Digital Europa programme
at a glance

10. mars 2022

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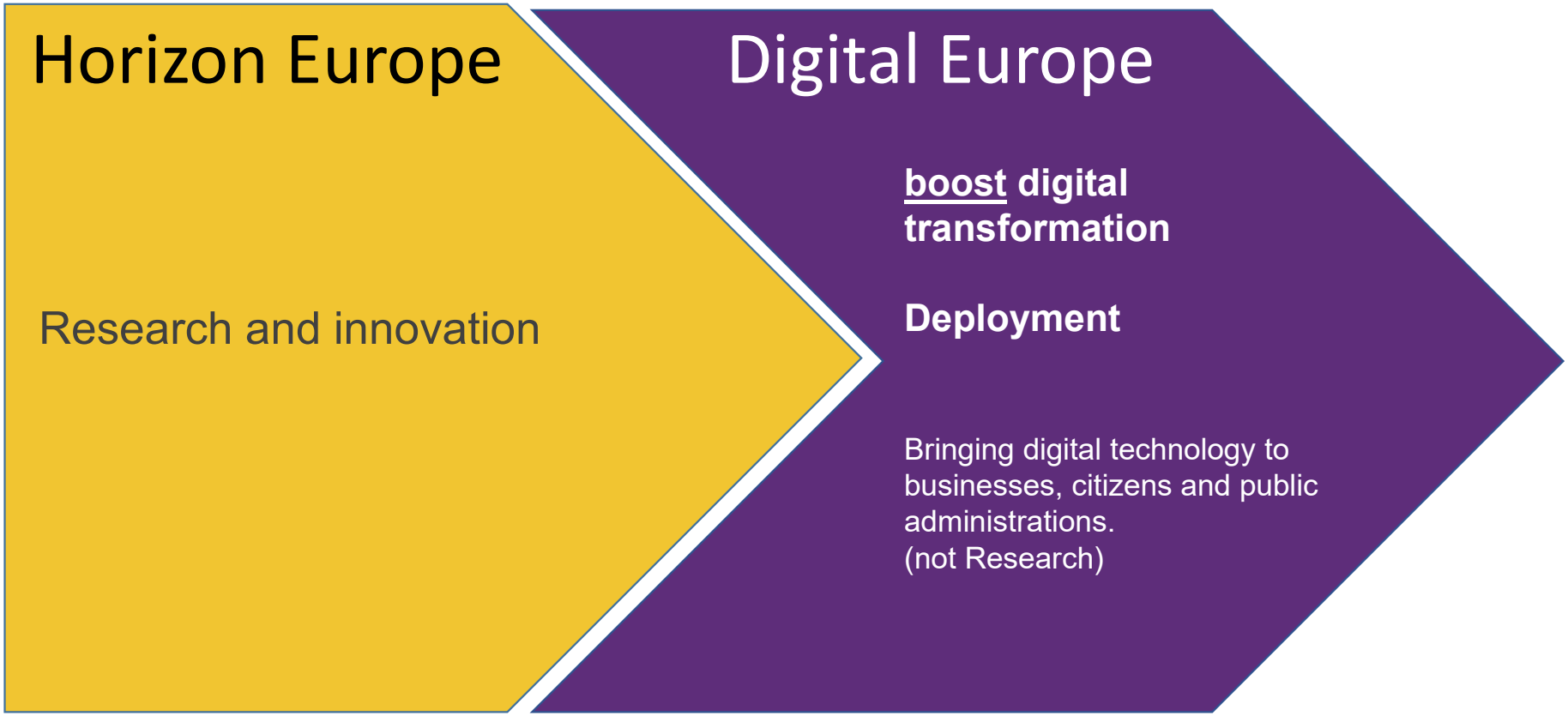
Forskningsrådet Digdir Innovation Norway

