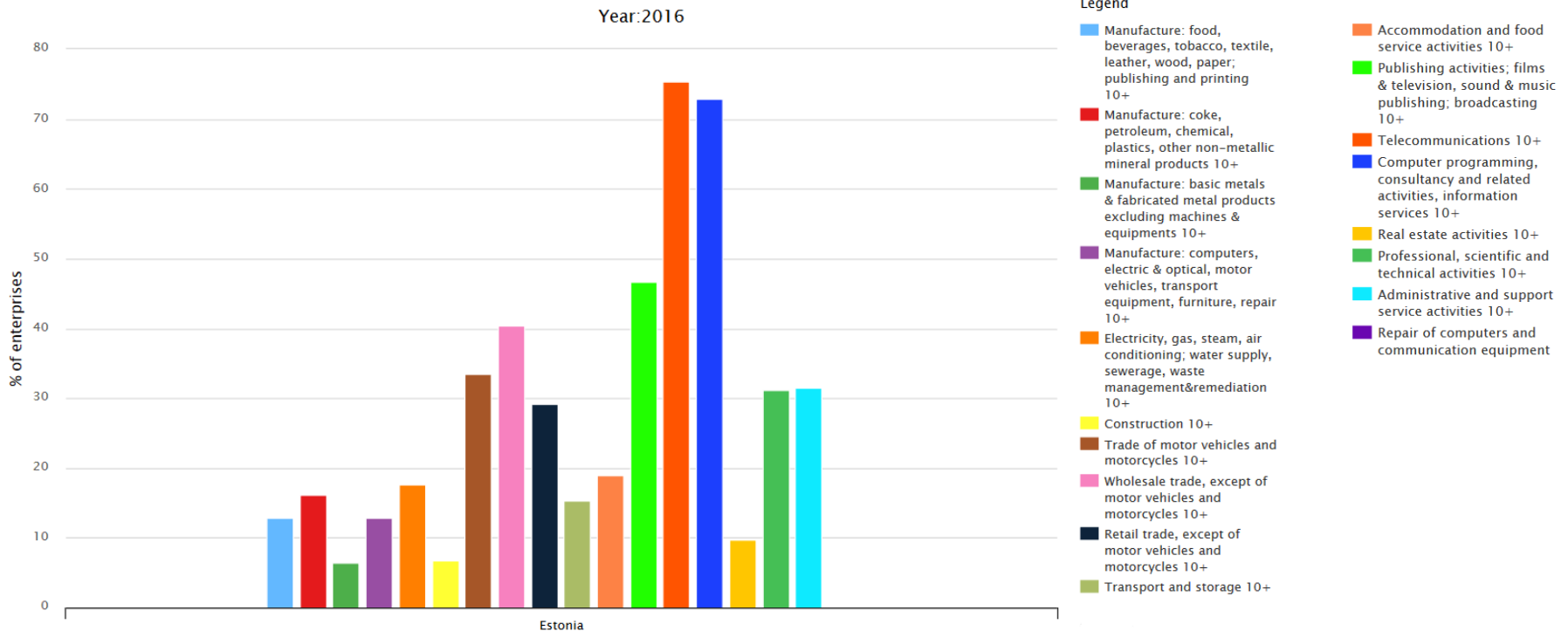
## Open Data (2015)



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

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+
- Accommodation and food service activities 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+
- 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+
- Professional, scientific and technical activities 10+
- Administrative and support service activities 10+

