Development of the Green Deal dataspace

12th Meeting of the MIG

27 November 2020

Data-driven communities: fostering a local data ecosystem for sustainability

- **Workshop, 8 December 2020, 14:00-16:30 CET**
- European Commission, DG CONNECT, Unit H5
- To bring together a large variety of stakeholders to discuss strategic, technical and operational aspects of creating such a data ecosystem.
- The main output of the workshop will be
  - a list of priority datasets for the ‘data ecosystem for climate-neutral and smart cities’
  - a number of enablers for cross-domain data sharing as well as (iii) to the next level
  - preparing for the forthcoming Digital Europe Programme calls, ideally also including a roadmap and initial stakeholder mapping
- During this stakeholder workshop the specificities of the local data ecosystem for climate-neutral and smart communities, as part of the common European Green Deal dataspace, will be discussed, as well as other relevant dataspaces for smart cities.
- https://ec.europa.eu/digital-single-market/en/news/data-driven-communities-fostering-local-data-ecosystem-sustainability

European Commission

Digital Europe Programme (DEP) 2021-2022

- **PART OF THE PROPOSED ACTIVITIES IN 2021-22**
  - A large scale action to support climate-neutral and smart communities in their digital enabling of the Green Deal priorities and the circular economy transition starting with the urban level. These two initiatives will furthermore contribute to the development of a European Green Deal data space.

- **BUDGET**
  - As the final budget is not decided yet, the Orientations are based on the envelope of the Commission original proposal, i.e. EUR 9.2 billion in current prices. The total budget available for the first two years is EUR 2.8 billion. As MFF negotiations are ongoing the budget figures are only indicative and might be subject to change

DEP - European Green Deal Data Space

Objectives

- European Green Deal Data Space aims at exploiting the major potential of data in support of the European Green Deal priorities.
- It will allow both the private and public sector communities to share, access and use large pools of currently fragmented and dispersed data and integrate these with the other sectoral data spaces when relevant.
- By making available the most relevant data for enabling climate change mitigation and adaptation and the protection of natural resources and restoration of ecosystems and biodiversity, the dataspace will also enable the testing of AI solutions and the roll out re-usable data-services on a large scale.

DEP - European Green Deal Data Space

- During the first two years of the programmes the set-up of the Green Deal Data Space will be started and it will consist of datasets (including real time) for both public and private sector sustainable applications.
- It will include High Value Datasets from the geospatial, earth observation and environment, meteorological and statistics domains and datasets federated from currently dispersed private sector and public platforms, such as the cities' urban platforms **and the Member States INSPIRE platforms**.
- Two main initiatives will contribute to this work: Destination Earth and the local data ecosystem for climate-neutral and smart communities.
- To complement the work during the first two years, a Coordination Action on Digital Product Passport will prepare the ground for a future common European data space for smart circular applications.

DEP - Data Space for Mobility

Objective

- Building on priorities set out in the Data Strategy, the Mobility Data Space aims at exploiting the major potential of mobility and transport data in support of the development of innovative applications and services to the citizens as well as support to policy making.

- The general objective is to enhance the sustainability, safety and performance of the mobility/transport system. It will allow both the private and public sector communities to share, access and use large pools of currently fragmented and dispersed data and with the other sectoral data spaces (e.g. the green deal data space).

DEP - Testing and Experimentation Facility for Smart Communities

Objective

- Large scale reference testing and experimentation facilities in AI for the application sector smart communities focusing on individual and combined services for Mobility, Environment and Energy. They are intended for testing and validation of AI technologies on existing datasets, with collection of new data not a direct objective. They will, however, work in conjunction with the Data Space for Mobility, Green Deal Data Space and other relevant data spaces. Besides pure software AI, AI-based robotics solutions will also be fully integrated including a full data management and interoperability layer linking the automated physical and AI domains.

DEP - Destination Earth Initiative

Objective

- The objective of Destination Earth (DestinE) is to deliver a dynamic, interactive, computing and data intensive **"Digital Twin of the Earth"**: a digital, multi-dimensional replica of a physical entity, the Earth (system), which would enable different user groups (public, scientific, private) to interact at various scales with vast amounts of natural and socio-economic information in order to:
  - continuously monitor the health of the planet
  - perform high precision, dynamic simulations of the natural systems of the Earth
  - improve modelling and predictive capacities
  - support EU policy making and implementation
  - reinforce Europe's industrial and technology capabilities in simulation, modelling, predictive data analytics and Artificial Intelligence as well as advanced and high performance computing.

DEP - Destination Earth Initiative

- DestinE will build on the flexible and convergent use of data (including data from the common data-spaces), infrastructure (incl. high performance computing), software and AI applications/analytics supported by a strong horizontal framework to:
  - contribute to Green Deal Data Space by bringing the connection or integration with the Earth Observations and derived data/information products generated by the EU Space Copernicus and Galileo/GNNS programme which are fundamental for EU to global wide monitoring and location services.
  - offer a cloud-based core platform providing users with access to data and infrastructure, enabling them to build applications on top of it and to integrate their own data, thus forming the enabling core of a European earth observation, geospatial data and earth systems' applications ecosystem (e.g based on the Green Deal Data Space);
  - implement a number of thematic Digital Twins (DTs) in priority EU policy areas (e.g. environment, climate, urban areas, civil protection) giving users easy access to thematic information, services, models, scenarios, forecasts, visualisations etc.
- The domain selection- and sequencing for the implementation of vertical DTs will be made in Q3 2020.