Horizon Europe and Digital Europe Programme



Synergies

Horizon Europe

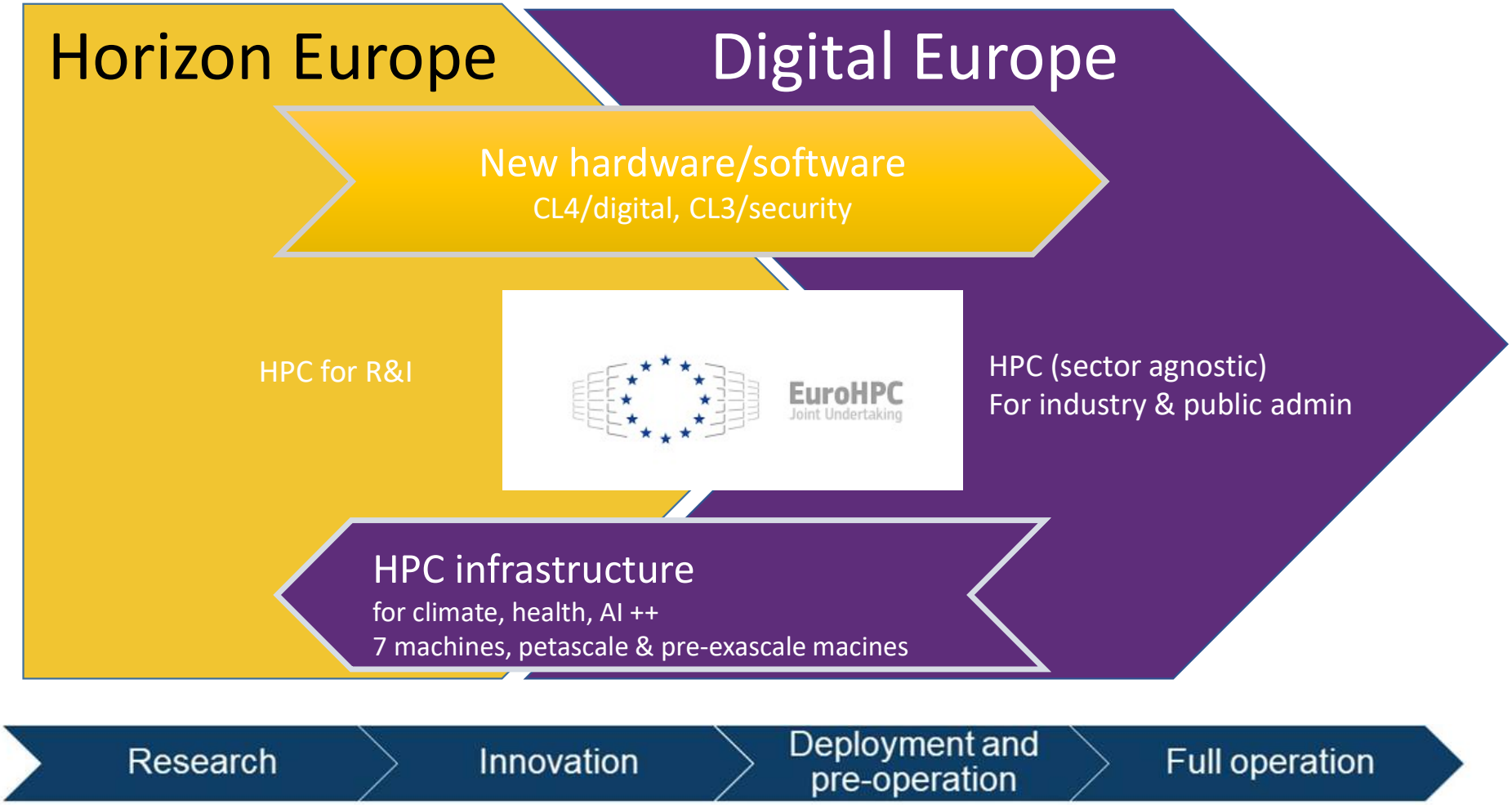
Digital Europe

Implementation, deployment
digital solutions, services, standards, etc

Infrastructure, data,
Test & Experimentation Facilities

Research → Innovation → Deployment and pre-operation → Full operation

Example – High Performance Computing



Example – Health

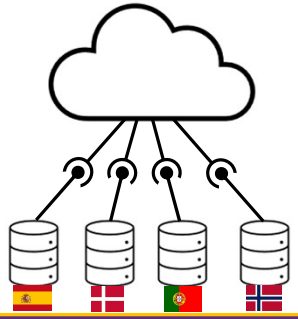
Horizon Europe

Digital Europe

New solutions, best practice, standards
CL1 digital health CL4/digital (destination 3)

