

Digitising European Industry: A key role for Digital Innovation Hubs in the regions



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DIGITISING EUROPEAN INDUSTRY

European Commission proposal



What is this about?

Measures that enable all sectors to benefit from digital innovation

Foreseen Activities:

Mainstreaming digital innovations across all sectors

Strengthening leadership in digital technologies

Preparing people for the digital age

Regulatory framework

Coordination of various initiatives - MS, regional, EU

Pool resources, avoid fragmentation, support DSM



#DigitiseEU

“

Europe will only be able to maintain its leading role if the digitisation of its industry is successful and reached fast.

Günther H. Oettinger
@GOettingerEU

Digital Single Market

”

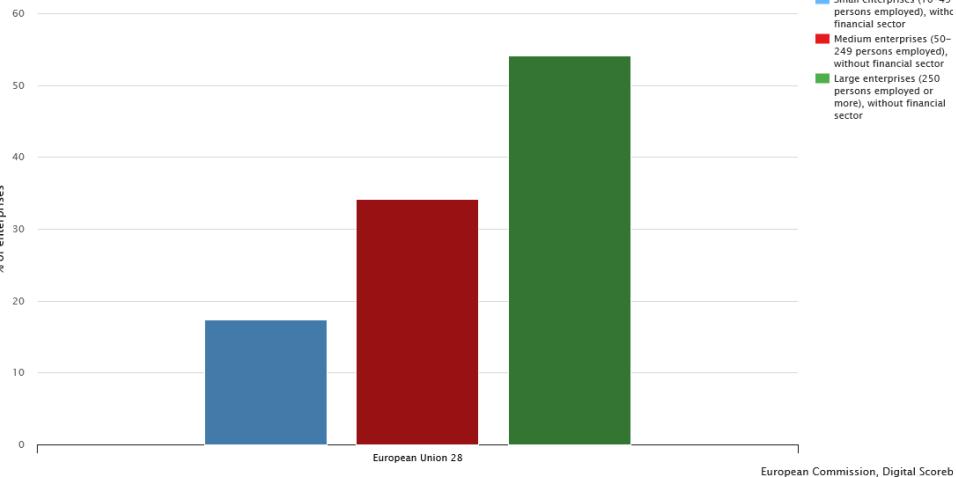
<http://ec.europa.eu/digital-agenda/en/digitising-european-industry>



Level of digitisation differs according to region, size of company, sector

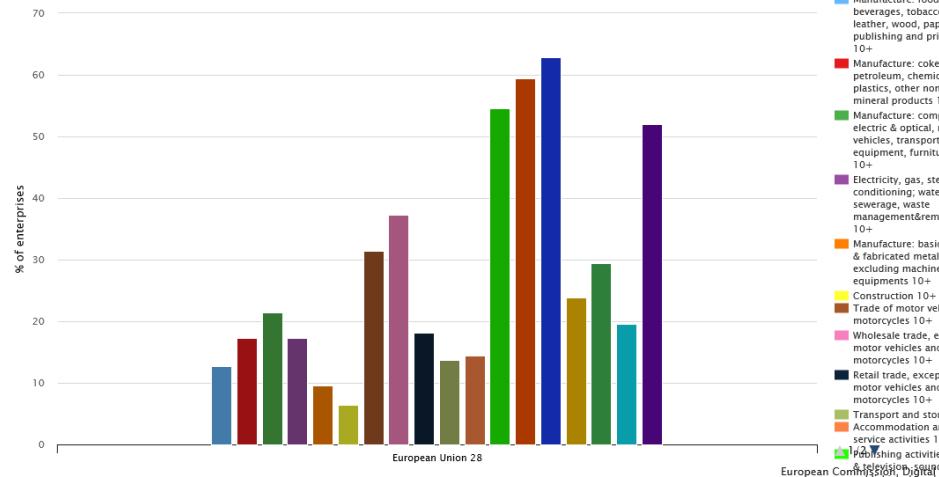
Enterprises with High levels of Digital Intensity, by Enterprise size (Small, Medium, Large)

