Digital Europa programme at a glance

10. mars 2022

Pål S. Malm, Ivonne Herrera,
Horizon Europe and Digital Europe Programme

Horizon Europe

Research and innovation

Digital Europe

**boost digital transformation**

Deployment

Bringing digital technology to businesses, citizens and public administrations.
(not Research)

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

Horizon Europe

New hardware/software
CL4/digital, CL3/security

HPC for R&I

HPC infrastructure
for climate, health, AI ++
7 machines, petascale & pre-exascale machines

Digital Europe

HPC (sector agnostic)
For industry & public admin

Research ▶ Innovation ▶ Deployment and pre-operation ▶ Full operation
Example – Health

Horizon Europe

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

Digital Europe

«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

Digital Europe

- CL1/digital health
- CL4/digital
- CL3/Security

Horizon Europe

- Horizon Europe
  - THE NEXT EU RESEARCH & INNOVATION PROGRAMME (2021-2027)

HORIZON 2020

- EuroHPC Research infra.

Pilots

- Solutions

Solutions

- Infrastructure (DSI)

Research

Innovation

Deployment and pre-operation

Full operation

CEF: Connecting Europe Facility – targeted infrastructure investment

ISA² - Interoperability solutions for public administrations, businesses and citizens

ISA² og CEF er ferdig i 2020, forts. i DIGITAL (SOS)
Programme structure

Specific Objectives

- **SO1 - High Performance Computing**
- **SO2 - Artificial Intelligence**
- **SO3 - Cybersecurity & Trust**
- **SO4 - Advanced Digital Skills**
- **SO5 - Deployment, best use & interoperability**
- **SO6: Digital Chips**

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 finansieringsintrumenter (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

**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

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

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<th>Research</th>
<th>Innovation</th>
<th>Deployment and pre-operation</th>
<th>Full operation</th>
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<tr>
<td>HE (H2020)</td>
<td>HE (H2020 and ISA²)</td>
<td>DIGITAL (ISA² and CEF)</td>
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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

*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

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**Førstebeløp**

1. Utlysning (17.11)
2. Søknadsfrist (22.02)
3. Søknads-evaluering
4. Informasjon om tildeling
5. Kontrakts-signering

**Andetebeløp**

1. Utlysning (17.05)
2. Søknads-frist
3. Søknads-evaluering
4. Informasjon om tildeling
5. Kontrakts-signering

**Tredetebeløp**

1. Utlysning
2. Søknadsfrist
3. Søknads-evaluering
4. Informasjon om tildeling
5. Kontrakts-signering
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
Instruments and types of actions

**Instruments of Digital Europe**

*Funding rates and contributions*

- **Grants for capacity building and deployment**
  - Grants for procurement (X%)
  - Simple grants and grants involving financial support to third parties (X%)

- **Grants for coordination and support**
  - 100%

- **Single entity Procurement**
  - 100% budget of the EC/procuring entity

- **Joint procurement**
  - X% of EC funding to be defined

**Type of Actions**

- **Grants for procurement**
  - 50%

- **Grants for procurement of advanced capacities**
  - 50%

- **Simple grant**
  - 50%

- **Grant for financial support to third parties**
  - 100%

- **SME support Action**
  - 50% and 75% for SMEs

- **Coordination and support action**
  - 100%

- **Single entity procurement**
  - 100% budget of the EC/procuring entity

- **Joint procurement**
  - X% of EC funding to be defined
Ecosys of actors

Public Authorities

Researchers, students

SME’s

Foto: Jonas Bendiksen
For research institutions – two ways to participate

Partners in projects

User of services and infrastructure through Digital Europa

foto: Jonas Bendiksen
Different ways to participate

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

**Recipients of financial support**
- Receive funding from the beneficiary

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

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

**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 søker:
- 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/Al/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