European Commission

# *Digital Innovation Hubs como instrumentos para impulsar y apoyar la transformación digital de PYMES en Europa*

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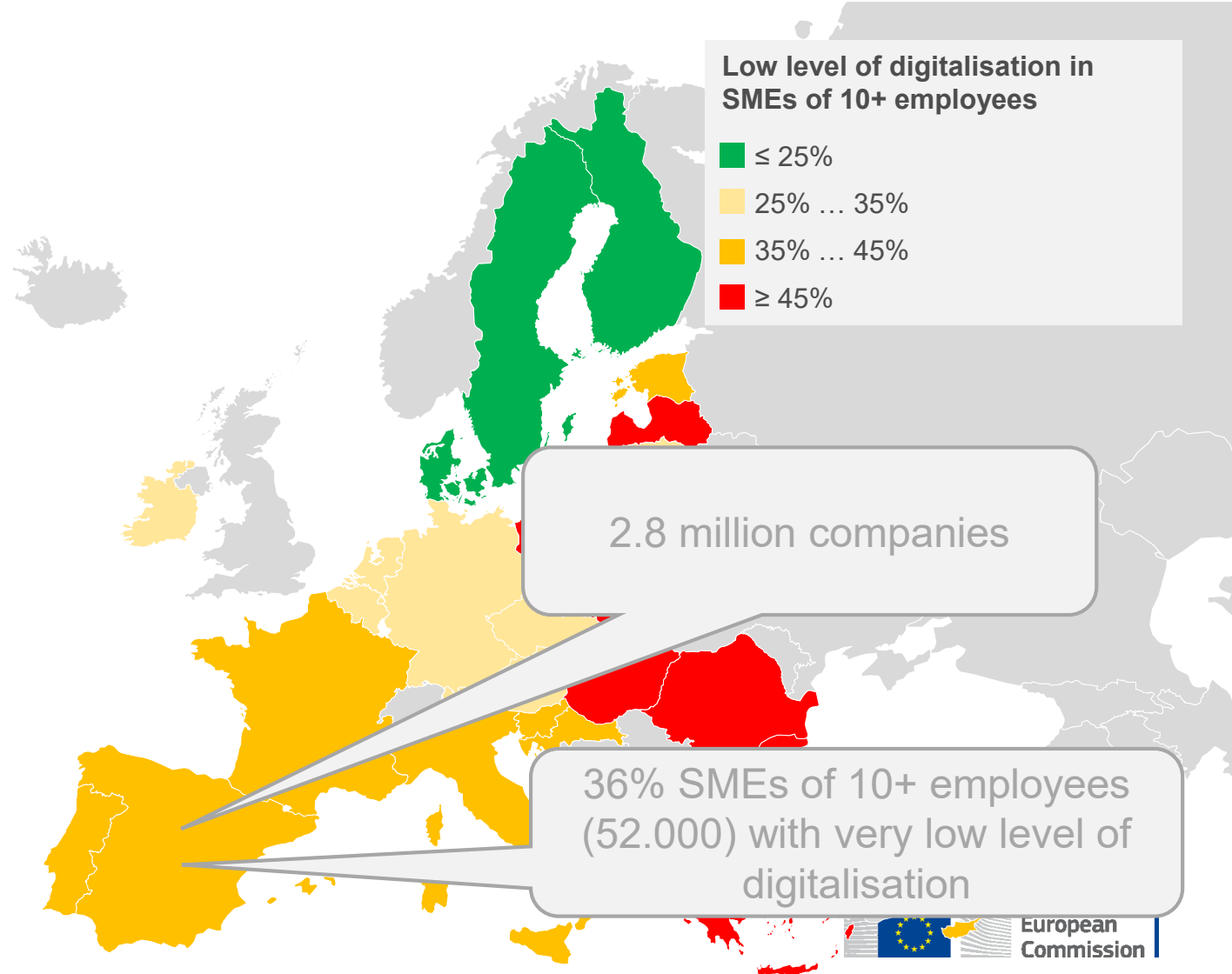inteligencia artificial e industria digital
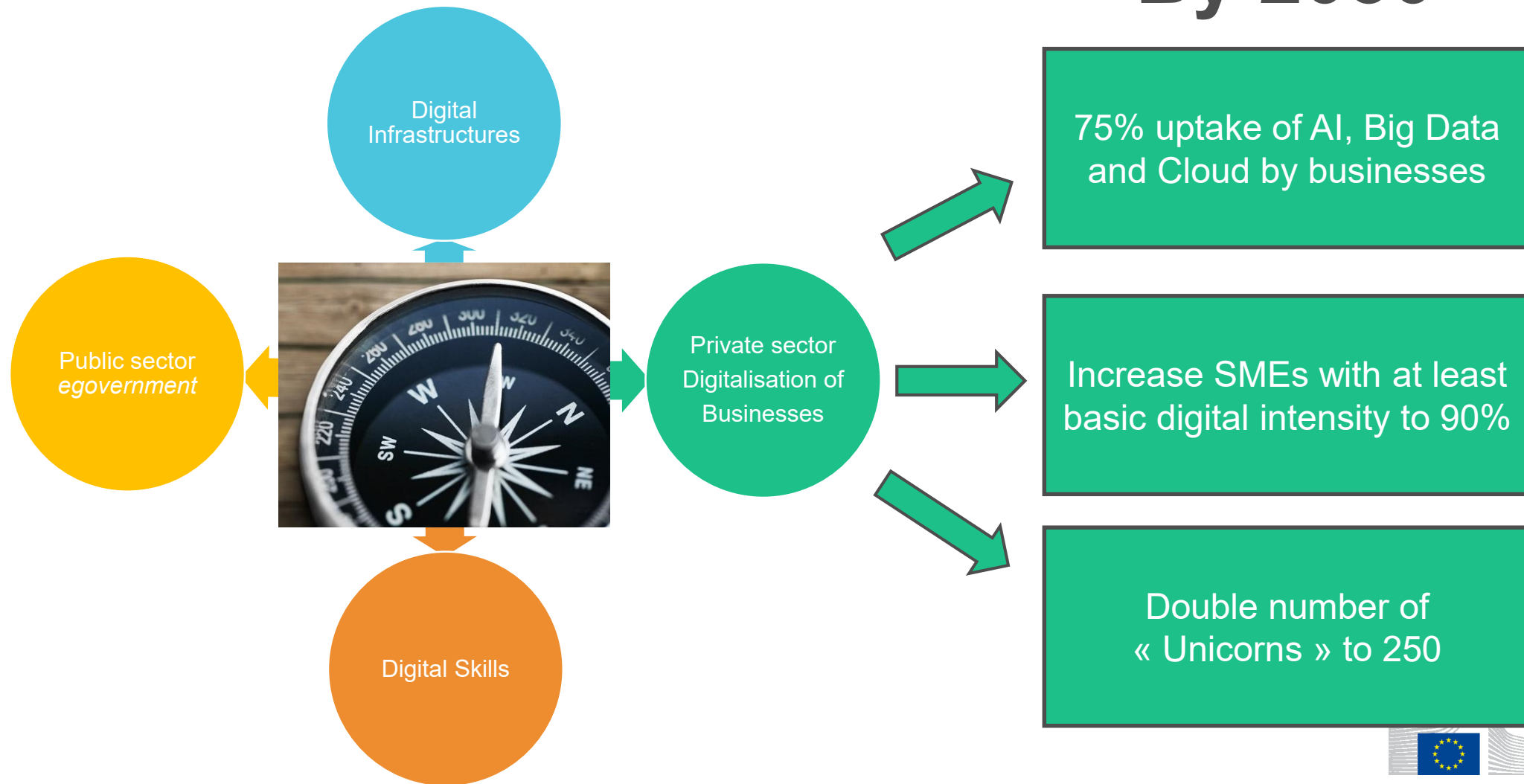
5 de mayo 2021

