

Digital Scoreboard 2016 and other information relevant for decisions about Digital Innovation Hubs

Luxembourg



Accompanied by the WG1 Report on Digital Innovation Hubs:

<https://ec.europa.eu/futurium/en/content/report-wg1-digital-innovation-hubs-mainstreaming-digital-innovation-across-all-sectors-final>

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Luxembourg's national strategy for digitising industry



D4I
Digital for Industry Luxembourg

Digital4Industry (D4I)

- Launched in **June 2016** by **FEDIL** – the Voice of Luxembourg’s Industry, Luxinnovation – the National Agency for Innovation and Research, and the **Ministry of the Economy**.
- **Targets** Luxembourg’s manufacturing industry, SME’s as well as large enterprises.
- Is part of the European Platform for co-ordination of initiatives for digitising industry.

<http://digital4industry.lu/>

Objectives

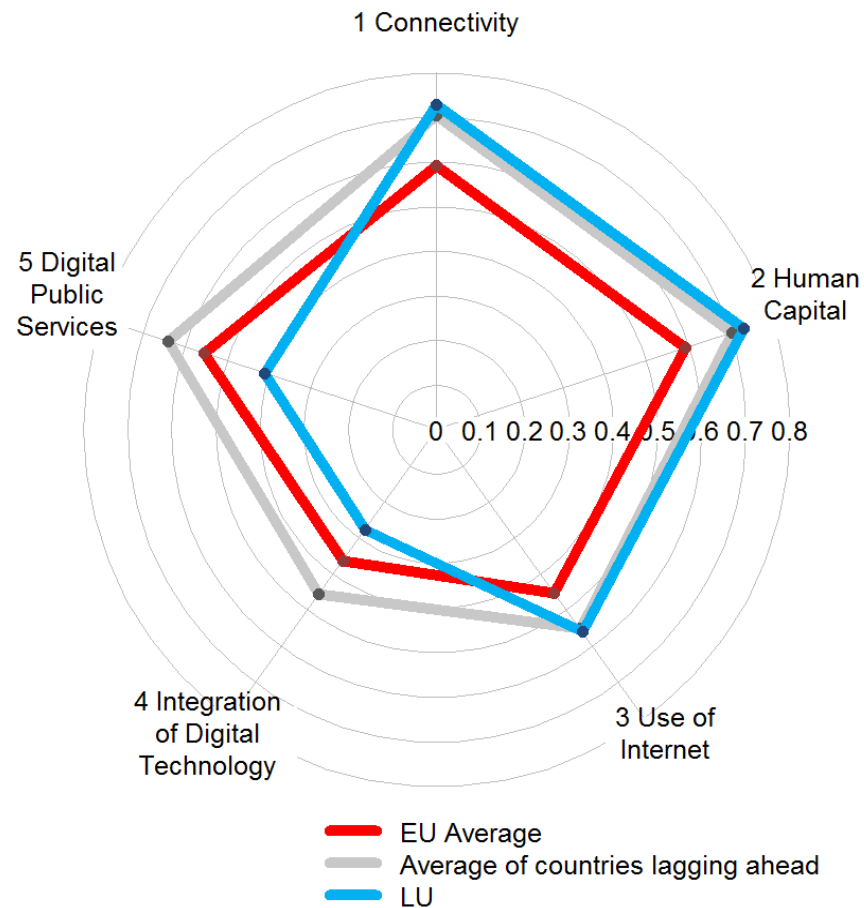
- **Create awareness** and inform about the risks and opportunities related to the implementation as well as the non-implementation of industry 4.0
- Identify **specific concerns** and challenges by the local industry and work on solutions to enable **early adoption of Industry 4.0** concepts
- Initiate **collaborative pilot projects** to showcase value creation by the implementation of practical Industry 4.0 solutions.

Funding

- **Ministry of Economy**: - investment aid (10% for medium enterprises; 20% for small enterprises) for tangible and intangible investments depreciated over 3 years or more
- grants for R&D and innovation according the bottom-up principle with different funding rates depending on firm-size
- National Credit and Investment Company (**SNCI**): - indirect development loans (via authorised local banks) for 5 to 10 years up to 40% of eligible costs
- direct loans for R&I to SMEs up to 40% of eligible costs
- Other sources of funding: **Luxinnovation**, Luxembourg National Research Fund (**FNR**), Luxembourg Future Fund, **Digital Tech Fund**

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>

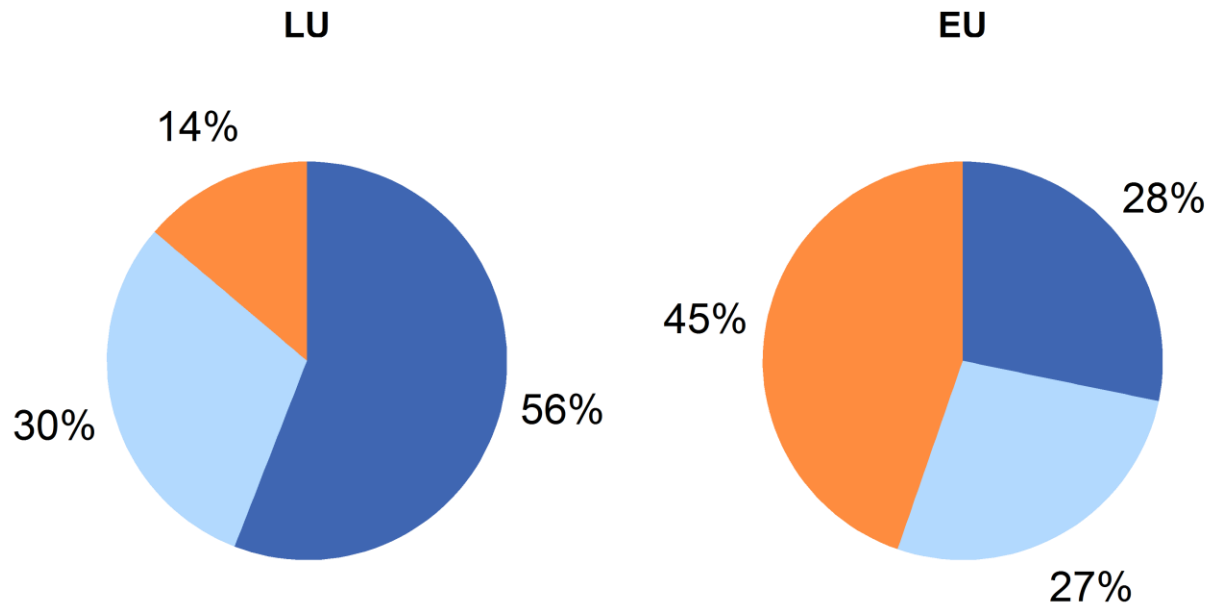
**Luxembourg ranks 10 among EU countries.
It is part of the group of countries that are lagging ahead.**



