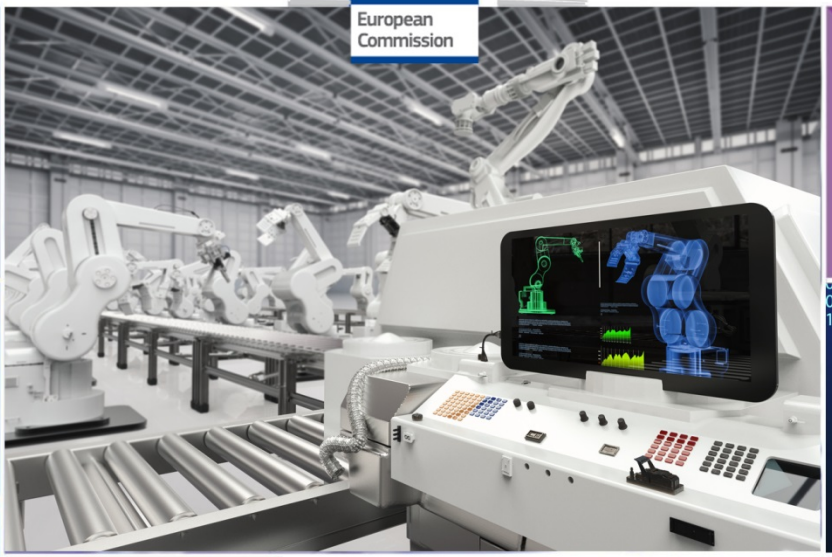


#DigitiseEU

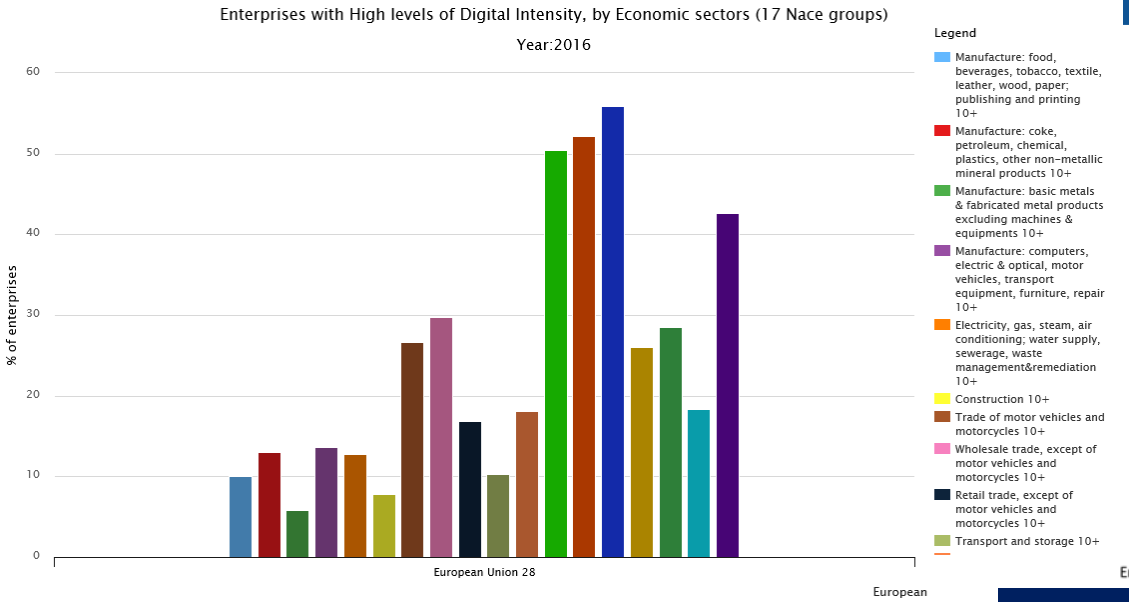
Digitising European Industry

Current status

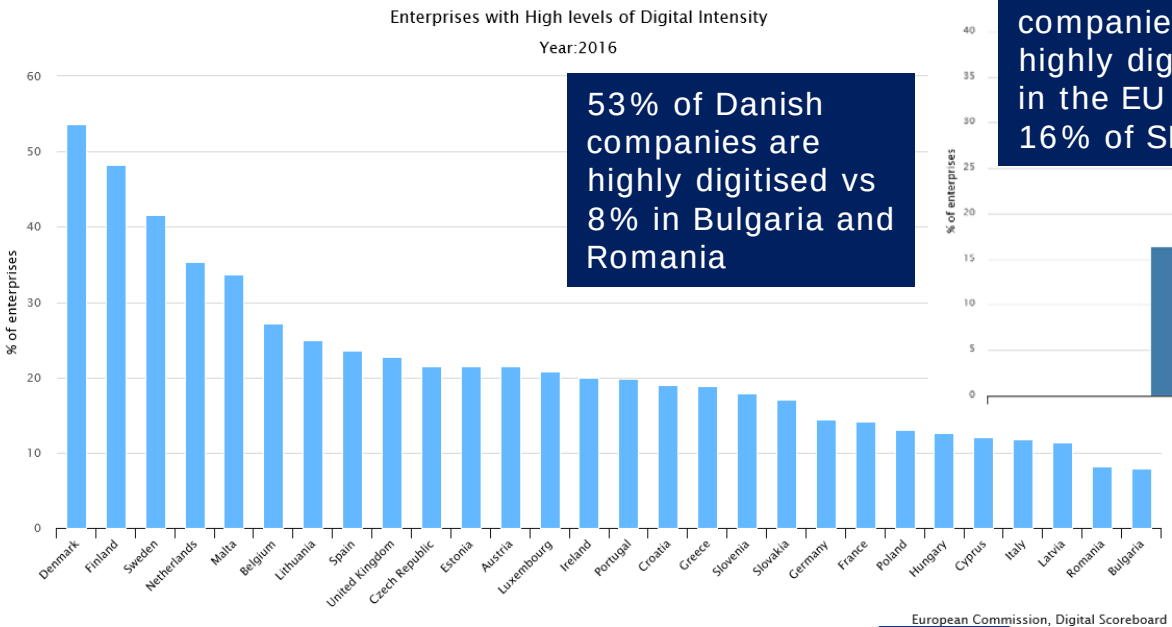
Alexandra Tasigiorgou

Technologies & Systems for Digitising Industry, DG CONNECT/A2, European Commission

