European Cybersecurity Certification Framework

European Commission

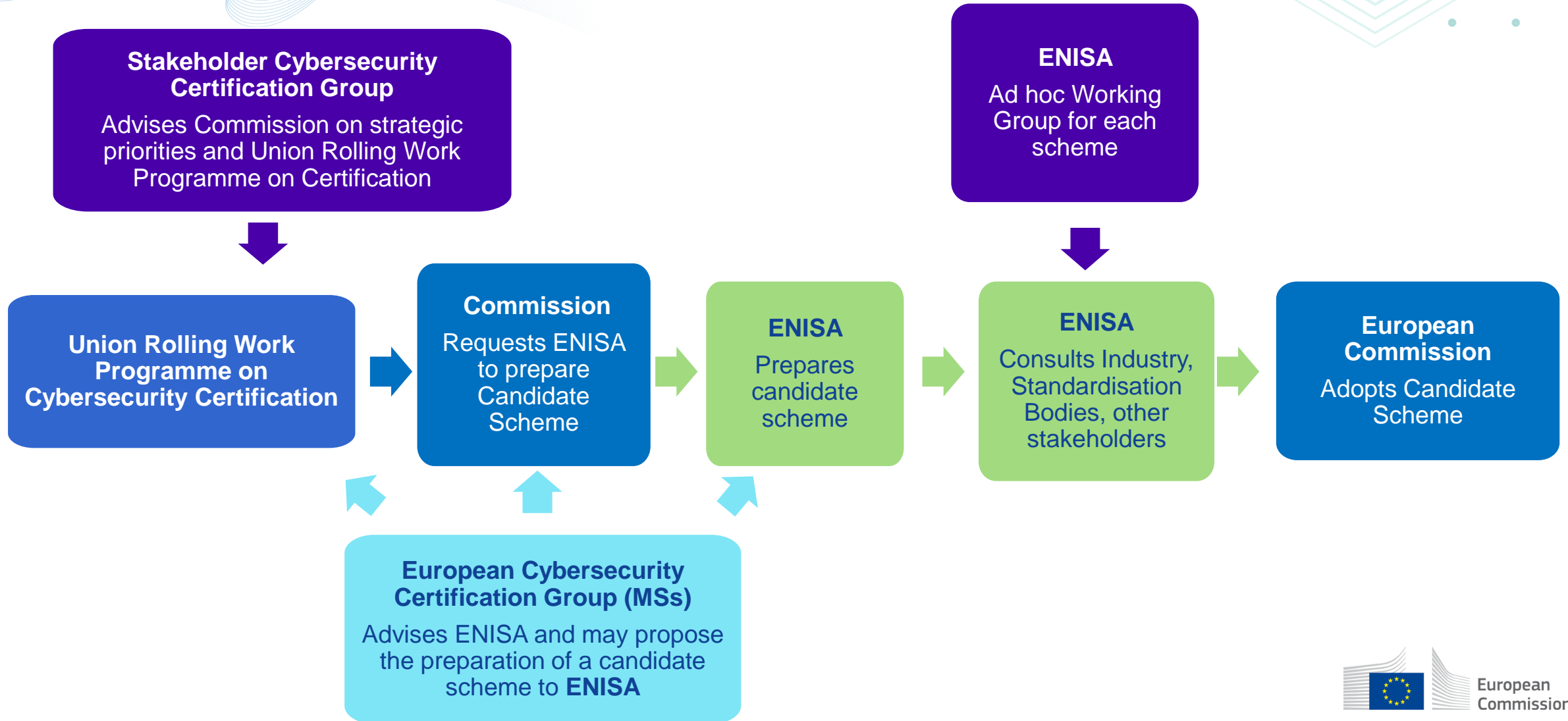# European Cybersecurity Certification Framework

Digitalisation of society leads to greater need for cyber secure products and services

A common European approach to cybersecurity certification in the Single Market

Fit for purpose, voluntary, European Cybersecurity Certification Schemes

European Commission

How: Establishment of an EU Cybersecurity Certification Scheme

Stakeholder Cybersecurity Certification Group

Advises Commission on strategic priorities and Union Rolling Work Programme on Certification

ENISA

Ad hoc Working Group for each scheme

Union Rolling Work Programme on Cybersecurity Certification

Commission

Requests ENISA to prepare Candidate Scheme

ENISA

Prepares candidate scheme

ENISA

Consults Industry, Standardisation Bodies, other stakeholders

European Commission

Adopts Candidate Scheme

European Cybersecurity Certification Group (MSs)