In Luxembourg 30% of citizens have basic digital skills (27% in the EU) and 56% 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



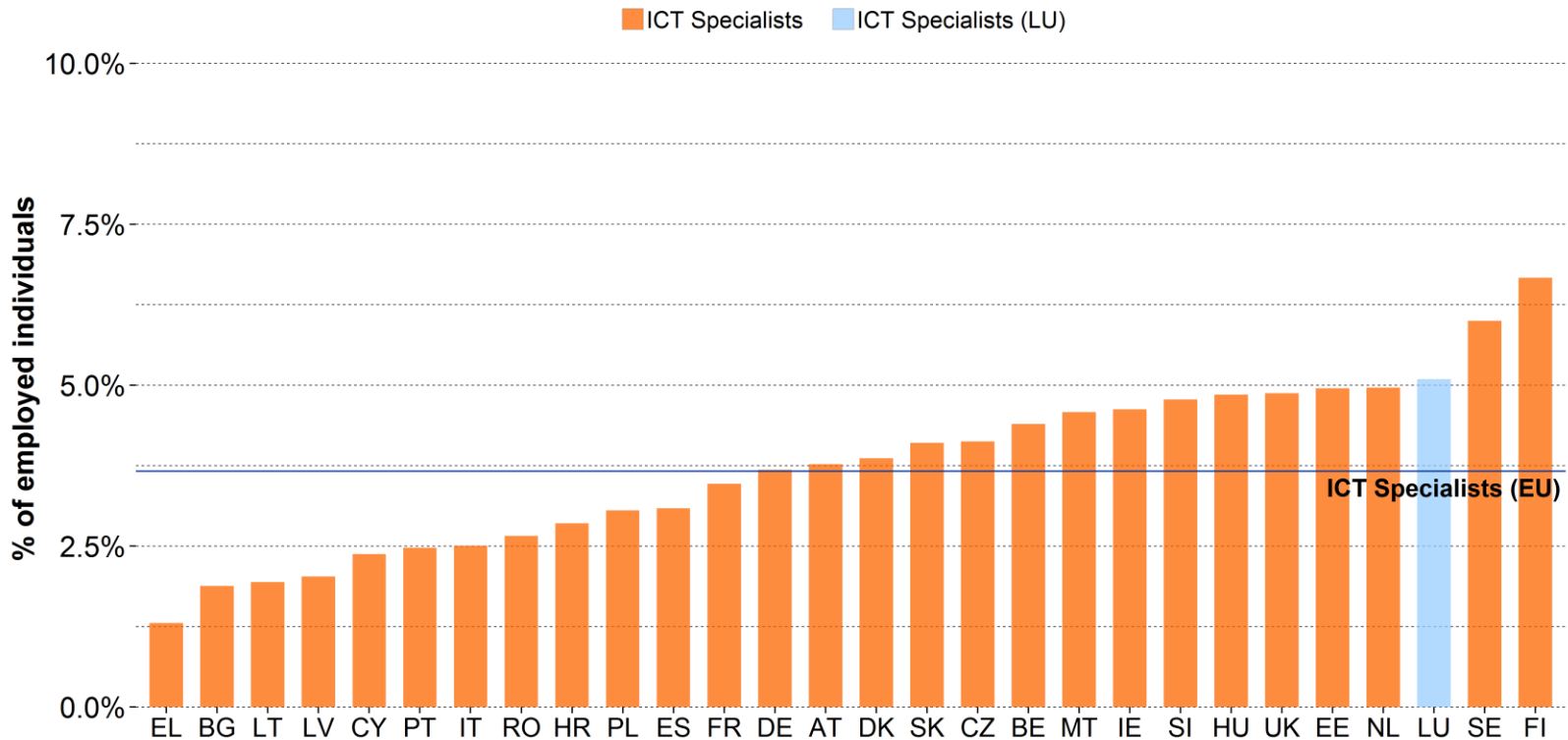
% of individuals



Human Capital: ICT Specialists in the workforce

In Luxembourg ICT Specialists account for 5.1% of the workforce (3.7% in the EU).

