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## Government Strategy: Smart Industry

- Launched in January 2016 by the **Ministry of Enterprise and Innovation** with the aim to strengthen the development of the Swedish production industry through a **new industrialization strategy** for Sweden

<http://www.government.se/information-material/2016/04/smart-industry---a-strategy-for-new-industrialisation-for-sweden/>

## Smart Industry Action Plan

- Following the Smart Industry Strategy, this action plan outlines measures to implement the industrialisation strategy

## Prokution 2030

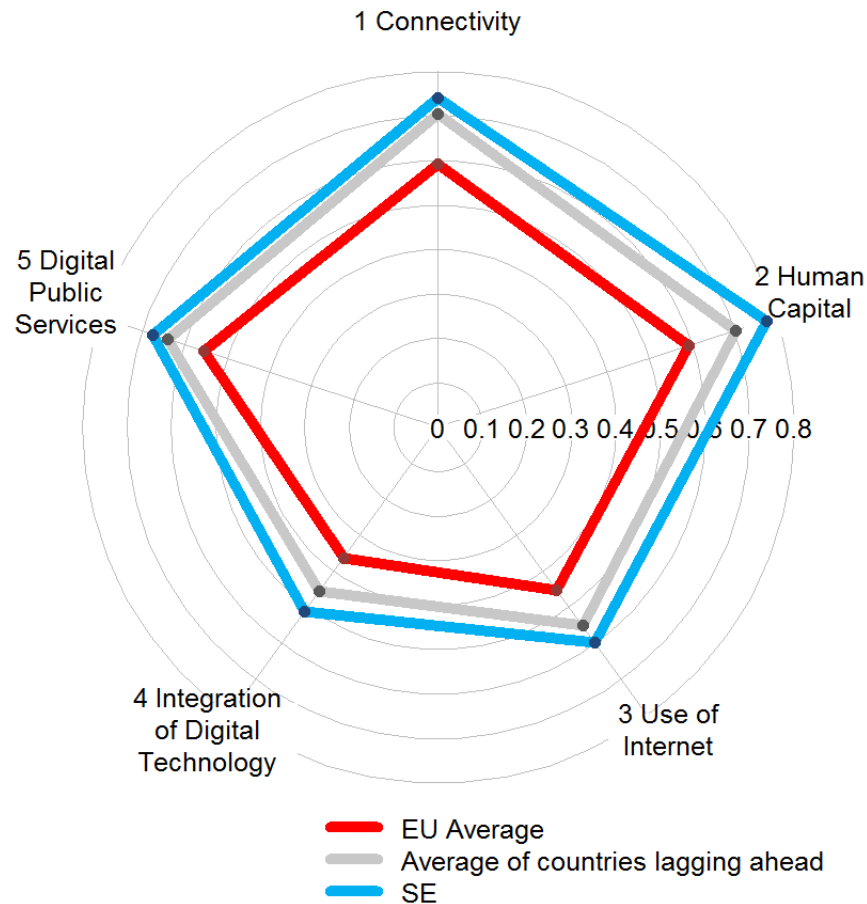
- Established in 2013 as a **Strategic Innovation Program** with the aims to translate industry challenges to relevant and innovative solutions for the industry as well as **build and strengthen networks and cooperation**, both in Sweden and internationally
- Funding: **50k EUR (500k SEK)**; manufacturing industry accounts for **30%** of the budget

[www.produktion2030.se](http://www.produktion2030.se)

## Vinnova – Funding agency

- **2,3M EUR (22M SEK)** has been allocated to Vinnova funding agency by the government in 2016 for **digital Industrial Platform** actions
- **3,65M EUR (35M SEK)** has been assigned by the Swedish Standards Institute for 2017-2020 for **standardization activities** concerning smart industry

**Sweden ranks 3 among EU countries.  
It is part of the group of countries that are lagging ahead.**



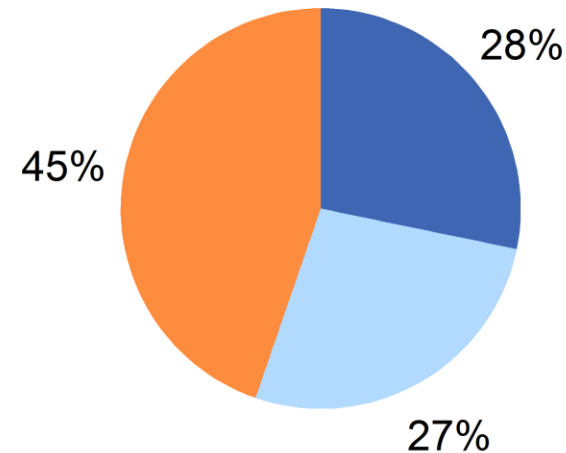
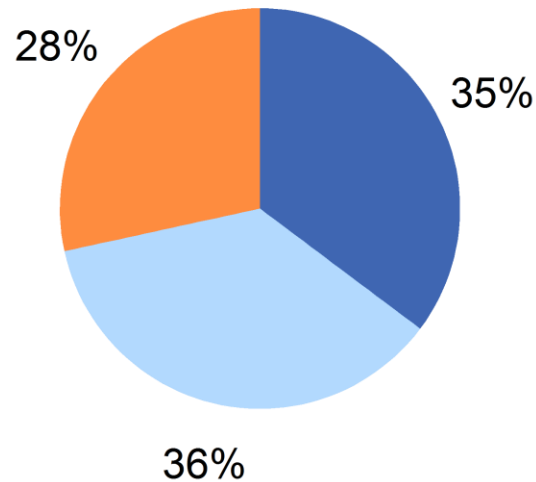
**In Sweden 36% of citizens have basic digital skills (27% in the EU) and 35% have above basic digital skills (28% in the EU).**