Advises ENISA and may propose the preparation of a candidate scheme to **ENISA**

European Commission

European cybersecurity certification framework – state of play

Cybersecurity Act

- Entry into force June '19

Candidate Schemes

- "SOG-IS MRA" – (Common Criteria)
- Cloud services
- 5G networks

Advisory groups

- ECCG - established
- SCCG - established

Union Rolling Work Programme for European cybersecurity certification

- Publication 2021

European Commission

Union Rolling Work Programme for European cybersecurity certification

➢ Identifies strategic priorities for future European cybersecurity certification schemes;

➢ Multi-annual document to be drafted by the Commission with inputs from SCCG and ECCG and other stakeholders;

➢ Cybersecurity Strategy stated that the URWP should be adopted in early 2021;

➢ It shall be updated at least once every three years and more often if necessary.

European Commission

Inclusion in the Union Rolling Work Programme

➢ Availability and development of national cybersecurity certification schemes;

➢ Relevant Union or Member State law or policy;

➢ Market demand;

➢ Developments in the cyber threat landscape;

➢ Request of a candidate scheme by ECCG.

European Commission

Timeline

June 2020

Food for Thought paper

1st SCCG Meeting

November 2020

Draft URWP

Jan / Feb 2021

SCCG / ECCG to adopt

Opinion

February 2021

EC's Interservice

consultation

March 2021

Adoption of URWP

Consultations on draft Union Rolling Work Programme

➢ The Commission to take due account of the comments and Opinions of the SCCG and the ECCG on the Food for Thought paper and draft URWP.

➢ Feedback sought on:

      ➢ Strategic priorities;

      ➢ Future candidate schemes;

      ➢ Areas for future reflection.

European Commission

Strategic Priorities for European cybersecurity certification

➤ Standardisation;

➤ Security by design;

➤ Risk-based approach;

➤ Coherence (horizontal and vertical requirements);

➤ International cooperation;

➤ Measurement of scheme efficiency.

Possible candidate schemes & Areas for future reflection

➢ Ground(s) for inclusion in URWP;

➢ Internet of Things; Industrial Automation Control Systems;

➢ Lightweight Evaluation;

➢ Secure Development Lifecycle (SDL);

➢ Artificial Intelligence;

➢ Cryptographic mechanisms;

➢ Security audit service providers.

To help businesses big and small to harness the full potential of AI, we will invest in a network of local digital innovation hubs and in centres of excellence for advanced research and educationn.

Digital Innovation Hubs are at the core of European digital policy, which is based on the twin Green and Digital transition.

19/02/2020

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Enterprises with High levels of Digital Intensity
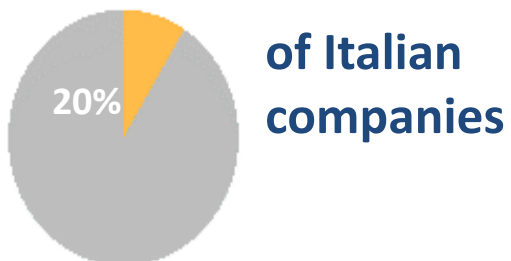
Year:2019

