European Commission

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

Netherlands

<u>Accompanied by the WG1 Report on Digital Innovation Hubs</u>:

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

#DigitiseEU

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The Netherlands' national strategy for digitising industry

- Most **public investments** supporting digital transformation of industry in the Netherlands are distributed over the generic and specific instruments for enterprise policy **(Ministry of Economic Affairs).**
- In total, the budget for **innovation promotion** is about **1,75bn EUR in 2017.**

"Smart Industry"
Dutch Industry fit for the Future

- Launched in **2017,** Smart Industry is PPP action program run by the **employers federation for the technology industry** (FME), the **Ministry of Economic Affairs**, the **Chamber of Commerce**, **Netherlands-ICT** (sector federation for ICT) and **TNO.**

http://www.smartindustry.nl

New Digital Agenda 2016-2017

- Published in **2016** by the **Ministry of Economic affairs**
- An integrated approach to **four sector-specific priorities**: smart industry, e-health, ICT in the energy sector and smart mobility
- The Team Smart Industry prepared in summer 2017 a new **implementation agenda 2018-2021**, to be presented to the new government

Field Labs

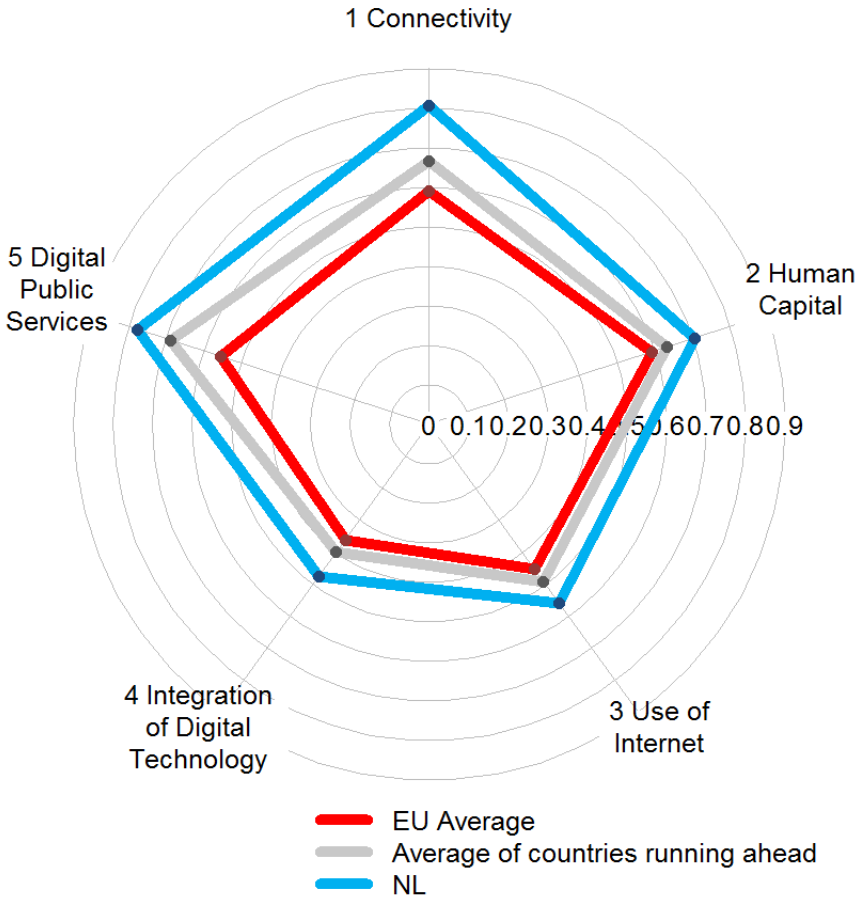
- The **number of field labs** increased from 9 to 30 (Summer 2017) and it is expected to amount to more than 35
- In March 2017 the Ministry launched a call for application for funding a **third tranch of fieldlabs** with a budget of **14,5m EUR**

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

The Netherlands' performance in the DESI 2016

The Netherlands ranks 2 among EU countries.

It is part of the group of countries that are running ahead.

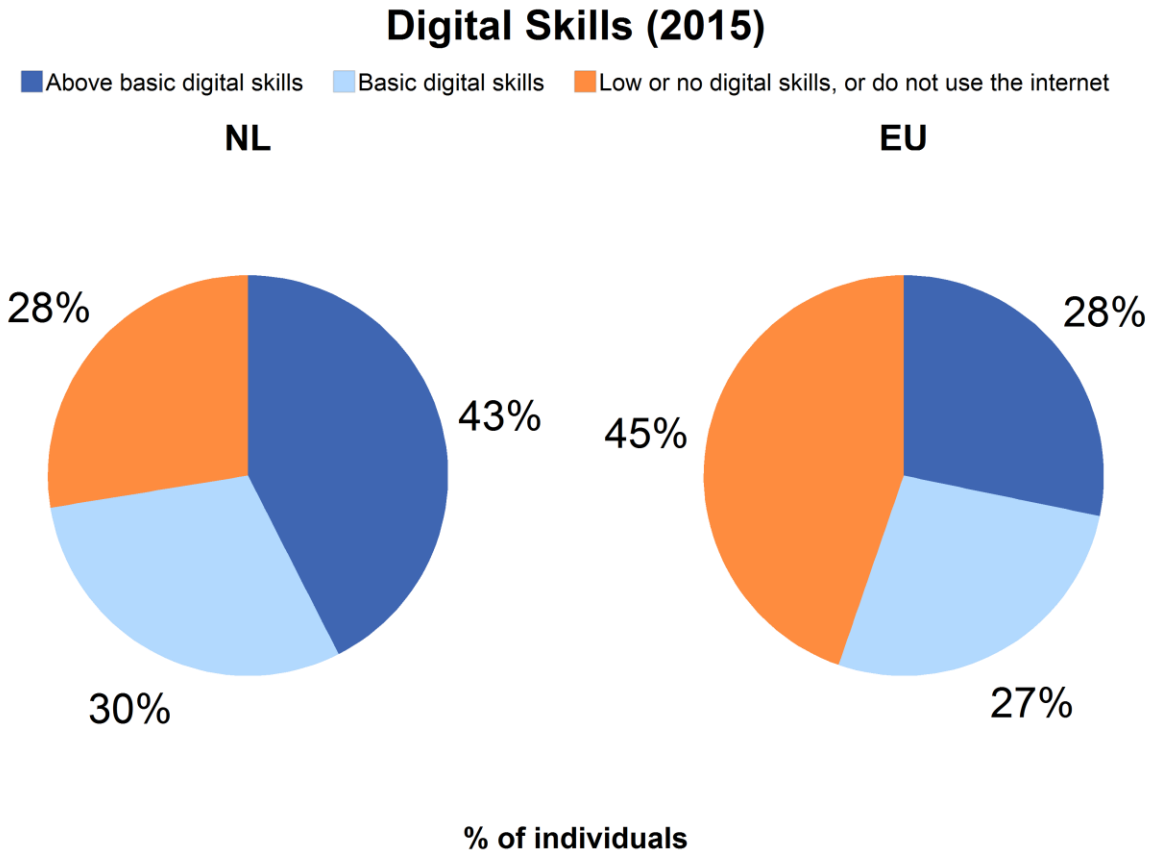


Digital Scoreboard 2016

https://ec.europa.eu/digital-single-market/en/scoreboard/netherlands

Human Capital: Digital Skills

In the Netherlands 30% of citizens have basic digital skills (27% in the EU) and 43% have above basic digital skills (28% in the EU).