## Digital Skills (2015)

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

SE

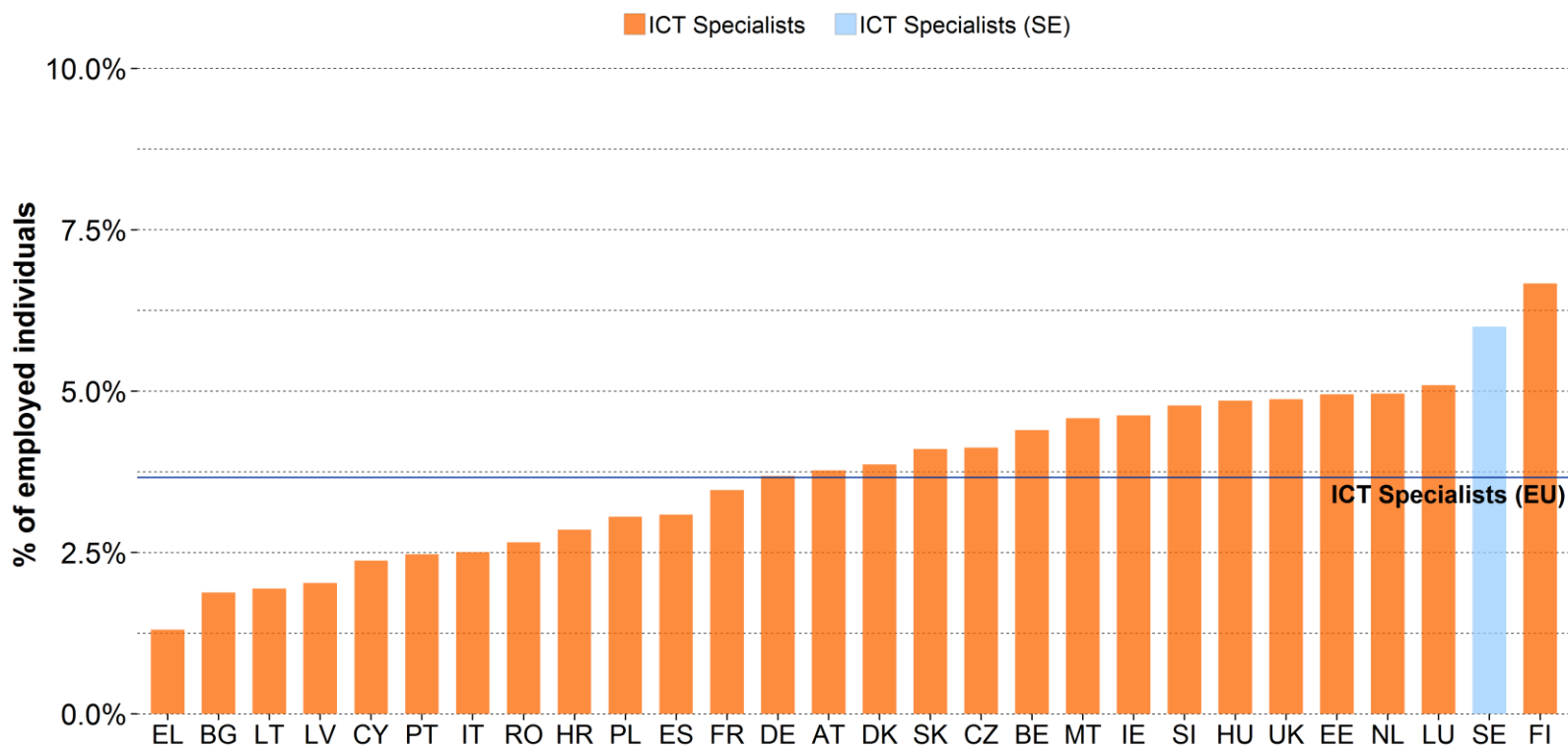
EU



% of individuals

In Sweden ICT Specialists account for 6% of the workforce (3.7% in the EU).