CL1/digital health
CL4/digital
CL3/Security

Federated data space



«Federated European infrastructure for genomics data»

«Federated European infrastructure for cancer images data

Norge v/HOD har signert «1+G declaration linking genomic data across boarders»
Hdir og Helse-SørØst bygger et norsk genom-senter og kan via Digital Europa få en «plugg» sin realiserer en europeisk data-føderasjon som også kan brukes i EU4Health

Simple Mapping

Horizon Europe

R&I projects

ICT research & innovation

Pilots

EuroHPC Research infra. ++

Solutions

CL1/digital health
CL4/digital
CL3/Security

Digital Europe

Solutions

Infrastrucuture (DSI)

ISA² Programme

Connecting Europe Facility

ISA2 og CEF er ferdig i 2020, forts. i DIGITAL (SO5)

Research → Innovation → Deployment and pre-operation → Full operation

CEF: Connecting Europe Facility – targeted infrastructure investment

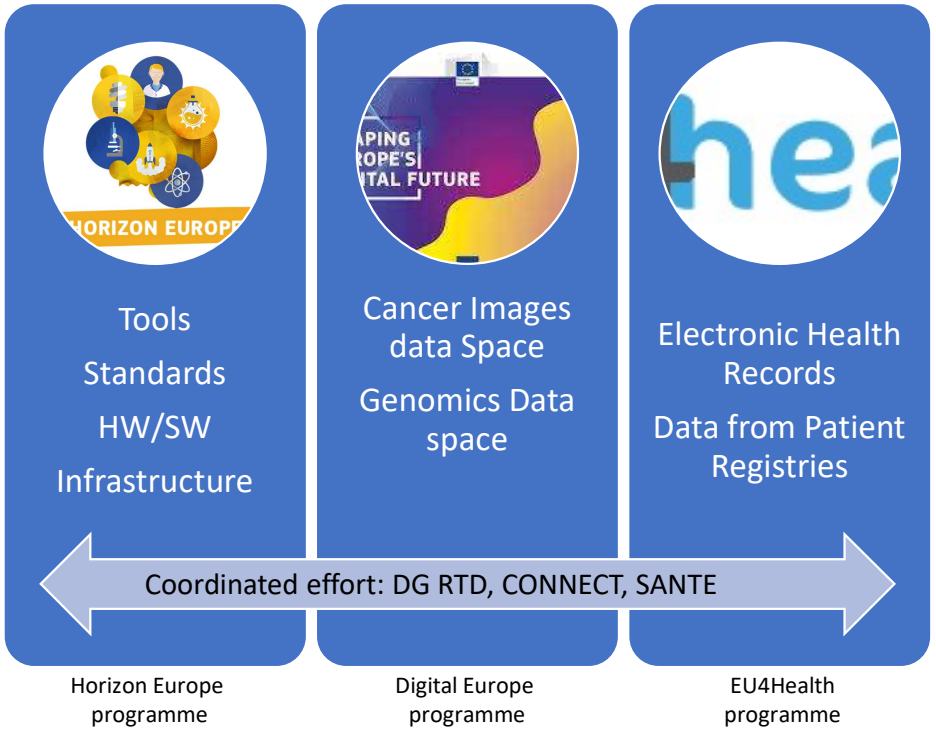
ISA² - Interoperability solutions for public administrations, businesses and citizens