European Commission, Digital Scoreboard
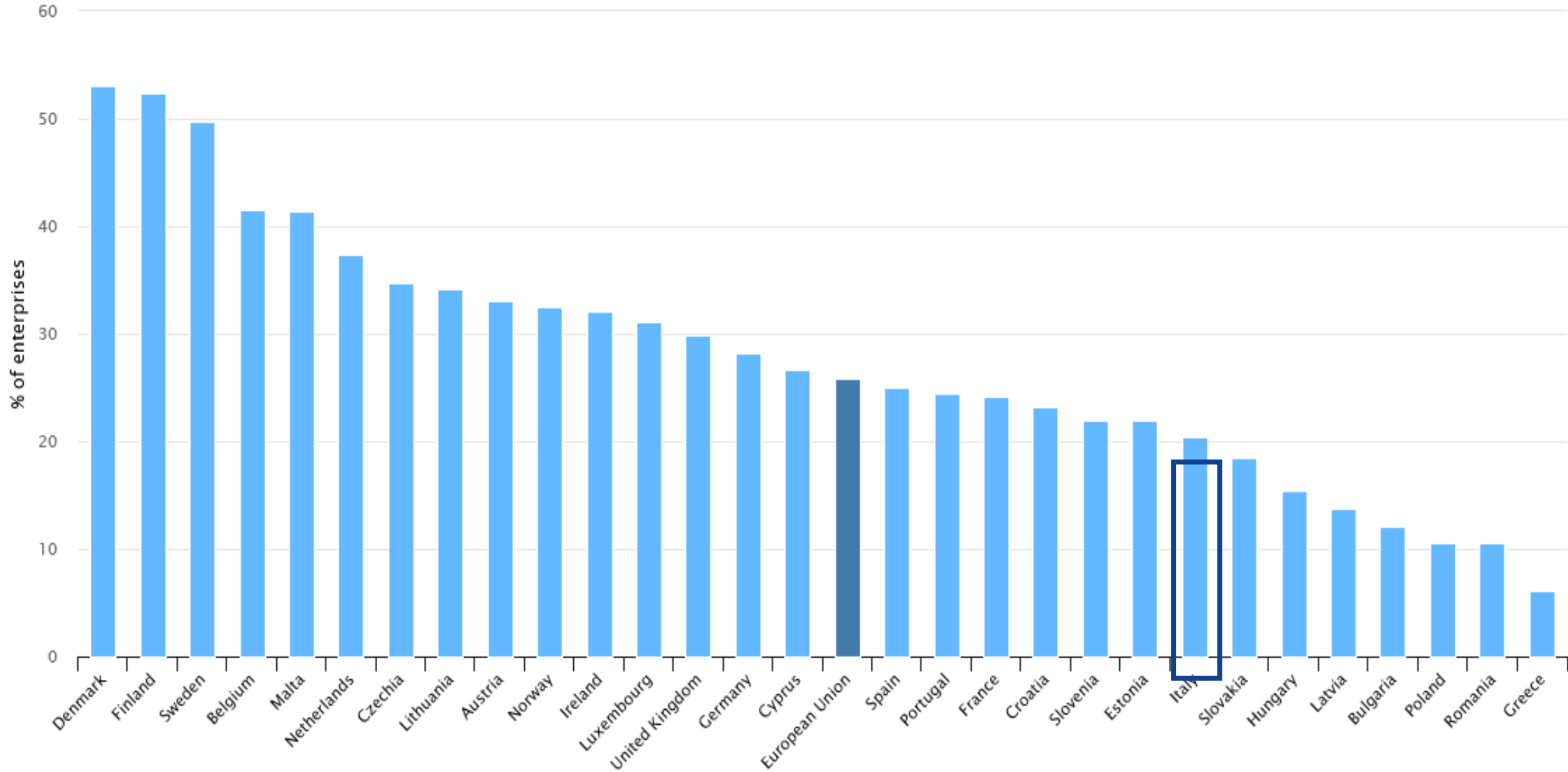
European companies are not making the most of all the opportunities digital has to offer
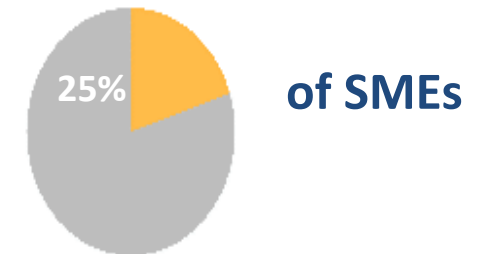
Highly digitised companies across Europe (2019