## ICT Specialists in the workforce (2014)

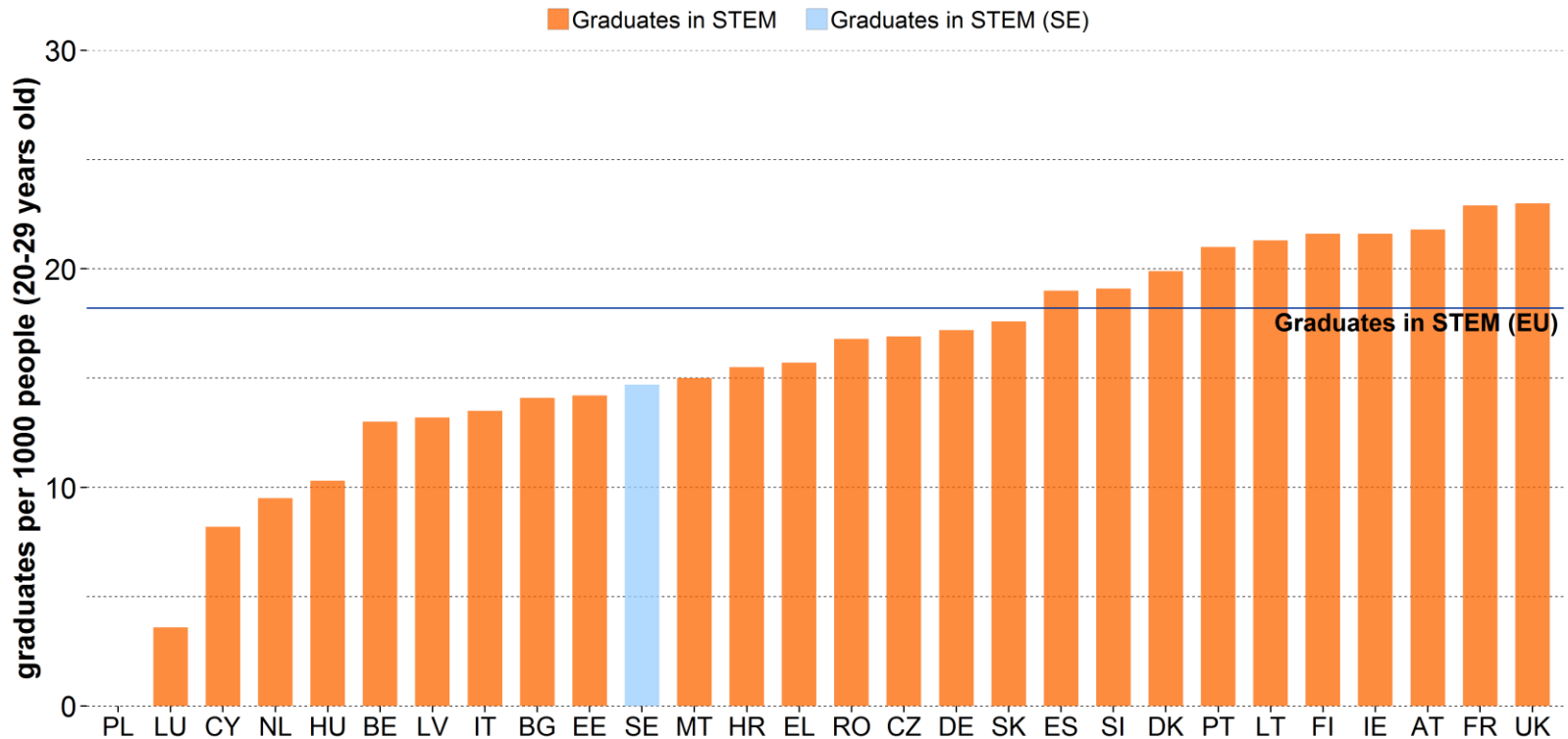


# Human Capital: Graduates in STEM (Science, Technology and Mathematics)

European  
Commission

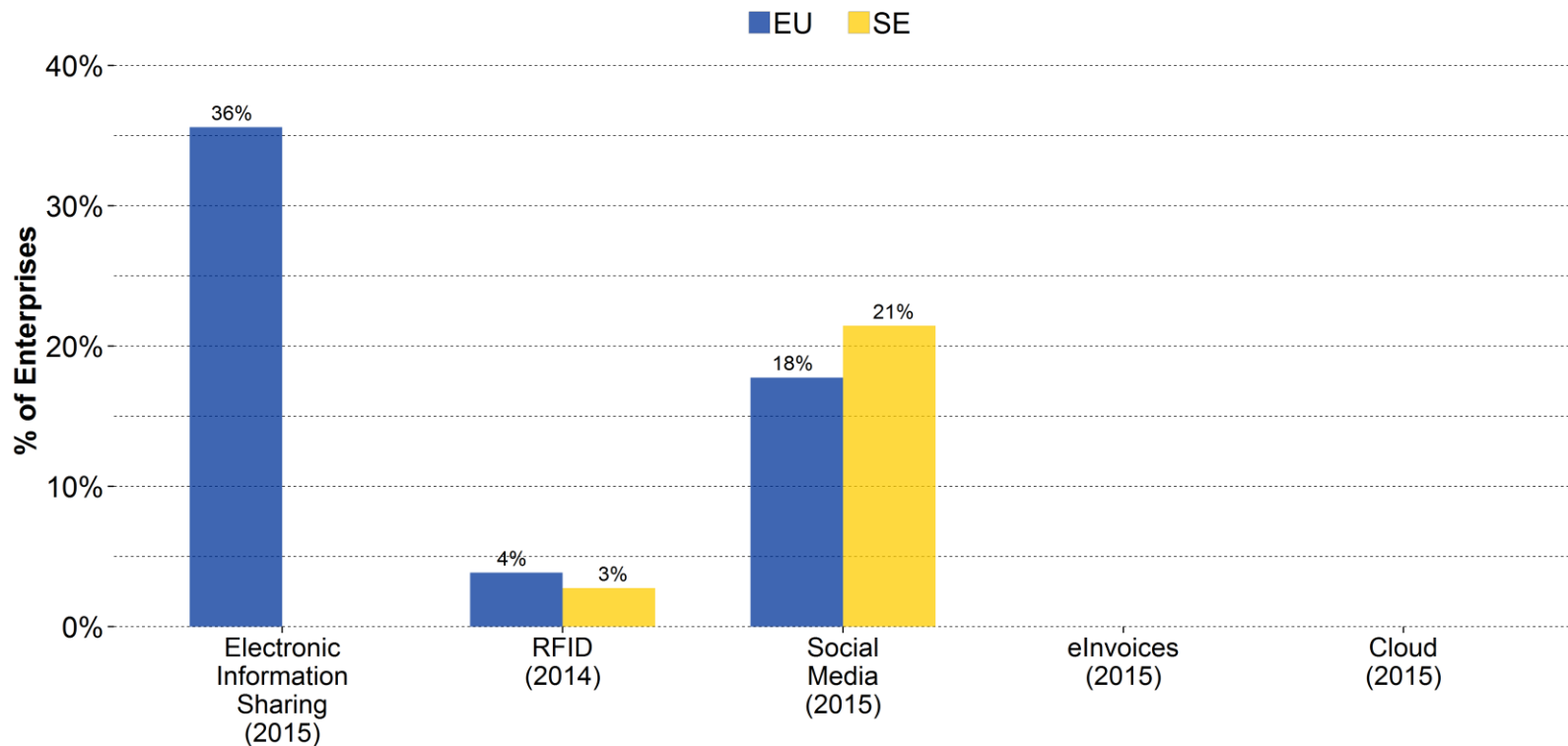
**Sweden has 15 graduates in STEM per each 1000 people  
aged 20-29 years old (18 in the EU).**