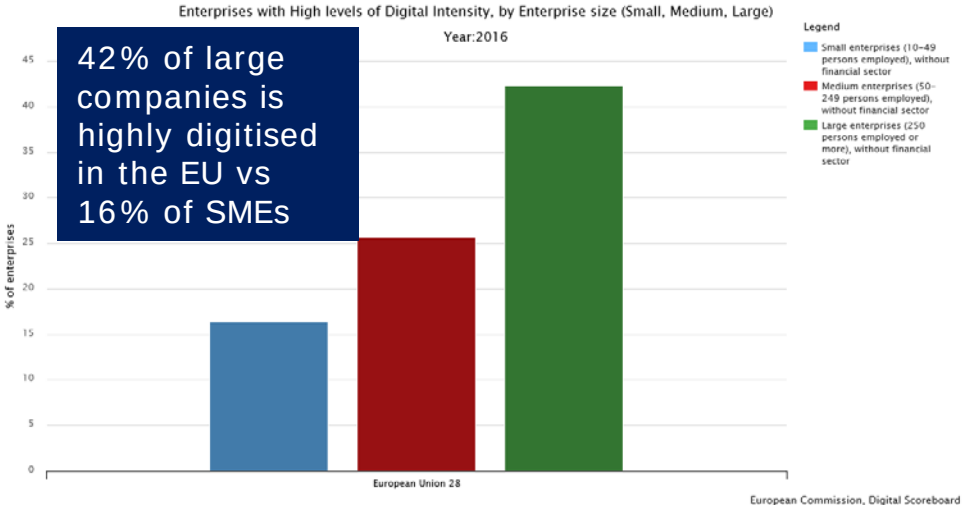
Level of digitisation differs according to size of company, sector and region



56% of companies in computer programming, consultancy and information services are highly digitised.
Only around 6% of companies in basic metals & fabricated metal products excluding machines & equipment are highly digitised.