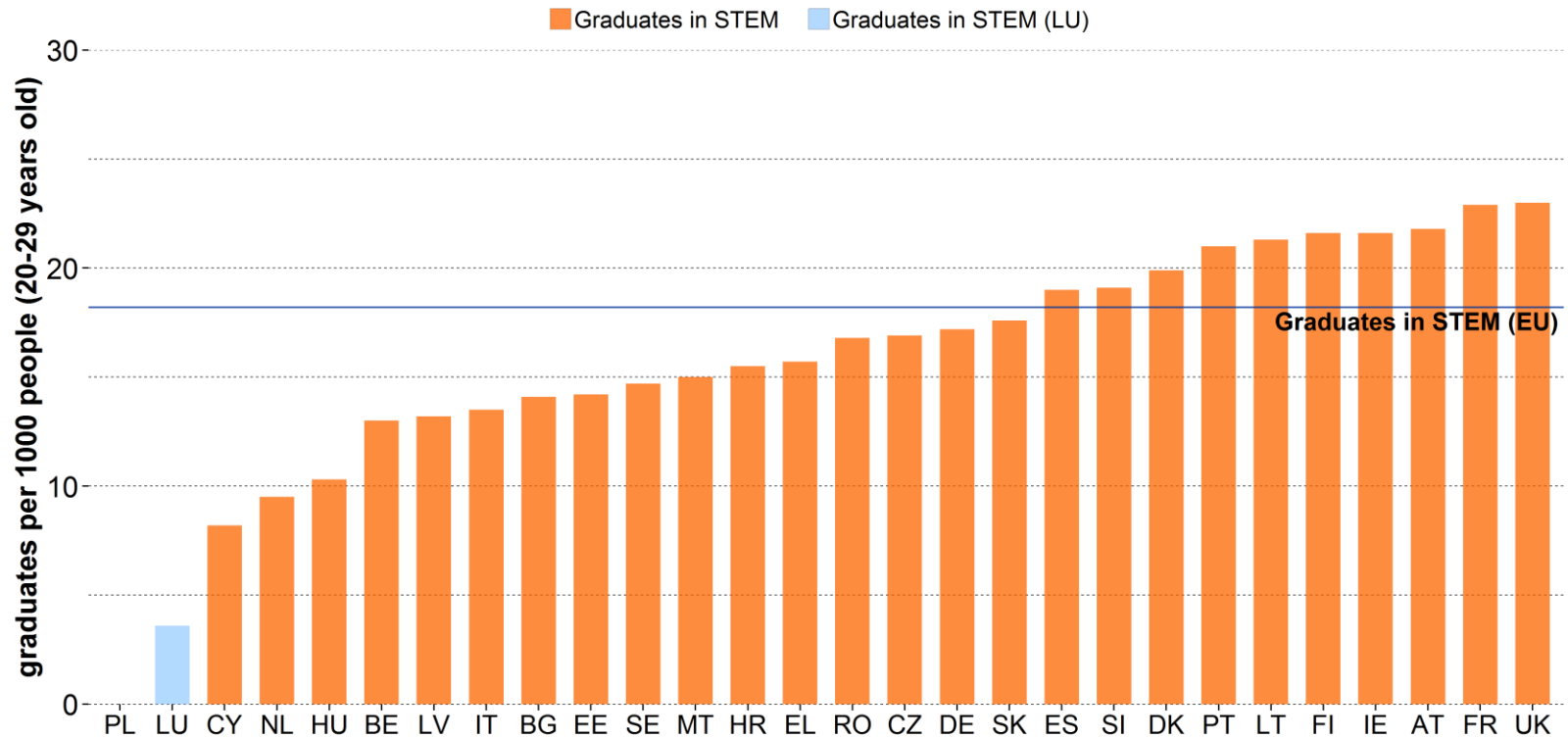
ICT Specialists in the workforce (2014)



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

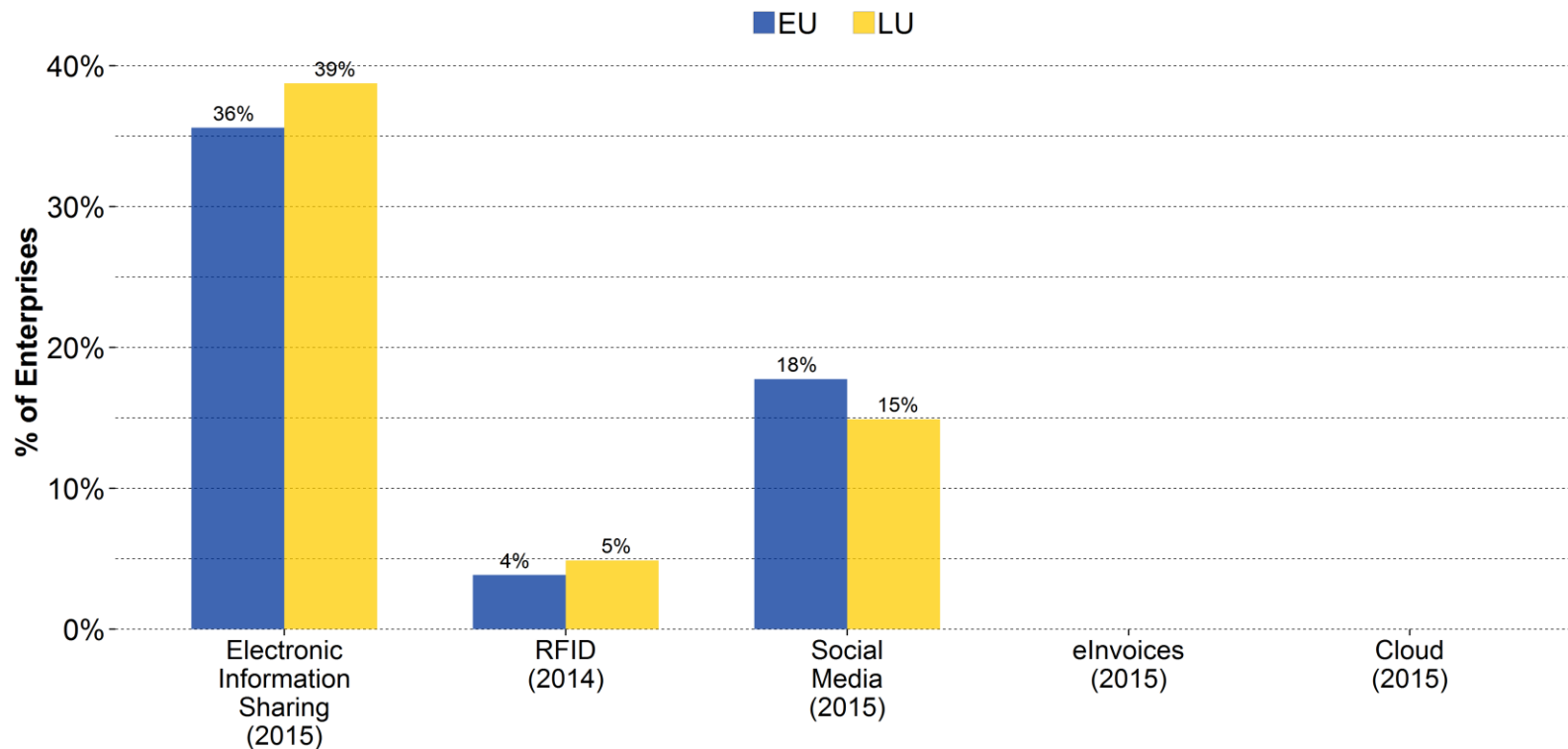
Luxembourg has 3.6 graduates in STEM per each 1000 people aged 20-29 years old (18 in the EU).