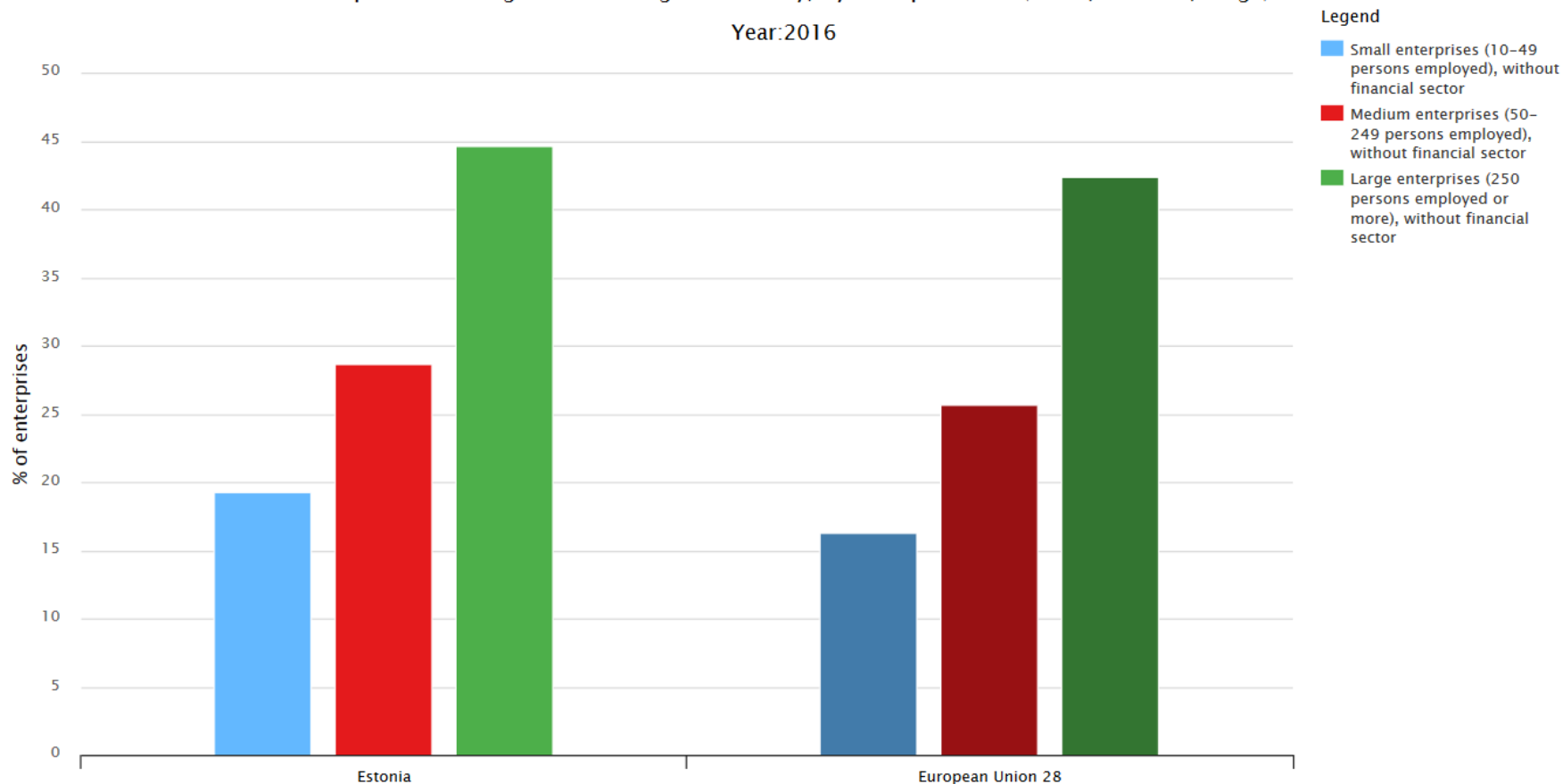
[http://digital-agenda-data.eu/charts/analyse-one-indicator-and-compare-breakdowns#chart={%22indicator-group%22:%22ebusiness%22,%22indicator%22:%22e\\_di\\_hivhi%22,%22breakdown-group%22:%22econsector%22,%22unit-measure%22:%22pc\\_ent%22,%22time-period%22:%222016%22,%22ref-area%22:\[%22EE%22\]}](http://digital-agenda-data.eu/charts/analyse-one-indicator-and-compare-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:[%22EE%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:\[%22EE%22,%22EU28%22\]}](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:[%22EE%22,%22EU28%22]})