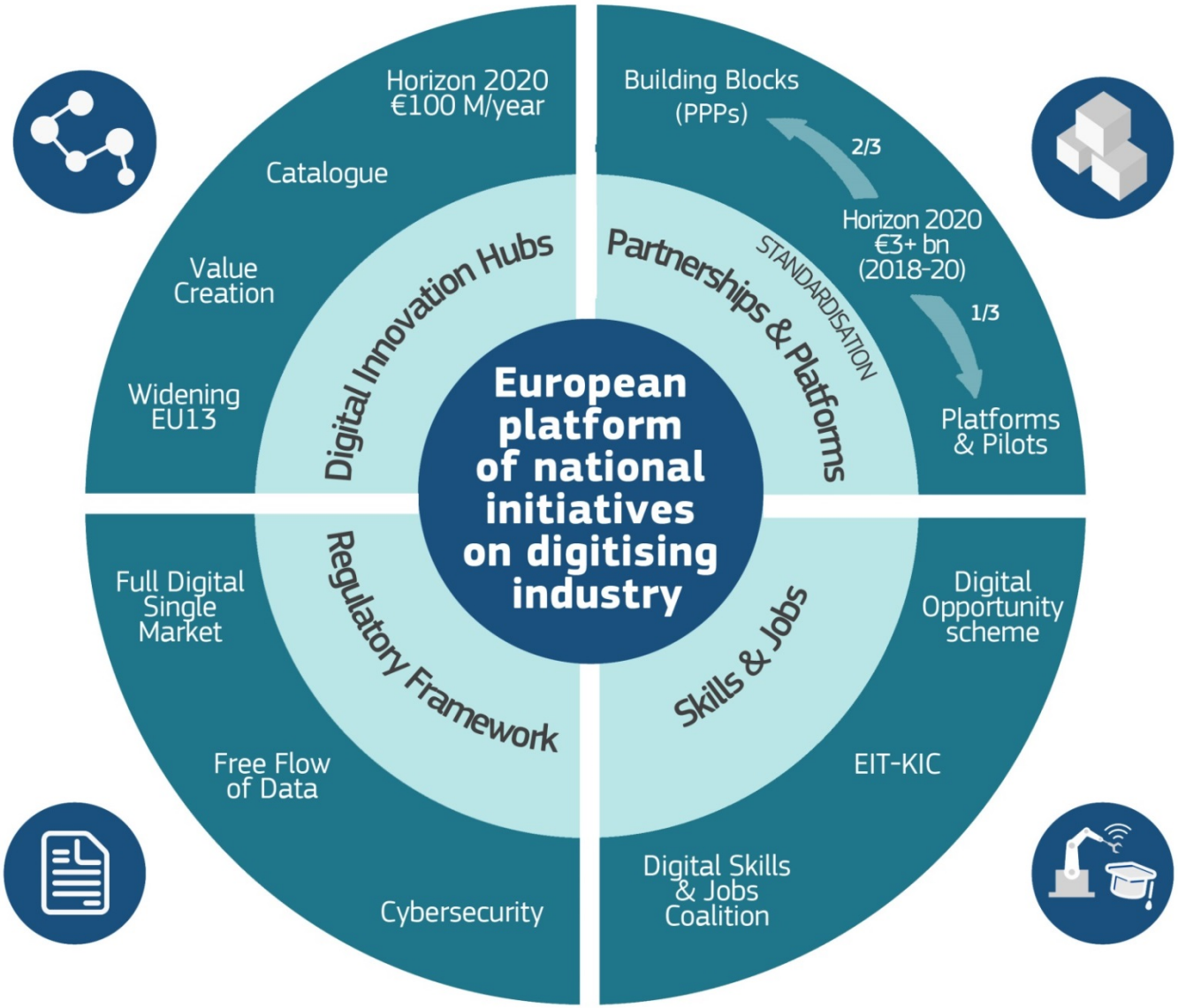


53% of Danish companies are highly digitised vs 8% in Bulgaria and Romania



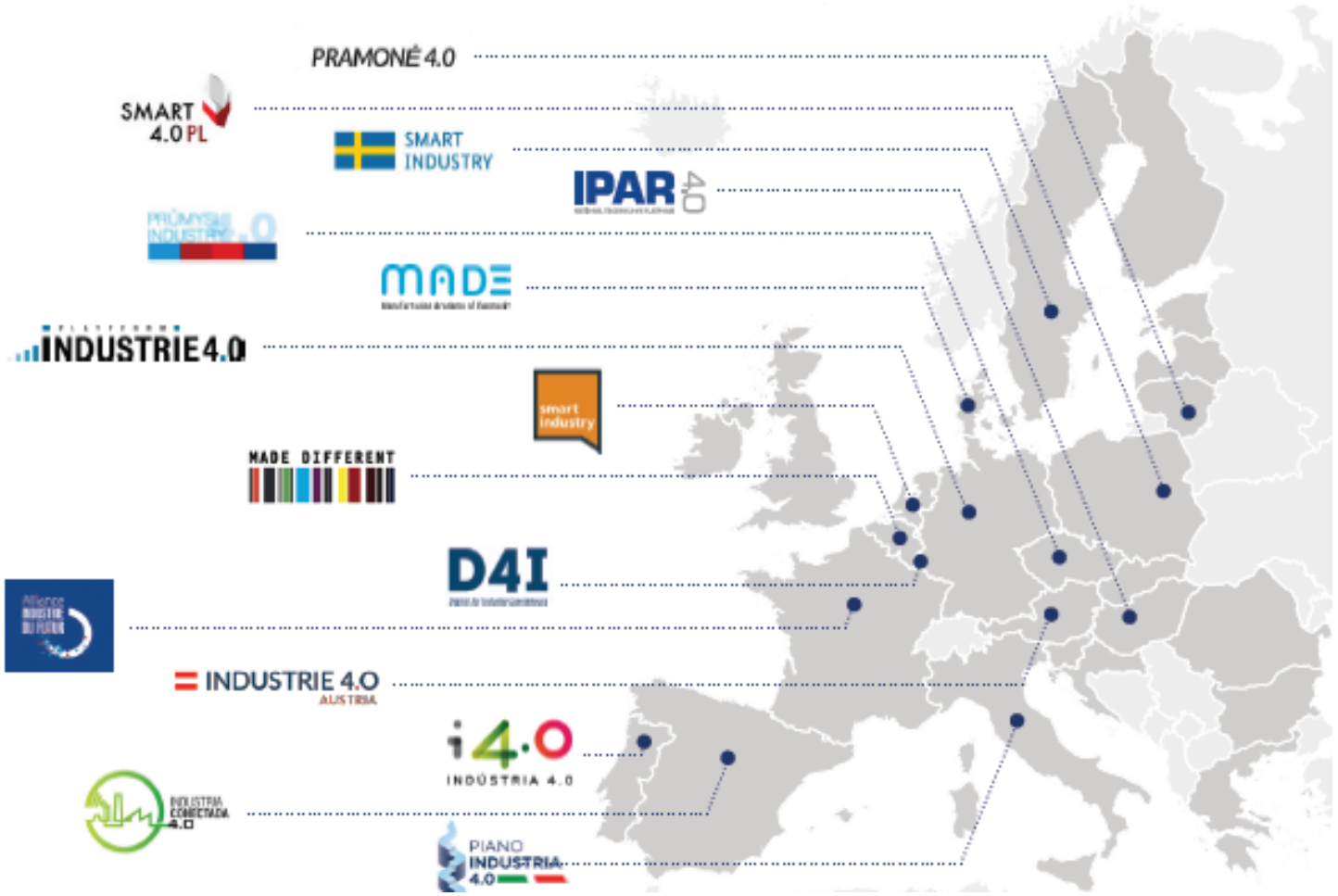
42% of large companies is highly digitised in the EU vs 16% of SMEs

Digitising European Industry: The EU is delivering



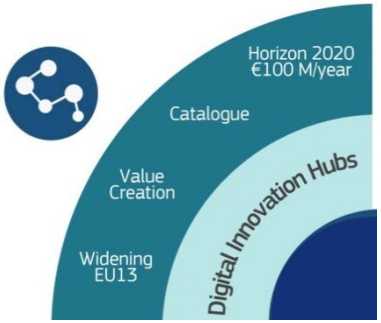
Existing National Initiatives for digitising industry across the EU

European platform of national initiatives on digitising industry



Analysis of National Initiatives on Digitising Industry
https://ec.europa.eu/futurium/en/implementing-digitising-european-industry-actions/national-initiatives-digitising-industry