Graduates in Science, Technology and Mathematics (2013)



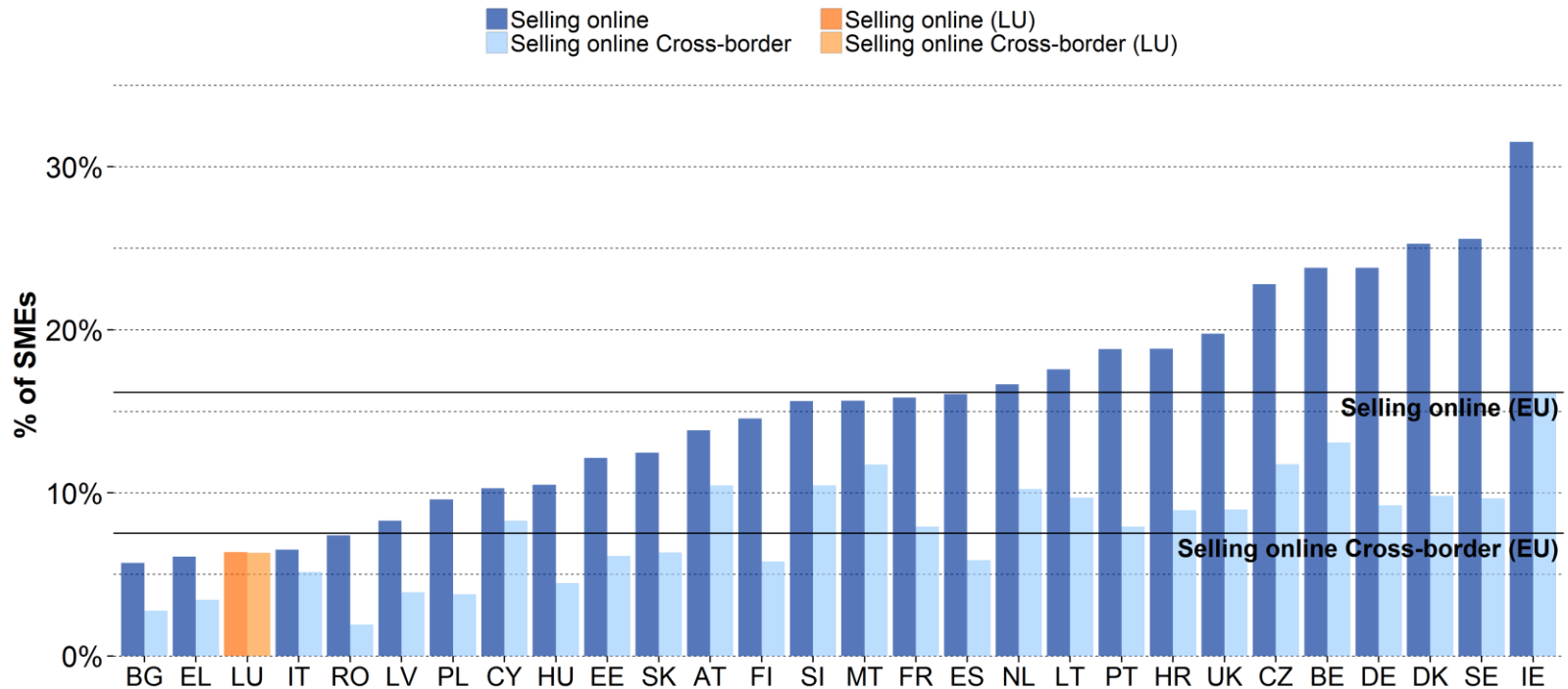
Businesses in Luxembourg are adopting different digital technologies to enhance productivity, such as sharing internal information electronically or using RFID, eInvoicing, Social Media and Cloud.