*Comisión Europea*

# Low level of SME digitalisation across EU

- 23 million companies EU27

- 570.000 SMEs of 10+ employees have a very low level of digitalisation

- Particular focus:
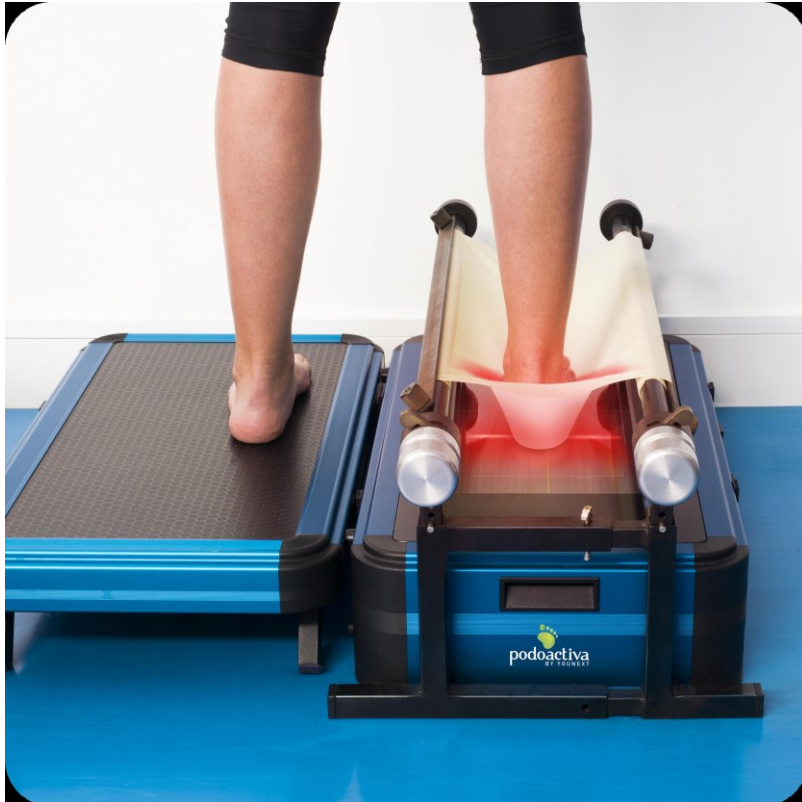  - Notably persistently non digitalised

**Low level of digitalisation in SMEs of 10+ employees**

- ≤ 25%
- 25% ... 35%
- 35% ... 45%
- ≥ 45%

2.8 million companies

36% SMEs of 10+ employees (52.000) with very low level of digitalisation

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# A Digital Decade

**By 2030**

Digital Infrastructures

Public sector *egovernment*

Private sector Digitalisation of Businesses

Digital Skills

75% uptake of AI, Big Data and Cloud by businesses

Increase SMEs with at least basic digital intensity to 90%

Double number of « Unicorns » to 250

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# From Horizon2020 innovation projects…

## I4MS *CloudSME*

Podoactiva – Inycon - INGECON - BIFI



### 3D Scanner to design customised shoe insoles

SMEs Podoactiva & Inycon teamed up and got help from a Digital Innovation Hub project to use **cloud and HPC resources to efficiently process data** from 3D foot scanner

### Testing & Experimenting innovative digital solutions before investing

Another SME, base protection (Italy), tripled turnover within 3 years

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# … to capacity building of an innovation infrastructure

## EDIHs are more than DIH 2.0

A network of 200+ European Digital Innovation Hubs (EDIHs)