Digital Innovation Hubs



I4MS

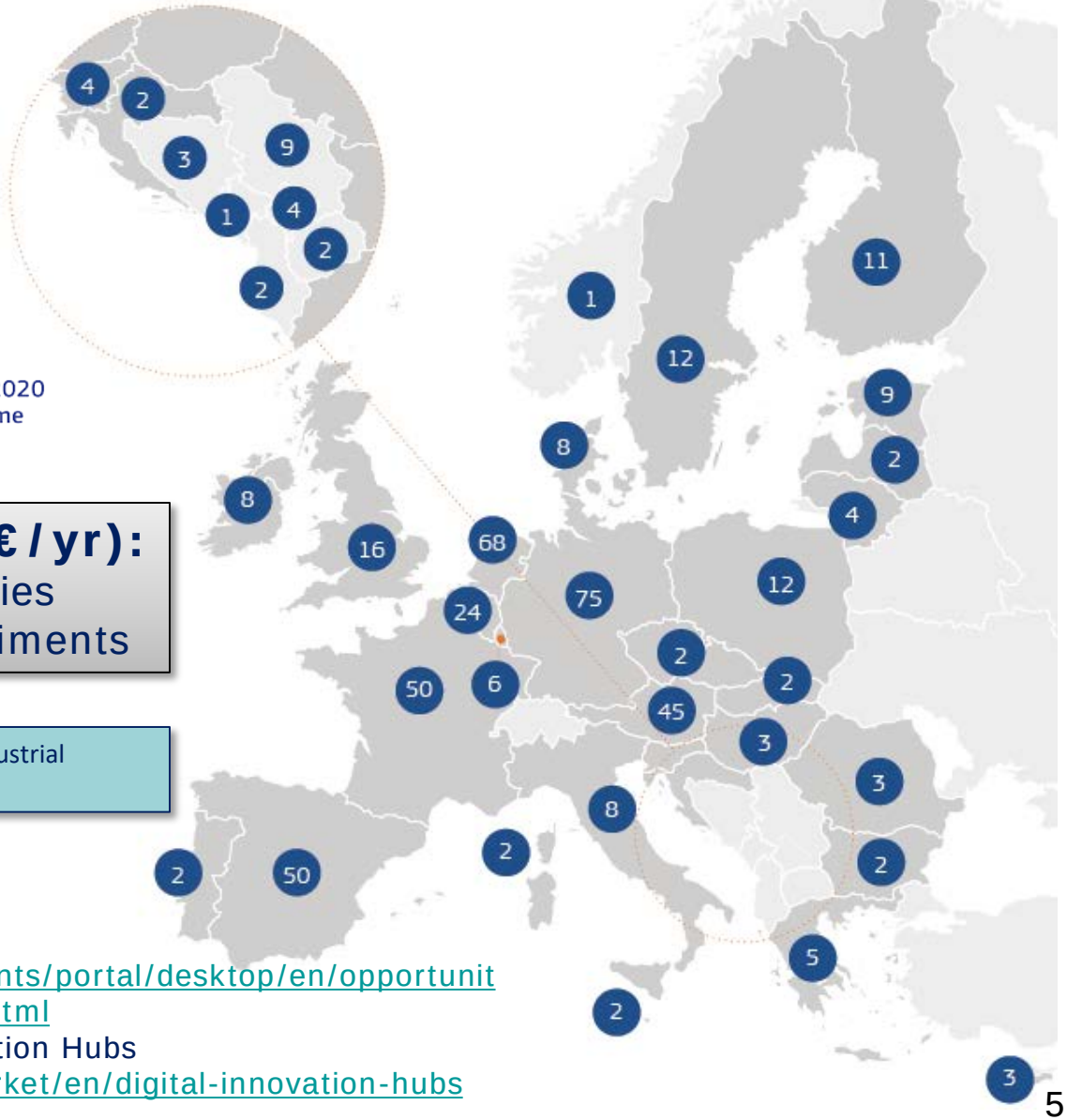
SAE
SmartAnythingEverywhere

Horizon 2020 Programme

Commission H2020 (100M€/yr):

- Networking and support activities
- Innovative Cross-border experiments

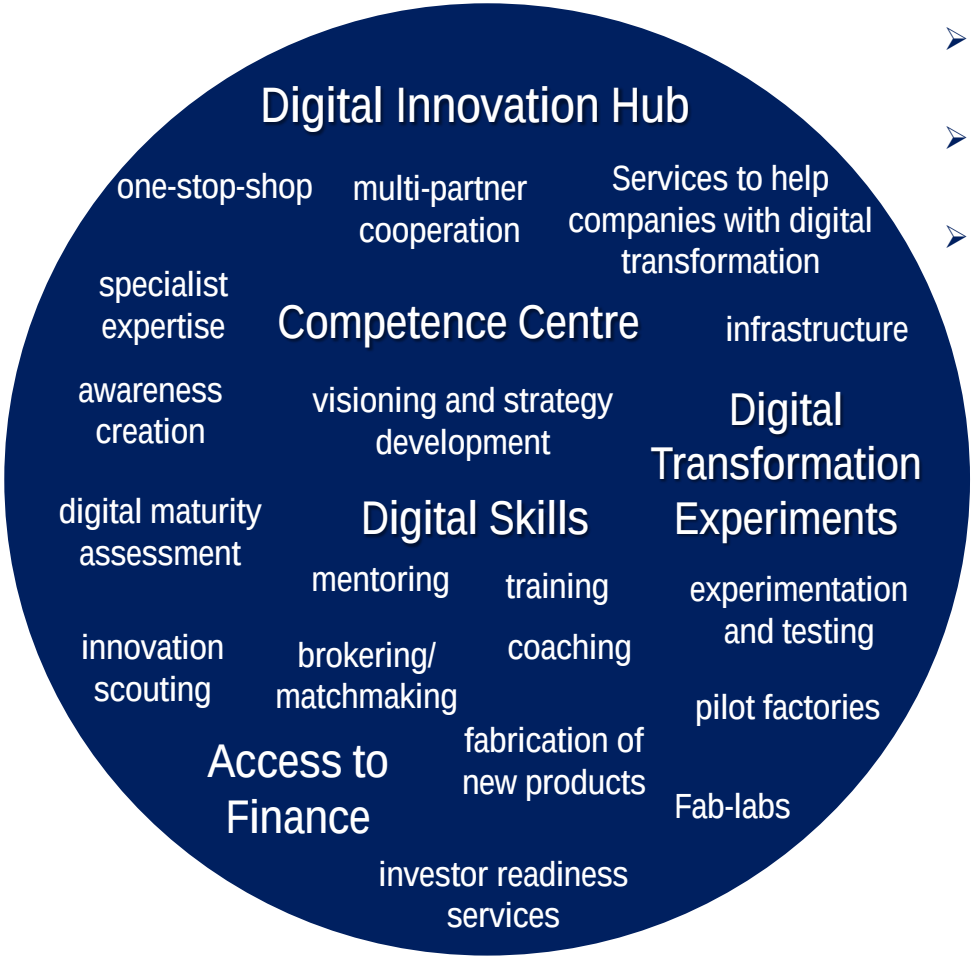
± 8M€ for widening the SAE and I4MS networks towards industrial regions which are so far underrepresented (WP18-20)