Programme structure

Specific Objectives	Implementing bodies
SO1 - High Performance Computing	• Joint Undertaking EuroHPC
SO2 - Artificial Intelligence	• European Commission (mainly) • Health and Digital Executive Agency
SO3 - Cybersecurity & Trust	• European Cybersecurity Industrial, Technology & Research Competence Centre • European Commission
SO4 - Advanced Digital Skills	• Health and Digital Executive Agency (mainly)
SO5 - Deployment, best use & interoperability	• Health and Digital Executive Agency • European Commission notably for areas of public interest and European Digital Innovation Hubs
SO6: Digital Chips	Chips Joint Undertaking (KDT, HE Cluster 4 and EuroHPC)

European Health Data Space (EHDS)

- EHDS er et instrument for å implementere Europeisk datastrategi
- Strategien har som mål å skape et indre marked hvor data kan flyte fritt innenfor EU og på tvers av sektorer
- EUs finansieringsinstrumenter (HEU, DEP, EU4Health) støtter utviklingen og utplassering av de underliggende teknologiene, prosessene, standardene og verktøyene for operasjonalisering av EHDS
- På europeisk nivå leder ulike DGs (RTD, SANTE CONNECT) disse programmene på en koordinert måte
- Koordinert nasjonal mobilisering
  - HEU: KD (+ dep), Forskningsrådet, IN
  - DEP: KMD, Digital.direktoratet, Forskningsrådet, IN
  - EU4Health: HOD, Helsedirektoratet



Sammenheng mellom Horisont Europa (HE) og DIGITAL

Forskning

Horizon Europe

- supports the early stages of the innovation chain
- fund research and innovation (R&I) activities, including preliminary testing, proof of concept and pilot projects

Implementering

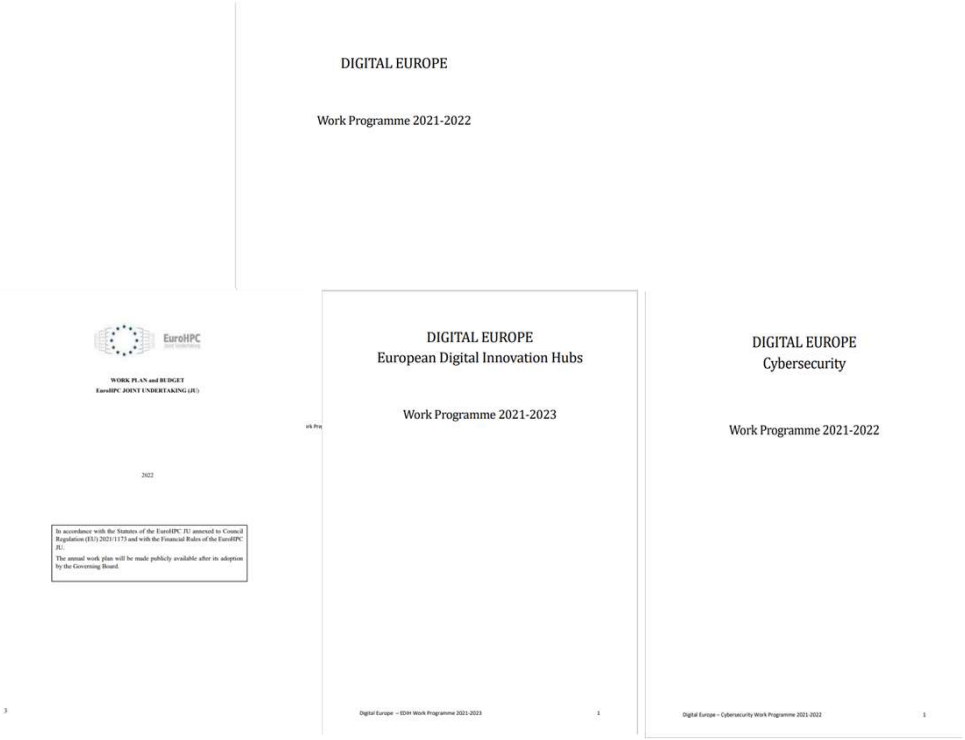
Digital Europe

- enables the technological deployment
- large scale pilots in real conditions
- take over successful research results and use them for new deployments

