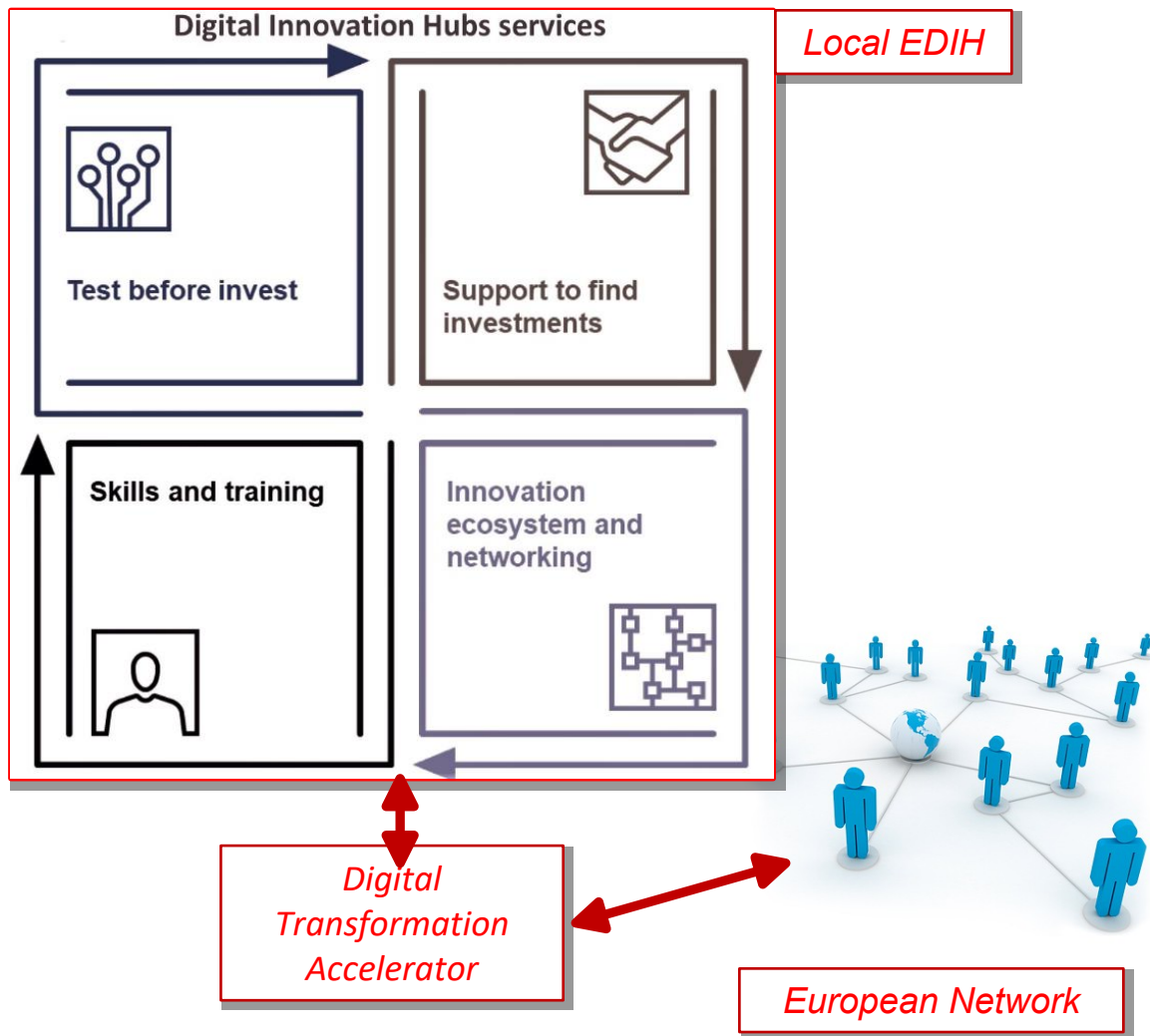# Capability Shift by Digital Europe

- Focus is on <u>delivery actual results</u>. It will make use of the most recent research results, but <u>it will not support research</u>.