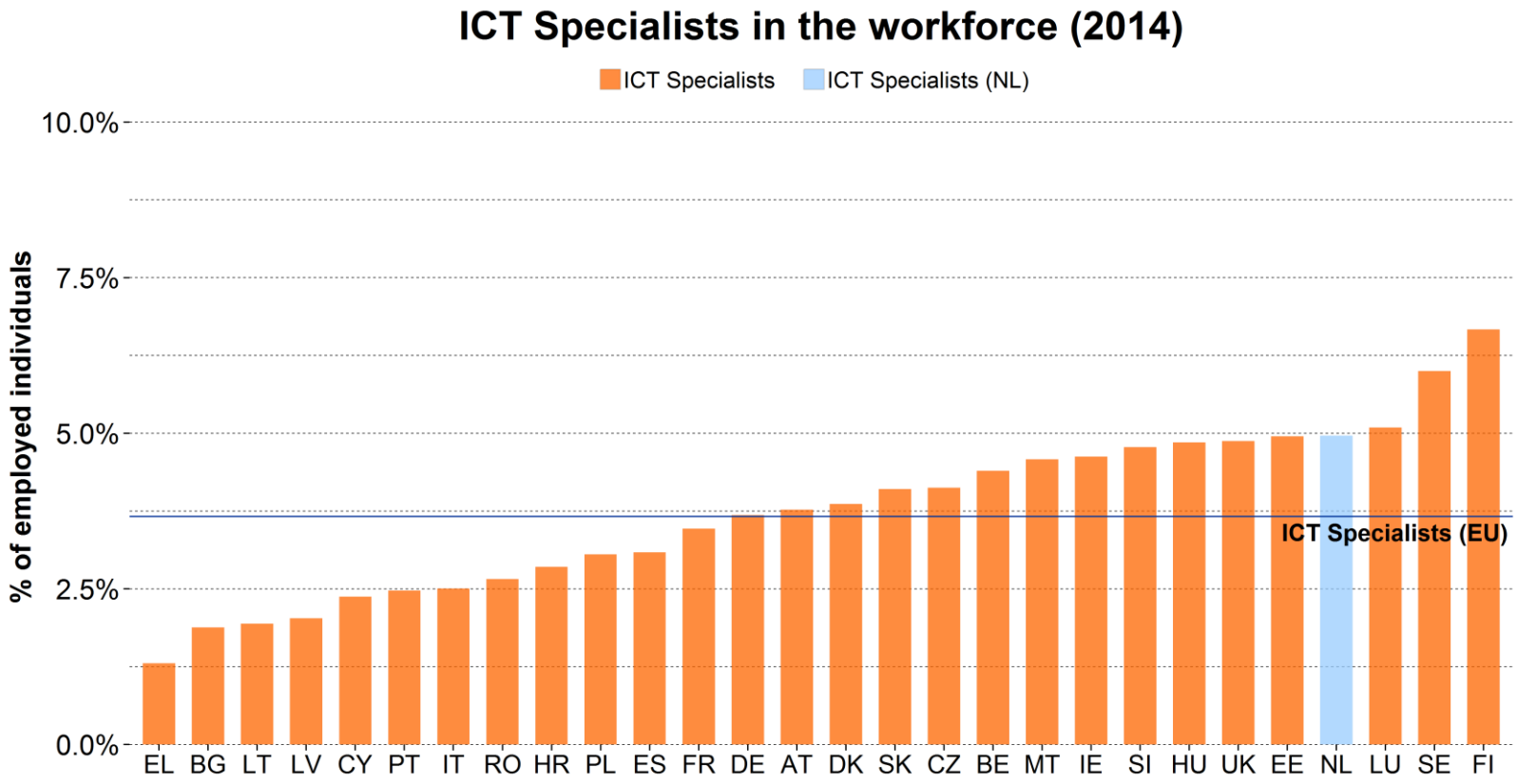
Digital Scoreboard 2016

https://ec.europa.eu/digital-single-market/en/scoreboard/netherlands

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

Human Capital: ICT Specialists in the workforce

In the Netherlands ICT Specialists account for 5% of the workforce (3.7% in the EU).



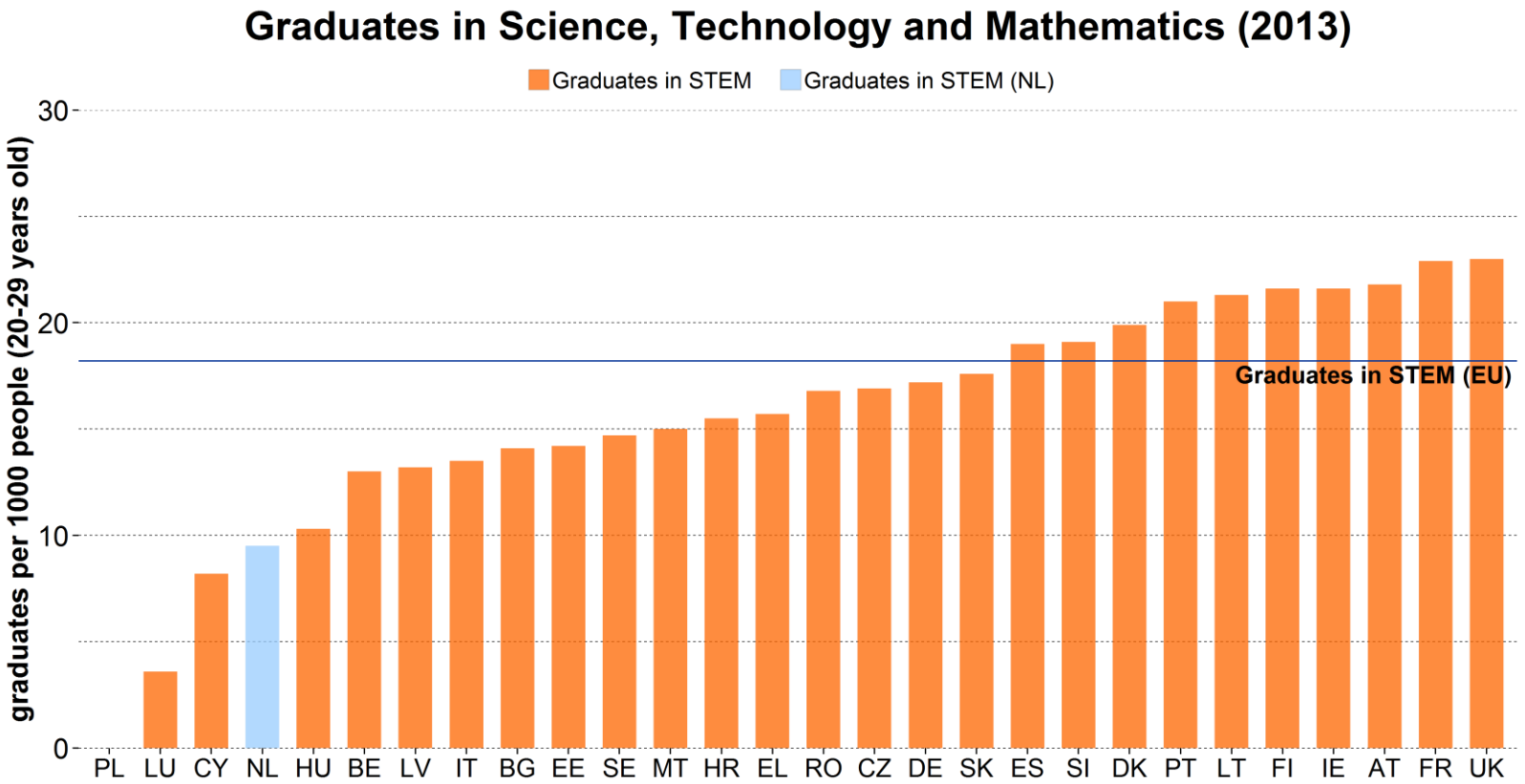
Digital Scoreboard 2016

https://ec.europa.eu/digital-single-market/en/scoreboard/netherlands

Source: Eurostat - Labour force survey

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

The Netherlands has 9.5 graduates in STEM per each 1000 people aged 20-29 years old (18 in the EU).



