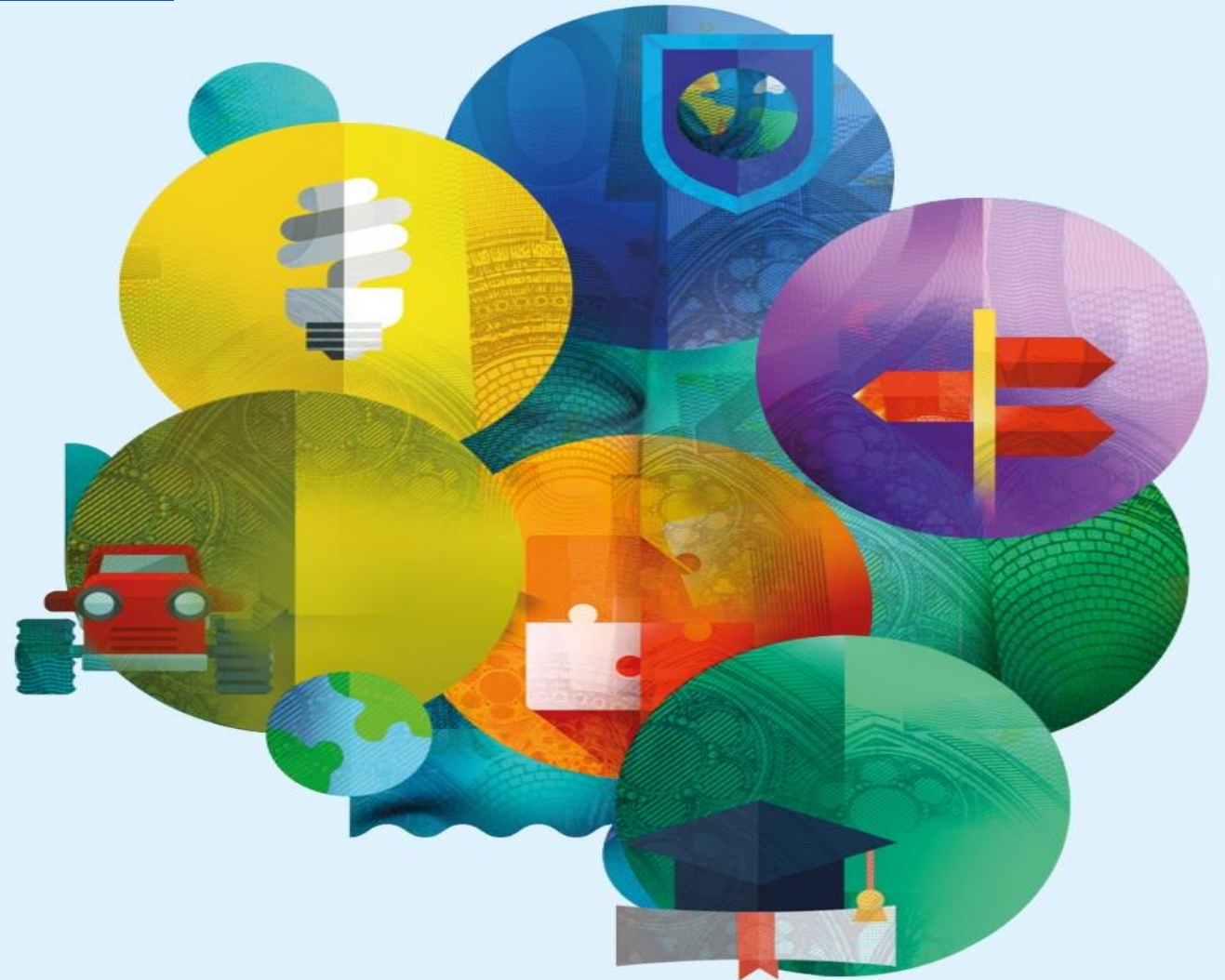


Digital Europe programme



*Annalisa Bogliolo
European Commission - DG CNECT
DIGITALEUROPE
13 January 2021*

Digital Europe Programme:

recap the main objectives

strategic autonomy



Compete globally

Other regions of the world invest huge amount of public capital in advanced technologies. For example, the US and China spend € 10-20 billion annually on AI alone