Adoption of Digital Technology by Businesses



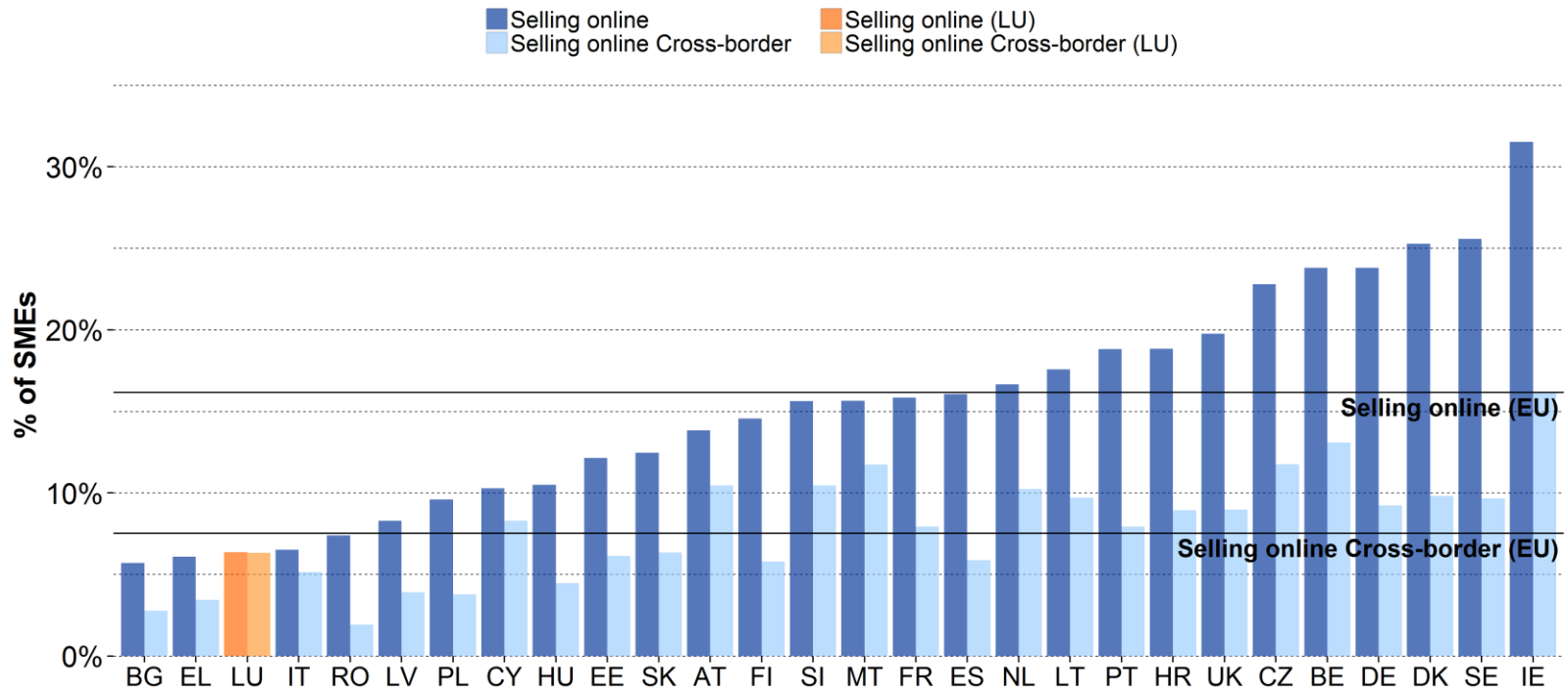
In Luxembourg 6.4% of SMEs sell online (16% in the EU). 6.3% of Luxembourgish SMEs sell online to other EU countries (7.5% in the EU).

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



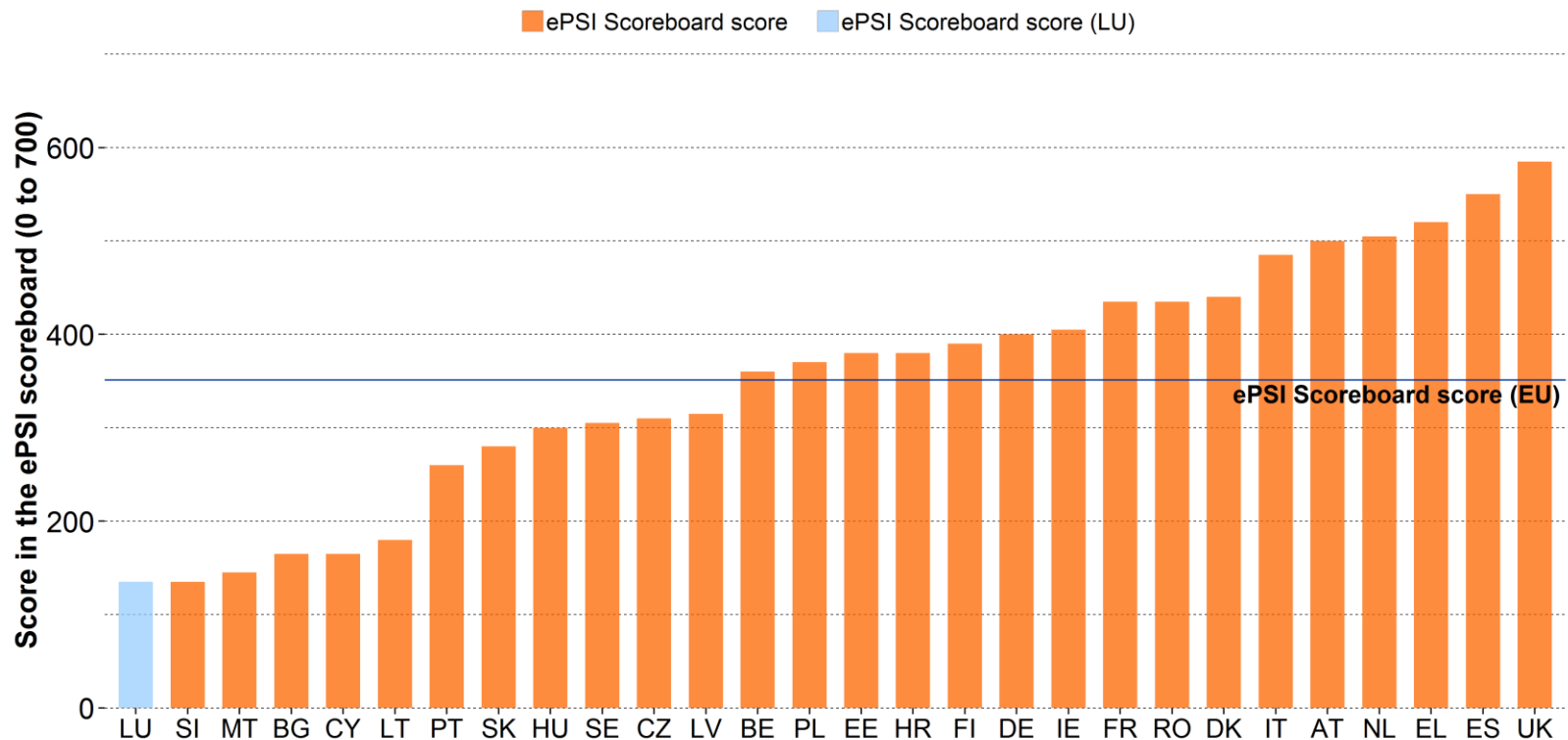
SMEs in Luxembourg obtain on average 2.6% of their turnover from eCommerce (9.4% in the EU).