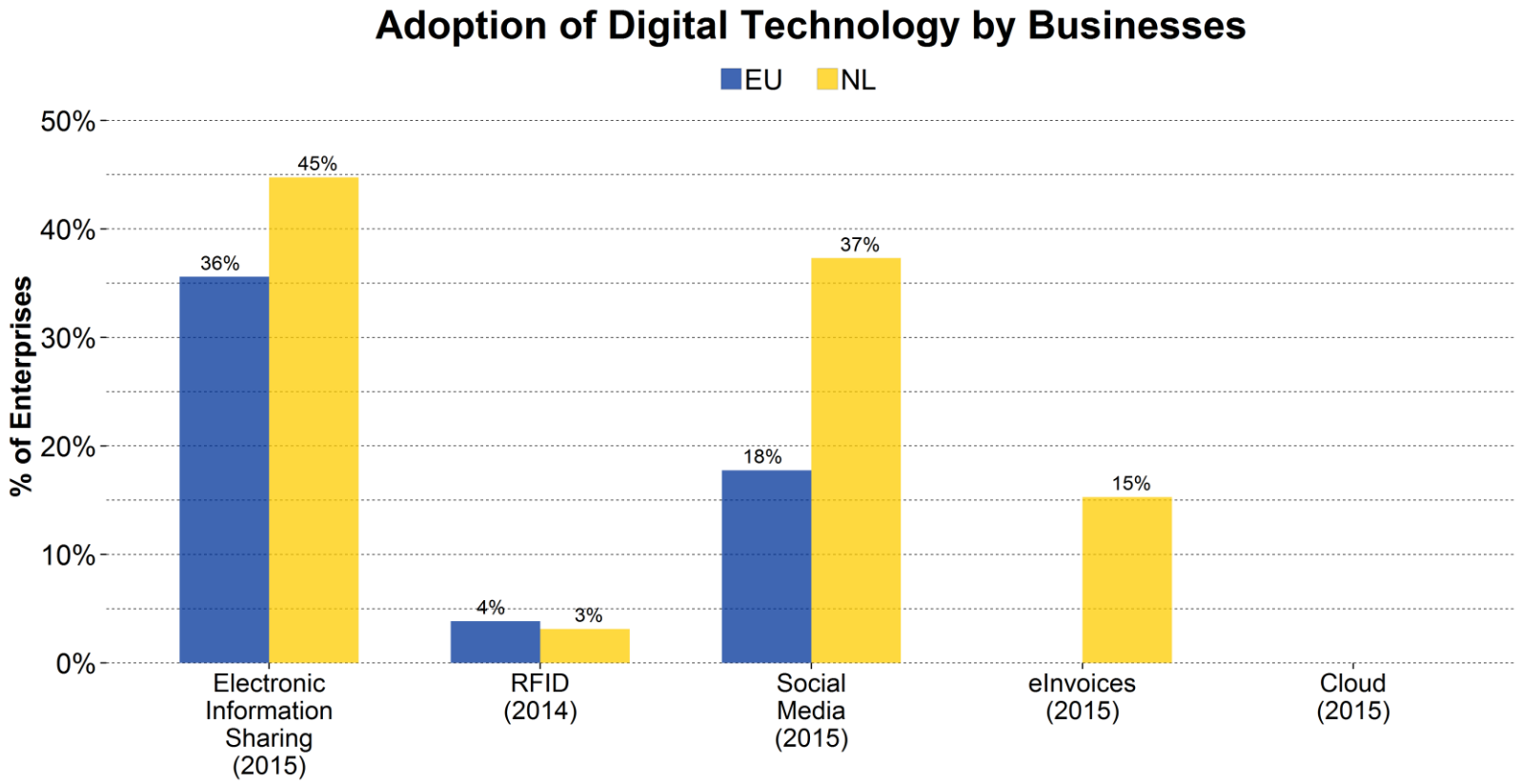
Digital Scoreboard 2016

https://ec.europa.eu/digital-single-market/en/scoreboard/netherlands

Source: Eurostat - Science and technology graduates

Integration of Digital Technology: Business digitization

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



Digital Scoreboard 2016

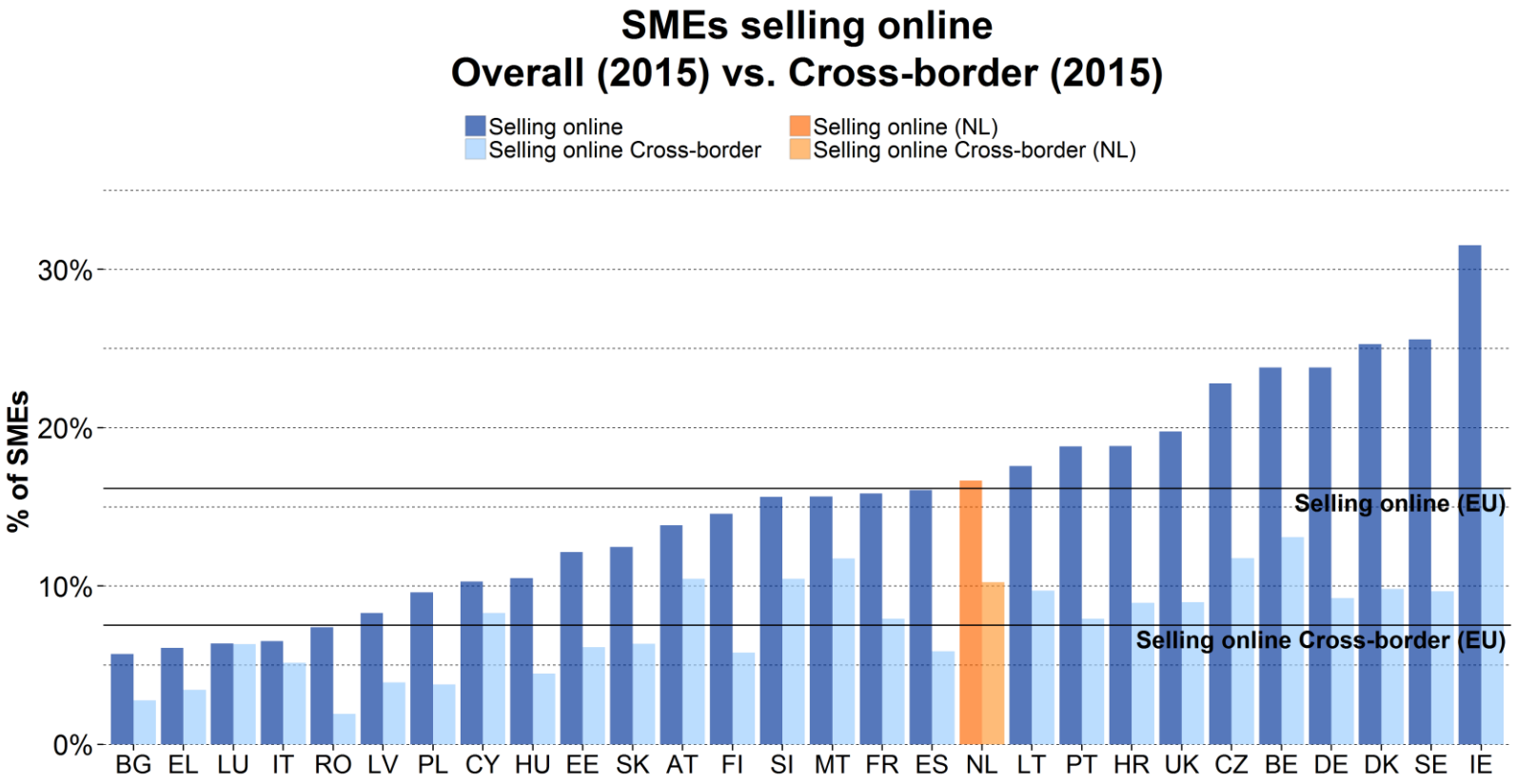
https://ec.europa.eu/digital-single-market/en/scoreboard/netherlands

Source: Eurostat - Community survey on ICT usage and eCommerce in Enterprises

Integration of Digital Technology: SMEs selling online

In the Netherlands 17% of SMEs sell online (16% in the EU).

10% of Dutch SMEs sell online to other EU countries (7.5% in the EU).