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



**Businesses in Sweden 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**

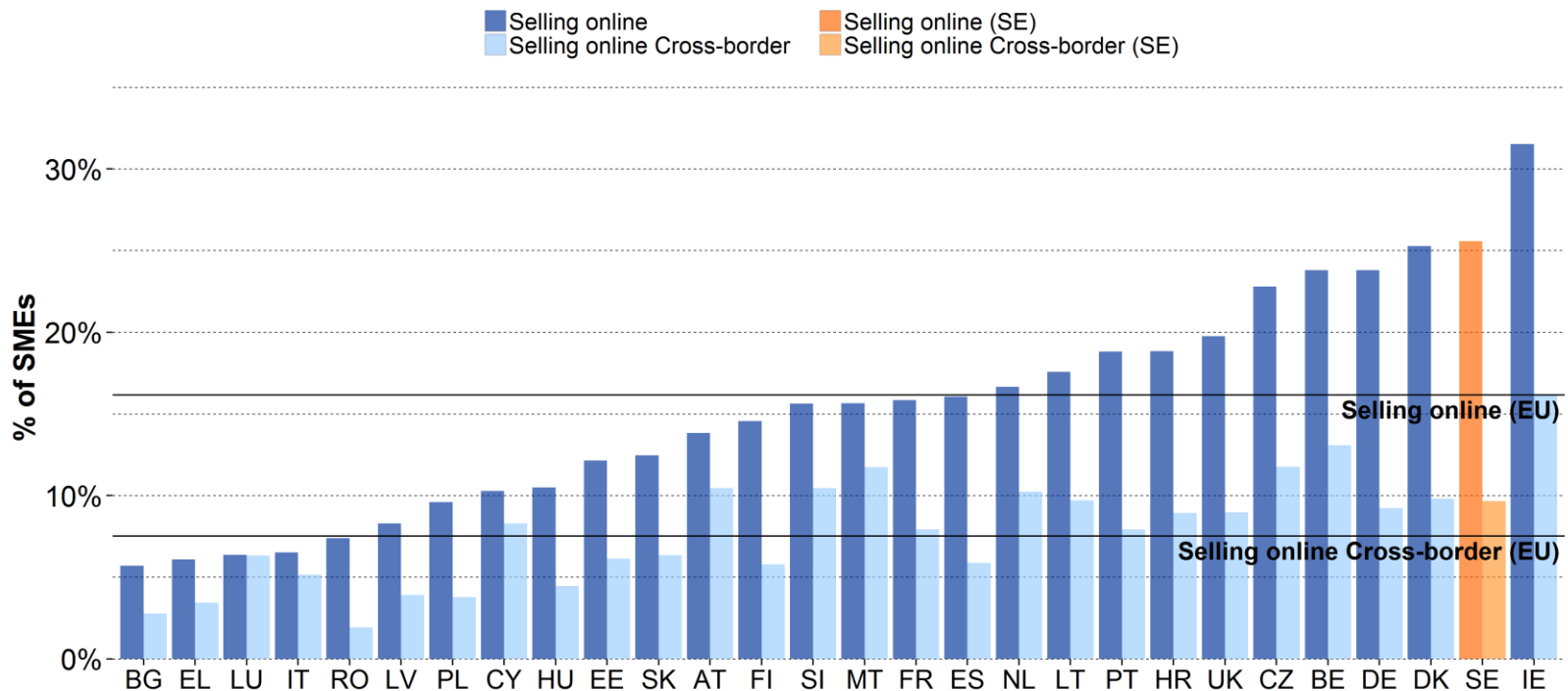




**In Sweden 26% of SMEs sell online (16% in the EU).**

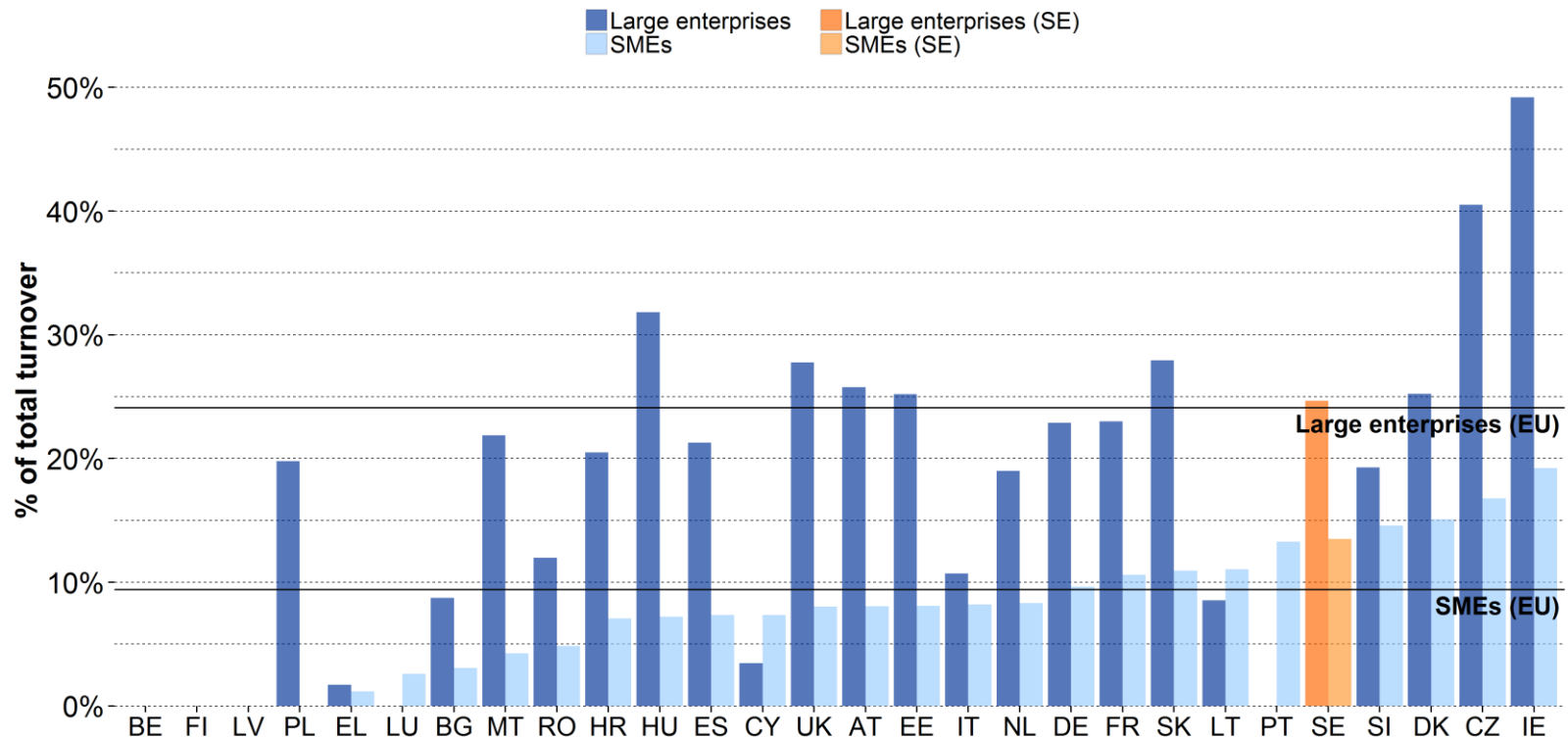
**9.7% of Swedish SMEs sell online to other EU countries (7.5% in the EU).**

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



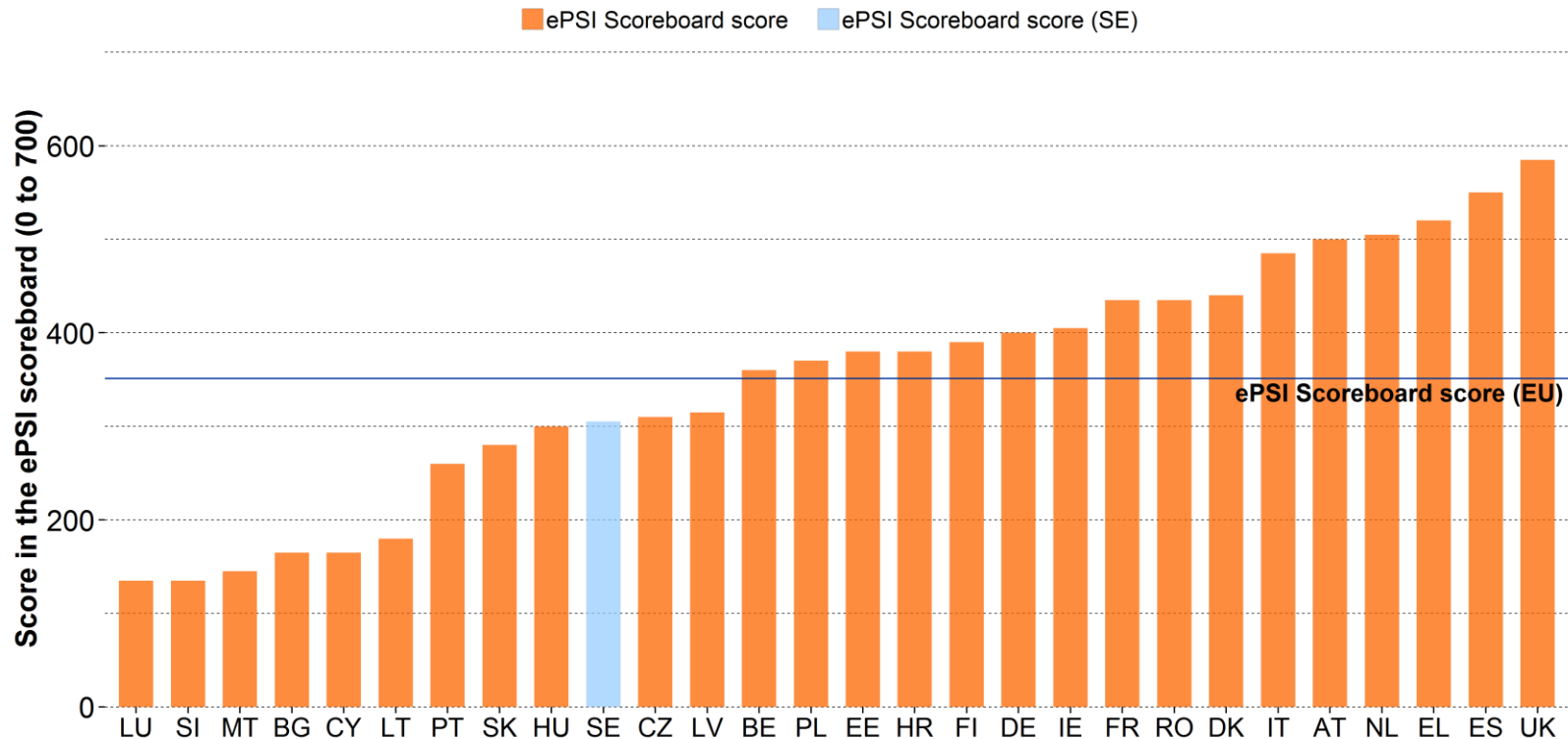
**SMEs in Sweden obtain on average 14% of their turnover from eCommerce (9.4% in the EU). Large enterprises derive on average 25% of their turnover from eCommerce (24% in the EU).**