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



Luxembourg scores 135 out of 700 in the European Public Sector Information scoreboard, against an overall score of 351 out of 700 for the European Union.

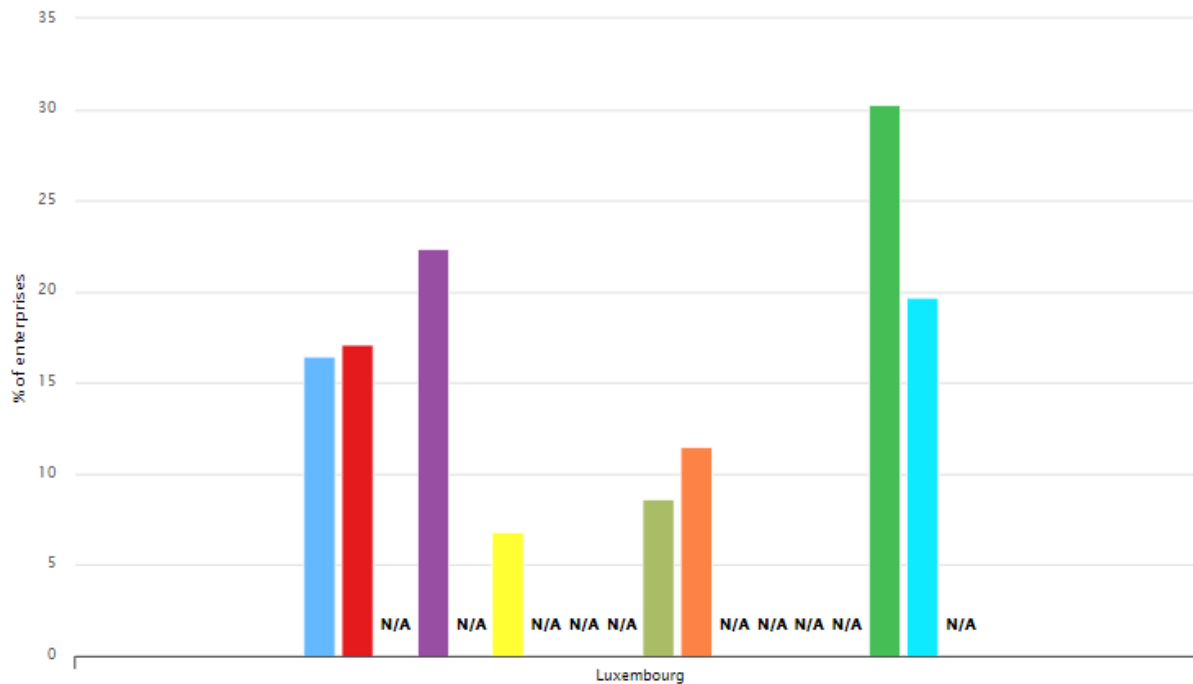
Open Data (2015)