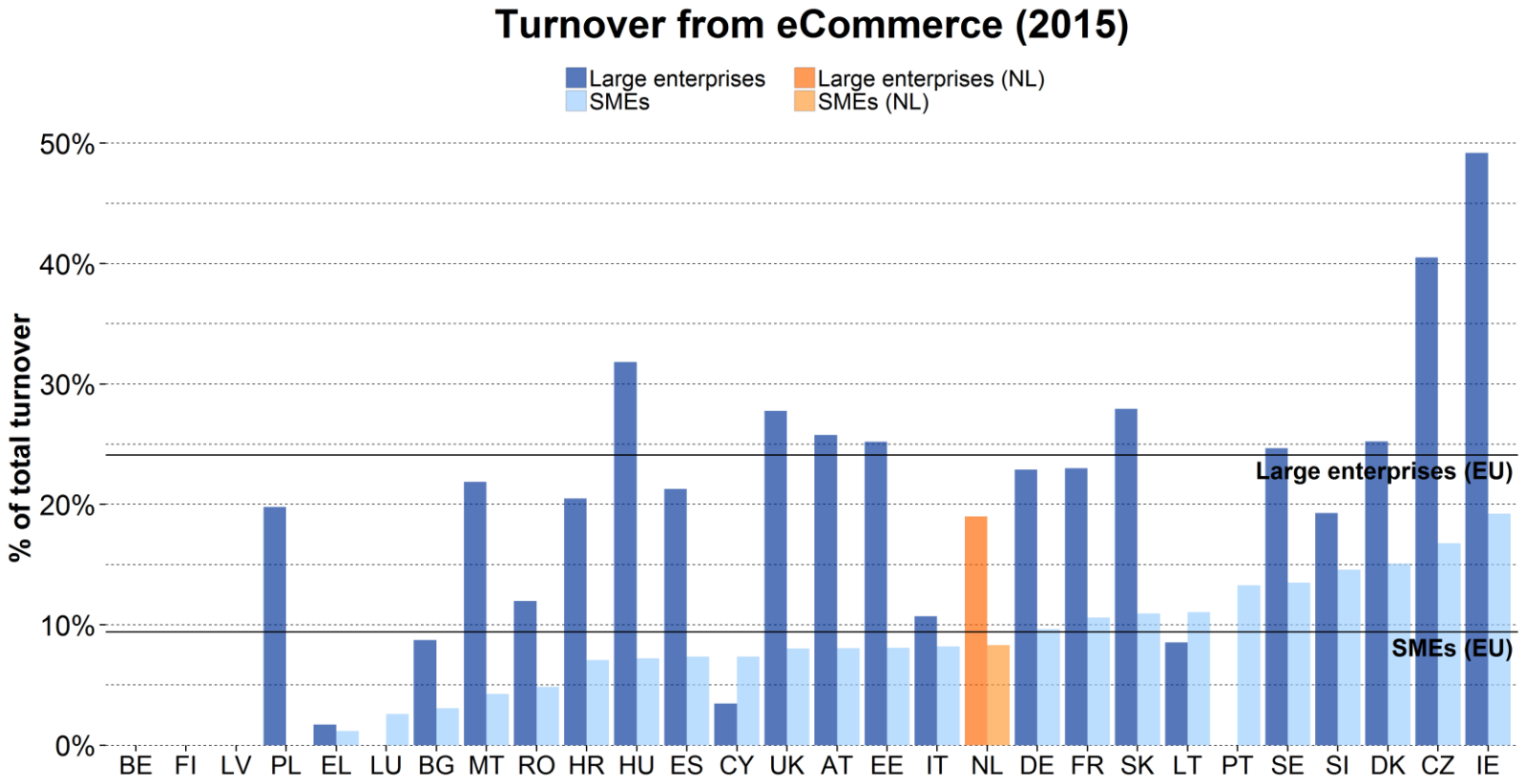
Digital Scoreboard 2016

https://ec.europa.eu/digital-single-market/en/scoreboard/netherlands

Source: Eurostat - Community survey on ICT usage and eCommerce in Enterprises

Integration of Digital Technology: SME Turnover from eCommerce

SMEs in the Netherlands obtain on average 8.3% of their turnover from eCommerce (9.4% in the EU). Large enterprises derive on average 19% of their turnover from eCommerce (24% in the EU).



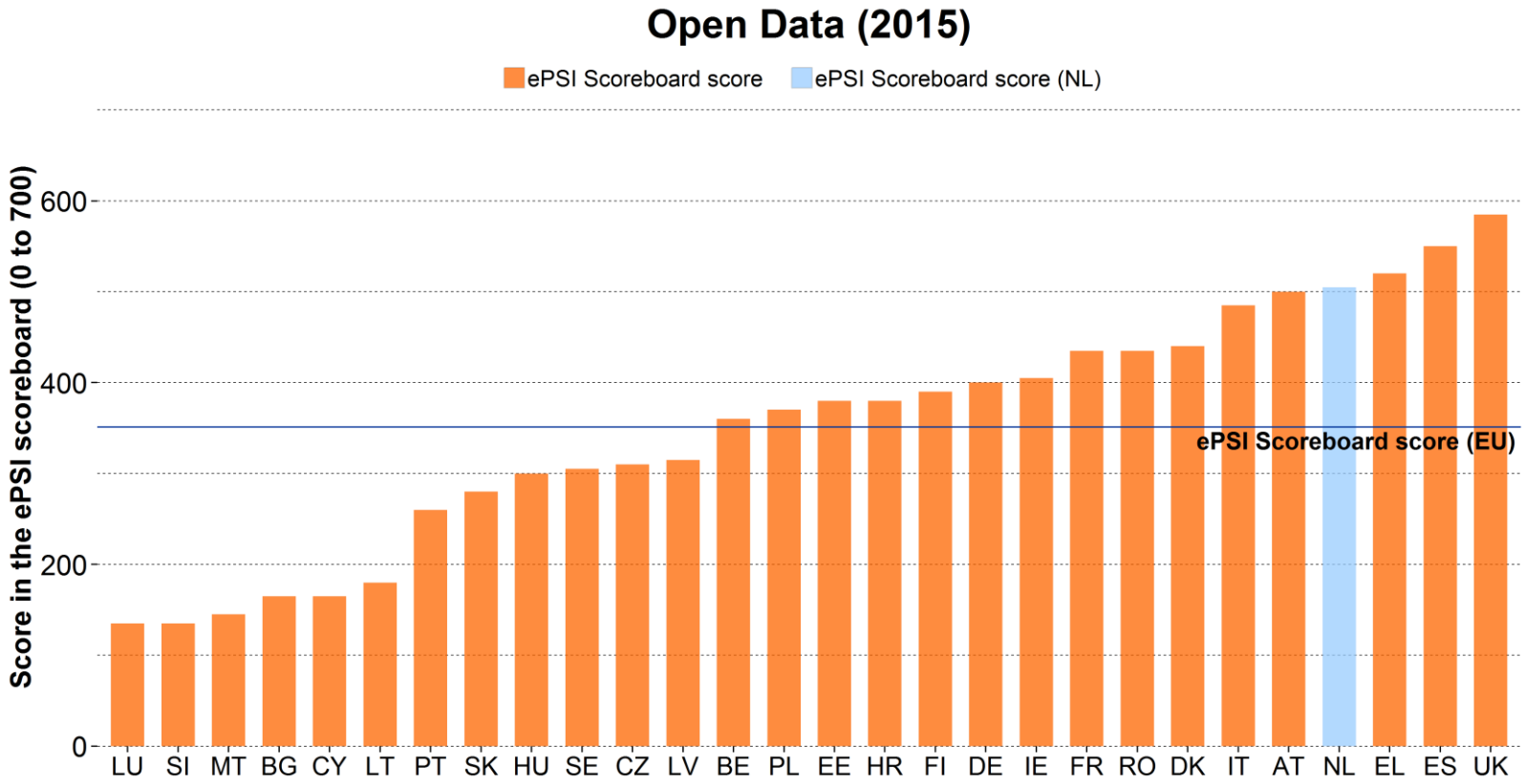
Digital Scoreboard 2016

https://ec.europa.eu/digital-single-market/en/scoreboard/netherlands

Source: Eurostat - Community survey on ICT usage and eCommerce in Enterprises

Digital Public Services: Open Data

The Netherlands scores 505 out of 700 in the European Public Sector Information scoreboard, against an overall score of 351 out of 700 for the European Union.

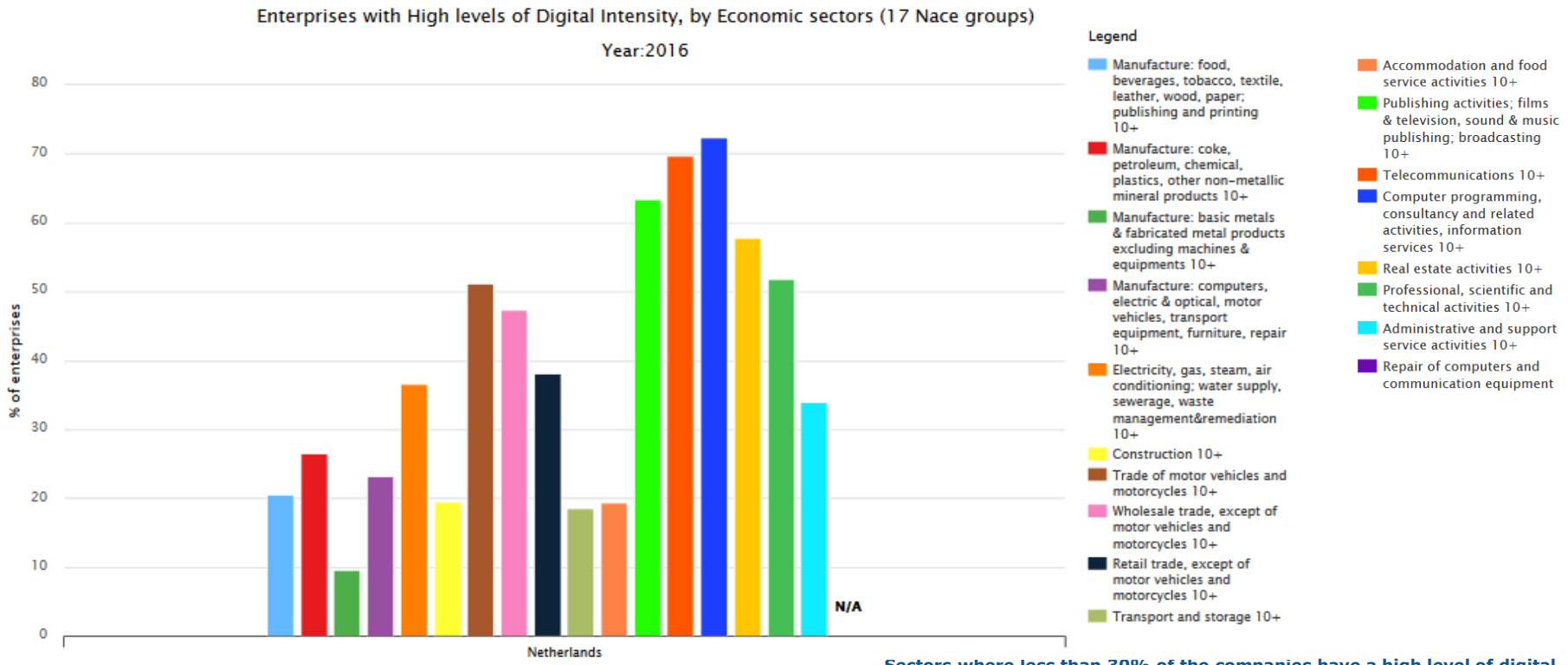


Digital Scoreboard 2016

https://ec.europa.eu/digital-single-market/en/scoreboard/netherlands

Source: The Public Sector Information Scoreboard is a 'crowdsourced' tool to measure the status of Open Data and PSI re-use throughout the EU.