# Digital Innovation Hubs Catalogue

## The Estonia case

European  
Commission



SMART SPECIALISATION PLATFORM



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

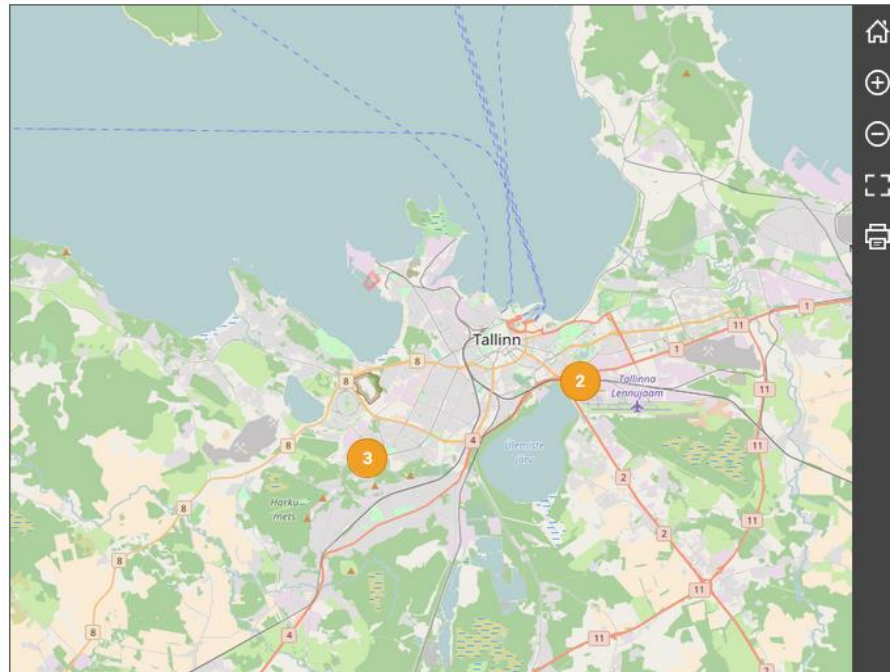
Home S3 Platform Sections Tools News Events Knowledge Repository

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

### Digital Innovation Hubs



Leaflet | © OpenStreetMap contributors | Disclaimer

Export Hubs to csv

Hub Name	Location	Country	Contact	Phone	Email	Website
<a href="#">e-Estonia Showroom</a>	Lõdtsa 2 A, 10140, Tallinn	Estonia	Ms Anna Piperal	+3725045260	<a href="#">✉</a>	<a href="#">🌐</a>
<a href="#">Eliko</a>	Mäealuse 2/1, 12618, Tallinn	Estonia	Indrek Ruiso	+3725088791	<a href="#">✉</a>	<a href="#">🌐</a>
<a href="#">Estonian Association of Information Technology and Telecommunications</a>	Lõdtsa str 6, 11415, Tallinn	Estonia		+372 6177 145	<a href="#">✉</a>	<a href="#">🌐</a>