- For example, the programmes will support:

  - The <u>acquisition</u> of HPC machines

  - The <u>set-up</u> of sectorial data spaces, eg manufacturing

  - The <u>building or reinforcing</u> of Testing and Experimentation Facilities

  - The <u>set up and delivery</u> of Master courses in key advanced digital technologies

  - The <u>set-up, interoperability, operations and maintenance</u> of a number of services in the eGov area

Government

Skills

Business

Infrastructures

DIGITAL EUROPE PROGRAMME
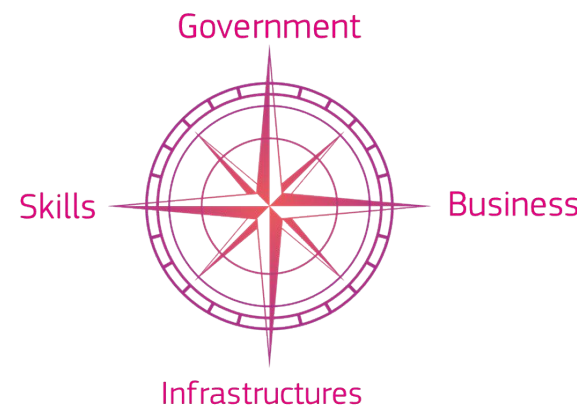
Network of 200 European Digital Innovation Hubs

Digital Innovation Hubs services

Local EDIH

- Test before invest
- Support to find investments
- Skills and training
- Innovation ecosystem and networking

Digital Transformation Accelerator

European Network

- Offer support for digital transformation which is adapted to local needs, based on a specialisation
- Build regional ecosystems of users and suppliers, strengthening local innovation environment
- Connect to the whole of Europe through the network:
  - Share best practices with other hubs
  - Connect local SMEs to SMEs outside the region, building new value chains in Europe
  - Disseminate digital capacities of Digital Europe Programme to local community

Network of European Digital Innovation Hubs

SME/public entity

Local EDIH

DTA

Digital Transformation Accelerator

European Network

| 325 candidates preselected by countries	283 proposals submitted to EC call	136 EDIHs invited to prepare a grant	As of Sept/Oct they become operational	Around 70 "synergy" grants (ERDF – RRF)
		Call 2, dl 16 Nov 2022	Selection of 17 additional EDIHs	Will become operational before summer 2023
		82 EDIHs with Seal of Excellence	MS/regions could fund them with RRF/ERDF	May become full member of the network