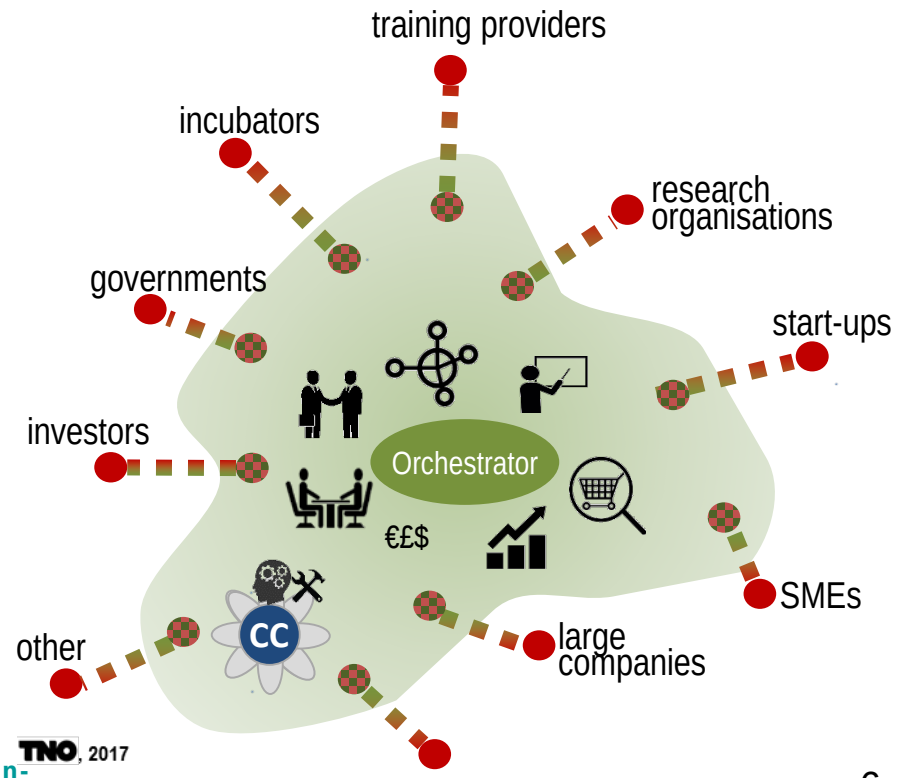
H2020 calls:
http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/calls/h2020-dt-2018-2020.html

Overview of actions related to Digital Innovation Hubs
https://ec.europa.eu/digital-single-market/en/digital-innovation-hubs

What is a Digital Innovation Hub?



- Provide support to **existing industry** to manage their **digital transformation**
- **Competence Centres** are at the **core of DIHs (ecosystem approach)**
- **Variable geometries**: technology applications, sector, SME focus etc.
- Provides opportunities for both **ICT users** and **ICT suppliers**



Working Group report on DIHs:

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

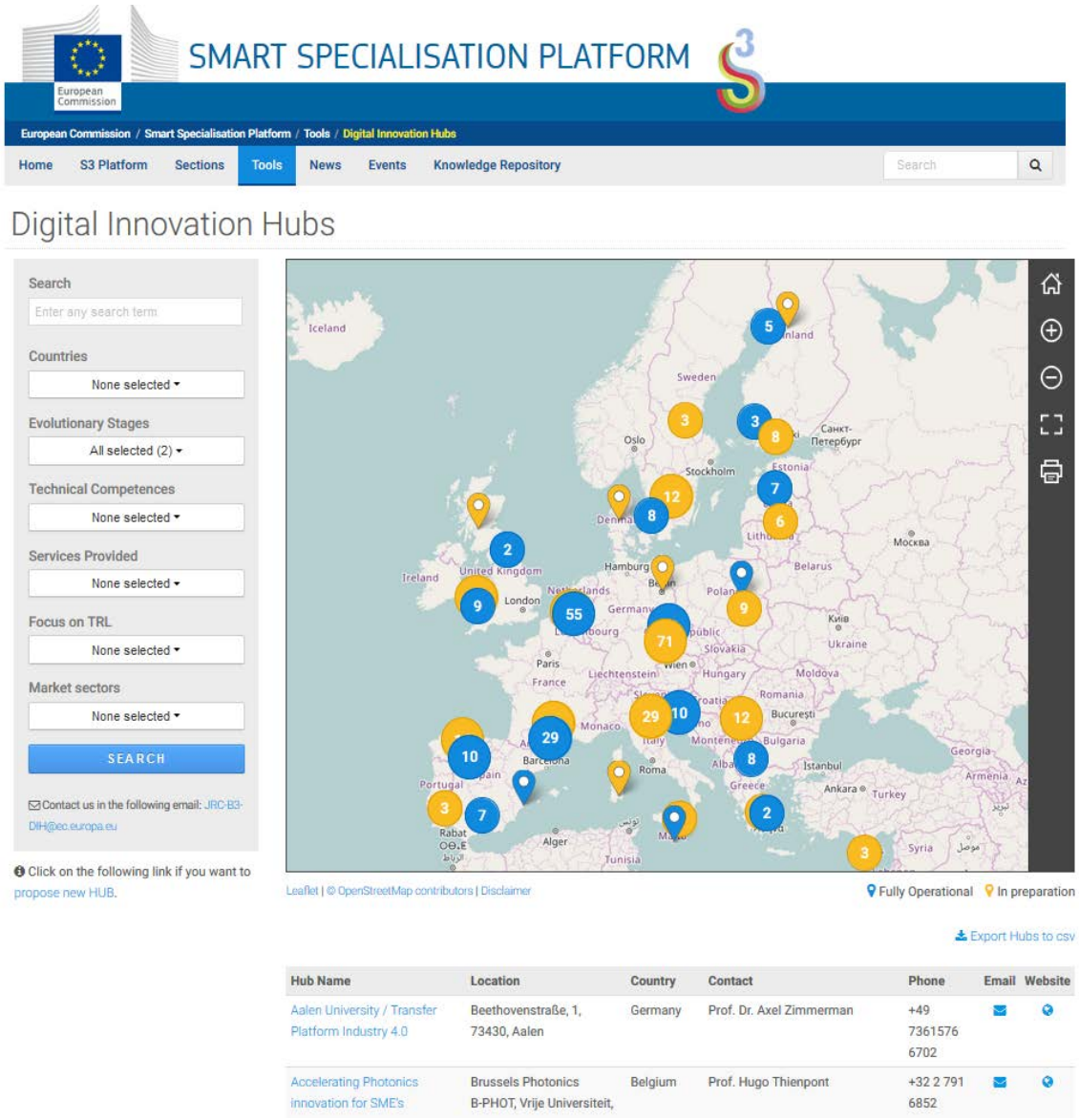
Digital Innovation Hubs Catalogue

First version available:

- 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



Funding opportunities for Digital Innovation Hubs

European Commission

European Commission

H2020

- 200 M€ in the H2020 work programme 2016-2017
- 300 M€ in the new H2020 work programme 2018-2020, focus area "Digitising and transforming European industry and services"
- Focusing on networking Digital Innovation Hubs and highly innovative cross border experiments

National and regional Authorities

European Structural and Investment Funds

- **ESIF support for digital growth is based on national or regional Digital Growth Strategies and Research and Innovation Strategies for Smart Specialisation.**
  - Around EUR 2 billion will support digitising EU industry, in particular SMEs, to develop ICT products and services, e-commerce and the take-up of ICT,
  - Around EUR 1.2 billion will support e-Inclusion, e-Accessibility, e-Learning etc. to enhance human capital for the digitised economy and society,
  - Around EUR 7.6 billion will go into intelligent transport, smart grids, e-health and e-government, offering also procurement opportunities for IT firms,
  - Over 100 regions and 14 countries at national level will also invest in ICT-related research and innovation. Total funding for RIS3 accounts for 42 billion euro.

Other sources of funding (private, innovation funds of regions, loans, etc)

Work Programme 2018-2020 - Focus area "Digitising and transforming European industry and services" [1-2]

Innovation actions and Coordination and Support Actions

- ✓ DT-ICT-01-2019: Smart Anything Everywhere (SAE) Initiative, with the "widening" part for industrial regions that are currently underrepresented in I4MS and SAE
- ✓ **DT-ICT-02-2018: Robotics – Digital Innovation Hubs – 64 + 2 M€**
- ✓ DT-ICT-03-2020: I4MS (phase 4) - uptake of digital game changers and digital manufacturing platforms
- ✓ DT-ICT-04-2020: Photonics Innovation Hubs
- ✓ DT-ICT-05-2020: Big Data Innovation Hubs
- ✓ **DT-ICT-06-2018: Coordination and Support Activities for Digital Innovation Hub network – 1 M**
- ✓ In SC2: DT-RUR-12-2018: ICT Innovation agriculture – Digital Innovation Hubs for Agriculture (DG AGRI budget)

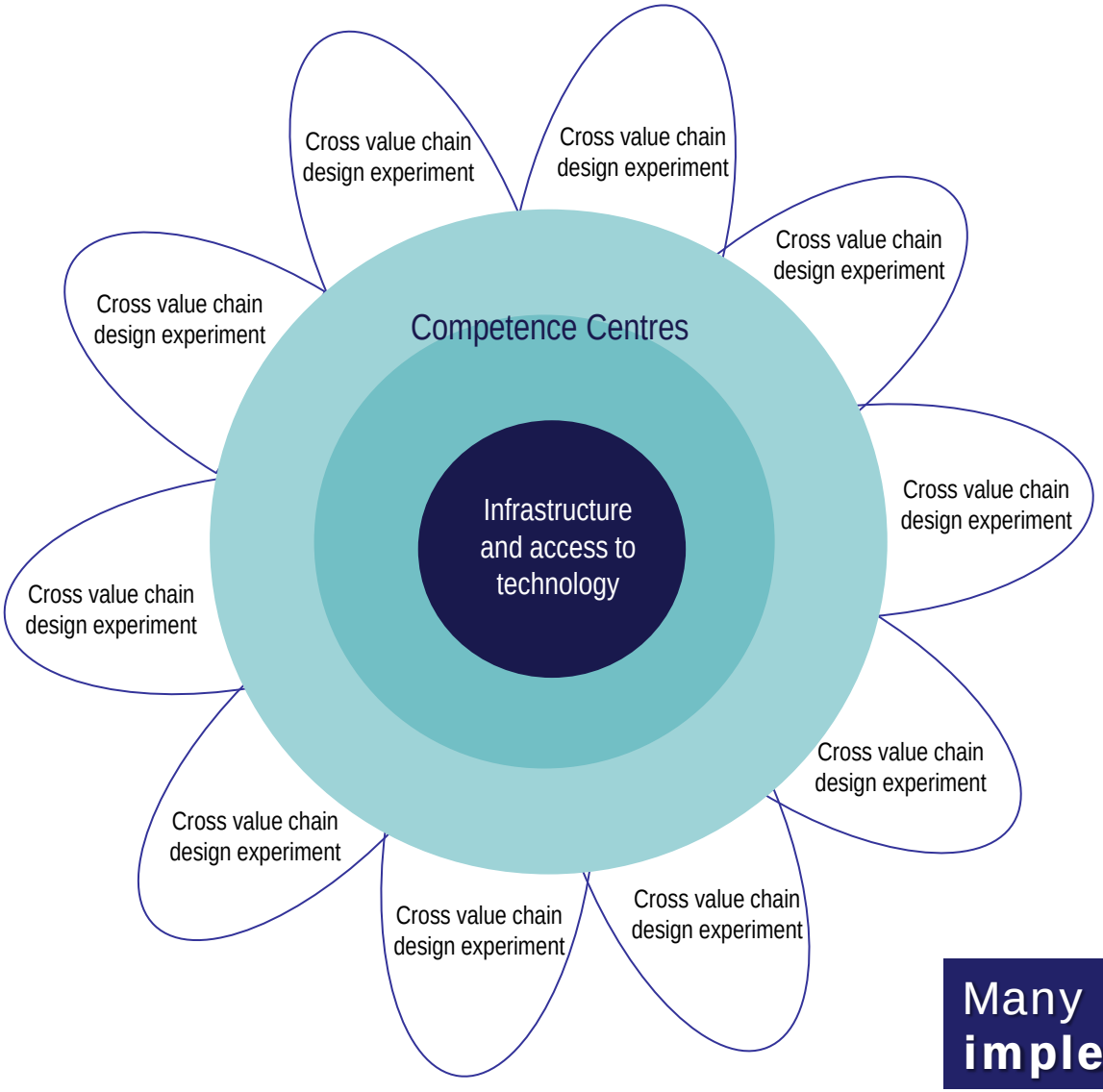
https://ec.europa.eu/research/participants/portal/desktop/en/funding/reference_docs.html#h2020-work-programmes-2018-20