Search  
ESTONIA

Technical Competences  
None selected

Services Provided  
None selected

Focus on TRL  
None selected

Market sectors  
None selected

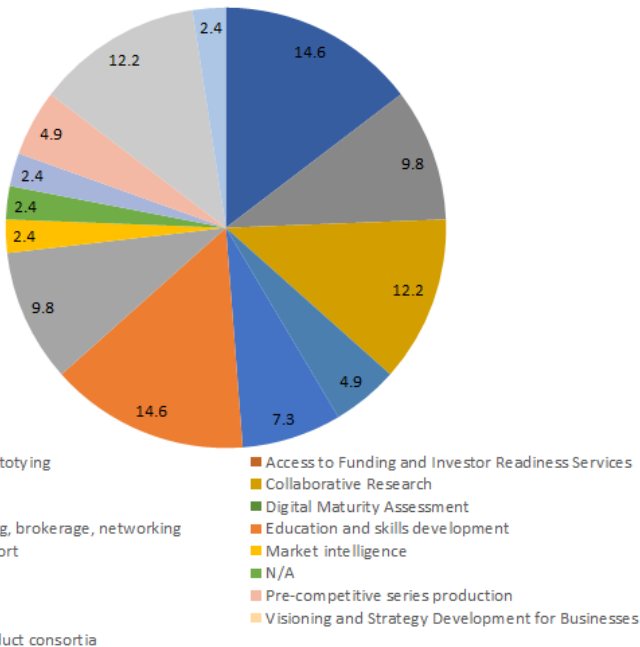
- Select all
- Agriculture, hunting and forestry
- Fishing
- Mining and quarrying
- Electricity, gas and water supply
- Construction
- Wholesale and retail trade
- Hotels and restaurants
- Transport, storage and communication
- Financial intermediation
- Real estate, renting and business activities
-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

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

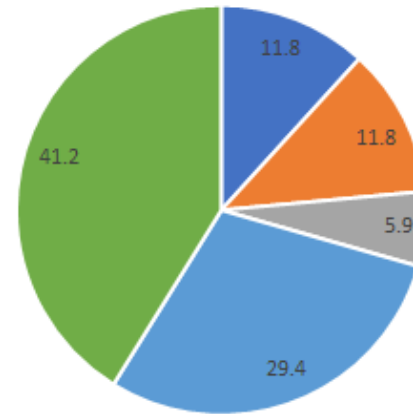
[JRC-B3-DIH@ec.europa.eu](mailto:JRC-B3-DIH@ec.europa.eu)

# Services provided and types of customers supported by DIHs in Estonia - 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 Estonia 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-2017	L4MS	42	31/03/2021	CHEMI-PHARM AS	PARTICIPANT	CHEMI	PRIVATE	No
FOF-2017	L4MS	42	31/03/2021	OU IMECC	PARTICIPANT	IMECC	PRIVATE	No
ICT-04-2017	TETRAMAX	48	31/08/2021	TALLINNA TEHNIKAULIKOOL	PARTICIPANT	TTU	PUBLIC	Yes