… enabling the digital transformation of businesses and the public sector
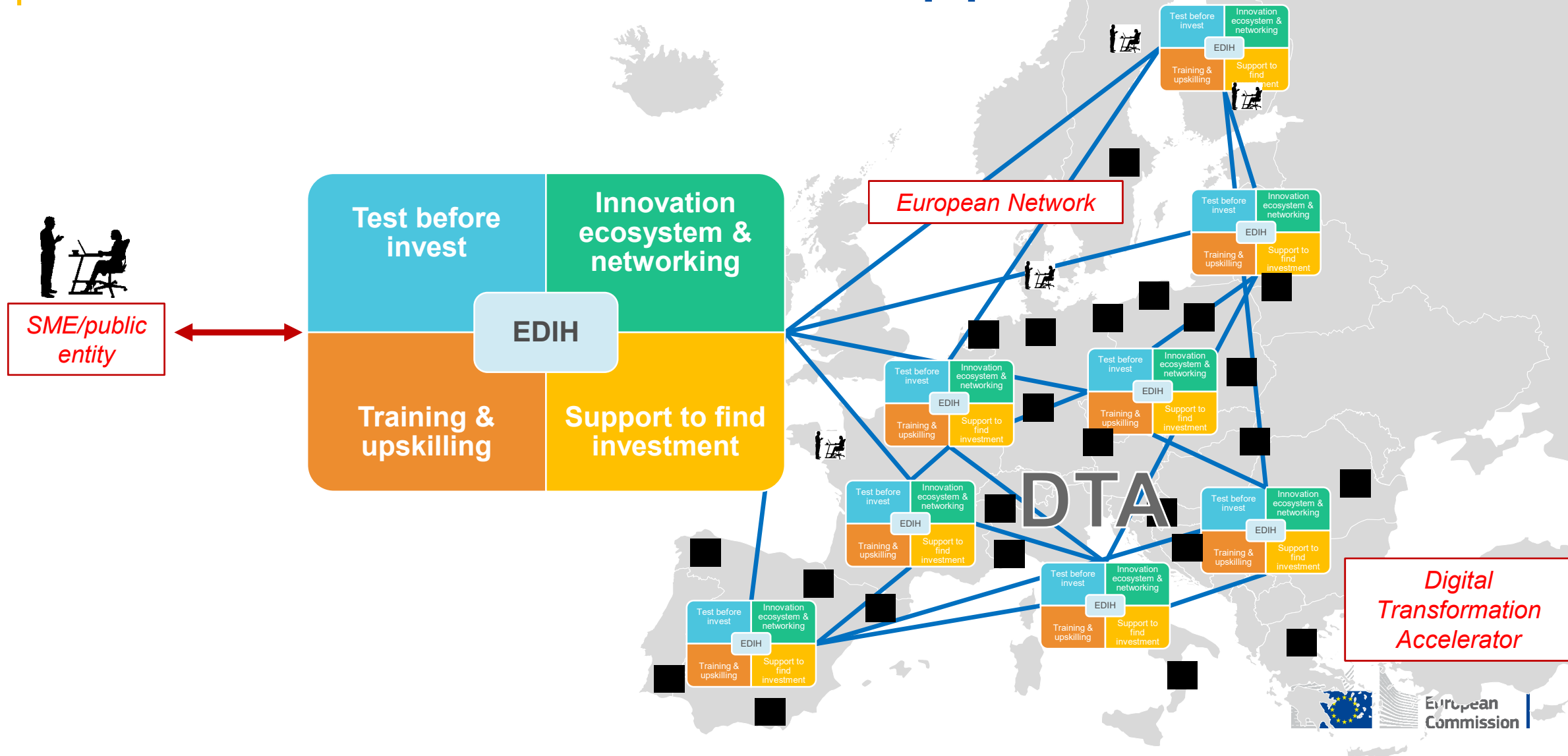
… covering EU regions, with national & regional co-funding

… providing technological expertise based on a specific focus/expertise

… making available experimentation facilities

… offer a seamless service with Enterprise Europe Network, Startup Europe…

**"Ensure that every business in Europe, whatever its sector of activity, wherever located and whatever its size, can take full advantage of digital innovations and competences"**