Expected size of the network in 2023: 180-200 EDIHs
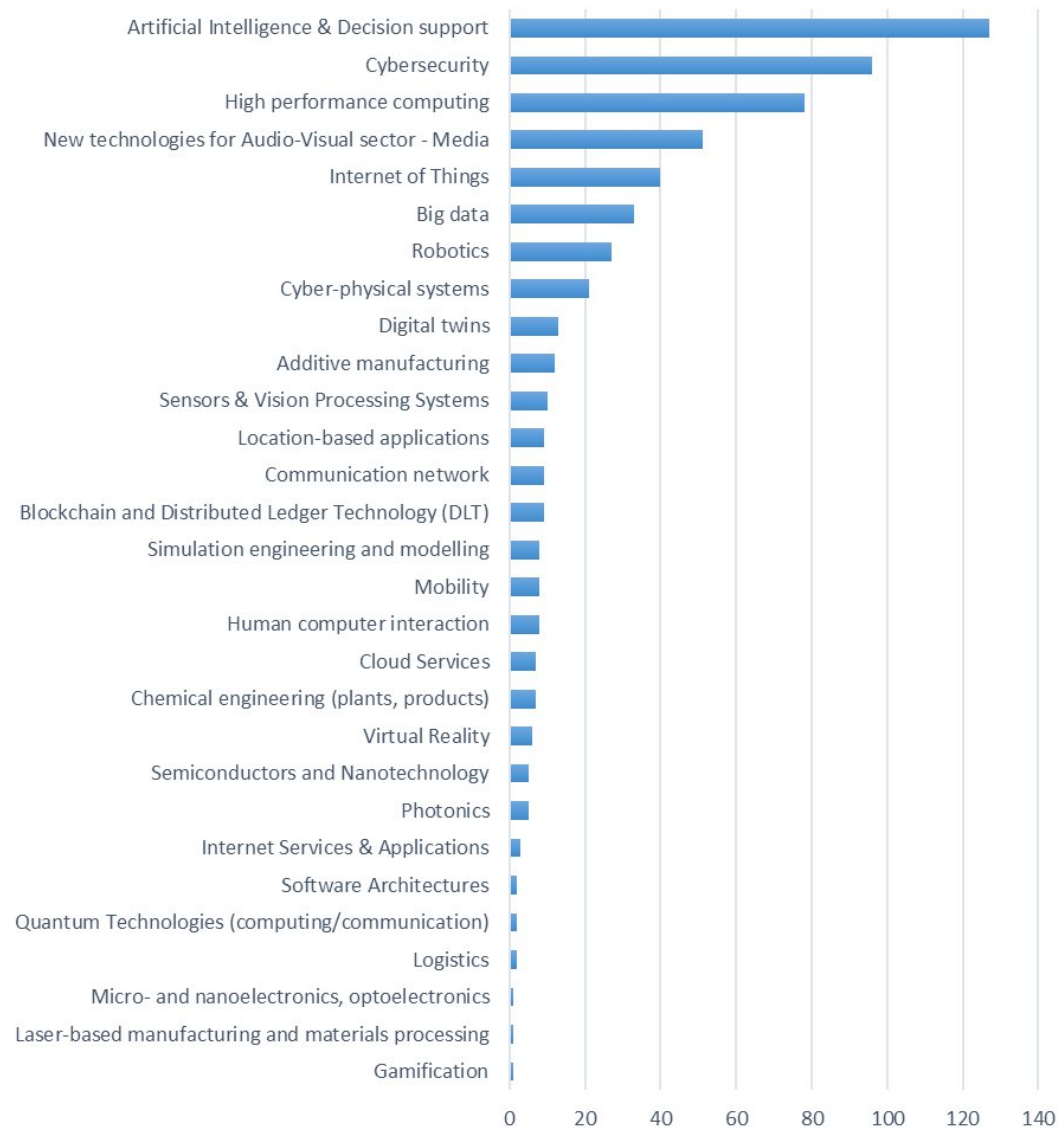
CNECT/A4/YP - 2022
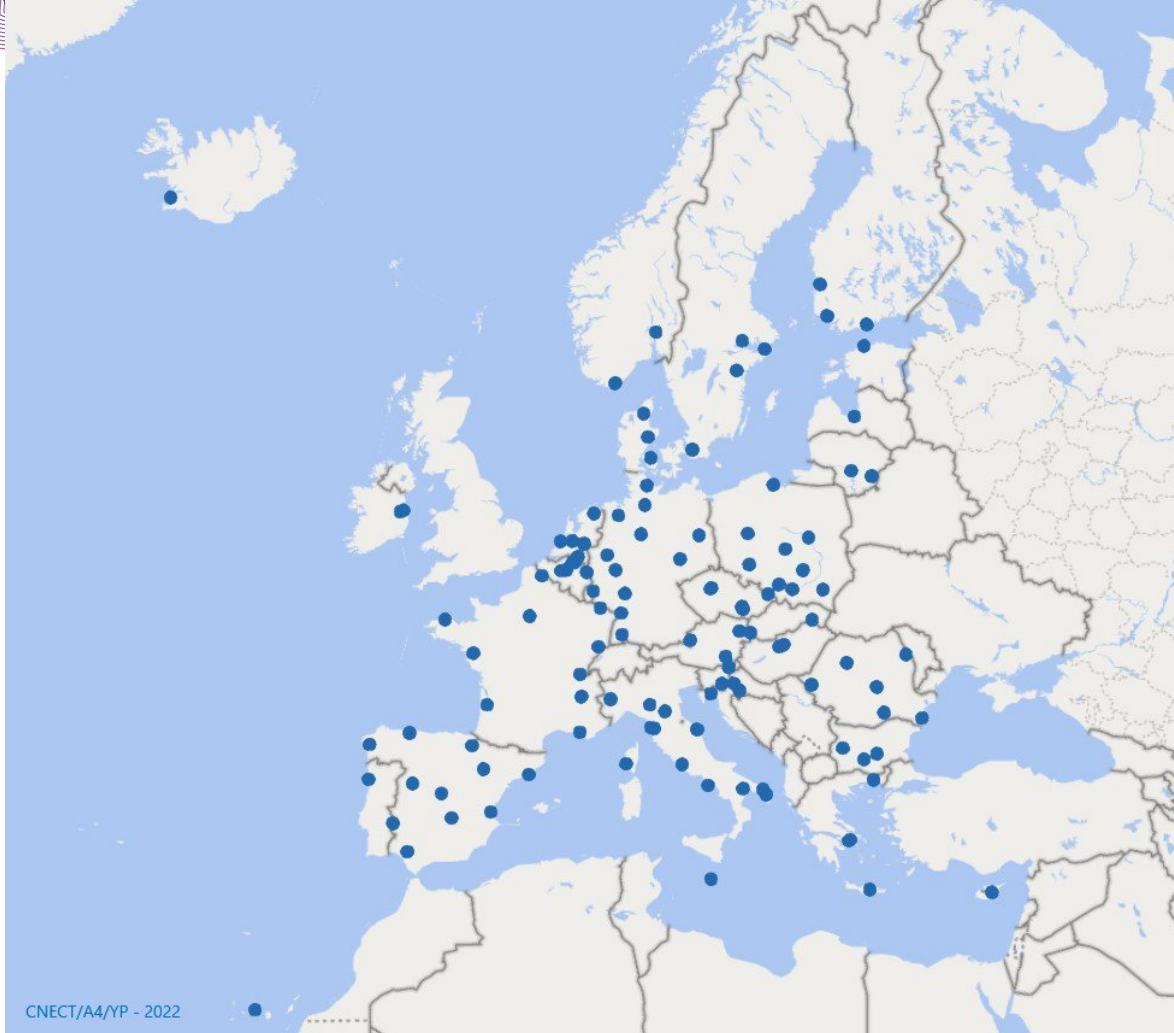
- 136 EDIH grant agreements are progressing well