Better address Europe's economic and societal challenges

E.g. climate, health, mobility and public services



Achieve scale through collective co-investments

Given the size of investments needed, scale required and risks involved Europe needs to pool the resources together



Ensure broad take-up of digital technologies across all regions of EU

In deploying latest technologies to offer best services to citizens and business



Regain control over Europe's value chains

and ensure Europe's technological sovereignty



Support SMEs to acquire or access the latest technologies and skills

More than 400,000 EU vacancies in these fields

Overall planning

- First Orientations July 2019 : public consultation until October 2019
- Work programme content discussed with Member States Expert Group
 - **MFF Negotiation concluded**
 - **DEP Regulation adopted in Feb – March 2021**
 - **Budget reduced by 17,4% from original Commission proposal by Council and Parliament**
- Work programme ready end of February 2021
- First call open in the first half of March 2021
- First Grant Agreements signed in Q4 2021
- Second call in Q3/Q4 2021
- Third call in Q1 2022

timing depending on Regulation adoption

Digital Europe is complementary to other programmes with investments in digital

| EU-wide collective effort | | | | | National regional and local | | | Financial instrument |
|---------------------------|--|---|----------------------------|-----------------------|---|---|--|--|
| Horizon Europe | Digital Europe | CEF | Creative Europe | Health | Cohesion | Agriculture Funds | RRF | InvestEU |
| Research Innovation | Strategic capacities: computing, data, testbeds, etc. Advanced digital skills EU-Wide deployment | Broadband and 5G roll out Connecting Communities | Creative industry Media | Telemedicine eHDSI | 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 | Connect Scale-up Modernise Reskill and Upskill 20% digital | Leverage private capital for investments in SMEs, research, digital, infrastructure, skills... |

Digital Europe "deliverables"

Pending programme adoption

- Focus is on delivery actual results. It will make use of the most recent research results, but it will not support research.
- For example, the programmes will support:
 - The acquisition of HPC machines
 - The set-up of sectorial data spaces, eg manufacturing
 - The building or reinforcing of Testing and Experimentation Facilities
 - The set up and delivery of Master courses in key advanced digital technologies
 - The set-up, interoperability, operations and maintenance of a number of services in the eGov area

Some implementation features

Pending programme adoption

For each topic to be funded :

- The work programme defines the objectives, scope and expected outcome
- The Call Text, published at call opening, defines all the technical details