Ca. 94 mrd. euro

Ca. 7 mrd. euro

Four independent multiannual Work Programmes



- Digital Europe WP 2021-2022
  - Data, AI, Cloud
  - Quantum Communication Infrastructure
  - Advanced Digital Skills
  - Deployment & best use
- High Performance Computing (EuroHPC)
- European Digital Innovation Hubs (EDIH)
- Cybersecurity (ECCC & NCC*)
- First calls closed 22. feb 2022, second call opened same day

[Work Programmes - DIGITAL | Shaping Europe's digital future (europa.eu)]

*European Cybersecurity Competence Centre and the Network of National Coordination Centres

Utlysningene i andre runde er nå åpen med søknadsfrist på selveste nasjonaldagen 17. mai

	Q4-2021	Q1-2022	Q2-2022	Q3-2022	Q4-2022	Q1-2023	Q2-2023	Q3-2023
1 FIRST CALL	*UTLYSNINGS-ÅPNING (17.11)*	*SØKNADS-FRIST (22.02)*	*SØKNADS-EVALUERING*	*INFORMASJON OM TILDELING*	*KONTRAKTS-SIGNERING*			
2 SECOND CALL		*UTLYSNINGS-ÅPNING*	*SØKNADS-FRIST (17.05)*	*SØKNADS-EVALUERING*	*INFORMASJON OM TILDELING*	*KONTRAKTS-SIGNERING*		
3 THIRD CALL				*UTLYSNINGS-ÅPNING*	*SØKNADS-FRIST*	*SØKNADS-EVALUERING*	*INFORMASJON OM TILDELING*	*KONTRAKTS-SIGNERING*

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Second call – 20 topics

SO 2: CLOUD, DATA AND ARTIFICIAL INTELLIGENCE

AI Testing and Experimentation Facilities

- Testing and Experimentation Facility for Manufacturing
- Testing and Experimentation Facility for Health
- Testing and Experimentation Facility for Agri-Food
- Testing and experimentation Facility for smart cities and communities

Data spaces

- Federated European Infrastructure for Cancer images data
- Data space for security and law enforcement

Support for data for EU

- Public Sector Open Data for AI and Open Data Platform: Public Sector Open Data for AI

SO 3: CYBERSECURITY

- Support to the cybersecurity in the health sector
- Deploying the Network of National Coordination Centres with Member States
- Create a European Industrial Ecosystem for Secure QCI technologies and systems
- Deploying advanced national QCI systems and networks
- Coordinate the first deployment of national EuroQCI projects and prepare the large-scale QKD testing and certification infrastructure

SO 4: ADVANCED DIGITAL SKILLS

- Short term training courses in key capacity areas
- Promoting European innovation in education

SO 5: ACCELERATING BEST USE OF TECHNOLOGIES

- EBSI– Deployment of services
- Blockchain standardisation
- Support to the implementation of the European Digital Identity Framework and the implementation of the Once Only System under the Single Digital Gateway Regulation
- GovTech Incubator
- Security (law enforcement): AI-based pilots