- Main start dates being 1st of October, November, and January

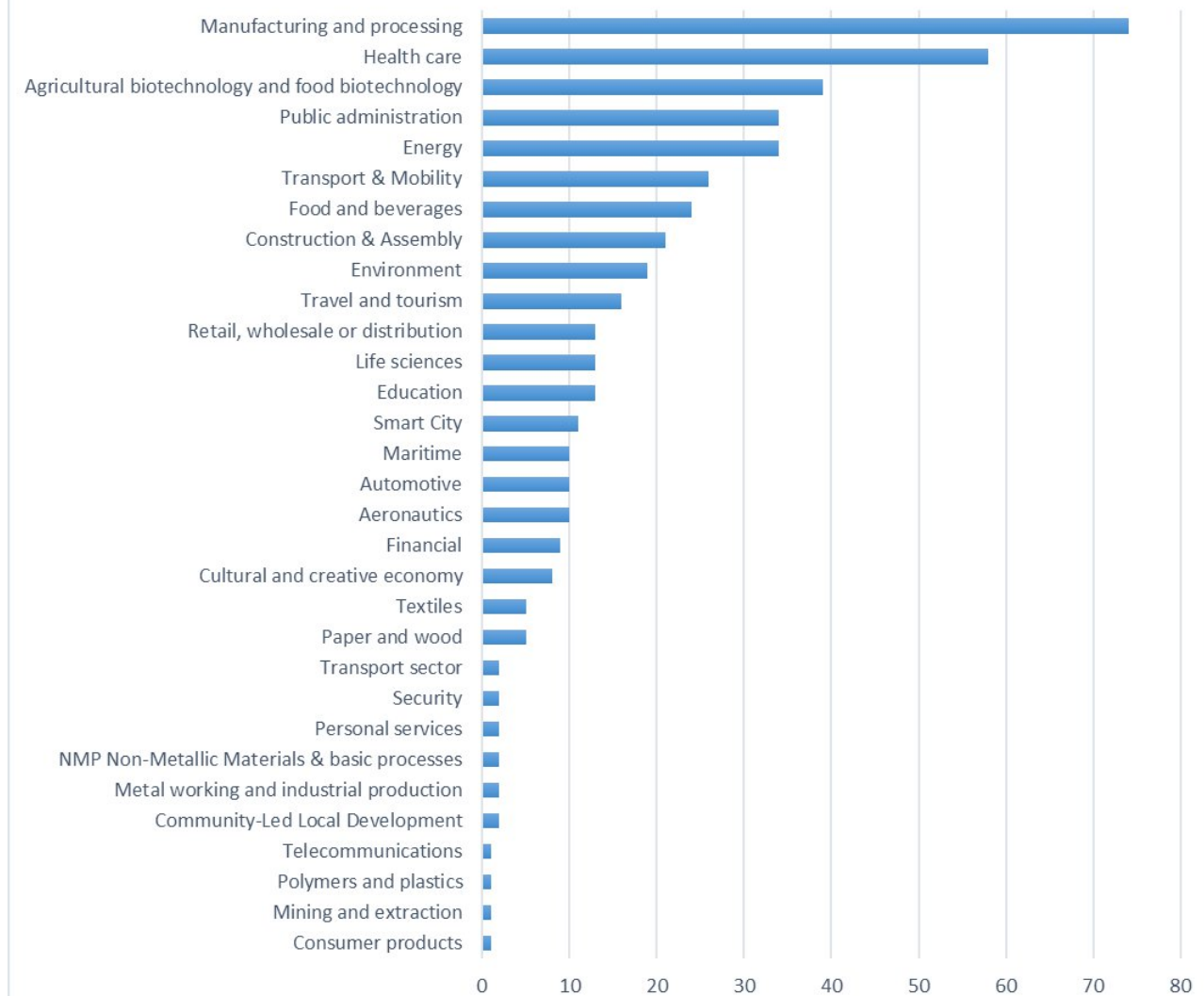- First grant agreements reached signature stage by EDIHs