# Competence centers/DIHs funded by EU projects in Estonia 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

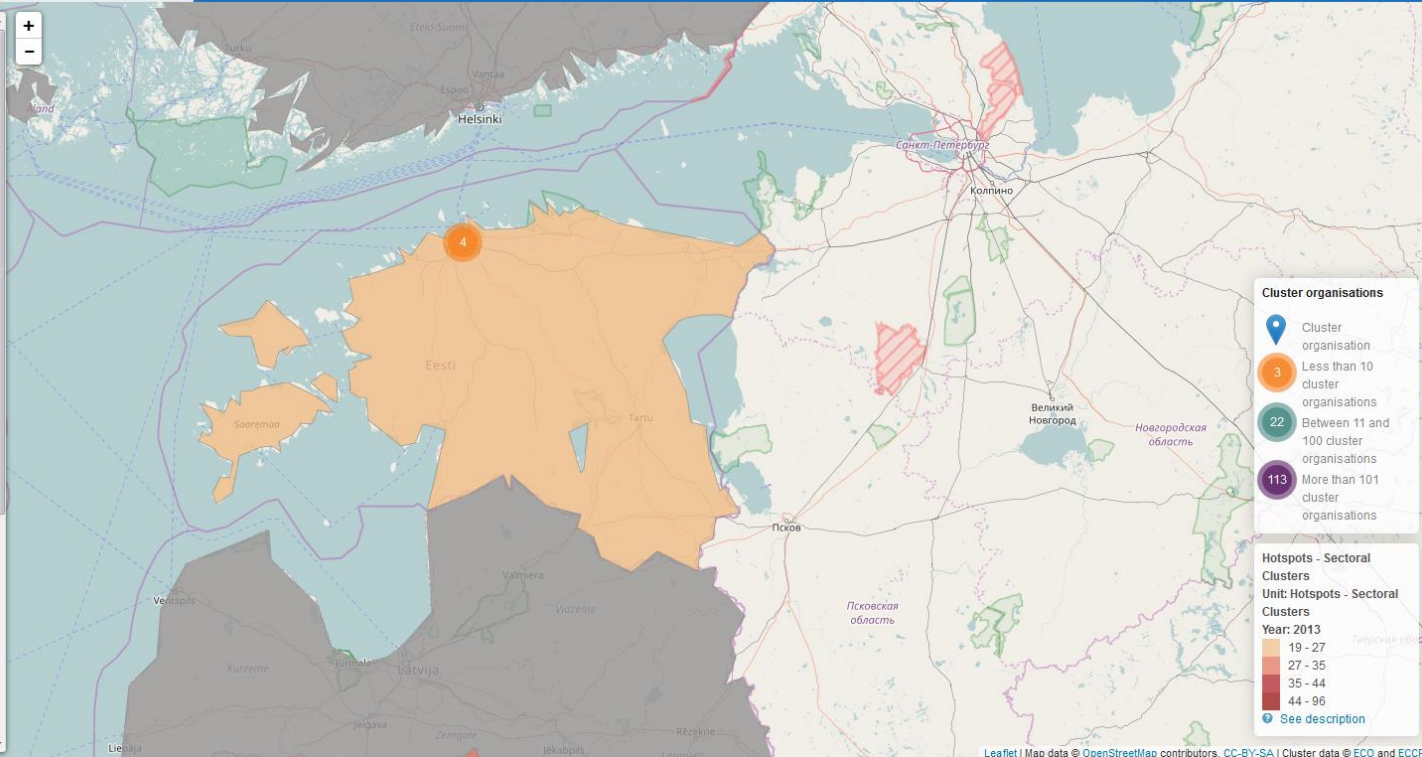
Enter keywords here... Clear Selected list

### Country & Regions

Country  
Estonia  
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 industri  
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=ee](https://www.clustercollaboration.eu/print/cluster-list?combine=&country_code=ee)

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

Map showing Technology Centres (KETs) in Estonia. The map displays several blue location markers on a street map of a university campus. Labels on the map include 'Keemilise ja Bioloogilise Füüsika Instituut', 'Tallinna Tehnikakool', and 'MTÜ TTU Üliõpilaskul'. The map is powered by Leaflet | OSM Mapnik.

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

**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 Estonia**

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

# Planned investments, allocated resources, in Estonia, 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: Estonia

View a different country

Finances: Planned

Finances: Implemented

EU Payments

Achievements

Programmes

Estonia, through 3 national programmes, benefits from ESIF funding of EUR 4.5 billion. This represents an average of 3389 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 Estonia 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 Estonia.

Total EU National

Country Budget for 2014-2020:

€6 003 102 640

FINANCES: PLANNED

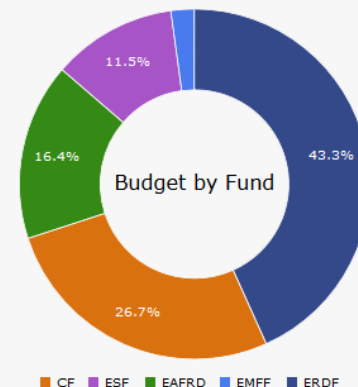
Total

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): Estonia, EUR

Explore and Share this Data



Refresh Date: 21/8/2017

For further information please see [WG1 report](#) & <https://cohesiondata.ec.europa.eu/countries/EE>