Enterprises with high level of Digital Intensity by economic sectors in the Netherlands



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

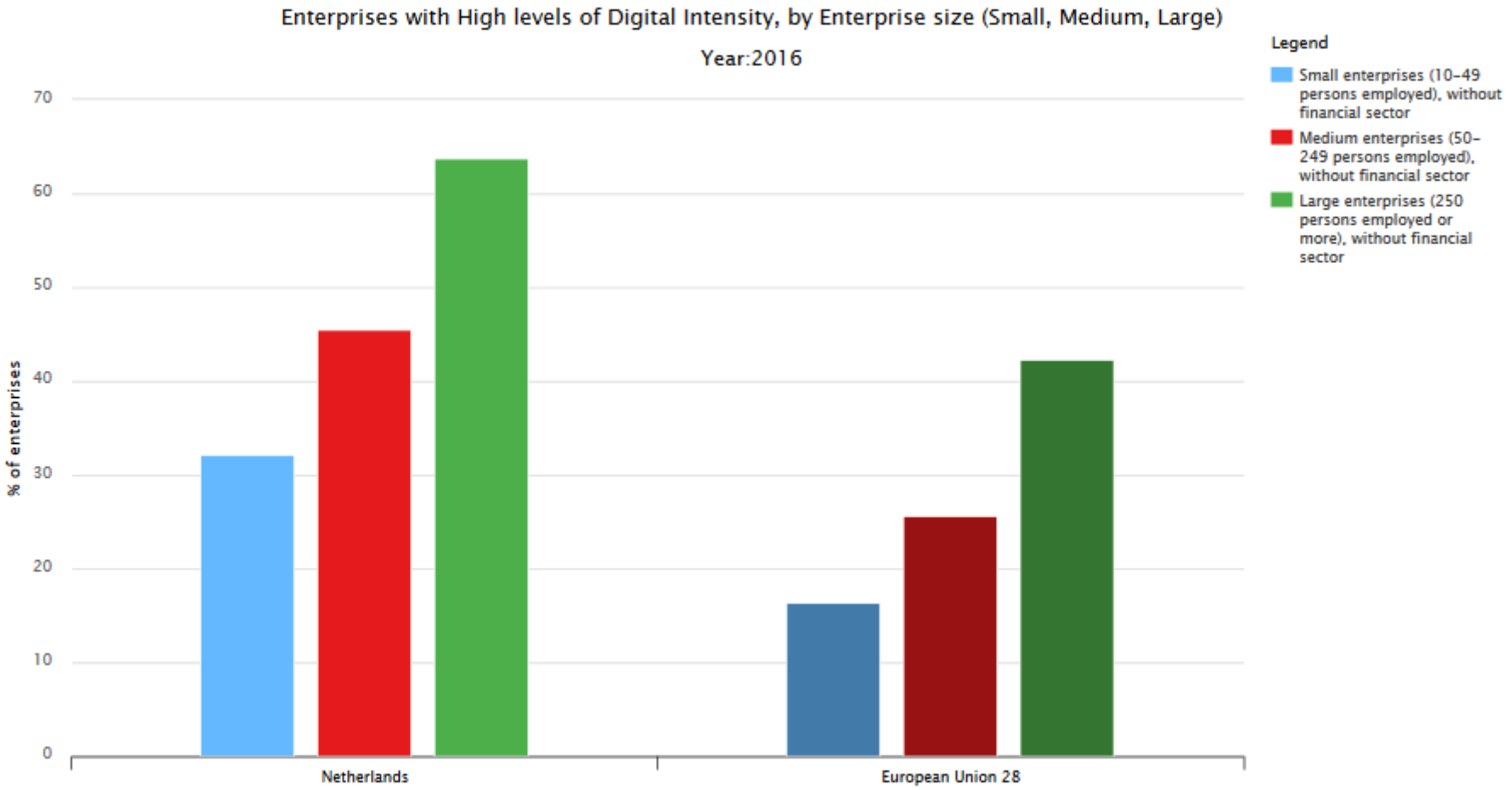
- Electricity, gas, steam, air conditioning; water supply, sewerage, waste management & remediation
- Trade of motor vehicles and motorcycles 10+
- Wholesale trade, except of motor vehicles and motorcycles 10+
- Retail trade, except of motor vehicles and motorcycles 10+
- Publishing activities; films & television; sounds & music publishing; broadcasting
- Telecommunications 10+
- Computer programming; consultancy and related activities
- Real estate activities 10+
- Professional, scientific and technical activities 10+
- Administrative and support service activities 10+

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+
- Construction 10+
- Transport and storage 10+
- Accommodation and food service activities 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:[%22NL%22]}