Funded proposals

Technological coverage

Category	Value
Artificial Intelligence & Decision support	~128
Cybersecurity	~96
High performance computing	~78
New technologies for Audio-Visual sector - Media	~52
Internet of Things	~40
Big data	~32
Robotics	~26
Cyber-physical systems	~20
Digital twins	~13
Additive manufacturing	~12
Sensors & Vision Processing Systems	~10
Location-based applications	~9
Communication network	~9
Blockchain and Distributed Ledger Technology (DLT)	~9
Simulation engineering and modelling	~8
Mobility	~8
Human computer interaction	~8
Cloud Services	~7
Chemical engineering (plants, products)	~7
Virtual Reality	~6
Semiconductors and Nanotechnology	~5
Photonics	~5
Internet Services & Applications	~3
Software Architectures	~2
Quantum Technologies (computing/communication)	~2
Logistics	~2
Micro- and nanoelectronics, optoelectronics	~1
Laser-based manufacturing and materials processing	~1
Gamification	~1

Sectoral coverage

Category	Value
Manufacturing and processing	~74
Health care	~58
Agricultural biotechnology and food biotechnology	~39
Public administration	~34
Energy	~34
Transport & Mobility	~26
Food and beverages	~24
Construction & Assembly	~21
Environment	~19
Travel and tourism	~16
Retail, wholesale or distribution	~13
Life sciences	~13
Education	~13
Smart City	~11
Maritime	~10
Automotive	~10
Aeronautics	~10
Financial	~9
Cultural and creative economy	~8
Textiles	~5
Paper and wood	~5
Transport sector	~2
Security	~2
Personal services	~2
NMP Non-Metallic Materials & basic processes	~2
Metal working and industrial production	~2
Community-Led Local Development	~2
Telecommunications	~1
Polymers and plastics	~1
Mining and extraction	~1
Consumer products	~1

EDIHs Call 1

EDIH by technology (top 3)