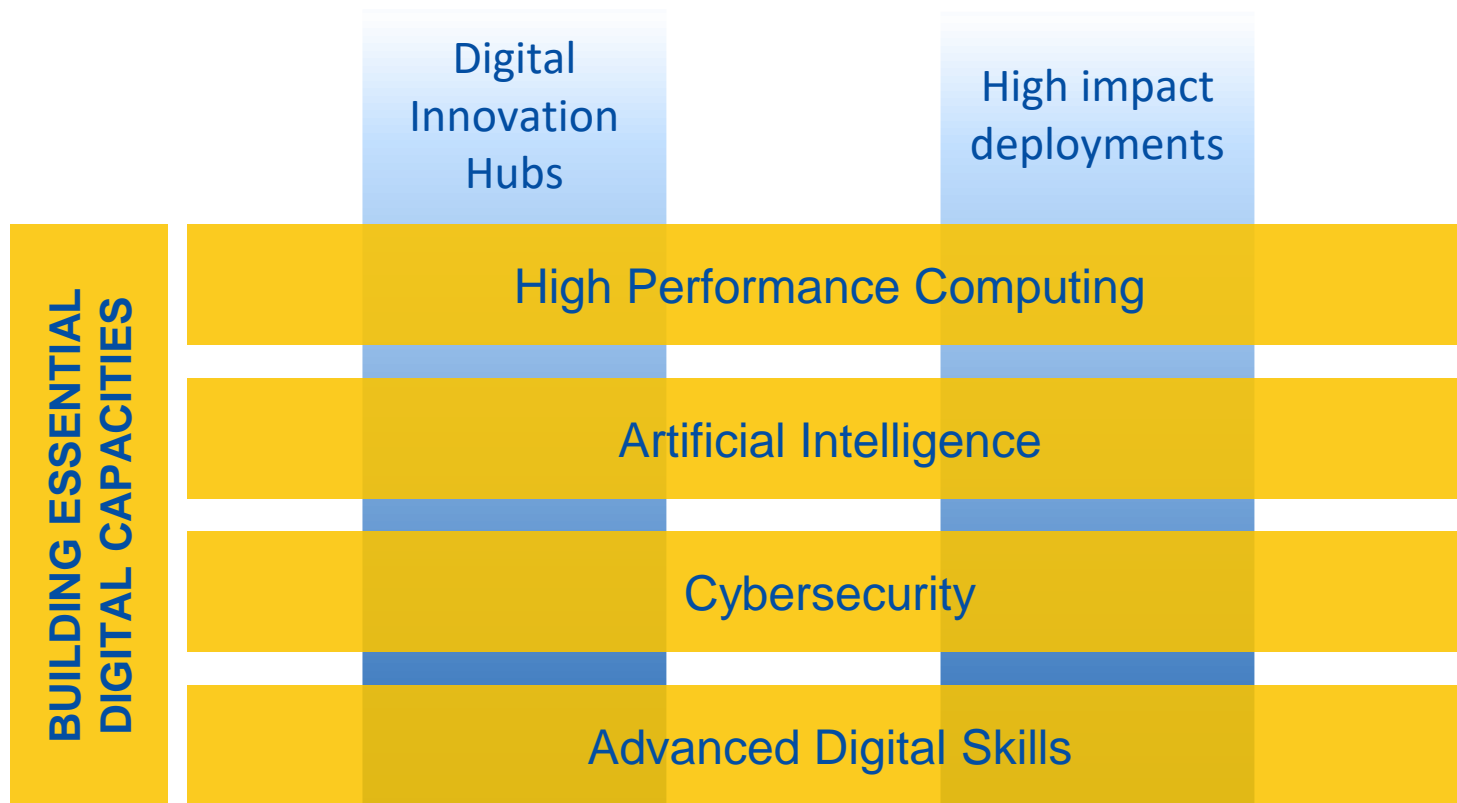
Funding schemes :

- Similar but not exactly the same to Horizon, e.g.
 - Grants with cost reimbursement 50% for everybody or with 75% for SMEs
 - CSA at 100%

Digital Europe programme structure

Pending programme adoption

ACCELERATING THE BEST USE OF DIGITAL TECHNOLOGIES



Pending programme adoption

High Performance Computing



- This action will be managed by the EuroHPC JU
 - Information below is only preliminary and will be finalised by the EuroHPC Governing Board

