GDDS Requirements Workshop

September 30th – October 1st

Background

The Green Deal Data Space (GDDS) is one of the common European data spaces defined by the European Strategy for Data and dedicated to support the priority actions of the Green Deal in terms of sharing high value and high-quality datasets for biodiversity preservation, zero pollution, circular economy, climate change mitigation, deforestation reduction, smart mobility and environmental compliance. It emerges as the intersection between the green and the digital transformation. Industries, governments, and researchers will benefit from easy sharing of high quality, interoperable data and derived services, while data holders and providers maintain control over who and how access is provided.

The GDDS will therefore be established on solid foundations of technologies, governance and trust, respecting European values and applying the principles of findability, accessibility, interoperability and reusability (FAIR). It is also a goal to interconnect currently fragmented and dispersed cross-sectorial data from diverse origins, including private, public sectors and citizen generated data, in support of the Green Deal priorities. It is therefore one of the most diverse and transversal European common data spaces.

The ultimate goal is to offer an interoperable, trusted digital environment for high value and high-quality data, and a set of legislative, administrative and contractual rules that determine the rights of access to and use of the data. This will benefit businesses, consumers, government and citizens, connecting public and private data system of systems and allowing reuse of data across borders and sectors within the defined trusted space.

The four "Sister projects" AD4GD[1], FAIRiCUBE[2], USAGE[3] and B-Cubed[4], financed by DG research and collaborating under the GDDS action group[5] with the goal of developing the GDDS, have been joining forces to pool their understanding of the requirements to the GDDS and propose concrete steps forward. Under this work, the following collaboration areas have been identified:

- **Metadata**: different approaches based on available SOTA technology. How can we align these diverse approaches and make them cross-compatible?
- **Observable Properties**: lay the foundation for understanding the content of available datasets, alignment and integration of new developments can help underpin this work.
- **Data Provision**: diverse modalities for data provision are available, but each comes with its own strengths and weaknesses. Which solutions best support GDDS requirements?
- **Processing**: the data analysis and processing landscape has been upended through the advent of Machine Learning and AI. How can these technologies best be leverages for the GDDS

In addition, various joint events have been planned and/or executed, both public and constrained to the "Sister projects".

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[1] https://www.ad4gd.eu/
[2] https://fairicube.nilu.no/
[3] https://www.usage-project.eu/
[4] https://b-cubed.eu/
[5] https://actiongroup.greendealdata.space/

Invitation

After several successful online sessions on the collaboration areas described above, we're happy to invite participants from the "Sister projects" to our first face-to-face workshop at the FAIRiCUBE partner Natural History Museum (NHM) in Vienna, leveraging on participation at the Open-Earth-Monitor Global Workshop 2024 being held the subsequent days in Laxenburg close to Vienna.

The goal of this joint workshop is to intensify ongoing collaboration between the "Sister projects", specifically focusing on the topics Metadata, Data Provision and Observable Properties. The outcomes of this event will be collected and formalized in the form of Policy Briefs on the individual topic areas, detailing requirements for the DGGS.

Agenda GDDS Requirements Workshop

1. **Metadata**: Monday September 30th, 13-17
   compare what's available under 19115 and STAC

   1. How to provide provenance information, e.g. integrate concepts from PROV-O

   2. Could we create a collection of highly atomized MD concepts that would allow us to map to both 19115 and STAC?

   3. Relevance of DCAT in this landscape

2. **Data Provision**: Tuesday, October 1st, 9-12
   Compare strengths and weaknesses of:

   1. APIs/OWS/openEO: what works, what doesn't work, what needs work

      1. Recent developments under OGC API - Coverage

   2. Gridded models (CIS, CovJSON): what can we use

   3. Vector formats? (STA & OAPI-F)

3. **Observable Properties**: Tuesday, October 1st, 13-17

   1. Investigate how to disaggregate Essential Biodiversity Variables (EBV) via I-ADOPT

   2. Barbara Magagna, originator of I-ADOPT, from GO-FAIR Foundation will join us at NHM

Venue

Natural History Museum Vienna

Burgring 7, 1010 Wien

Contact Information

For more information on this event, please get in touch.

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