Common European Agricultural data space in the Digital Europe Programme
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Agriculture: at the crossroads of European priorities

- **European Green Deal**
  F2F strategy: high targets in reduction of use of pesticides, fertilisers, antimicrobials

- **Fit for the Digital Age**
  Digital technologies and innovation key enabler to achieve F2F strategy

- **Industrial leadership**
  Globally competitive in digital platforms supported ecosystems
Benefits and challenges of sharing data in agriculture

**Businesses:** exploitation of data will enhance EU industry; create B2B marketplace; increase access to digital single market

**Governments:** sector analysis; data can be used for policy monitoring

**Farmers:** improve performance with decision support systems; data accessible from one entry point

**Reluctance to share data:** security, competition concerns, lack of trust

**Dominance of large platforms** capturing increasing share of value – avoid vendor– lock-in

**Fragmentation**, lack of access and of interoperability
Digital Europe is complementary to other programmes with investments in digital.

<table>
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<tr>
<th>EU-wide collective effort</th>
<th>National, regional and local</th>
<th>Financial instrument</th>
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<td><strong>Horizon Europe</strong></td>
<td><strong>Digital Europe</strong></td>
<td><strong>CEF</strong></td>
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<td><strong>Digital Europe</strong></td>
<td><strong>CEF</strong></td>
<td><strong>Cohesion</strong></td>
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<td><strong>CEF DIGITAL</strong>:</td>
<td><strong>RRF</strong></td>
<td><strong>InvestEU</strong></td>
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<td>Strategic capacities:</td>
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<td>computing, <strong>data spaces</strong>,</td>
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<td>testbeds, etc.</td>
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<td>Advanced digital skills</td>
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<td>EU-wide deployment</td>
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<td><strong>CEF DIGITAL</strong>:</td>
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<td>Broadband and 5G roll out</td>
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<td>Connecting Communities</td>
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<td>Digital connectivity</td>
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<td>Support to enterprises in line</td>
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<td>with Smart specialisation</td>
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<td>Digital skills for all citizens</td>
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<td><strong>Connect</strong></td>
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<td>Scale-up</td>
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<td>Modernise</td>
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<td>Reskill and Upskill</td>
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<td>20% digital</td>
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<td><strong>Leverage private capital</strong></td>
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<td>for investments in SMEs,</td>
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<td>infrastructure, skills...</td>
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Digital Europe programme structure

**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 or Associated Country

**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
- Digital twins for smart communities
- Further investments (CEF – ISA2) & Interoperability
- Blockchain
- Enhancing confidence in the digital transformation
Artificial Intelligence, data and cloud

Most of the actions will be managed directly by DG CNECT
Main objectives of the European Agricultural data space:

• To facilitate the trustworthy sharing and pooling of data for the sector
• A “single data space”, building on a set of data spaces
• Transparent control of data access and use
• Governance and business models
• Consider the evolving regulatory and capacity building environment (legal acts, CoC, Horizon Europe Actions)
• Basis for R&I to develop solutions for the sector, and generate modelling, forecasting, monitoring and policy-relevant data
Data space for agriculture – implementation

Step 1: preparatory action: Co-ordination and Support Action (CSA)

➔ Call 1

Step 2: first implementation project

➔ Call in Work Programme 2023-24
Data space for agriculture CSA – expected activities/outcomes

- Make an inventory of existing data platforms and marketplaces
- Take stock of experiences with CoC
- Explore design approaches (serving private and public interests)
- Propose design/conceptual approaches (essential elements and business models)
- Develop multi-stakeholder governance scheme
- Get broad consensus on the approach, governance and business models
- Develop a roadmap for step-wise deployment
Data space for agriculture CSA– KPIs

• **Effectiveness of approach** in terms of **representativeness** of private sector, farmers, associations, advisors, third parties, public administration and/or governmental bodies.

• **Quality and credibility of the design approaches** of the data space (as confirmed by stakeholders and external experts).

• **Soundness of the multi-governance scheme** (as confirmed by stakeholders and external experts).
The awarded consortium will work in liaison with the **Data Spaces Support Centre** to ensure alignment with the design of the European data spaces in other sectors with respect to **common elements** such as:

- Data space reference architecture, building blocks, toolbox
- Common standards, interoperability protocols
- Data governance models, business models, strategy to run the data spaces
Data space for agriculture CSA – key information 1

Call dates:
First call: Open: 17.11.2021, Closed: 22.2.2022
Evaluation: Q2 2022, Contracts signed: Q4 2022

Budget: EUR 2 million
Funding rate: 100% eligible costs
Duration of action: 18 months
Work programme documents: (1) Main, (2) Cybersecurity, (3) EDIH, (4) HPC

Call Preparatory actions for Data Spaces (DIGITAL-2021-PREPACTS-DS-01) open until: 22 February 2022 17:00 Brussels time

Applicants must be legal entities established in EU Member States or countries associated to the Digital Europe Programme

Consortium of minimum 3 independent entities from 3 different eligible countries

https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/programmes/digital
Useful links

Digital Europe Programme website


Digital Europe Programme Regulation


Funding & tender opportunities portal

https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/programmes/digital
Thank you – Questions?