## Turnover from eCommerce (2015)



**Sweden scores 305 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)

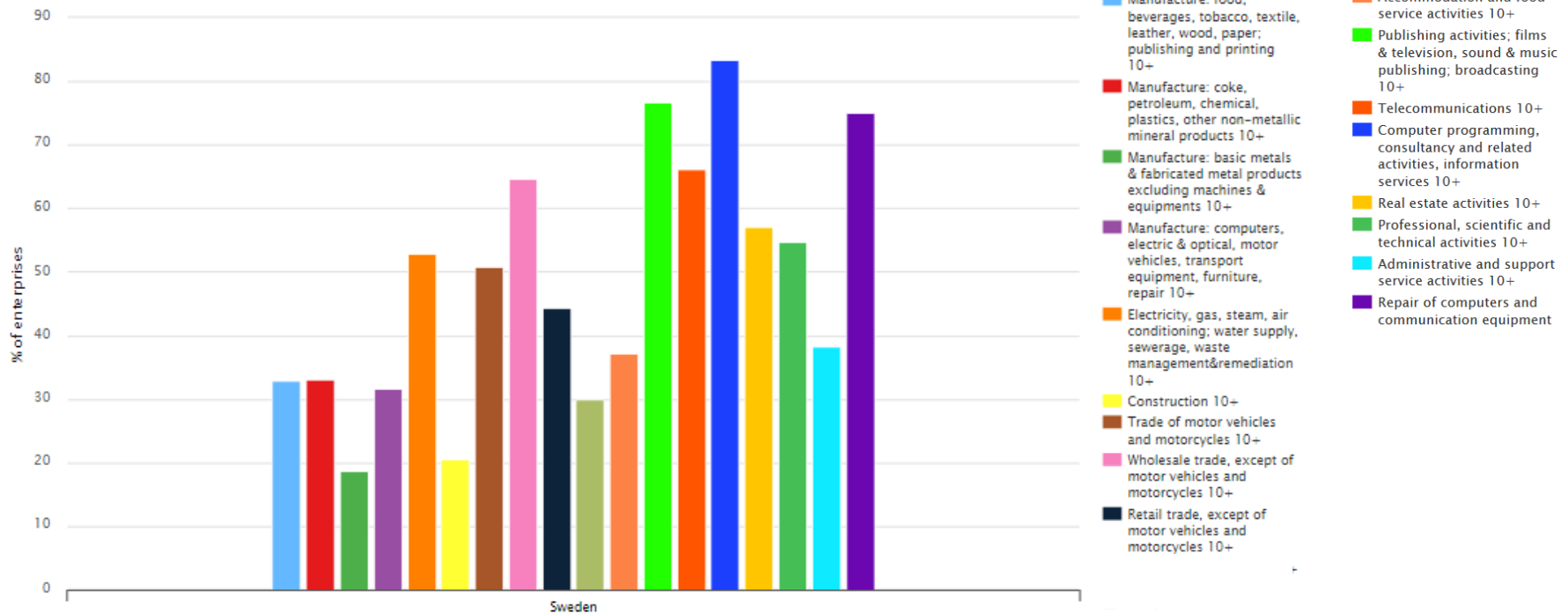


# Enterprises with high level of Digital Intensity by economic sectors in Sweden

European Commission

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

Year:2016



European Commission, Digital Scoreboard

## Sectors where more 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: computers, electric & optical, motor vehicles, transport equipment, furniture, repair 10+
- Electricity, gas, steam, air conditioning; water supply, sewerage, waste management & remediation
- Retail trade, except of motor vehicles and motorcycles 10+
- Administrative and support service activities 10+
- Trade of motor vehicles and motorcycles 10+
- Wholesale trade, except of motor vehicles and motorcycles 10+
- Accommodation and food service activities 10+
- Real estate activities 10+
- Professional, scientific and technical activities 10+
- Repair of computers and communication equipment