Enterprises with high levels of digital intensity, by Enterprise size

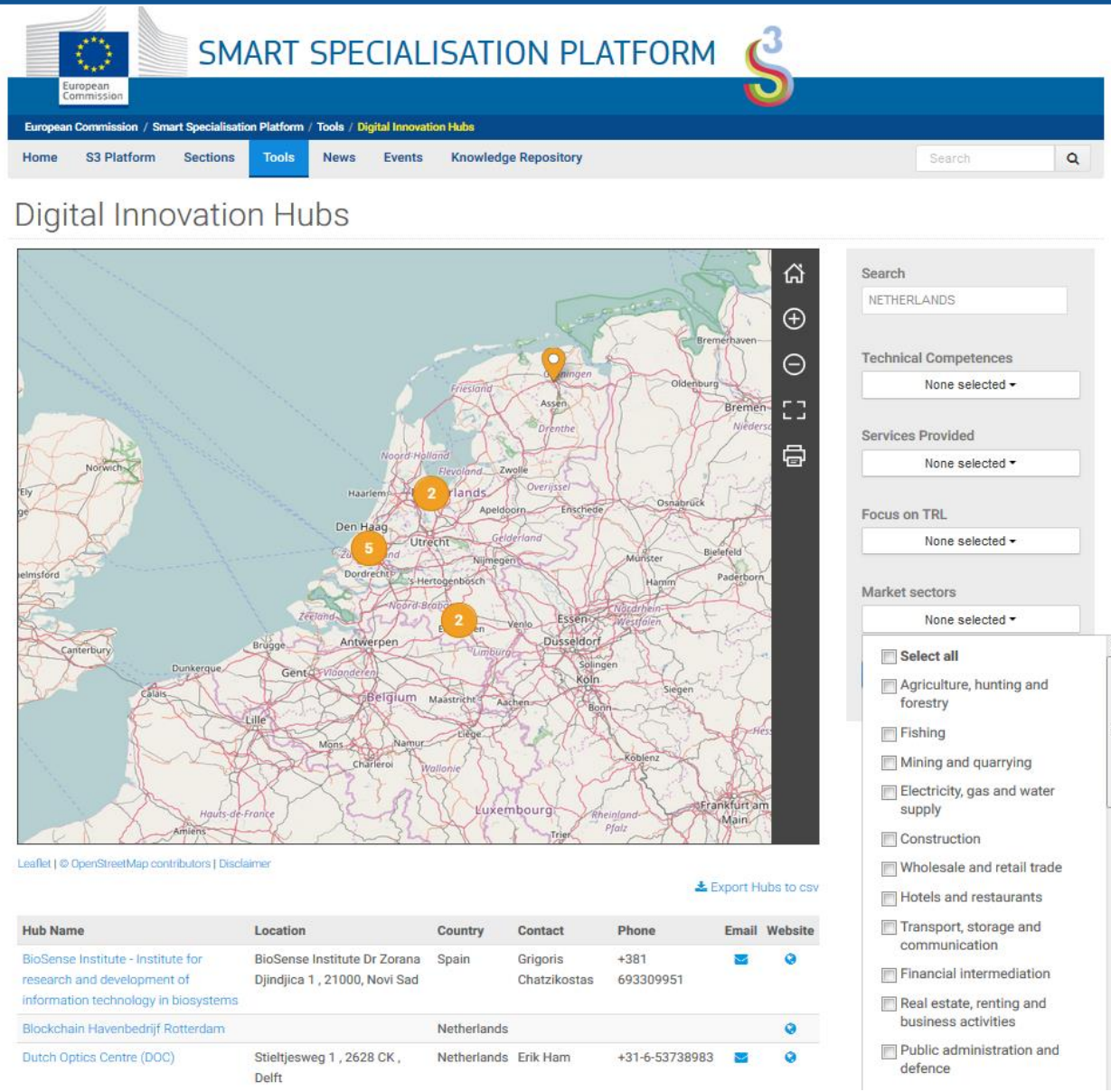


http://digital-agenda-data.eu/charts/analyse-one-indicator-and-compare-breakdowns#chart={%22indicator-group%22:%22ebusiness%22,%22indicator%22:%22e_di_hivhi%22,%22breakdown-group%22:%22byENTsize_s_m_l%22,%22unit-measure%22:%22pc_ent%22,%22time-period%22:%222016%22,%22ref-area%22:[%22EU28%22,%22NL%22]}

Digital Innovation Hubs Catalogue
The Netherlands case

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

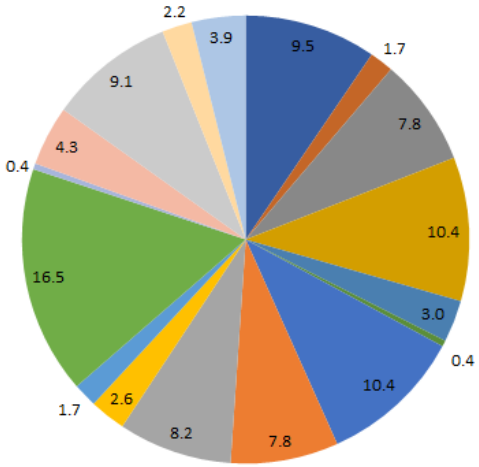
JRC-B3-DIH@ec.europa.eu

The Catalogue of Digital Innovation Hubs was created by TNO in cooperation with JRC of the European Commission

Services provided and types of customers supported by DIHs in the Netherlands - Analysis

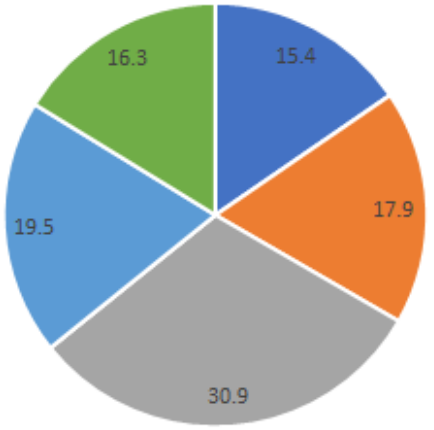
European Commission

Types of services provided (%)



- Concept validation and prototying
- Awareness creation
- Commercial infrastructure
- Ecosystem building, scouting, brokerage, networking
- Incubator/accelerator support
- Mentoring
- Other (description)
- Testing and validation
- Voice of the customer, product consortia
- Access to Funding and Investor Readiness Services
- Collaborative Research
- Digital Maturity Assessment
- Education and skills development
- Market intelligence
- N/A
- Pre-competitive series production
- Visioning and Strategy Development for Businesses

Types of customers supported (%)



- Large companies, multi-nationals
- N/A
- SMEs (<250 employees)
- MidCaps (between €2-10 billion turnover)
- Research organisations
- Start-up companies

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 the Netherlands 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	XS2I4MS	30	28/02/2018	BRAINPORT DEVELOPMENT NV	PARTICIPANT	BPD	PRIVATE	No
FoF-09-2015	XS2I4MS	30	28/02/2018	NEDERLANDSE ORGANISATIE VOOR TOEGEPAST NATUURWETENSCHAPPELIJK ONDERZOEK TNO	COORDINATOR	TNO	PUBLIC	Yes
FoF-09-2015	Fortissimo 2	36	31/10/2018	NAWIJN MARCO	PARTICIPANT	COLOSSO	INDIVIDUAL	No
FoF-09-2015	Fortissimo 2	36	31/10/2018	SURFSARA BV	PARTICIPANT	SURFSARA	PRIVATE	No
FoF-09-2015	Fortissimo 2	36	31/10/2018	KE-WORKS BV	PARTICIPANT	KEWORKS	PRIVATE	No
FoF-09-2015	HORSE	54	30/04/2020	THOMAS REGOUT INTERNATIONAL BV	PARTICIPANT	TRI	PRIVATE	No
FoF-09-2015	HORSE	54	30/04/2020	TECHNISCHE UNIVERSITEIT EINDHOVEN	PARTICIPANT	TUE	PUBLIC	No
FoF-09-2015	HORSE	54	30/04/2020	NEDERLANDSE ORGANISATIE VOOR TOEGEPAST NATUURWETENSCHAPPELIJK ONDERZOEK TNO	PARTICIPANT	TNO	PUBLIC	Yes
FOF-12-2017	AMable	48	31/08/2021	CISCO SYSTEMS INTERNATIONAL B. V.	PARTICIPANT	CISCO	PRIVATE	N/A
FOF-12-2017	AMable	48	31/08/2021	NEDERLANDSE ORGANISATIE VOOR TOEGEPAST NATUURWETENSCHAPPELIJK ONDERZOEK TNO	PARTICIPANT	TNO	PUBLIC	Yes
ICT-01-2014	EuroCPS	36	31/01/2018	VERENIGING HIGH TECH NL	PARTICIPANT	HIGH TECH NL	PRIVATE	No
ICT-04-2017	TETRAMAX	48	31/08/2021	TECHNISCHE UNIVERSITEIT DELFT	PARTICIPANT	TUDELFT	PUBLIC	Yes
ICT-04-2017	Smart4Europe	24	31/08/2019	THHINK BV	PARTICIPANT	THHINK BV	PRIVATE	No
ICT-04-2017	SmartEEs	36	13/09/2020	NEDERLANDSE ORGANISATIE VOOR TOEGEPAST NATUURWETENSCHAPPELIJK ONDERZOEK TNO	PARTICIPANT	TNO	PUBLIC	Yes

Competence centers/DIHs funded by EU projects in the Netherlands in FP7 [1-2]

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	DELTARES	STICHTING DELTARES	Participant	REC
609029	FORTISSIMO	42	01-Jul-2013	31-Dec-2016	123	SCM	Scientific Computing & Modelling N.V.	Participant	PRC
609029	FORTISSIMO	42	01-Jul-2013	31-Dec-2016	123	KEW	KE-WORKS BV	Participant	PRC
609029	FORTISSIMO	42	01-Jul-2013	31-Dec-2016	123	VORTECH	VORTECH BV	Participant	PRC
609029	FORTISSIMO	42	01-Jul-2013	31-Dec-2016	123	HKV	HKV LIJN IN WATER BV	Participant	PRC
609029	FORTISSIMO	42	01-Jul-2013	31-Dec-2016	123	SARA	SURFSARA BV	Participant	PRC
609029	FORTISSIMO	42	01-Jul-2013	31-Dec-2016	123	DRG	DYNAFLOW RESEARCH GROUP BV	Participant	PRC
609029	FORTISSIMO	42	01-Jul-2013	31-Dec-2016	123	IONIQA	IONIQA TECHNOLOGIES BV	Participant	PRC
609029	FORTISSIMO	42	01-Jul-2013	31-Dec-2016	123	EAL	ELECTRIC ANT LAB BV	Participant	PRC

Competence centers/DIHs funded by EU projects in the Netherlands in FP7 [2-2]

