The Common European Agriculture Data Space and related initiatives

Good Practice Workshop

'New tools for monitoring and evaluation: insights from the Evaluation Knowledge Bank'
21 October 2021

Dr. Doris Marquardt,
European Commission, DG CONNECT & DG AGRI

Common European Agriculture Data Space (1)

- Announced in the "European Strategy for Data" (02/2020)

- One data space building on a set of data spaces;

- To facilitate the trustworthy sharing and pooling of data for the sector;

- <u>Has the potential to provide a basis for R&I to develop solutions for the sector, and generate modelling, forecasting, monitoring and policy-relevant data;</u>

- Building on experiences with the Code of conduct of agricultural data sharing;

- <u>Design still to be defined, e.g. interoperability mechanisms, benefit for private & public sectors, role of public data and contribution to "common good" purposes, e.g. R&I or policy monitoring;</u>

- Supported under the Digital Europe Programme;

- Accompanied by a set of legal acts and Horizon Europe Actions.

Common European Agriculture Data Space (2)

- Coordination and Support Action (CSA) under the first Work Programme of the Digital Europe Programme (DEP)

    → CSA is to involve stakeholders and Member States

    - Stocktaking of ongoing initiatives

    - Stocktaking of experiences with Code of Conduct

    - Development of governance and business model

    - Alignment with the design of the European data spaces in other sectors

- Implementation Action under the second DEP Work Programme

    - Common building blocks for all Common Data Spaces

    - High Value Data Sets as one input

Framing legal initiatives (1)

- Data Governance Act

  - Overall ambition: Better use and re-use of data

  - Data sharing intermediaries

  - Data altruism

  - Better use of sensitive public data

  - European Digital Innovation Board

- Data Act

  - Overall ambition: Better use and re-use of data

  - Achieving clarity on co-generated data

  - Facilitating fair B2B data sharing

  - B2G data sharing

Framing legal initiatives (2)

- Implementing Act on High Value Data Sets

  - Opening up high quality government data in six thematic domains

  - Making more public data available in an easy accessible format

- Digital Markets Act

  - Regulating "Gate keepers" online data platforms

  - Creating of a fairer environment for businesses and consumers, which may depend on "Gatekeepers"