Countries

53% of Danish companies

20% of Italian companies

Sector

70% of computing companies

11% of construction companies

Size

25% of SMEs

62% of large enterprises

European Commission
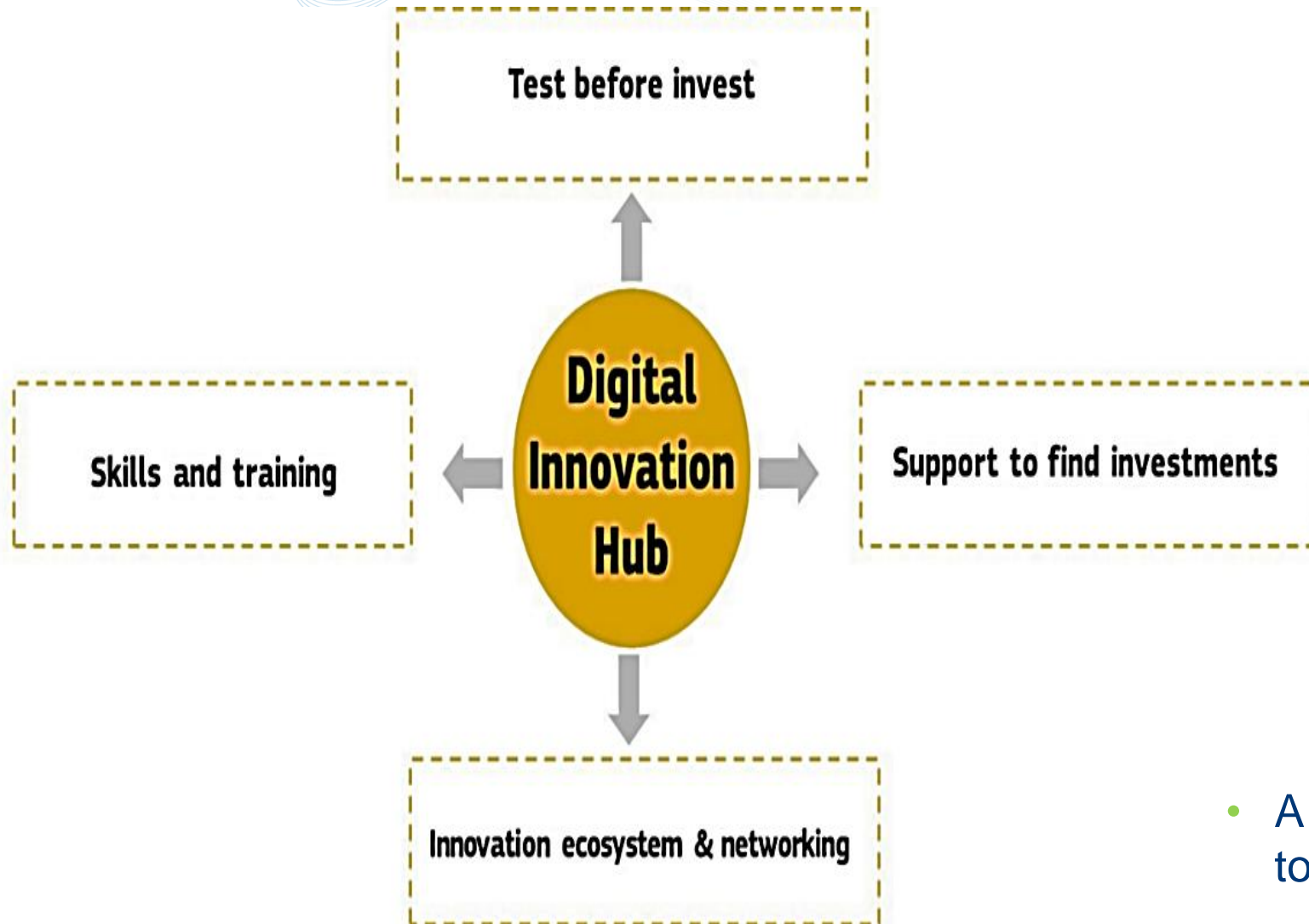
European Digital Innovation Hubs provide <u>technological expertise</u> and <u>experimentation facilities</u> to enable the <u>digital transformation</u> of the <u>industry and the public sector</u>

Test before invest

Skills and training

Digital Innovation Hub

Support to find investments

Innovation ecosystem & networking

Typical participants:

- Research and Technology Organisations, Technical Universities
- *In collaboration with:*
  - Industry associations
  - Clusters
  - Enterprise Europe Network
  - Accelerators/Incubators
  - Innovation agencies
  - Vocational training institutes

- A geographically spread network of up to 240 EDIHs

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**Digital Innovation Hubs in Horizon 2020**

- Support to more than <u>2000</u> Start-ups, SMEs to test digital innovations
- 500 ml of EU funds