# The "EU-Local" approach

# EDIH functions between region and EU
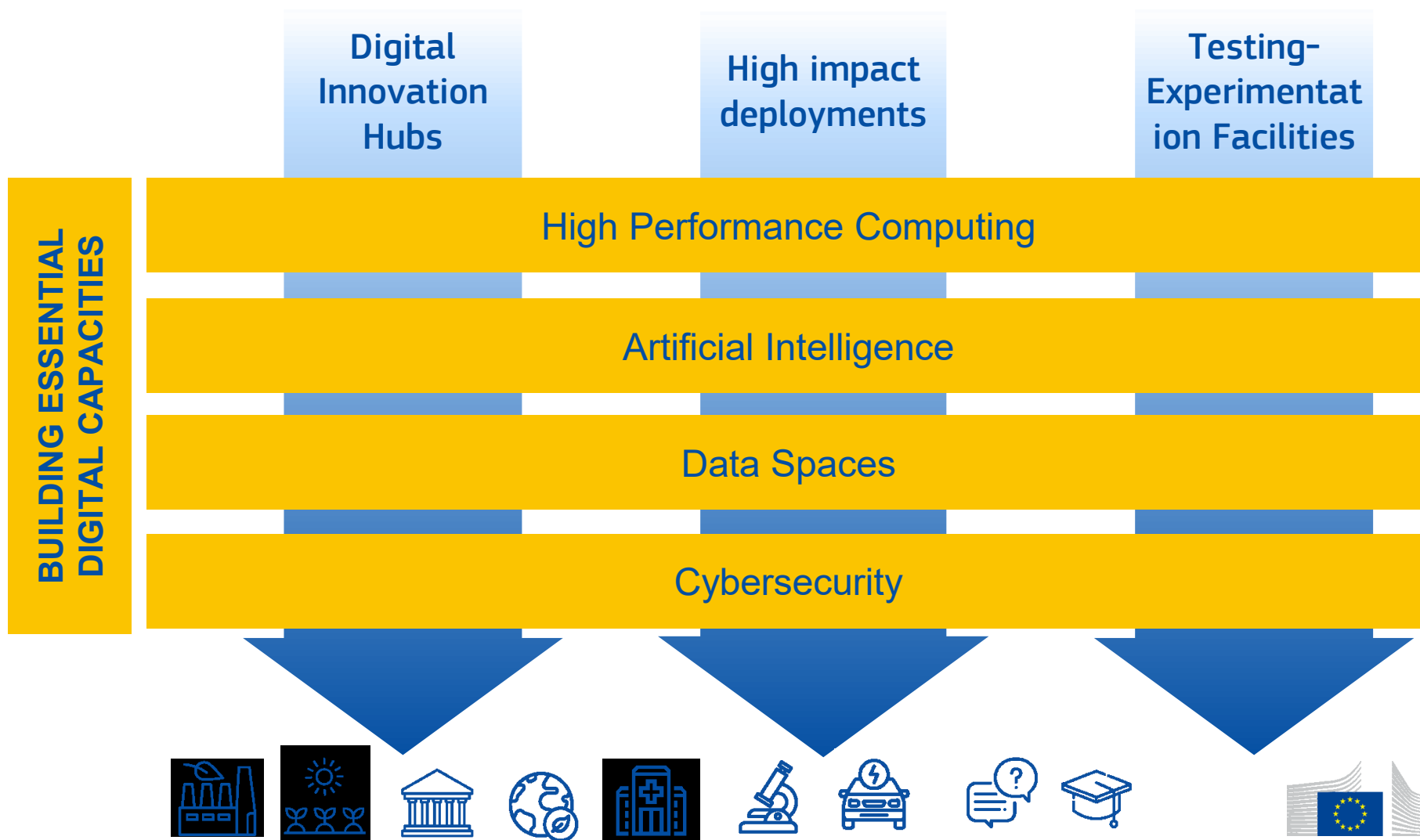
## Region

- Support digital transformation
- Enhancing regional ecosystem collaboration
- Strengthening regional capacities
- Improving the regional specialisation