  - Stimulating the development of innovative and more diverse services

European Commission

Different levels of action

Sector-/ Data space-specific regimes for data handling

- Code of Conduct of Agricultural Data sharing by contractual agreement

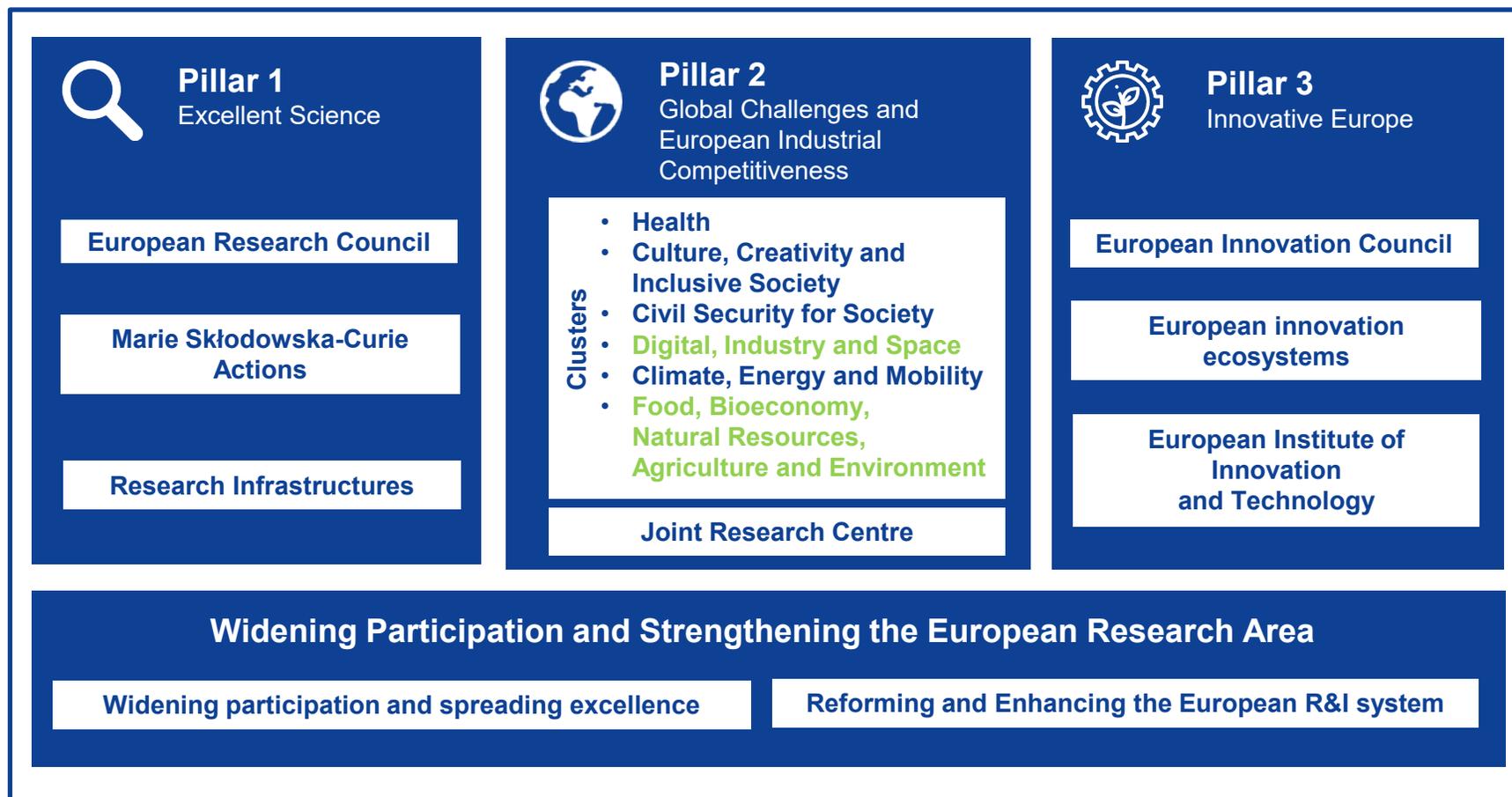- Governance structures to be developed for the Common European Agricultural Data Space

Horizontal actions/rules, applicable to all Common European Data Spaces

- Linked through Data Support Centre

- Common building blocks

Horizontal legislation, applicable beyond the Common European Data Spaces

- Data Governance Act

- Digital Markets Act

- Data Act

Horizon Europe: structure & resources

Pillar 1
Excellent Science

European Research Council

Marie Skłodowska-Curie Actions

Research Infrastructures

Pillar 2
Global Challenges and European Industrial Competitiveness

Clusters
- **Health**
- **Culture, Creativity and Inclusive Society**
- **Civil Security for Society**
- **Digital, Industry and Space**
- **Climate, Energy and Mobility**
- **Food, Bioeconomy, Natural Resources, Agriculture and Environment**

Joint Research Centre

Pillar 3
Innovative Europe

European Innovation Council

European innovation ecosystems

European Institute of Innovation and Technology

Widening Participation and Strengthening the European Research Area

Widening participation and spreading excellence

Reforming and Enhancing the European R&I system

EUR 9 billion under Horizon Europe
for Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment"

European Commission

Horizon Europe Candidate Partnership Agriculture of Data (1)

Principle objective:

- Using the possibilities offered by data technologies in the field of Environmental Observation to

  - provide support to improve the sustainability performance of agriculture;

  - improve the capacities for policy monitoring and evaluation.

Timeline:

- Planned for the Horizon Europe work programme 2023/24

- Elaboration of the Implementation Plan and Strategic Research and Innovation Agenda with Member States and stakeholders in 2021/22.

- Series of webinars in April and May 2021.

→ No CSA, but set-up of Core group and participatory actions over 2 years.

Horizon Europe Candidate Partnership Agriculture of Data (2)

Core group of country representatives

- Currently, 16 countries represented (still open for other countries to join)
- Co-chairs: DK, IT, ES

Stakeholders will be involved in the further development of the partnership.

Potential to contribute to the capitalization of the data in data spaces through developing innovative data-technology-based solutions.