Year: 2015



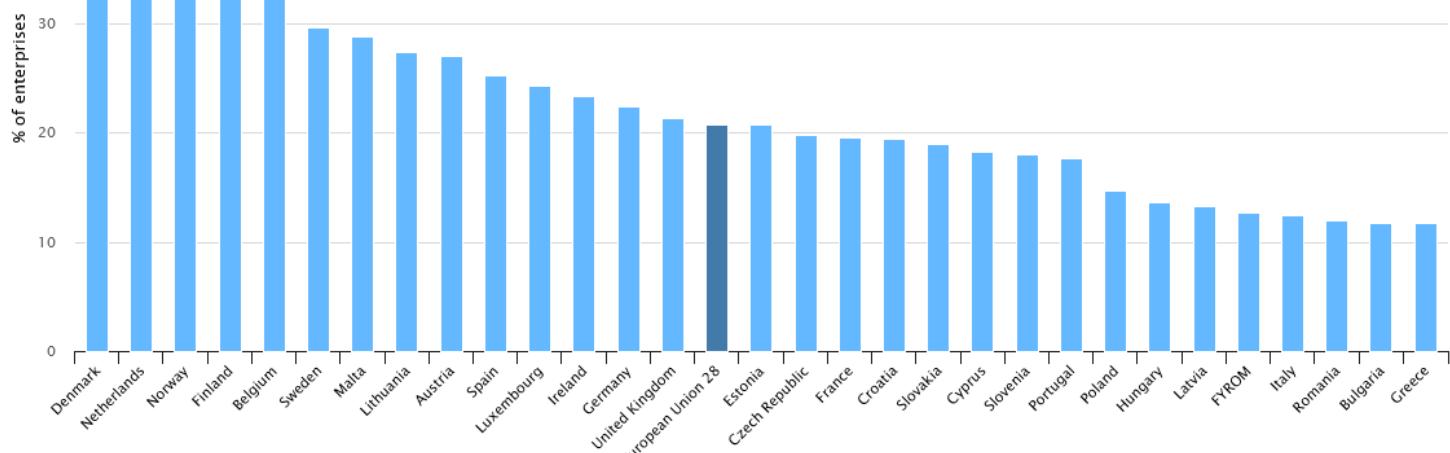
Enterprises with High levels of Digital Intensity, by Economic sectors (17 Nace groups)