Work Programme 2018-2020 - Focus area "Digitising and transforming European industry and services" [2-2]

Innovation actions should have the following characteristics:

- Consortia should be deeply rooted in **regional/national DIH**
- **Critical mass** of highly **innovative, cross border experiments.** At least **50%** of the budget should directly benefit **SMEs** or slightly bigger companies. Financial support to third parties may be used.
- Activities should aim at **long-term sustainability** and include a **business plan for the DIHs**, a plan to attract investors, to address training and skills development needs and dissemination. Established networks reaching out to SMEs like the Enterprise Europe Network and the NCP network should be used.
- Selected projects are expected to **collaborate** on building a **network** of Digital Innovation Hubs, covering most regions in Europe.

Critical Mass of Cross-Border Application Experiments



Develop novel products or services with digital technologies.

Bring together actors along value chain.

Suppliers to assist new users in customising and applying digital technologies in their environment.

Financial support to third parties may be used for flexibility

Many projects are using **FSTP to implement open calls in H2020**

Proposal should describe clearly the process through which third parties will be selected

- Part K of the General Annexes & Article 15 of MGA
  - Proposals shall clearly detail the objectives and results to be obtained from the financial support to third parties, and include at least:
    - A closed list of the different types of activities supported
    - Persons or categories of persons supported
    - Criteria for award of support (e.g. an open call)
    - How to calculate the exact amount of support (for instance 70% of total costs)
    - Maximum amount of support for each party (amounts mentioned in the workprogramme. If more than 60K€ is necessary, this needs to be explained in the proposal).

Remember: Winners of open call will become third parties, and not beneficiaries of the project!