## EU

- Provide a gateway to Europe
- Initiate/maintain interregional corridors
- Supporting other regions with your regional strengths
- Enhance each other capabilities

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# Objective

- **Select** the **initial Network of European Digital Innovation Hubs** (EDIH) from all designated candidate entities resulting from the Expression of Interest

- **Upgrade** these entities to **provide the complete set of services** of an EDIH, including the necessary infrastructure, in a specific geographical area, covering the needs of the local SMEs, small mid-caps and/or public sector organisations with respect to their digital transformation.

- **Network** these EDIHs **with each other and with other projects** selected in Digital Europe Programme developing capacities in High Performance Computing, Artificial Intelligence, Cybersecurity, Advanced Digital Skills and accelerating the best use of technologies.

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# Demographics of the 331 candidates - EU26+1

Specialisation

| AI | HPC | Cyber-security |
|----|-----|----------------|
| 211 | 95 | 137 |

Other digital technologies

| Automation | Big Data | Blockchain | Cloud | Communication technologies / 5G | IOT | Micro-electronics/ Photonics | Advanced materials | Robotics | Virtual Reality |
|------------|----------|------------|-------|-------------------------------|-----|------------------------------|--------------------|----------|-----------------|
| 17 | 58 | 34 | 35 | 48 | 74 | 35 | 34 | 63 | 45 |

Sectors

| Agrifood | Automotive | Construction | Creative industry | Health | Public sector | Life sciences | Logistics | Manufacturing | Maritime | Mobility | Skills | Social care | Sustainability | Tourism | Energy |
|----------|-----------|--------------|-------------------|--------|---------------|---------------|-----------|---------------|----------|----------|--------|-------------|----------------|---------|--------|
| 64 | 20 | 29 | 19 | 80 | 105 | 16 | 38 | 139 | 24 | 57 | 86 | 6 | 66 | 26 | 32 |

# Catalogue of candidate EDIHs

https://s3platform.jrc.ec.europa.eu/digital-innovation-hubs-tool



- New version of catalogue available

- Profiles can be updated directly by the candidate hubs

# 40 Spanish EDIH candidates



- Fixed budget per country

  €62.5 million (Spain, 7 years)

  9 – 18 EDIHs (Spain)
  funded by DIGITAL

- EDIH budget likely between 1-2 M€ per year (DIGITAL grant will cover 50%)

- MS are free to propose more smaller EDIHs or less larger ones

- Cross-border trans-national hubs, serving different regions from different countries is possible

# Beyond EDIHs: Complementing 2021-27 Programmes

| EU-wide collective effort | | | | National regional and local | | Financial instrument |
|---|---|---|---|---|---|---|
| **Horizon Europe** | **Digital Europe** | **Connecting Europe Facilities** | **Health** | **Cohesion** | **Agriculture funds** | **InvestEU** |
| **Research** **Innovation** | **Strategic capacities**: computing, data, testbeds, etc. **Advanced digital skills** **EU-Wide deployment** | **Broadband and 5G** roll out **Connecting Communities** | Data Spaces for Health telemedicine | **Digital connectivity** in white and grey areas Support to enterprises in line with **Smart specialisation** **Digital skills** for all citizens | Making use of Big Data for **CAP monitoring** **Broadband rollout** in rural areas | **Leverage private capital** for investments in SMEs, research, digital, infrastructure, skills… |

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# Learning from previous crises…

**A K-shaped Recovery?**



technology companies
"low-touch" economy

small, non digitalised, businesses
"contact" economy

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# Thank you

**Contact**

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# Useful links

- **European Digital Innovation Hubs in Digital Europe Programme** -Draft working document – update 25-01-2021    **https://europa.eu/!Tv43JN**

- **Practical Handbook on Digital Innovation Hubs** as policy instruments to boost digitalisation of SMEs    **https://europa.eu/!tH89cf**

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