Year: 2015

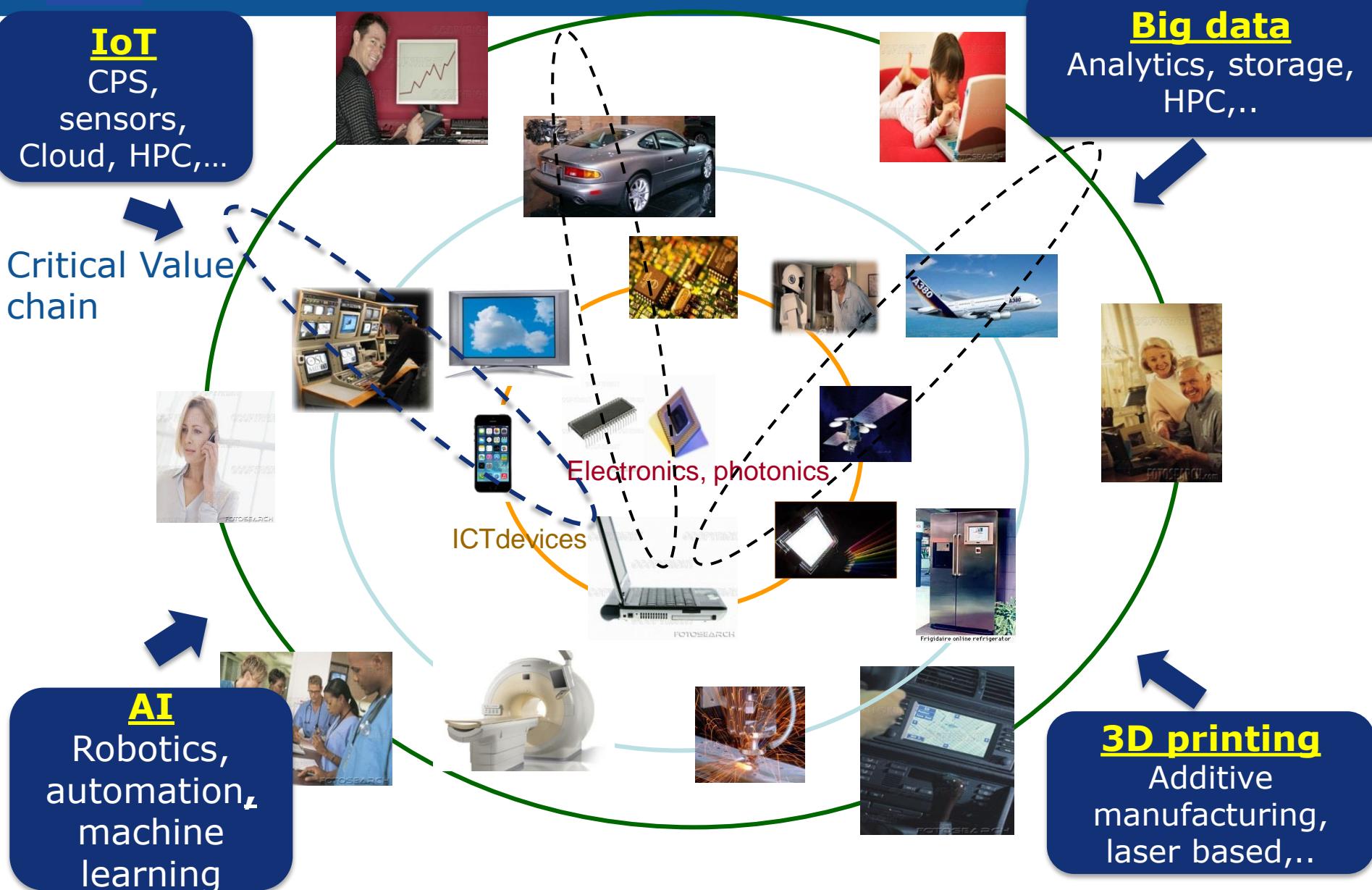


European Commission, Digital Scoreb

European Commission, Digital Scoreb



Digital value chains across all sectors



Target: Access to digital technologies and expertise

- within "working distance"
- for any industry in Europe
- with a focus on: SMEs, mid-caps, non-tech

How:

- "Digital Innovation Hubs" across Europe :
 - Provide industry with access to technology, expertise, testing,... based on world-class specialised competence centre
 - In line with smart specialisation strategy
- Thematic smart specialisation platform on industrial modernisation
 - Support new partnerships for interregional joint demonstration
- Public procurement of innovations

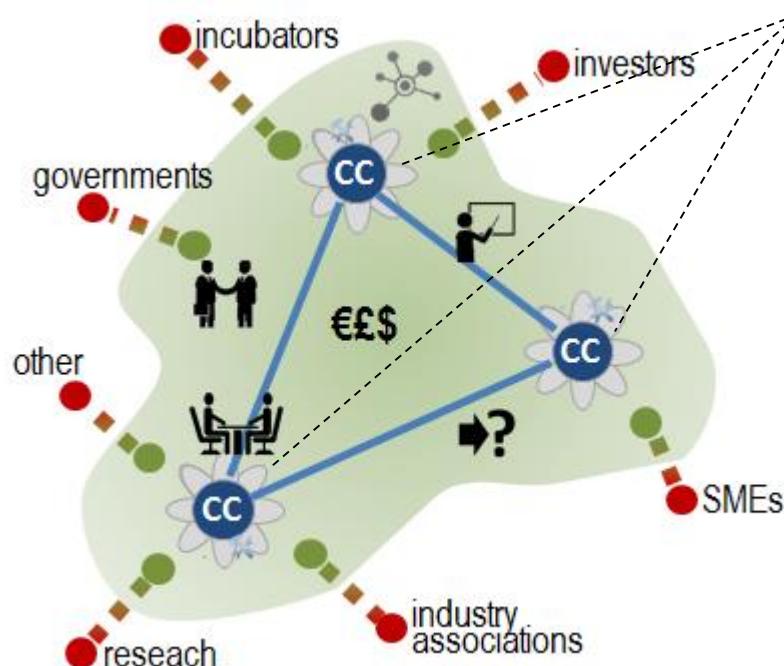
Competence Centres are the core of Digital Innovation Hubs