Procure exascale machines

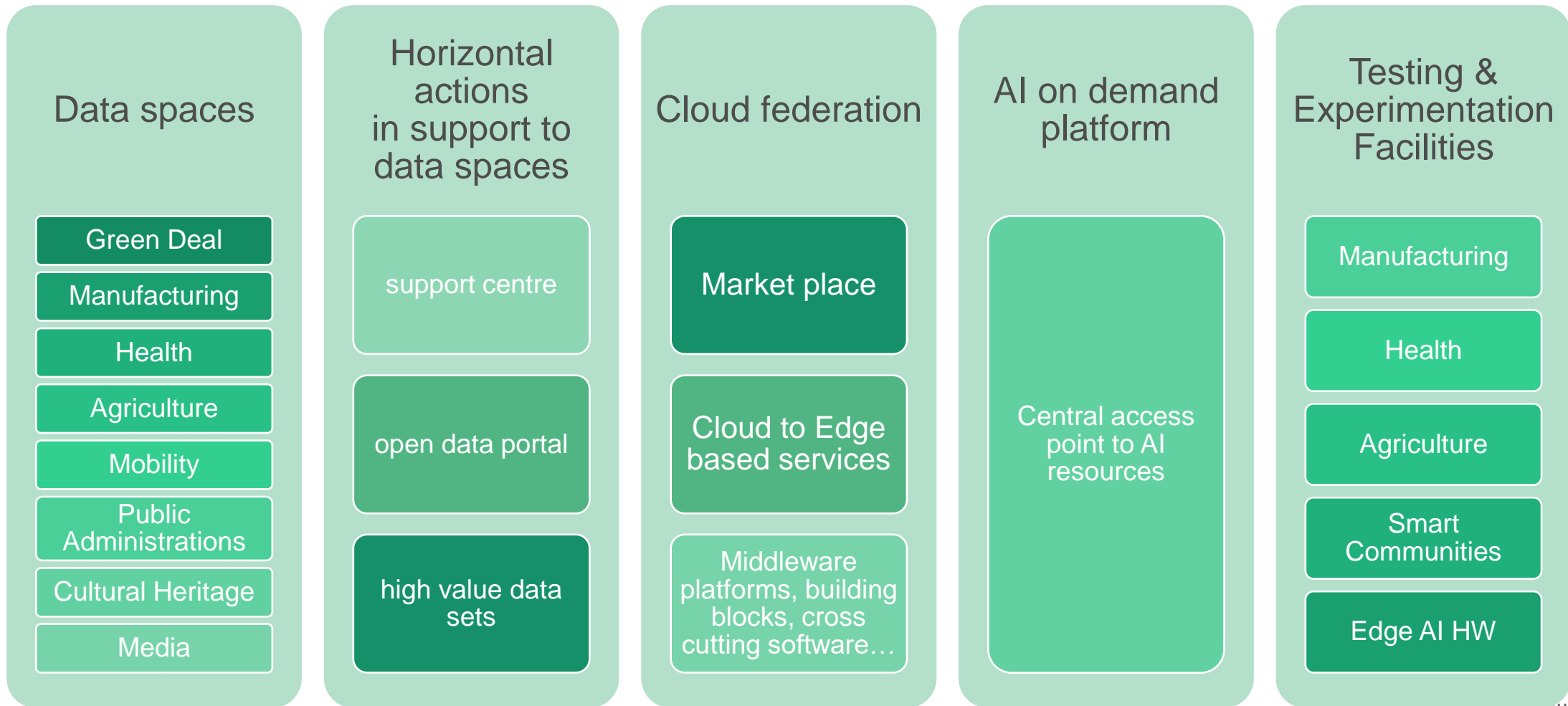
Upgrade existing supercomputers

Build a Quantum Computing Infrastructure

Widen the access to and use of supercomputing

Artificial intelligence, data and cloud

Pending programme adoption



Actions will be managed directly by CNECT

Cybersecurity and trust

Pending programme adoption



Most actions will be managed by the ECCCC, once established

Quantum Communication Infrastructure

Joint Preparedness, Situation awareness and Response

Support to Implementation of relevant EU Legislation

Support to market players and skills

Advanced digital skills

Pending programme adoption



Design and implementation of specialized education programmes and modules in key capacity areas (master classes)

Traineeships in key capacity areas

Short term trainings in advanced technologies
(contribution to SME strategy)