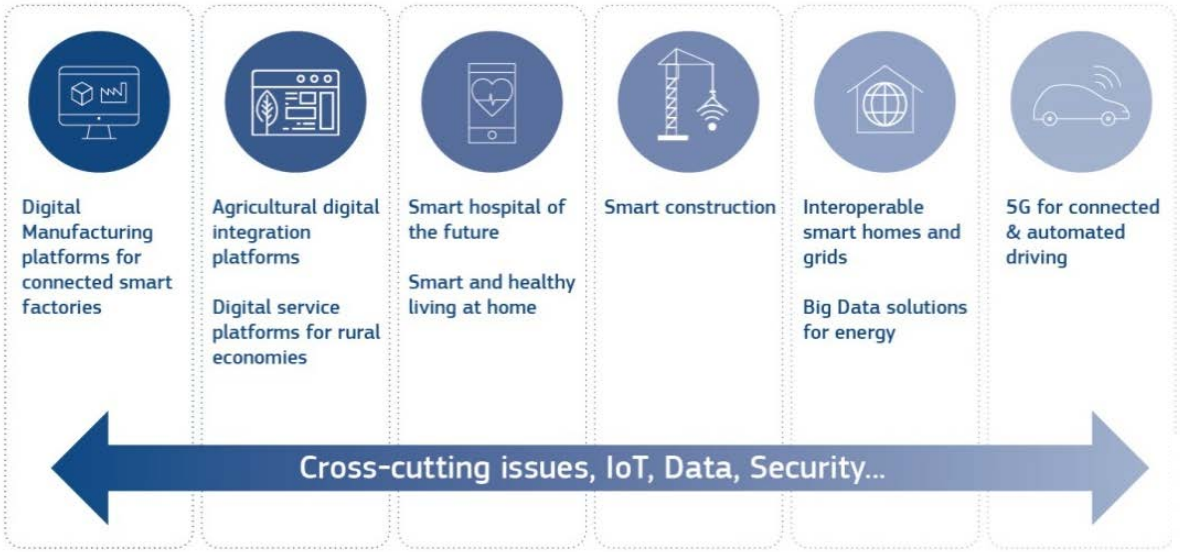
Upcoming open "cascading funds" calls

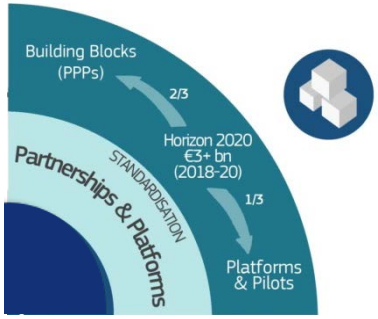
Project	Technology Area	Call 1	Call 2	Call 3	Call 4	Call 5
I4MS (Innovation for Manufacturing SMEs) Initiative						
HORSE	Robotics	Nov.17	-	-	-	-
ReconCell	Robotics	Nov.17	-	-	-	-
L4MS	Logistics for Manufacturing (Robotics)	Sep.18	Sep.19	-	-	-
CloudiFacturing	HPC cloud-based simulation services	Jul.18	Jul.19	-	-	-
MIDIH	CPS/IoT for Manufacturing	Mar.18	Mar.19	-	-	-
AMABLE	Additive Manufacturing	Mar.18	Mar.19	Mar.20	-	-
SAE (Smart Anything Everywhere) Initiative						
FED4SAE	Cyber-Physical and Embedded Systems	Nov.17	May18	Nov.18	-	-
TETRAMAX • Bilateral	Low energy computing powering CPS and IoT	Nov.17	Oct.18	Sep.19	Apr.20	-
• Value chain/ interdisciplinary		Feb.18	Dec.18	Oct.19	Apr.20	-
• Entrepreneurial		Aug.18	Aug.19	Aug.20	-	-
DIATOMIC	Advanced micro-electronic components and Smart System Integration	Mar.18	Sep.18	-	-	-
SmarTEES	Organic and large area electronics	Mar.18	Jul.18	Nov.18	Apr.19	Sep.19
Other projects						
Data Pitch	Data brokerage between public sector organisations and SMEs	Jul.17–end of Sep.17	Autumn 18	-	-	-

Where to find cascading funds open calls on participant portal?

- www.i4ms.eu
- www.smartanythingeverywhere.eu
- http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/other/competitive.html

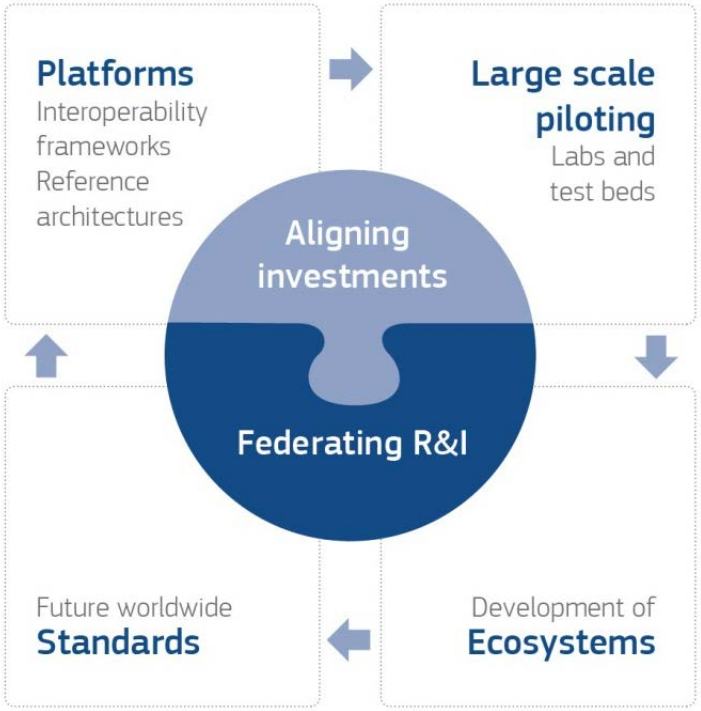
Partnerships and Digital Industrial Platforms





Commission H2020 (300M€ for 2018-20):

- Next generation platform building and piloting through large scale federating projects
- Common EU-wide strategies



H2020 calls:
http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/calls/h2020-dt-2018-2020.html

Actions on partnerships and platforms:
https://ec.europa.eu/digital-single-market/en/industrial-platforms-and-large-scale-pilots

Work Programme 2018-2020 - Focus Area 'Digitising and transforming European industry and services', Platforms and Pilots

LEIT-ICT

- ✓ DT-ICT-07-2018-2019: Digital Manufacturing Platforms for Connected Smart Factories – 93 M€ IAs + 2 M€ CSA
- ✓ DT-ICT-08-2019: Agricultural digital integration platforms
- ✓ DT-ICT-09-2020: Digital service platforms for rural economies
- ✓ DT-ICT-10-2018-2019: Interoperable and smart homes and grids
- ✓ DT-ICT-11-2019: Big data solutions for energy
- ✓ DT-ICT-12-2020: The smart hospital of the future
- ✓ DT-ICT-13-2019: Digital Platforms/Pilots Horizontal Activities

SC1

- ✓ DT-TDS-01-2019: Smart and healthy living at home

LEIT-NMBP

- ✓ DT-NMBP-20-2018: A digital 'plug and produce' online equipment platform for manufacturing

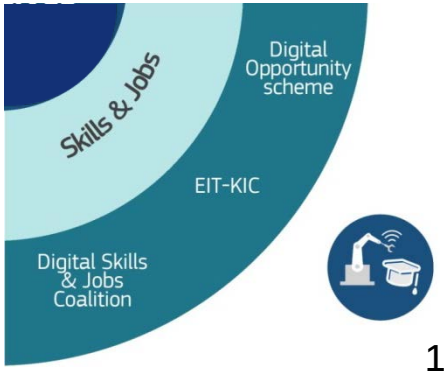
https://ec.europa.eu/research/participants/portal/desktop/en/funding/reference_docs.html#h2020-work-programmes-2018-20

The EU in ACTION

- ✓ **New Skills Agenda** for Europe:
  - To help low-skilled adults to acquire a minimum level of literacy, numeracy and digital skills
- ✓ **Digital Skills and Jobs Coalition:**
  - To mobilise businesses, social partners and public authorities to improve digital skills
- ✓ **"Digital Opportunity" scheme** in 2018:
  - A pilot project to give graduates hands-on experience through cross-border internships in digital areas

Digital Skills and Jobs Coalition:
https://ec.europa.eu/digital-single-market/en/digital-skills-jobs-coalition

Digital Opportunity Scheme:
https://ec.europa.eu/digital-single-market/en/news/commissionannounces-pilot-project-boost-digital-skills-through-internships



European Commission

Thank you!

Contacts

Alexandra.Tasigiorgou@ec.europa.eu

Follow the latest progress and get involved

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bit.ly/futuriumdei