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
609046	LASHARE	48	01-Sep-2013	31-Aug-2017	69	VECO	VECO BV	Participant	PRC
609355	APPOLO	48	01-Sep-2013	31-Aug-2017	36	Lightmotif	Lightmotif B.V.	Participant	PRC
609355	APPOLO	48	01-Sep-2013	31-Aug-2017	36	SKF	SKF BV	Participant	PRC
609355	APPOLO	48	01-Sep-2013	31-Aug-2017	36	NST	NEXT SCAN TECHNOLOGY BV	Participant	PRC
288881	COLAE	36	01-Sep-2011	31-Aug-2014	19	KMC	KEY MANAGEMENT CONSULT B.V.	Participant	PRC
288881	COLAE	36	01-Sep-2011	31-Aug-2014	19	TNO	NEDERLANDSE ORGANISATIE VOOR TOEGEPAST NATUURWETENSCHAPPELIJK ONDERZOEK - TNO	Participant	REC
619205	ACTPHAST	48	01-Nov-2013	31-Oct-2017	24	TU/e	TECHNISCHE UNIVERSITEIT EINDHOVEN	Participant	HES
619205	ACTPHAST	48	01-Nov-2013	31-Oct-2017	24	LIO	LIONIX BV	Participant	PRC
619205	ACTPHAST	48	01-Nov-2013	31-Oct-2017	24	TNO	NEDERLANDSE ORGANISATIE VOOR TOEGEPAST NATUURWETENSCHAPPELIJK ONDERZOEK TNO	Participant	REC
619205	ACTPHAST	48	01-Nov-2013	31-Oct-2017	24	SPH	SMART PHOTONICS BV	Participant	PRC
601116	ECHORD Plus Plus	60	01-Oct-2013	30-Sep-2018	107	WU	WAGENINGEN UNIVERSITY	Participant	HES
601116	ECHORD Plus Plus	60	01-Oct-2013	30-Sep-2018	107	AVU	AVULAR BV	Participant	PRC

Clusters in the Netherlands

European Commission

EUROPEAN CLUSTER COLLABORATION PLATFORM .eu

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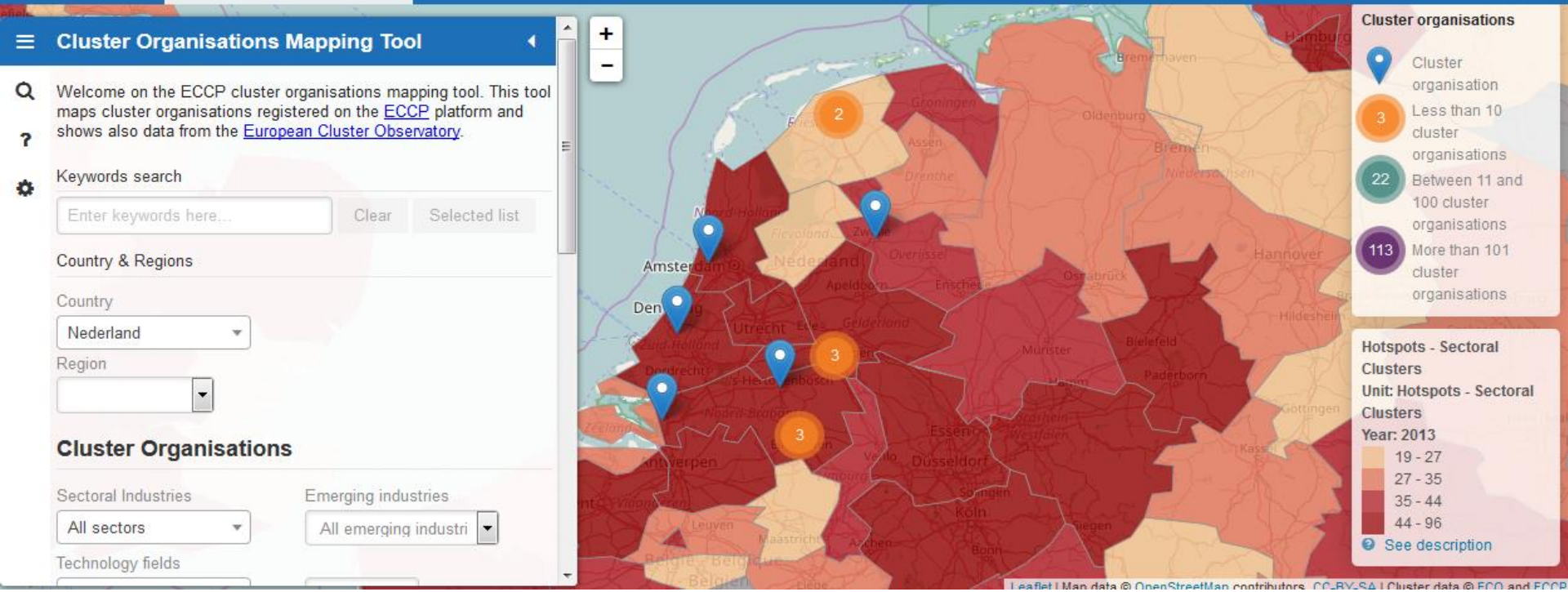
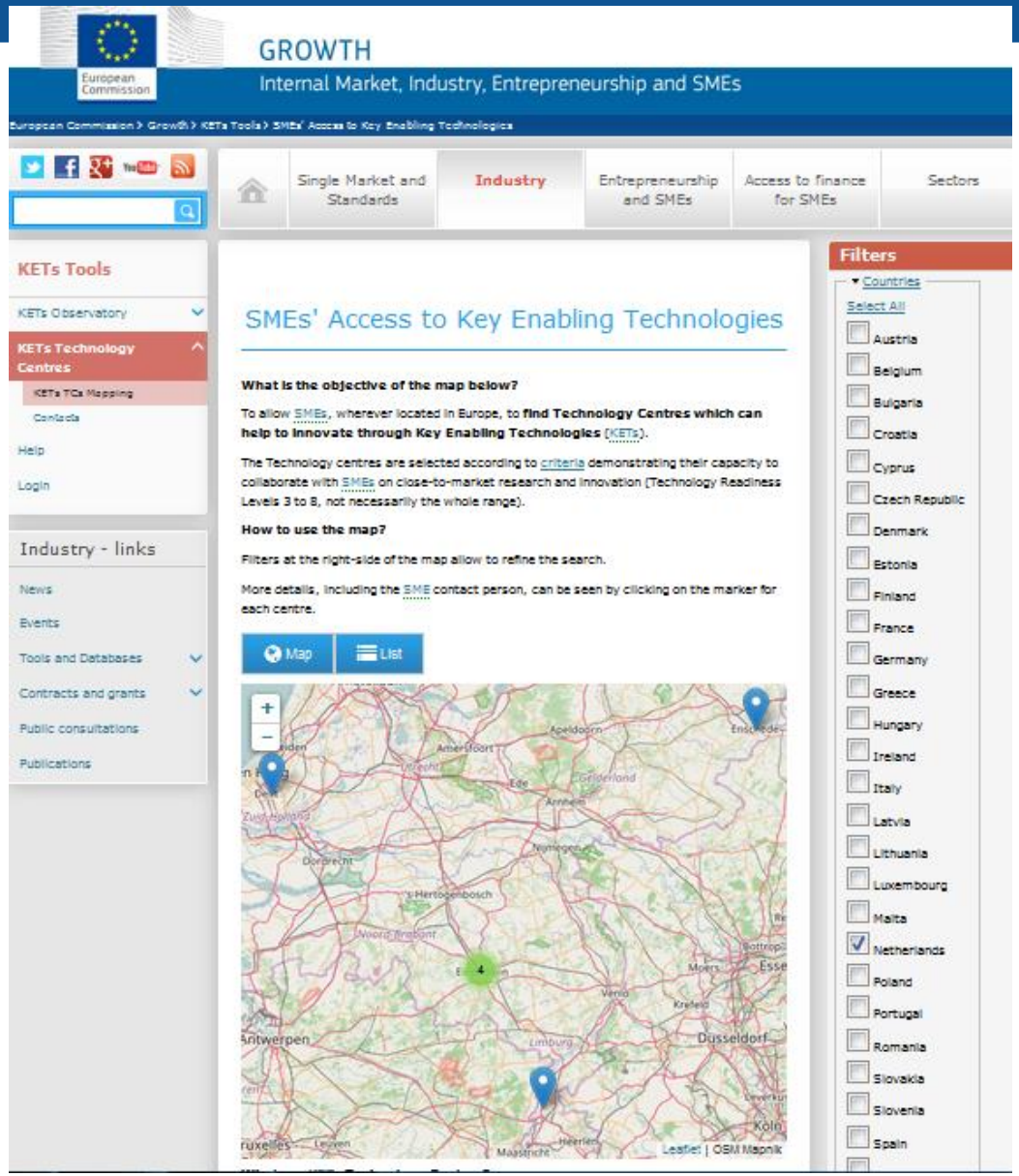