- Artificial Intelligence & Decision support (Sum)
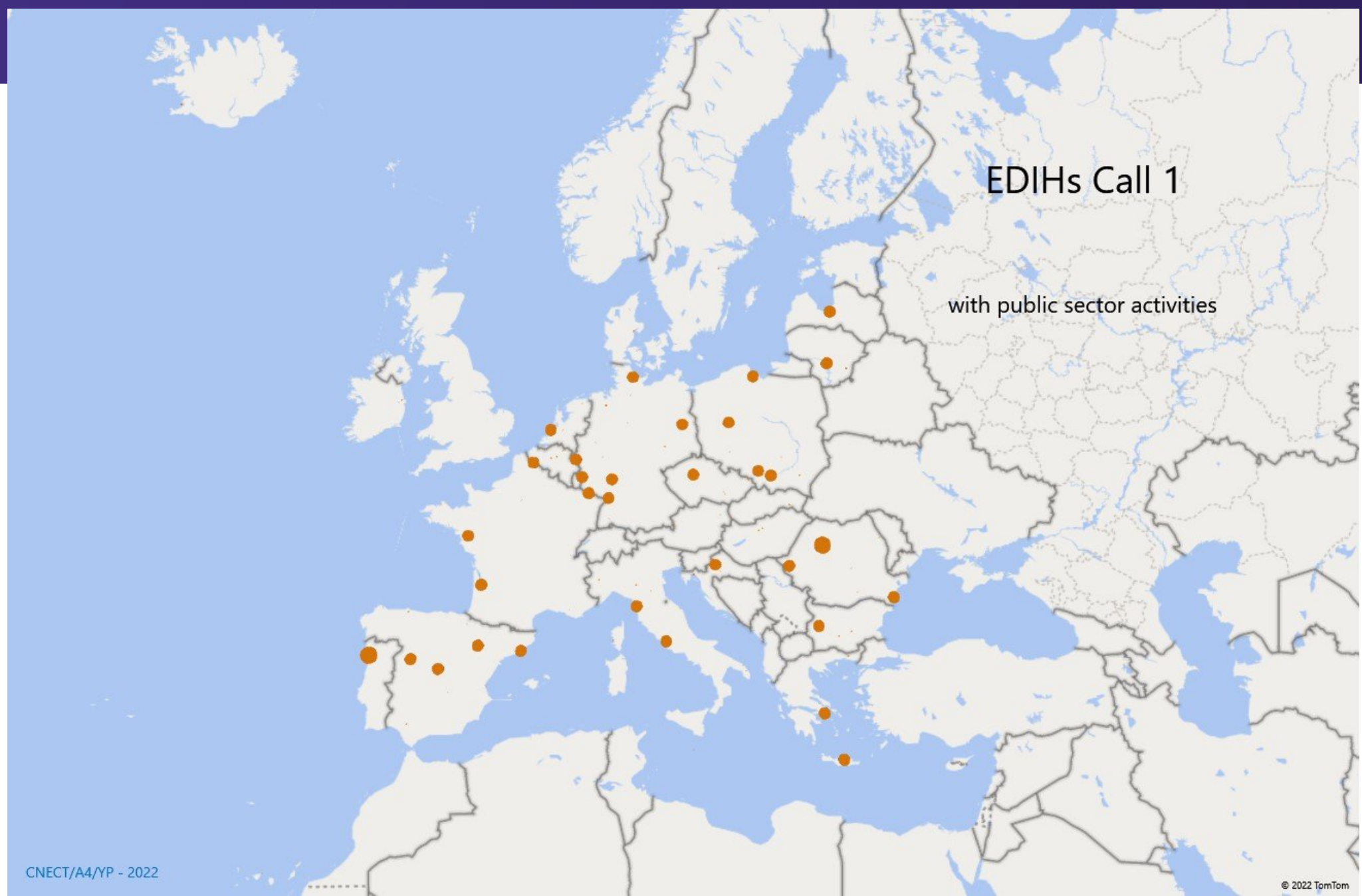- High performance computing (Sum)
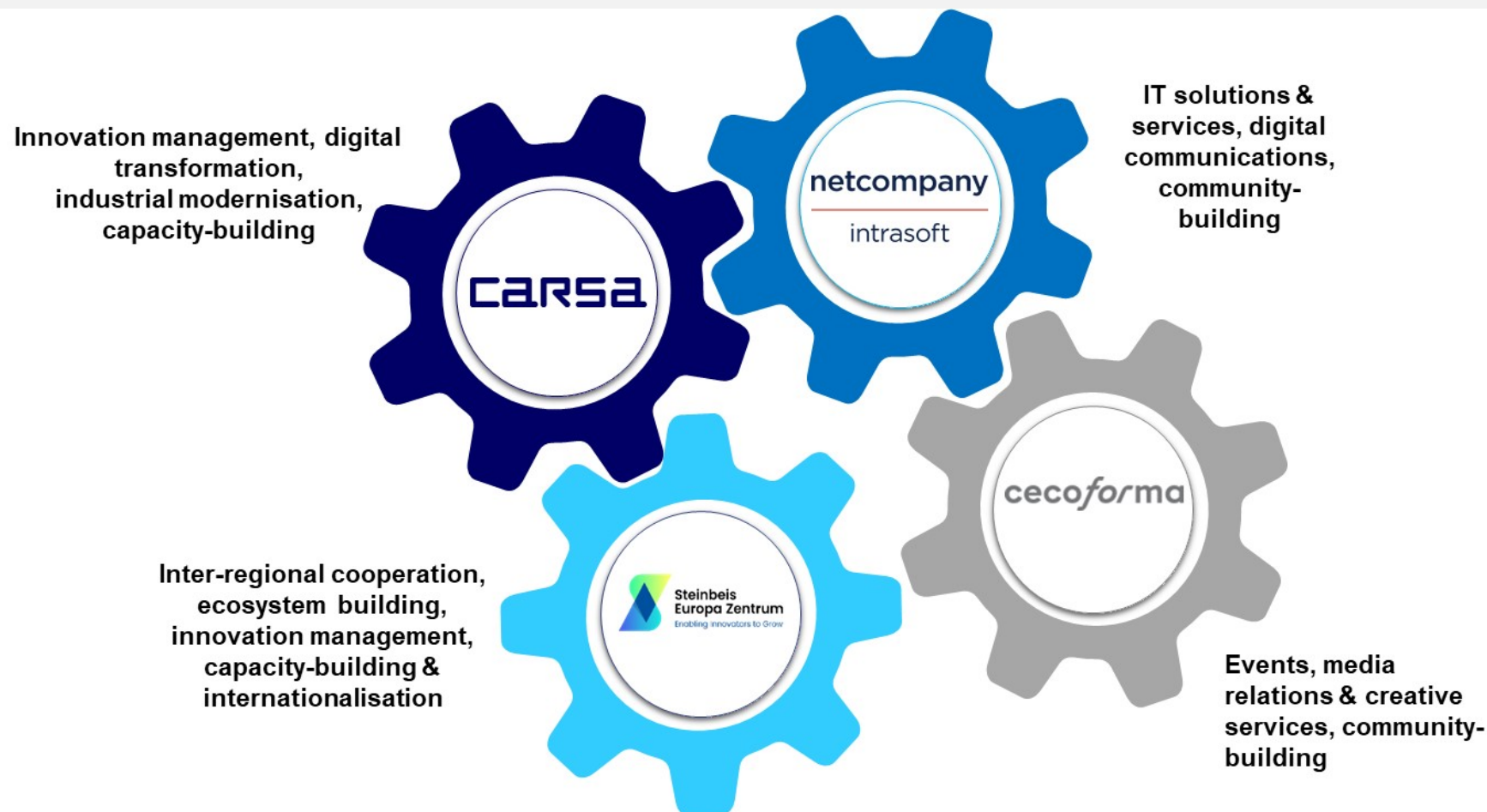- Cybersecurity (Sum)