Digital Innovation Hubs focus on mixing technological competences within an ecosystem delivering innovation services

DIGITAL INNOVATION HUB

Organised to provide services to industry

- Access to competence centres
- Development of innovation ecosystem
- Brokerage
- Access to finance
- Market intelligence
- Training and education
- Incubator/mentoring services



COMPETENCE CENTRE

Competences in Digital Technologies

- Provide access to infrastructure and technology platforms
- Provide digitisation and application expertise
- Support experimentation in real-life environments
- Support fabrication of new products
- Demonstrate best practices
- Showcase technologies in pilot factories, fab-labs

Regions/MSs

- Establish/**reinforce competence centres and DIHs**
 - Across Europe – specific support for regions without DIH
 - Implement relevant activities if needed (incentives, ...)
- Collaborate with** digital innovation hubs of **other regions**
 - to fill gaps and facilitate specialisation and excellence

Commission

- Support pan-European networking of Digital Innovation Hubs
 - Share best practices, success stories, training
 - Develop catalogue of Hubs, competences, etc
- Smart specialisation platform for industrial modernisation will provide tailored support to develop joint investment projects.

Industry

- Engage with DIHs, help set priorities,...

Digital Innovation Hubs: Building on successful experiences, e.g.

Netherlands Field Labs

3Dmultimaterial (3D printing)	Digital Factory	Flex Manufac. (robotics)	RoS Factories Zero defects	Smart Food
Noord-Brabant en Limburg	Noord-Brabant, Zuid-Limburg en Noord-Holland	Delft, Eindhoven, Enschede, Drachten	Drachten, Hoogeveen, Almelo, Groningen	Zuid-Holland
Amsterdam, Delft, Eindhoven, Enschede	Overijssel	Varsseveld (Gelderland)	Gate2, Gilze-Rijen (Noord-Brabant)	Noord en Oost Nederland
Ultra Personalized Design (creative)	Secure Connected System Garden	Smart Bending Factory	CAMPione Zero surprises	Smart Dairy Farming

Mittelstand-
Digital



La
FRENCH TECH

.....

European Factories
of the Future PPP



Tailor made shoes for customers with feet anomalies

- 3D insole scan & design is processed on HPC resources via the cloud
 - Paving the way for 3D printing of soles/shoes in the back-shop in Europe
- **Benefits for the shoe industry:**
 - No need for specialised CAD knowledge
 - No hassle with SW licenses
 - Immediate validation and perfect fit
- **Benefits for the customer:**
 - Faster availability of the shoe
 - Lower cost for special shoes
- **250k€ Funding**
→ **Tripling Base Protection's turnover within 3 years**



Partners:

End-user SME: BASE PROTECTION – IT

End user SME: PODOACTIVA -ES

Technology provider SME: INGECON - ES

- Interested in supporting the industry in your region with a digital innovation hub?
 - Try to use the Smart Specialisation platform for industrial modernisation for finding partners and ideas for viable business models
 - Co-investment of regions in shared infrastructures and services benefitting industry of those regions and strengthening value chains
 - Participate in the Working Group on DIHs, next meeting 9 December in Brussels
<https://ec.europa.eu/digital-single-market/en/news/digitising-european-industry-working-groups-meeting>
 - Participate to the stakeholder conference on 31 January-1 February in Essen, Germany
<https://www.bmwi-registrierung.de/digitising-european-industry/>

- Background document on Digital Innovation Hubs:
<https://ec.europa.eu/futurium/en/content/stock-taking-initiatives-supporting-development-digital-innovation-hubs-lessons-learned-eu-2>
- Report of first meeting of the working group on Digital Innovation Hubs:
<https://ec.europa.eu/futurium/en/content/wg-1-digital-innovation-hubs-meeting-report-first-meeting-20-oct-2016>
- Digitising European Industry:
<http://ec.europa.eu/digital-agenda/en/digitising-european-industry>