European Digital Innovation Hubs in the Digital Europe programme

- From support to capacity building
- Co-funding from Member States

Digital Transformation Accelerator

- Next order of magnitude as the EDIH network gets larger
- To promote a well-structured European network
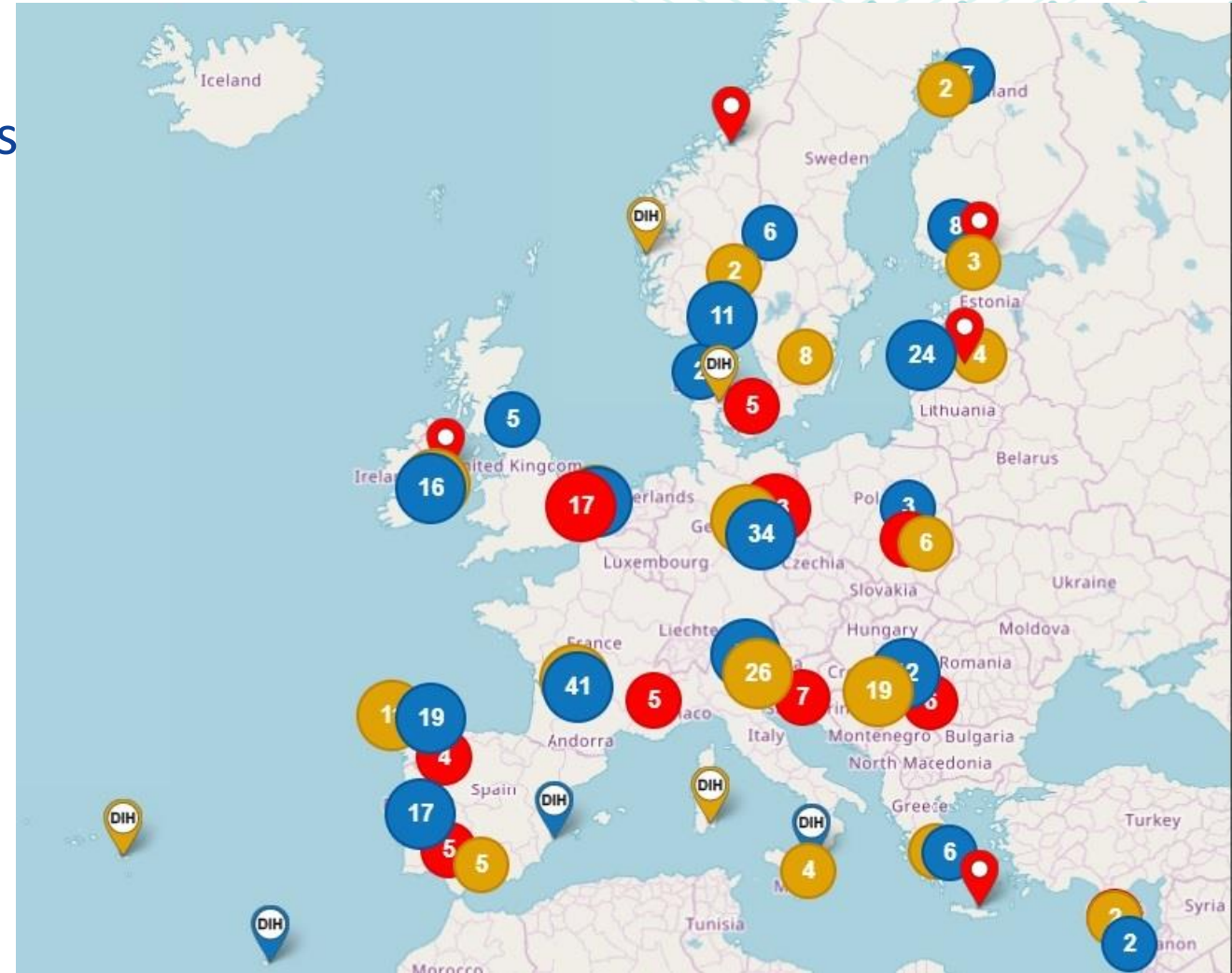
Next steps

- All MS are about to finalise their pre-selection process.

- Restricted call of Digital Europe Programme will be launched in Q1 2021, the deadline will be at least 10 weeks later.

- On-line Info day on DIGITAL: 4-5 March 2021. Session on EDIH on 5 March.

- Further workshops if needed (e.g. writing EDIH proposals)

European Commission

Some numbers

● **25 countries** have preselected their candidate entities
- 24 Member States + Norway

● **323 EDIH candidates** pre-selected by the countries

Specialisation

AI	HPC	Cyber-security
211	95	137

Other digital technologies

Auto-mation	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	Mari-time	Mobility	Skills	Social care	Sustainability	Tourism	Energy
64	20	29	19	80	105	16	38	139	24	57	86	6	66	26	32

European Commission

More information

Digital Innovation Hubs
https://ec.europa.eu/digital-single-market/en/digital-innovation-hubs

Digital Innovation Hubs in Digital Europe Programme
https://ec.europa.eu/digital-single-market/en/european-digital-innovation-hubs-digital-europe-programme-0 (containing also information about contact persons in the Member States and info days)

Practical handbook for investing in DIHs
https://ec.europa.eu/newsroom/dae/document.cfm?doc_id=66604

Implementation details of European DIHs in Digital Europe Programme
https://ec.europa.eu/newsroom/dae/document.cfm?doc_id=62936

Catalogue of Digital Innovation Hubs
https://s3platform.jrc.ec.europa.eu/digital-innovation-hubs-tool