Deadline: 17 May 2022

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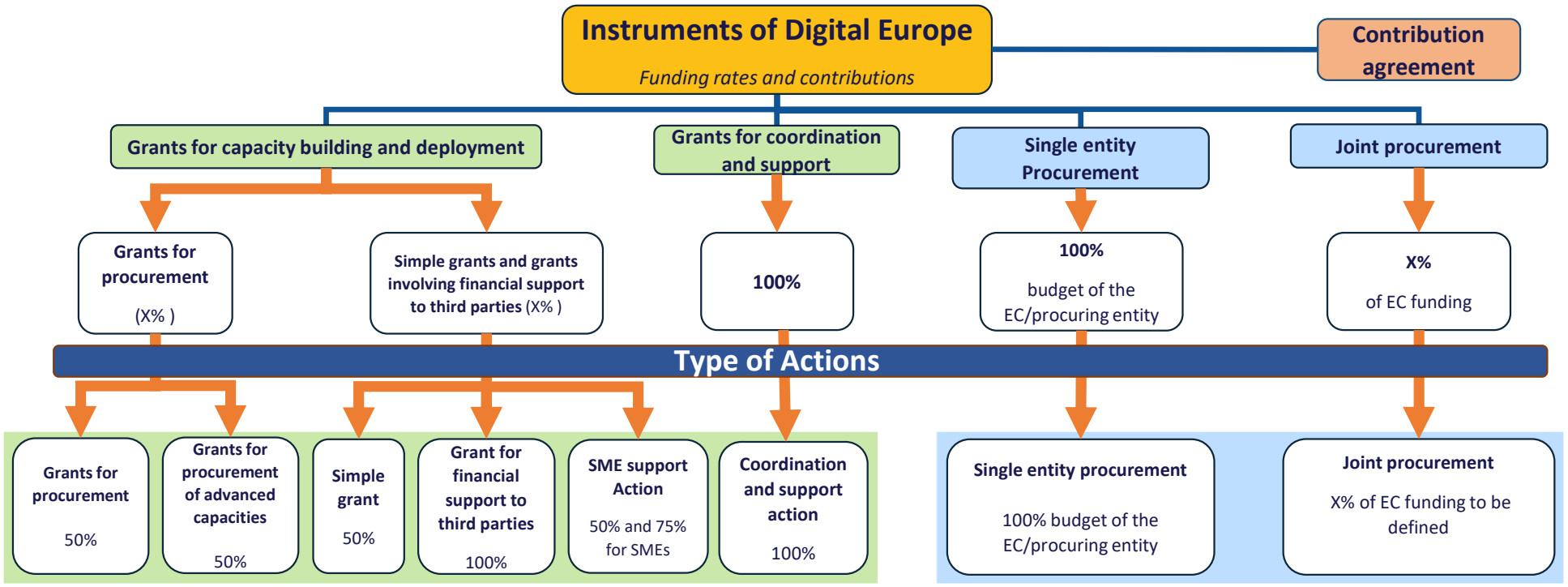
Instruments and types of actions