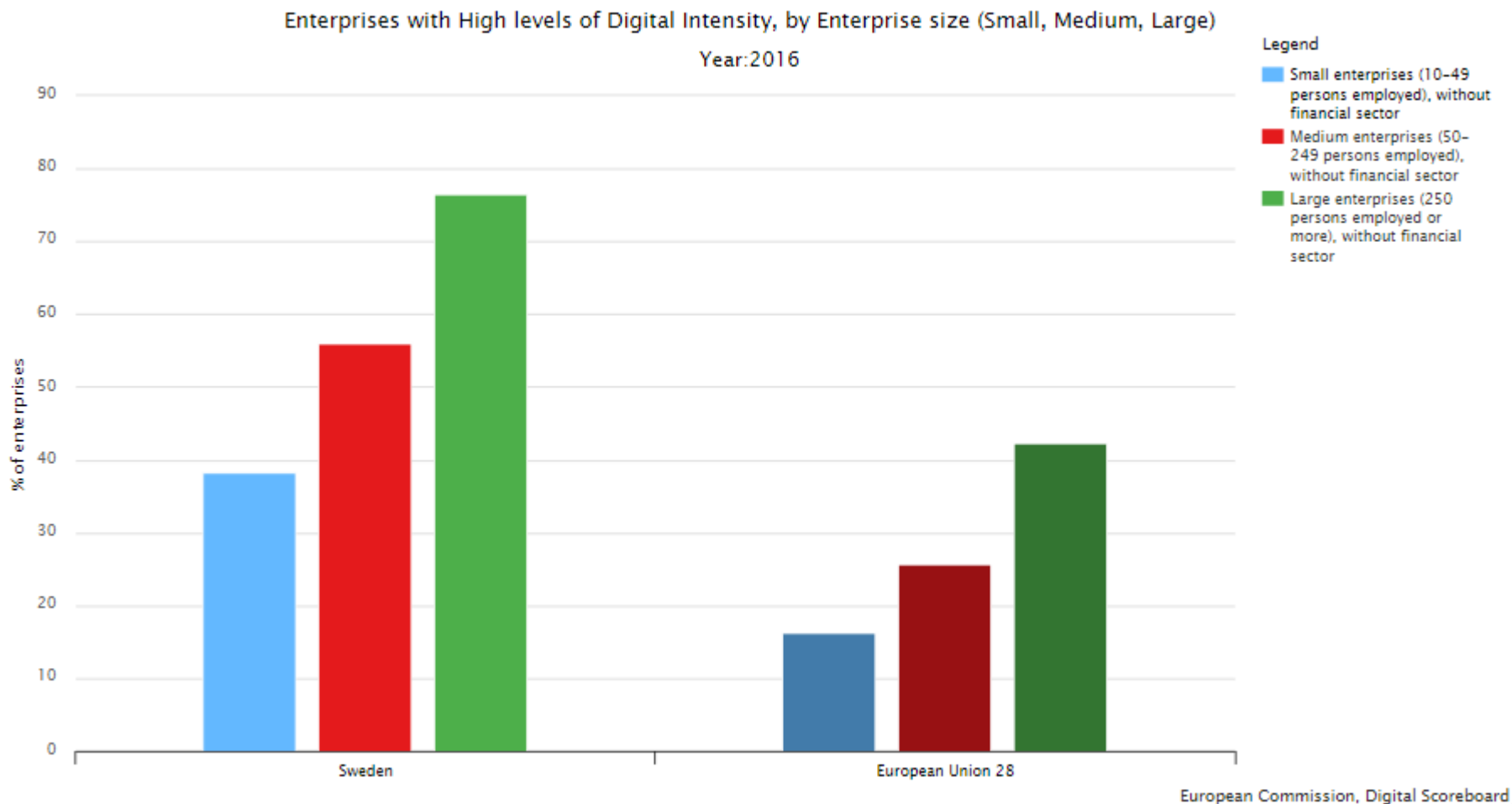
## Sectors where less than 30% of the companies have a high level of digital intensity:

- Manufacture: basic metals & fabricated metal products excluding machines & equipment 10+
- Construction 10+
- Transport and storage 10+

[http://digital-agenda-data.eu/charts/analyse-one-indicator-and-compare-breakdowns#chart={"indicator":"ebusiness","indicator":"e\\_di\\_hivhi","breakdown-group":"econnector","unit-measure":"pc\\_ent","time-period":"2016","ref-area":\["SE"\]}](http://digital-agenda-data.eu/charts/analyse-one-indicator-and-compare-breakdowns#chart={)

# Enterprises with high levels of digital intensity, by Enterprise size

European  
Commission



[http://digital-agenda-data.eu/charts/analyse-one-indicator-and-compare-breakdowns#chart={"indicator-group":"ebusiness","indicator":"e di hivhi","breakdown-group":"byENTsize s m l","unit-measure":"pc ent","time-period":"2016","ref-area":\["EU28","SE"\]}](http://digital-agenda-data.eu/charts/analyse-one-indicator-and-compare-breakdowns#chart={)

# Digital Innovation Hubs Catalogue

## The Sweden case

European Commission



SMART SPECIALISATION PLATFORM

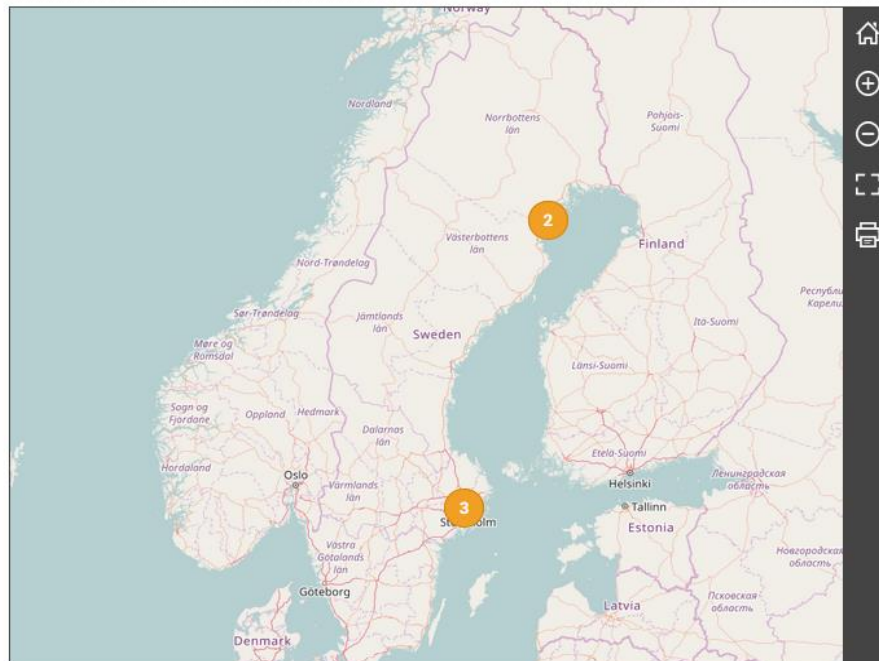


European Commission / Smart Specialisation Platform / Tools / Digital Innovation Hubs

Home S3 Platform Sections **Tools** News Events Knowledge Repository

Search

### Digital Innovation Hubs



Leaflet | © OpenStreetMap contributors | Disclaimer

Export Hubs to csv

Hub Name	Location	Country	Contact	Phone	Email	Website
Arctic Game Lab	Storgatan 53, 931 30, Skelleftea	Sweden	Lars Lindblom	+46 70 6552875	<a href="#">✉</a>	<a href="#">🌐</a>
Global Alliance for Media Innovation (GAMI)	72 rue d'Hauteville, 75010, Paris	France	Stephen Fozard	+33676814052	<a href="#">✉</a>	<a href="#">🌐</a>
Infrastructure and Cloud data centre test Environment (SICS ICE)	Björskataleden 112, 97347, Luleå	Sweden	Tor Björn Minde	+46706242959	<a href="#">✉</a>	<a href="#">🌐</a>

Search:

Technical Competences:

Services Provided:

Focus on TRL:

Market sectors:

- 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

The version available presents:

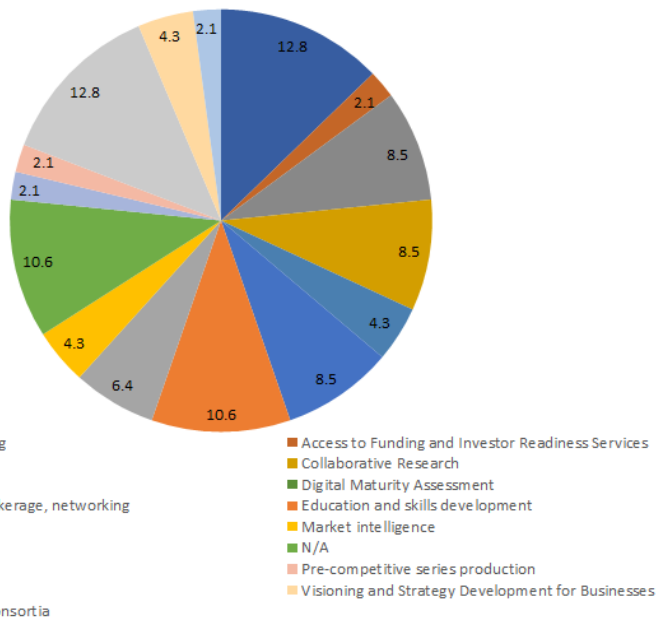
- Fact-sheets with profile, contact data, service examples for regional, national, and EU-supported DIHs
- Map-based search tool by technical competences, market sector, services

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

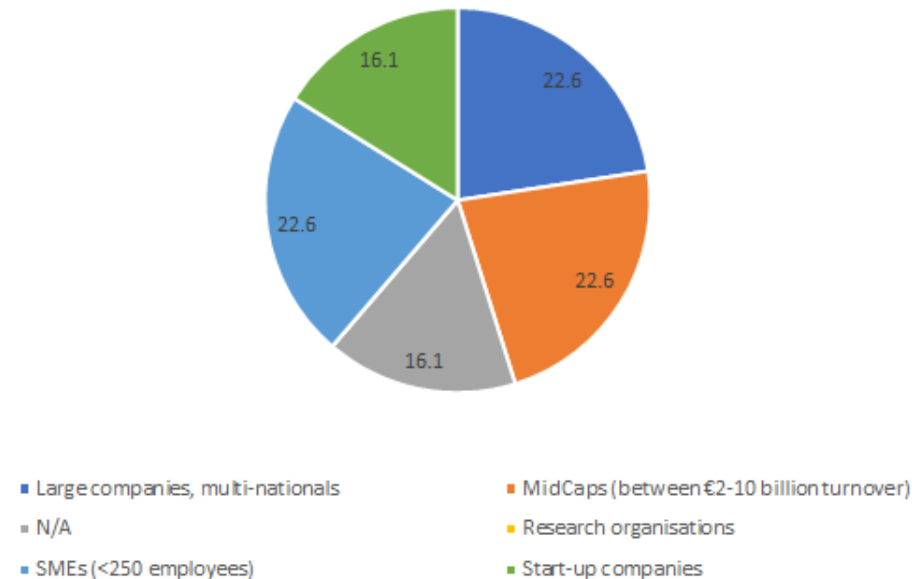
[JRC-B3-DIH@ec.europa.eu](mailto:JRC-B3-DIH@ec.europa.eu)

# Services provided and types of customers supported by DIHs in Sweden - 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 Sweden 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	Fortissimo 2	36	31/10/2018	KOENIGSEGG AUTOMOTIVE AB	PARTICIPANT	KOENIGSEGG	PRIVATE	No
FoF-09-2015	Fortissimo 2	36	31/10/2018	GRIDCORE AB	PARTICIPANT	GOMPUTE	PRIVATE	No
FoF-09-2015	I4MS-Growth	30	28/02/2018	CHALMERS TEKNISKA HOEGSKOLA AB	PARTICIPANT	CHALMERS	PRIVATE	Yes
FOF-12-2017	MIDIH	36	30/09/2020	LULEA TEKNISKA UNIVERSITET	PARTICIPANT	LTU	PUBLIC	Yes
FOF-12-2017	CloudiFacturing	42	31/03/2021	LUNDS UNIVERSITET	PARTICIPANT	LU	PUBLIC	Yes
ICT-01-2014	EuroCPS	36	31/01/2018	LULEA TEKNISKA UNIVERSITET	PARTICIPANT	LTU	PUBLIC	Yes
ICT-01-2014	CPSELabs	36	31/01/2018	KUNGLIGA TEKNISKA HOEGSKOLAN	PARTICIPANT	KTH	PUBLIC	No
ICT-02-2014	SMARTER-SI	36	31/01/2018	SWEREA IVF AB	PARTICIPANT	IVF	PRIVATE	Yes
ICT-04-2017	TETRAMAX	48	31/08/2021	CHALMERS TEKNISKA HOEGSKOLA AB	PARTICIPANT	CHALMERS	PRIVATE	Yes
ICT-04-2017	FED4SAE	36	31/08/2020	KUNGLIGA TEKNISKA HOEGSKOLAN	PARTICIPANT	KTH	PUBLIC	No



# Competence centers/DIHs funded by EU projects in Sweden 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	GOMPUTE	GRIDCORE AB	Participant	PRC
609029	FORTISSIMO	42	01-Jul-2013	31-Dec-2016	123	KOENIGSEGG	KOENIGSEGG AUTOMOTIVE AB	Participant	PRC
609046	LASHARE	48	01-Sep-2013	31-Aug-2017	69	GKN	GKN AEROSPACE SWEDEN AB	Participant	PRC
609046	LASHARE	48	01-Sep-2013	31-Aug-2017	69	OPT	Optoskand AB	Participant	PRC
609046	LASHARE	48	01-Sep-2013	31-Aug-2017	69	Perma	PERMANOVA LASERSYSTEM AKTIEBOLAG	Participant	PRC
609029	FORTISSIMO	42	01-Jul-2013	31-Dec-2016	123	GOMPUTE	GRIDCORE AB	Participant	PRC

## 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

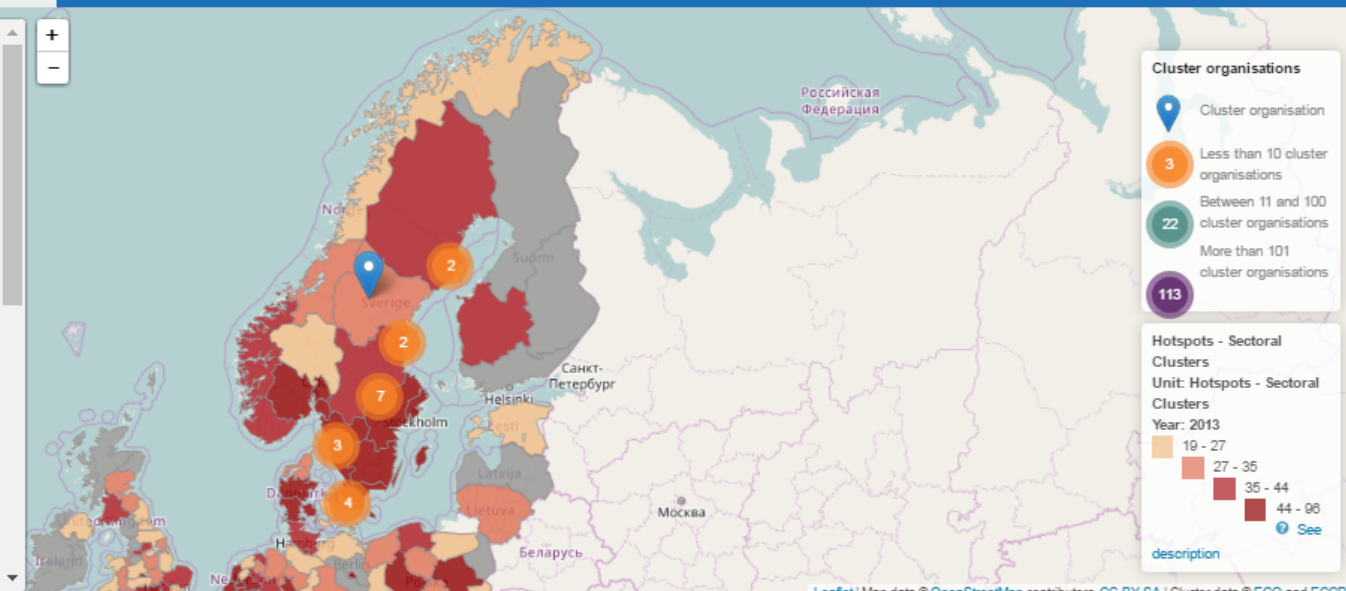
Enter keywords here... Clear Selected list