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

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

European Commission, Digital Scoreboard

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+

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

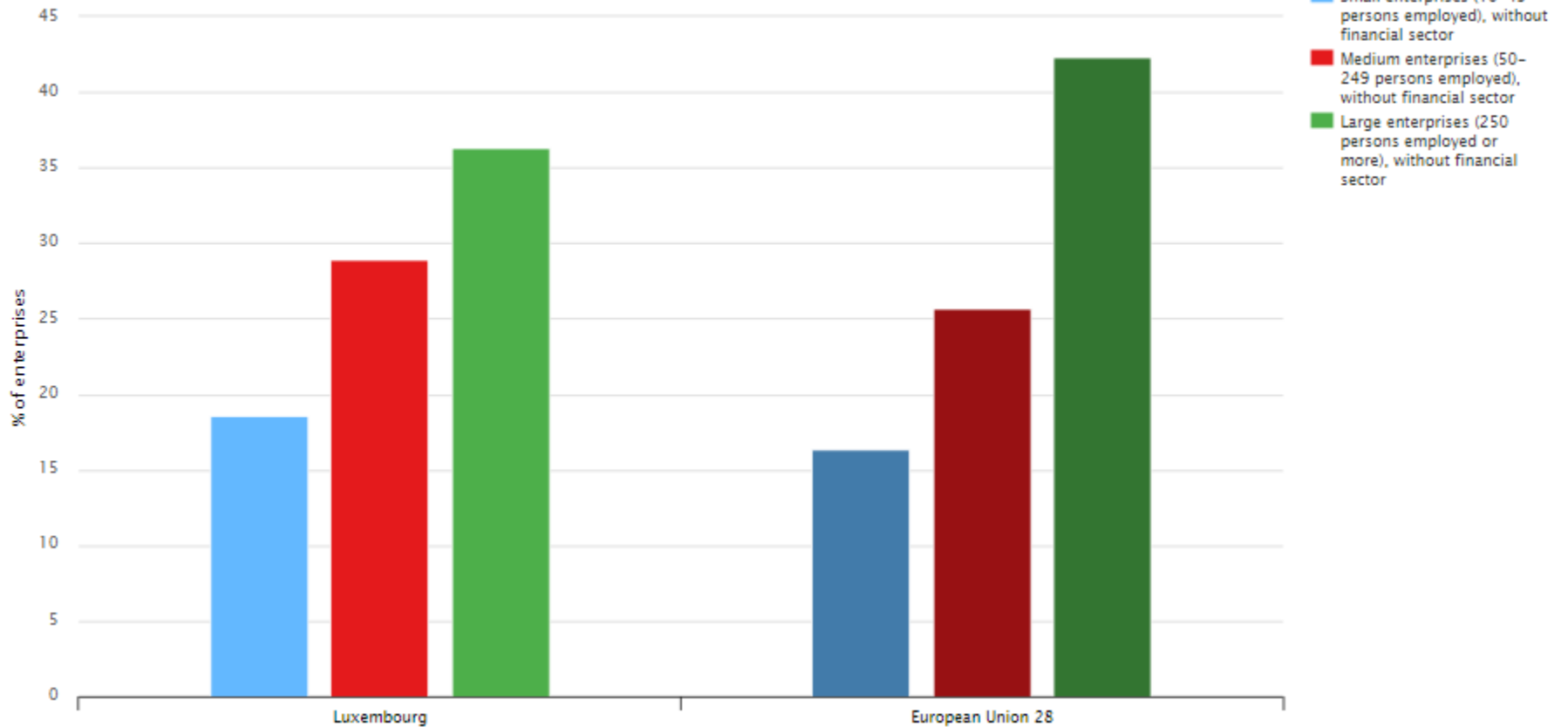
- Professional scientific and technical activities 10+

[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:\[%22LU%22\]}](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:[%22LU%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



European Commission, Digital Scoreboard

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

Digital Innovation Hubs Catalogue

The Luxembourg case

European Commission



SMART SPECIALISATION PLATFORM



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

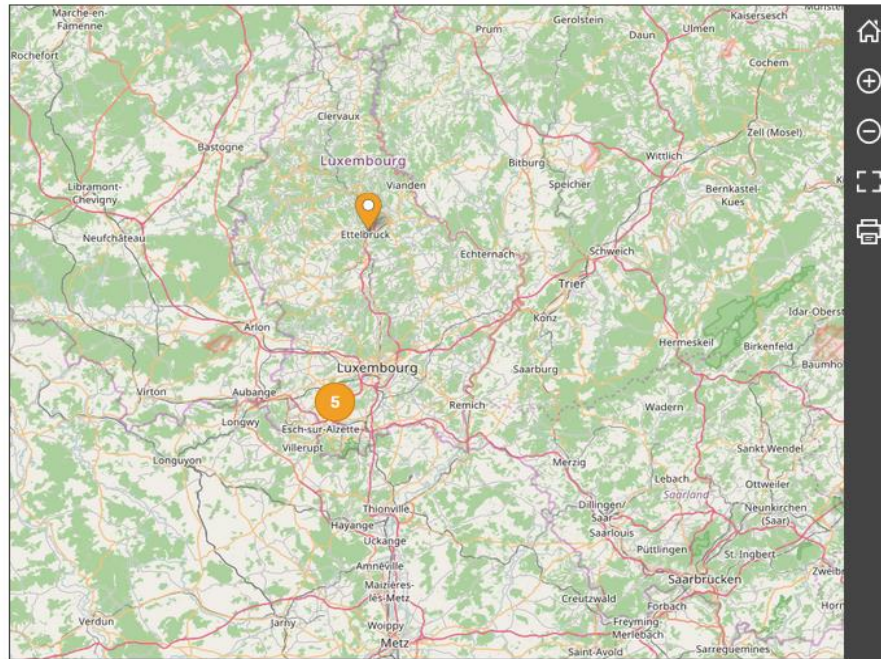
Home S3 Platform Sections Tools News Events Knowledge Repository

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



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Export Hubs to csv

Hub Name	Location	Country	Contact	Phone	Email	Website
Interdisciplinary Center of Security Reliability and Trust (SnT) of the University of Luxembourg	29 avenue JF Kennedy, L-1855, Luxembourg	Luxembourg	Dr Marc Lemmer, Head of Technology Transfer office	(+352) 46 66 44	✉	🌐
Luxembourg House of Financial Technology Foundation, LHoFT Foundation	14 rue Erasme, L-1468, Luxembourg	Luxembourg	Emilie Allaert	+352621317648	✉	🌐