CNECT/A4/YP - 2022

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EDIHs Call 1

EDIH by sector (top 3)

- Manufacturing and processing (Sum)
- Health care (Sum)
- Agricultural biotechnology and food biotechnology (Sum)

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EDIHs Call 1

with public sector activities

CNECT/A4/YP - 2022

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DTA consortium

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Services to be provided

| Category	Services
Guidance and advice	• Training/educational materials • Guidance content, Webinars • Virtual helpdesk
Training	• Online train the trainer courses, sessions and events
Matchmaking and networking	• Online events to facilitate interactions • Online matchmaking tools • EDIH catalogue
IT services, software platform	• Multiple IT tools to facilitate online interactions, exchanges, online collaborations
Media relations, communications, branding	• Social media • Press toolkit, press releases • Visual identity/unified brand • Newsletters
Impact assessment, data collection and analysis, road mapping	• Centralised data collection • Data analytics to derive insights • Annual impact assess reports, and road maps to defines future actions

- EDIHs will act as a **multiplier** and **widely diffuse** the use of all the digital capacities built up under the different specific objectives of DIGITAL.

- Networking is organised by the Digital Transformation Accelerator
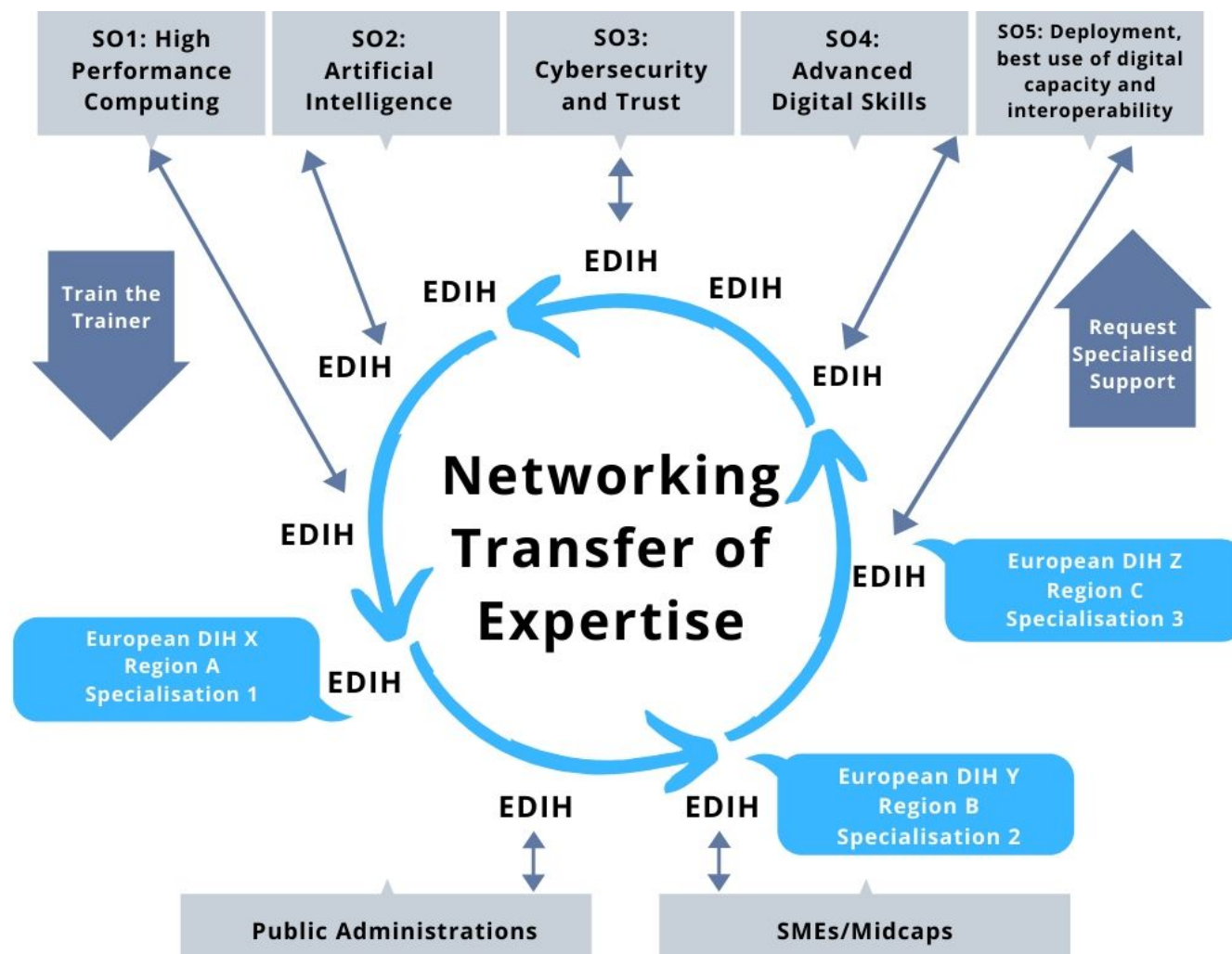
In order to reach out to all SMEs that can benefit from AI