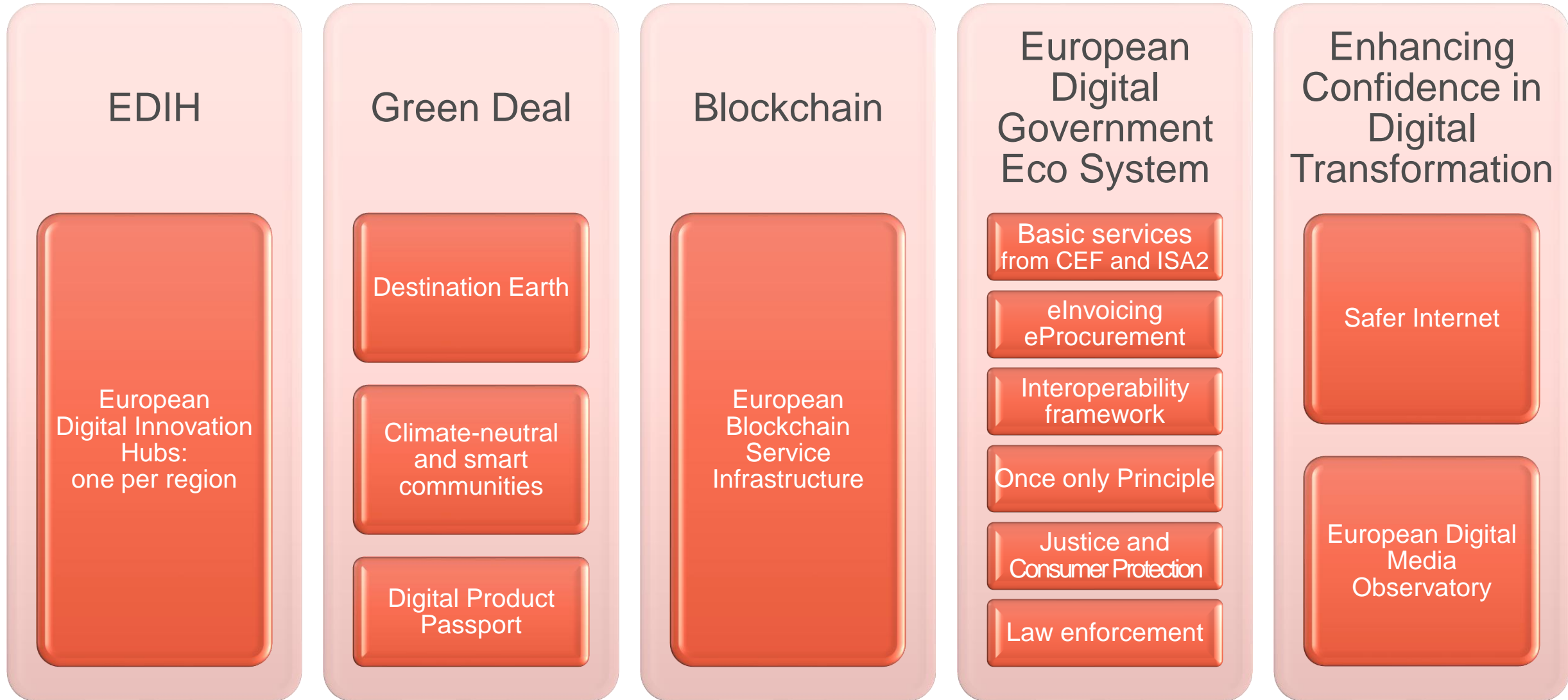
Digital skills platform

Digital transformation of Education

Actions will be managed through HaDEA

Pending programme adoption

Accelerating the best use of digital technologies



Actions will be managed through HaDEA, with the exception of the EDIH, which will be managed by CNECT

Deployment, best use of digital capacity and interoperability

Pending programme adoption



The European Digital Innovation Hubs

- The plan is to have at least one EDIH per region during the programme
- Task of the hubs : focus on digital transformation of SMEs and public sector (Adopt AI)
- EDIH will collaborate with all existing networks funded by other programmes and avoid overlap, also thanks to
- Member States involvement in designating the entities (consortia) which can participate to the call for proposal (existing centres might be designated to take over this additional role)

In summary

Pending programme adoption

High-performance computing

- Procure exascale machines
- Upgrade existing supercomputers
- Quantum computing
- Widen the access to and use of supercomputing

Cybersecurity

- Deploy competence centers network
- Cybersecurity shield, quantum communication infrastructure - QCI
- Certification schemes
- Cybersecurity tools

European digital innovation hubs

- At least one per MS



Artificial intelligence

- Data4EU : common Data Spaces, clouds, platforms and infrastructure
- Large Testing and Experimentation Facilities for Agriculture, health, mobility, manufacturing and AI edge HW
- Scale up the European AI platform to access tested AI technologies

Advanced digital skills

- Master courses
- Short term trainings
- Job placements
- Platform for Skills and Jobs

Deployments : emphasis on

- Destination Earth
- Climate-neutral and smart communities
- Continuation of investments (CEF – ISA2)
- Blockchain
- Enhancing confidence in the digital transformation

Thank you – Questions?



© European Union 2020

Unless otherwise noted the reuse of this presentation is authorised under the [CC BY 4.0](https://creativecommons.org/licenses/by/4.0/) license.