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

JRC-B3-DIH@ec.europa.eu

Search

LUXEMBOURG

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

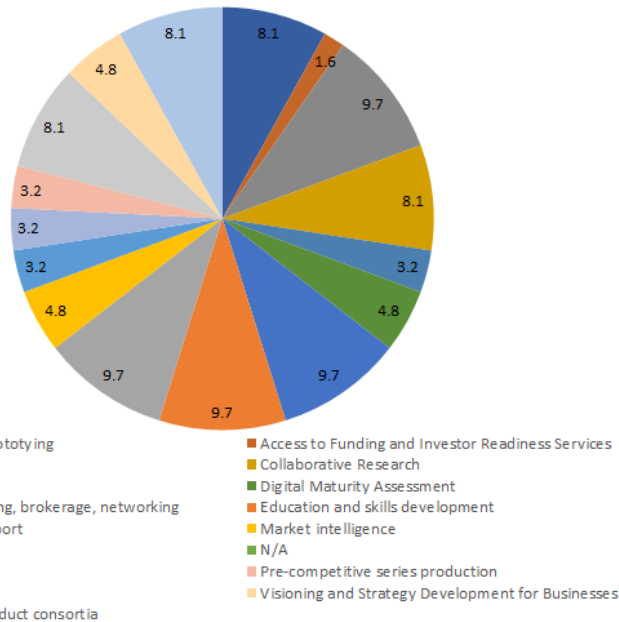
Financial intermediation

Real estate, renting and business activities

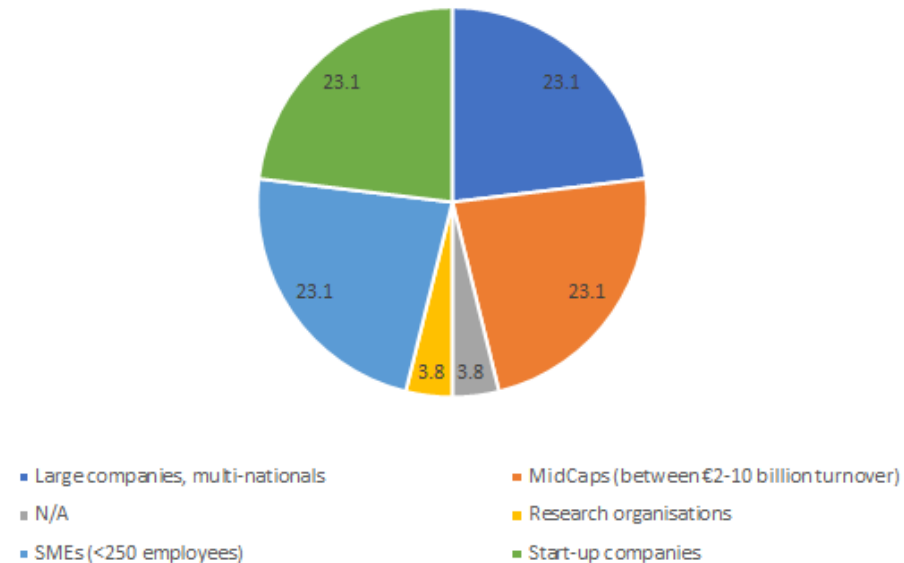
Public administration and defence

Services provided and types of customers supported by DIHs in Luxembourg - 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 Luxembourg in H2020



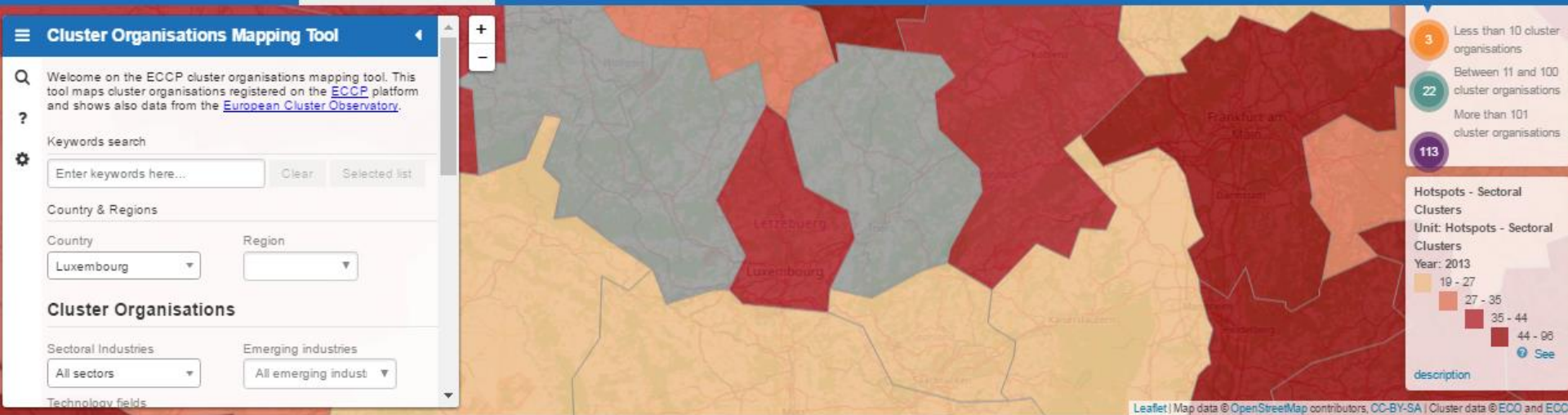
No participation

Competence centers/DIHs funded by EU projects in Luxembourg in FP7



No participation

No clusters in Luxembourg



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

Please see [WG1 report](#)

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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 down-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
- Search sectors

https://ec.europa.eu/growth/tools-databases/kets-tools/kets-tc/map?field_postal_address_country%5B0%5D=LU

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 Luxembourg

No Pilot Lines in Nanotechnology and Advanced Materials in Luxembourg

Planned investments, allocated resources, in Luxembourg, 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: Luxembourg

View a different country

Finances: Planned

Finances: Implemented

EU Payments

Achievements

Programmes

Luxembourg, through 3 national programmes, benefits from ESIF funding of EUR 140 million. This represents an average of 255 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 Luxembourg 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 Luxembourg.

Total EU National

Country Budget for 2014-2020:

€456 419 829

FINANCES: PLANNED

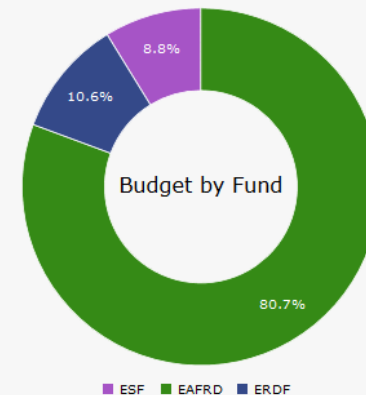
Total

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): Luxembourg, EUR

Explore and Share this Data



Refresh Date: 21/8/2017