https://www.clustercollaboration.eu/print/cluster-list?combine=&country_code=nl

Please see WG1 report

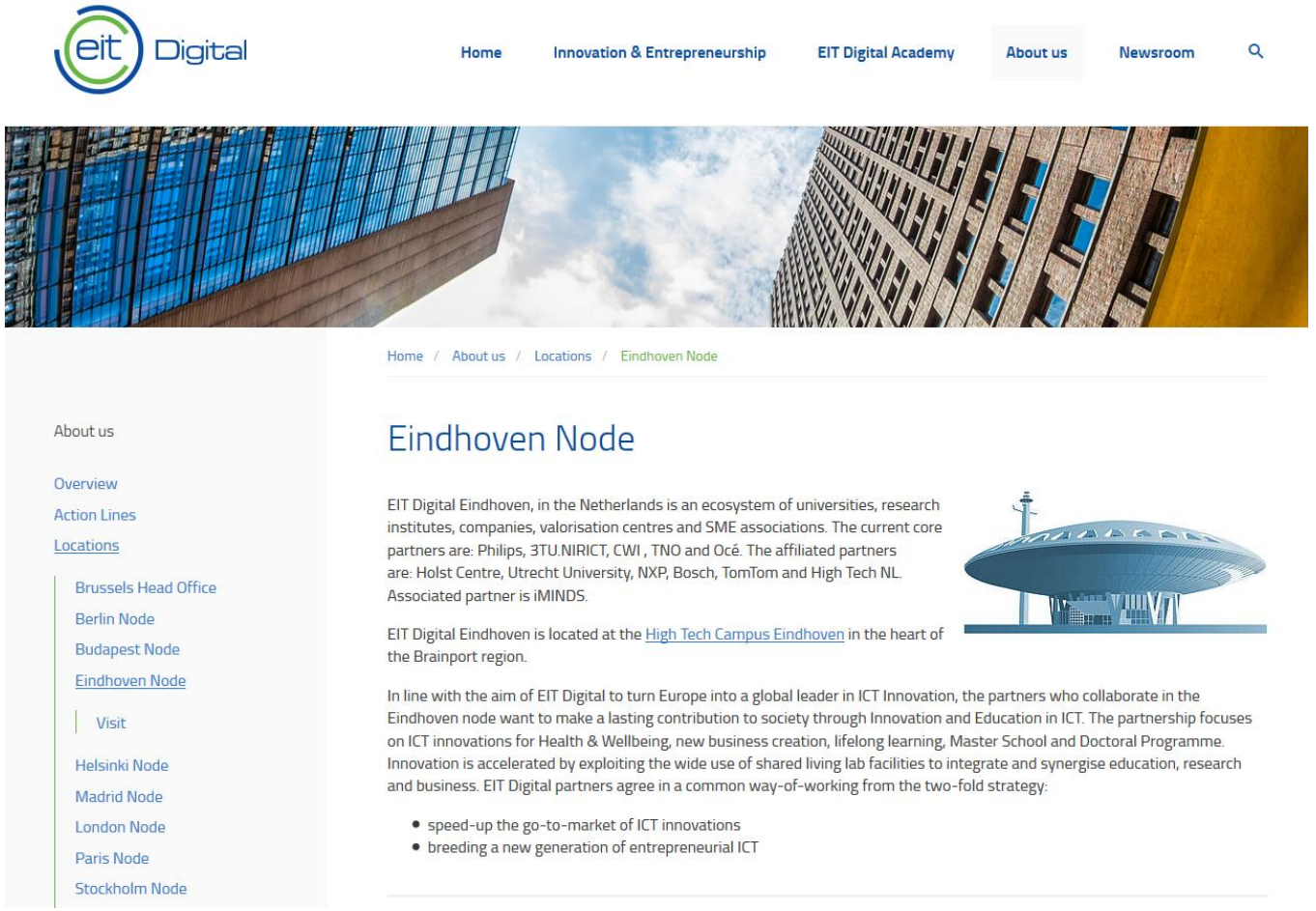
KETs in the Netherlands



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

eit Digital Co-Location Centres

eit Digital Co-Location Centre in Eindhoven



https://www.eitdigital.eu/about-us/locations/eindhoven-node/

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

Pilot Lines in Nanotechnology and Advanced Materials [1-2]

Project Number	Project Acronym	Project Title	Project Start Date	Project End Date	Participant Legal Name	Participant Short Name	Sectors	Pilot line
645993	CO-PILOT	Flexible Pilot Scale Manufacturing of Cost-Effective Nanocomposites through Tailored Precision Nanoparticles in Dispersion	01/01/2015	31/12/2017	IONIQA TECHNOLOGIES BV	Ioniqa Technologies B V		
645993	CO-PILOT	Flexible Pilot Scale Manufacturing of Cost-Effective Nanocomposites through Tailored Precision Nanoparticles in Dispersion	01/01/2015	31/12/2017	KRIYA MATERIALS BV	Kriya Materials		
645993	CO-PILOT	Flexible Pilot Scale Manufacturing of Cost-Effective Nanocomposites through Tailored Precision Nanoparticles in Dispersion	01/01/2015	31/12/2017	NEDERLANDSE ORGANISATIE VOOR TOEGEPAST NATUURWETENSCHAPPELIJK ONDERZOEK TNO	NETHERLANDS ORGANISATION FORAPPLIED SCIENTIFIC RESEARCH	Aerospace, aviation, automotive, food, pharmaceutical, electronics packaging, electrical and electronic goods, sporting goods, medicine	Pilot line 15 liter stirred reactor, centrifuge
645993	CO-PILOT	Flexible Pilot Scale Manufacturing of Cost-Effective Nanocomposites through Tailored Precision Nanoparticles in Dispersion	01/01/2015	31/12/2017	STICHTING NANOHOUSE	NanoHouse		
646122	MACIVIVA	MAnufacturing process for Cold-chain Independent VIrosome-based VAccines	04/05/2015	03/11/2018	MYMETICS BV	MYMETICS BV		
646142	NanoPilot	A Pilot Plant for the Production of Polymer based Nanopharmaceuticals in Compliance with GMP	01/01/2015	31/12/2018	CHEMTRIX BV	Chemtrix		
646296	Hi-Response	Innovative High Resolution Electro-Static printing of Multifunctional Materials.	01/03/2015	31/08/2018	NEDERLANDSE ORGANISATIE VOOR TOEGEPAST NATUURWETENSCHAPPELIJK ONDERZOEK TNO	TNO		
685825	FAST	Functionally graded Additive Manufacturing scaffolds by hybrid manufacturing	01/12/2015	30/11/2019	POLYVATION BV	PV		

Pilot Lines in Nanotechnology and Advanced Materials [2-2]

Project Number	Project Acronym	Project Title	Project Start Date	Project End Date	Participant Legal Name	Participant Short Name	Sectors	Pilot line
685825	FAST	Functionally graded Additive Manufacturing scaffolds by hybrid manufacturing	01/12/2015	30/11/2019	UNIVERSITEIT MAASTRICHT	MU	Printing of a scaffold for bone reconstruction	HAM (Hybrid Additive Manufacturing) device demonstrator, tested in a pilot production of scaffold for bone regeneration
685937	DIMAP	Novel nanoparticle enhanced Digital Materials for 3D Printing and their application shown for the robotic and electronic industry	01/10/2015	30/09/2018	PHILIPS ELECTRONICS NEDERLAND B.V.	PHILIPS		
685937	DIMAP	Novel nanoparticle enhanced Digital Materials for 3D Printing and their application shown for the robotic and electronic industry	01/10/2015	30/09/2018	PHILIPS LIGHTING B.V.	PHILIPSL		
686163	POROUS4APP	PILOT PLANT PRODUCTION OF CONTROLLED DOPED NANOPOROUS CARBONACEOUS MATERIALS FOR ENERGY AND CATALYSIS APPLICATIONS	01/03/2016	29/02/2020	BLUEPRIME BV	Blueprime		
646122	MACIVIVA	MAnufacturing process for Cold-chain Independent VIrosome-based VAccines	04/05/2015	03/11/2018	MYMETICS BV	MYMETICS BV		

Planned investments, allocated resources, in the Netherlands, 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: Netherlands

View a different country

Finances: Planned | Finances: Implemented | EU Payments | Achievements | Programmes

The Netherlands, through 7 national programmes, benefits from ESIF funding of EUR 1.9 billion. This represents an average of 112 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 Netherlands 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 Netherlands.

Total | EU | National

Country Budget for 2014-2020:

€3 731 622 015

FINANCES: PLANNED

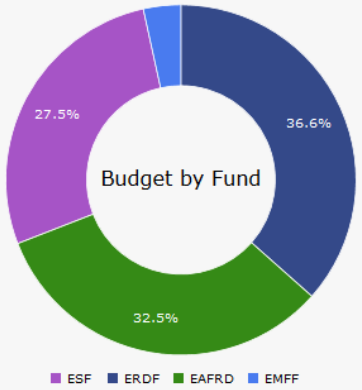
Total

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): Netherlands, EUR

Explore and Share this Data



Refresh Date: 21/8/2017

For further information please see WG1 report & https://cohesiondata.ec.europa.eu/countries/NL