AI European ecosystems

- AI-on-demand platform, Network of Excellence, R&I projects, AI Act, possible national sandbox, …

- Testing & Experimentation Facilities on AI: *soon (early 23)*

- Make available tools, solutions, services, infrastructures … to researchers, innovators, startups mainly
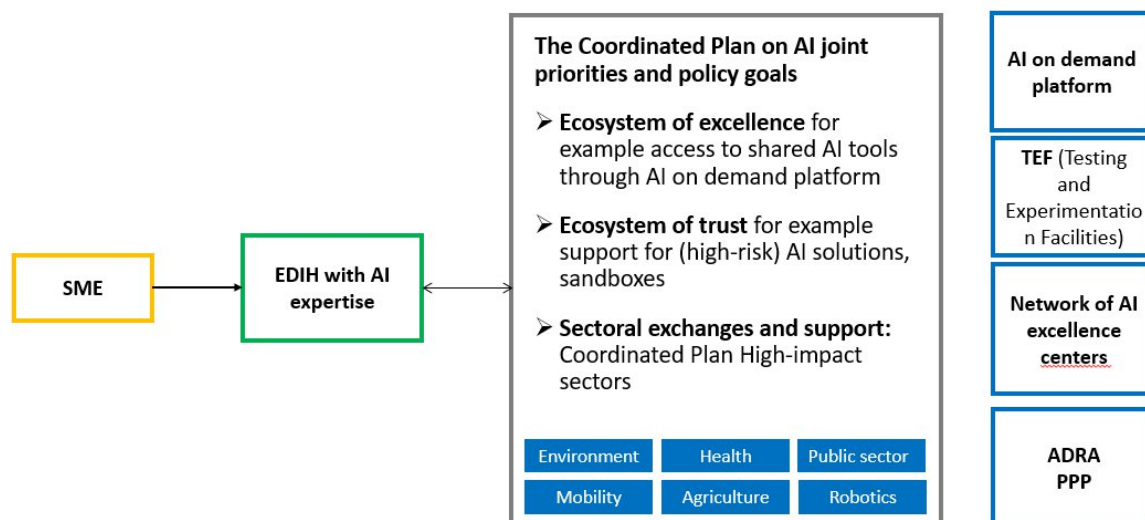
EDIHs

- Mix of generalists and AI specialists (technology/sector)

- One stop shop for digital transformation at regional level

- Mix of services, from basic training to advanced technology deployment

- "*At least one EDIH per country with AI expertise*"

    ➔ Selection and task list for presentation/discussion at the high-level meeting of the group of MS early December

The Coordinated Plan on AI joint priorities and policy goals

➢ **Ecosystem of excellence** for example access to shared AI tools through AI on demand platform

➢ **Ecosystem of trust** for example support for (high-risk) AI solutions, sandboxes

➢ **Sectoral exchanges and support:** Coordinated Plan High-impact sectors

| Environment | Health | Public sector |
| Mobility | Agriculture | Robotics |

AI on demand platform

TEF (Testing and Experimentation Facilities)

Network of AI excellence centers

ADRA PPP

SME → EDIH with AI expertise

Keep in touch

Matthias Kuom

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Directorate-General for Communication Networks, Content and Technology
Artificial Intelligence & Digital Industry – Digital Transformation of Industrial Ecosystems Unit

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