Country & Regions

Country: Sweden Region: All regions

### Cluster Organisations

Sectoral Industries: All sectors Emerging industries: All emerging indust  
Technology fields: All categories Participation in EU programmes: Any  
S3 EU priority areas: All S3 priority areas



[https://www.clustercollaboration.eu/print/cluster-list?combine=&country\\_code=se](https://www.clustercollaboration.eu/print/cluster-list?combine=&country_code=se)

Please see [WG1 report](#)

The screenshot displays the 'GROWTH' portal interface. At the top, it features the European Commission logo and the text 'GROWTH Internal Market, Industry, Entrepreneurship and SMEs'. Below this is a navigation bar with tabs for 'Single Market and Standards', 'Industry' (selected), 'Entrepreneurship and SMEs', 'Access to finance for SMEs', and 'Sectors'. A search bar is located on the left side of the navigation bar.

The main content area is titled 'SMEs' Access to Key Enabling Technologies'. It includes a section 'What is the objective of the map below?' which states: 'To allow SMEs, wherever located in Europe, to find Technology Centres which can help to innovate through Key Enabling Technologies (KETs)'. Below this, it explains that technology centres are selected based on 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).

A 'How to use the map?' section follows, stating: '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.' Below the text are two buttons: 'Map' and 'List'.

The map shows a geographical view of Europe with a focus on Sweden. A blue location pin is placed on the Swedish coast, and a green circle with the number '3' is overlaid on the map. To the right of the map is a 'Filters' panel with a 'Countries' section containing a list of European countries with checkboxes. 'Sweden' is checked. Below the countries list are sections for 'Technology readiness levels' and 'Market sectors'.

On the left side of the main content area, there is a 'KETs Tools' sidebar with a menu including 'KETs Observatory', 'KETs Technology Centres' (expanded to show 'KETs TCs Mapping', 'Contacts', 'Help', and 'Login'), 'Industry - links', 'News', 'Events', 'Tools and Databases', 'Contracts and grants', 'Public consultations', and 'Publications'.

[https://ec.europa.eu/growth/tools-databases/kets-tools/kets-tc/map?field\\_postal\\_address\\_country%5B0%5D=SE](https://ec.europa.eu/growth/tools-databases/kets-tools/kets-tc/map?field_postal_address_country%5B0%5D=SE)

## eit Digital Co-Location Centre in Stockholm

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[Home](#) / [About us](#) / [Locations](#) / [Stockholm Node](#)

About us

Overview

Action Lines

Locations

Brussels Head Office

Berlin Node

Budapest Node

Eindhoven Node

Helsinki Node

Madrid Node

London Node

Paris Node

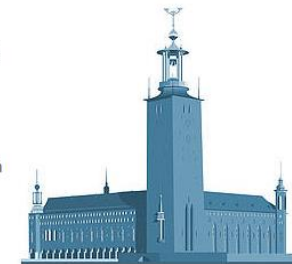
Stockholm Node

## Stockholm Node

The Stockholm Node and CLC are located in the Electrum building at Kista Science City (KSC), the "Silicon Valley" of Stockholm. The ICT cluster is the largest in Europe and among the top five worldwide. The CLC is surrounded by universities, research institutes and enterprises that are particularly prominent in mobile and wireless communication, multimedia and broadband systems.

The core partners of the Stockholm Node are [KTH](#), [Ericsson AB](#) and [SICS](#) – leading Swedish organisations within ICT innovation and research.

Affiliated partners are [Kista Science City AB](#), [STING](#) (Stockholm Innovation and Growth), [ACREO](#), [Stockholm University – Dept. of Computer and Systems Science](#), [Lund University](#) and [Luleå University of Technology](#).



The Co-location Centre (CLC) – the partner office and meeting place

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

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

# Pilot Lines in Nanotechnology and Advanced Materials



European  
Commission

Project Number	Project Acronym	Project Title	Project Start Date	Project End Date	Participant Legal Name	Participant Short Name	Sectors	Pilot line
646142	NanoPilot	A Pilot Plant for the Production of Polymer based Nanopharmaceuticals in Compliance with GMP	01/01/2015	31/12/2018	SPINVERSE AB	Spinverse AB		
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	SWEREA SICOMP AB	SWEREA		
685648	NanoHybrids	New generation of nanoporous organic and hybrid aerogels for industrial applications: from the lab to pilot scale production	01/11/2015	30/04/2019	INNVENTIA AB	INNVENTIA AB		
685872	MOZART	Mesoporous matrices for localized pH-triggered release of the therapeutic ions and drugs	01/11/2015	31/10/2019	NANOLITH SVERIGE AB	NANOLITH	Healthcare sector (Bone healing and wound healing applications)	Nanomaterials manufacturing
686135	PROCETS	Protective composite Coatings via Electrodeposition and Thermal Spraying	01/01/2016	30/06/2019	HUSQVARNA AB	HUSQVARNA		
686135	PROCETS	Protective composite Coatings via Electrodeposition and Thermal Spraying	01/01/2016	30/06/2019	TEKNISKA HOGSKOLAN I JONKOPING AB	JTH		

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

View a different country



Sweden, through 13 national programmes, benefits from ESIF funding of EUR 3.6 billion. This represents an average of 378 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 Sweden 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 Sweden.

Total EU National

Country Budget for 2014-2020:  
**€7 980 029 258**

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): Sweden, EUR**  
[Explore and Share this Data](#)

Fund	Percentage
YEI	18.3%
ESF	24.0%
ERDF	53.9%
EAFRD	-
EMFF	-

Refresh Date: 21/8/2017