Rule of thumb

Horizon: R&I, Capacity building

DEP: Upscaling of innovation, Deployment, Capacity building

Digital and data technologies as enablers for sustainability transition in agriculture and food systems

Selected calls from the Cluster 6 Work programme 2021/22

2021

- Smart XG, last-mile and edge solutions for remote farming, forestry and rural areas
- Research & innovation roadmap for blockchain technologies in the agri-food sector
- Potential of drones as multi-purpose vehicle – risks and added values
- Assessing the impacts of digital technologies in agriculture – cost, benefits and potential for sustainability gains
- **Development of the markets and use of digital technologies and infrastructure in agriculture – state of play and foresight: digital and data technologies for the agricultural sector in a fast changing regulatory, trade and technical environment**
- **Data economy in the field of agriculture – effects of data sharing and big data**

2022

- Smart solutions for the use of digital technologies for small- and medium-sized, farms and farm structures
- Upscaling (real-time) sensor data for EU-wide monitoring of production and agri-environmental conditions

Supporting the digital transformation of agriculture, rural communities and policy systems

European Commission

HORIZON-CL6-2021-GOVERNANCE-01-19

SCOPE

Development of the markets and use of digital technologies and infrastructure in agriculture – state of play and foresight: digital and data technologies for the agricultural sector in a fast changing regulatory, trade and technical environment

- **Development of innovative approaches to assess the uptake of digital technologies and digital infrastructure** (including platforms) in the agricultural sector;

- Development of innovative approaches to **forecast the markets and the uptake of digital technologies and digital infrastructure** under consideration of **fast-changing regulatory framing conditions** in the fields of data-, digital and machinery technologies and of agricultural policies;

- Demonstration of the **qualitative and quantitative implications for the use of digital and data technologies by farmers and other actors along the supply chain** in a way that demonstration results can be steadily adapted to changing framing conditions and allow for the reflection of scenarios.

INDICATIVE BUDGET

2 - 4 mln EUR per project (**4 mln EUR** in total)

Important!

Multi-actor approach

European Commission

HORIZON-CL6-2021-GOVERNANCE-01-20

SCOPE

Data economy in the field of agriculture – effects of data sharing and big data

- **Quantitative and qualitative analyses of the effects of various data sharing and marketing and use options** for the actors along the agri-food supply chain and the development of scenarios for the data economy.

- **Implications of the ongoing policy-making process** at EU level including the development of relevant legislation.

- **Effects of multi-level governance systems in the EU** under consideration of the situation and conditions in various Member States as well as effects of international (trade) relations.

- **Consideration of multiple data-sharing business- and governance approaches and technical solution** in data sharing in the agricultural sector.

- **Consideration of climate adaptation and reducing administrative burden** in the assessment of the potential of agricultural data sharing for the sector and the society.

INDICATIVE BUDGET

2 - 4 mln EUR per project (**4 mln EUR** in total)

Horizon Europe Cluster 4

Relevant topics

- HORIZON-CL4-2021-DATA-01-01: Technologies and solutions for compliance, privacy preservation, green and responsible data operations

- HORIZON-CL4-2021-DATA-01-03: Technologies for data management

- HORIZON-CL4-2022-DATA-01-04: Technologies and solutions for data trading, monetizing, exchange and interoperability

Interplay of initiatives – Indicative timing

	1H/21	2H/21	1H/22	2H/22	1H/23	2H/23	1H/24	2H/24	1H/25
Horizon 2020 projects	ongoing	ongoing	ongoing	ongoing	ongoing				
Horizon Europe projects		Calls	Launch	operating	operating	operating	1. results	1. results	Results
Partnership Ag of Data	Prepare	Prepare	Prepare	Prepare	Launch	operating	operating	operating	1. results
Common European Agricultural Data Space		**Call**	**CSA*****	**CSA*****	**CSA*****	**CSA*** Call**	**IA* Space**	**IA* Space**	**IA* Space**
Data Governance Act	Discussion	Negotiate	Adoption						
Digital Markets Act	Discussion	Negotiate	Adoption						
Data Act		Proposal							
IA** High Value Data Sets		Proposal							

* Implementation Action, ** Implementing Act, *** Coordination and Support Action

European Commission

Thank you