Ecosys of actors

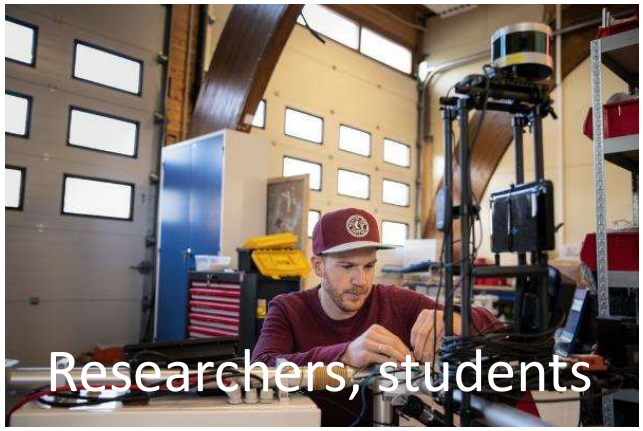
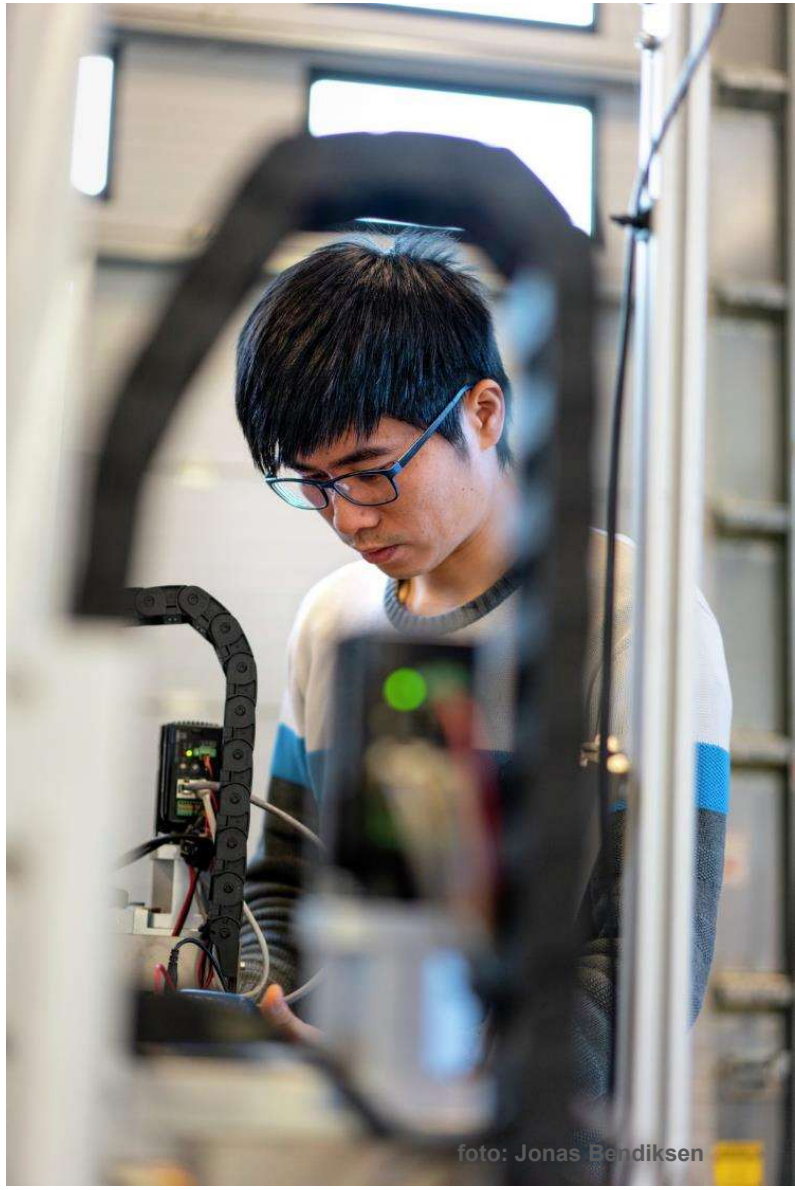


Foto: Jonas Bendiksen

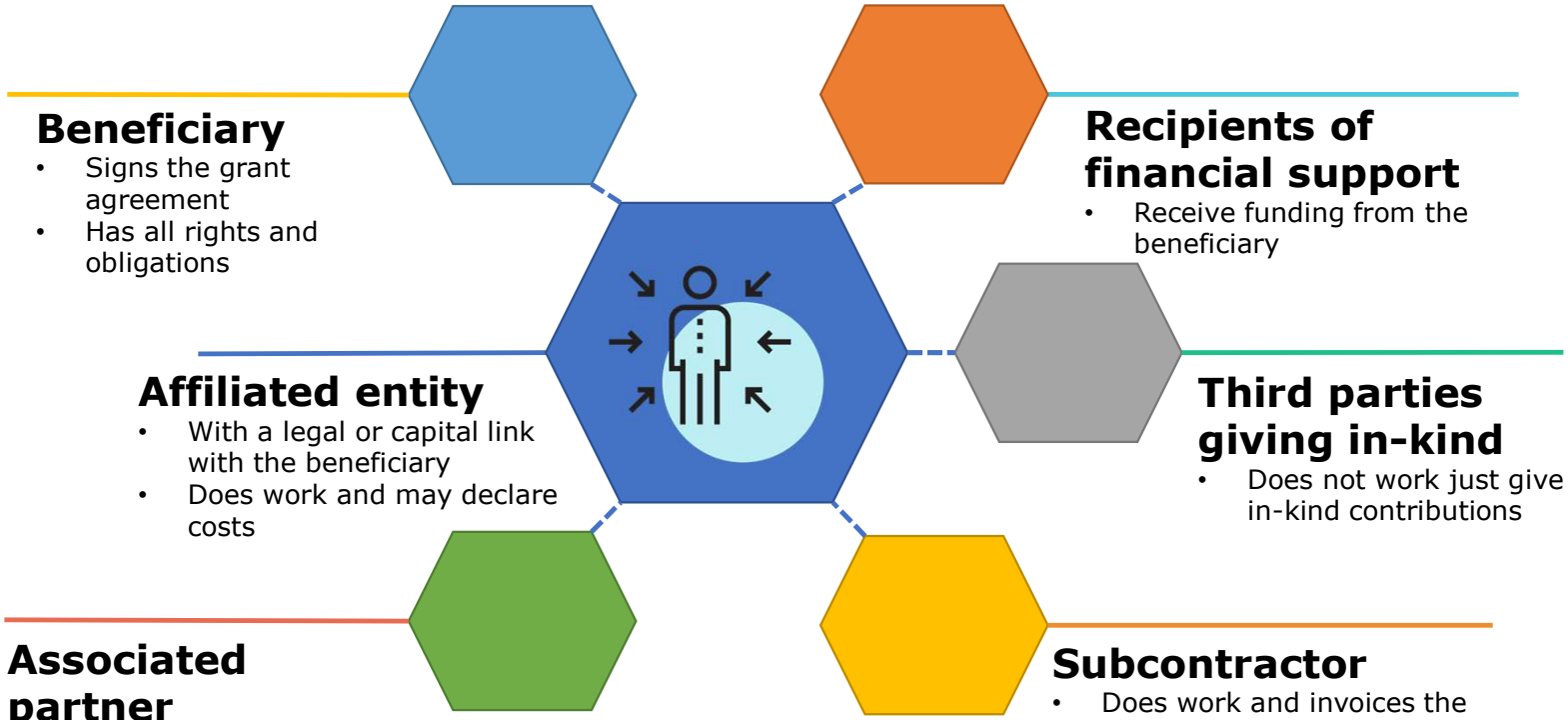
For research institutions – two ways to participate

Partners i projects

User of services and infrastructure through Digital Europa



Different ways to participate



Beneficiary
- Signs the grant agreement
- Has all rights and obligations

Recipients of financial support
- Receive funding from the beneficiary

Affiliated entity
- With a legal or capital link with the beneficiary
- Does work and may declare costs

Third parties giving in-kind
- Does not work just give in-kind contributions

Associated partner
- Does work but can NOT declare costs

Subcontractor
- Does work and invoices the beneficiary
- The beneficiary may declare the invoice

Hvorfor er DIGITAL Europa programmet viktig for FoU-aktører?

Fordi som søkere:

- dette er sluttføring/ leveranse i et prosjekt de deltar/deltok i
- Brukerdrevet tjenesteutvikling – FoU aktører er også fremtidige brukere

Fordi som brukere

- vil være avhengige av Digital Europa for å lykkes i sine fremtidige prosjekter på digitaliseringsområdet.
  - Infrastruktur
  - Data
  - Testing og experimentering

The direction: A compass and common EU targets

Skills

ICT Specialists: 20 million + Gender convergence
Basic Digital Skills: min 80% of population

Public Services

Key Public Services: 100% online
e-Health: 100% availability medical records
Digital Identity: 80% citizens using digital ID

Infrastructures

Connectivity: Gigabit for everyone, 5G everywhere
Cutting edge Semiconductors: double EU share in global production
Data – Edge & Cloud: 10,000 climate neutral highly secure edge nodes
Computing: first computer with quantum acceleration

Business

Tech up-take: 75% of EU companies using Cloud/AI/Big Data
Innovators: grow scale ups & finance to double EU Unicorns
Late adopters: more than 90% of European SMEs reach at least a basic level of digital intensity