EU Framework Program for Research and Innovation (SC5-18a-2014 - H2020)

ConnectinGEO

Project Nr: 641538

Coordinating an Observation Network of Networks EnCompassing saTellite and IN-situ to fill the Gaps in European Observations

Deliverable D3.1
Data Management Plan

Version 1.2

Due date of deliverable: 1/04/2015
Actual submission date: 31/05/2015
## Document control page

<table>
<thead>
<tr>
<th>Title</th>
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<td>CREAF</td>
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<td>Editor</td>
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<tr>
<td>Description</td>
<td>Report on the Data Management Plan (DMP) elaboration and execution, in which will be specified what data will be open in ConnectinGEO as the project is participating in the Open Research Data Pilot. The document will outline how research data will be handled during a research project, and after it is completed and will follow the template in Annex 1 for the EC DMP guidelines document <a href="http://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/hi/oa_pilot/h2020-hi-oa-data-mgt_en.pdf">http://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/hi/oa_pilot/h2020-hi-oa-data-mgt_en.pdf</a>. It will be done in collaboration with WP1 and WP5.</td>
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### Dissemination level

| CO (confidential, only for members of the consortium) | X |
| PU (public)                                         |   |
| PP (restricted to other programme participants)    |   |
| RE (restricted to a group specified by the consortium) |   |

When restricted, access granted to:

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<th>Draft</th>
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<td>WP leader accepted</td>
<td>Accepted by the PTB</td>
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<td>R (report)</td>
<td>PMB quality controlled</td>
<td>Accepted by the PTB as public document</td>
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<td>P (prototype)</td>
<td>O (other)</td>
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### Review status

| X | Coordinator accepted |
| WP leader accepted | Accepted by the PTB |
| PMB quality controlled | Accepted by the PTB as public document |

### Action requested

- to be revised by all ConnectinGEO partners
- for approval of the WP leader
- for approval of the PMB
- for approval of the Project Coordinator
- for approval of the PTB

### Requested deadline
## Revision history

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<td>24-04-2015</td>
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<td>Created the basic content of the deliverable</td>
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<td>30-04-2015</td>
<td>JM_CREAF</td>
<td>Review</td>
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1. Introduction

The purpose of this Data Management Plan (DMP) is to provide an analysis of the main elements of the data management that will be generated by the project.

ConnectinGEO main mission is not the creation of geospatial datasets but with an inventory of data and observations coming from existing EO networks in Europe. ConnectinGEO also collects relevant standards and the contribution to the GCI standards registry. However, some data can result from the Industry challenges.

Having all this information on data, observations and standards, ConnectinGEO will perform a methodology for detecting gaps and redundancies. The result of this methodology is also a data output of the project and will be collected and openly offered as well.

2. Inventory of data sources for ConnectinGEO

2.1. Data set reference and name

ConnectinGEO observation inventory.

2.2. Data set description

In the initial steps of the project, an inventory of observations data sources will be created. The inventory will be created based on GCI Information, DAB, and Copernicus services catalogues that will allow assessing the coherency, continuity, accuracy and accessibility of the information available. It will provide an assessment of the availability and accessibility of data required to derive the information (e.g. EV) or to run the models that generate the forecasts and projections, and it will support a prioritization of the gaps that need to be addressed.

The information and parameters to be gathered and queryable for the observation inventory are:

- spatial, temporal, and thematic coverage (considering missing data)
- accuracy/quality (metadata as well as data)
- accessibility (including licenses, standards, and formats)
- cost aspects (e.g. GEOSS Data CORE, fees)
- versions of observation descriptions.

The ConnectinGEO observation inventory data will be complemented with previous inventories analysis and Copernicus services catalogues. A form of access through the DAB will be analyzed and implemented if time permits. Efforts will be done to equally consider remote sensing, airborne and in-situ sensors. The new capabilities, introduced by Sentinel missions, will be considered.
The observation inventory will be completed by the description of the observations and measurements automatically (for example, including sensor specifications or hierarchical relations) and with information extracted from scientific literature.

The following list presents the catalogues in the DAB and its number of records:

<table>
<thead>
<tr>
<th>Catalogue</th>
<th>Records</th>
</tr>
</thead>
<tbody>
<tr>
<td>New Zealand government geodata catalogue</td>
<td>2175</td>
</tr>
<tr>
<td>ISPRA Monitoring network</td>
<td>7680</td>
</tr>
<tr>
<td>Chile Geoportal</td>
<td>11847</td>
</tr>
<tr>
<td>South African Environmental Observation Network</td>
<td>14818</td>
</tr>
<tr>
<td>WIS GISC DWD</td>
<td>143879</td>
</tr>
<tr>
<td>IGN GeoPortal</td>
<td>50</td>
</tr>
<tr>
<td>UK Data Gov (under testing)</td>
<td>6089</td>
</tr>
<tr>
<td>FedEO</td>
<td>2551</td>
</tr>
<tr>
<td>New Zealand Monitoring Network</td>
<td>32</td>
</tr>
<tr>
<td>NIWA data catalogue</td>
<td>188</td>
</tr>
<tr>
<td>Geoscience Australia</td>
<td>21301</td>
</tr>
<tr>
<td>Red Vial (Road Network, from Ministry of Public Works) -- from Chile</td>
<td>16</td>
</tr>
<tr>
<td>HIS Central US</td>
<td>14331907</td>
</tr>
<tr>
<td>NOAA Unified Access Framework Catalogue</td>
<td>5114</td>
</tr>
<tr>
<td>Limites (Administrative Boundaries, from Ministry of Public Works as well)</td>
<td>5</td>
</tr>
<tr>
<td>SeaDataNet</td>
<td>476</td>
</tr>
<tr>
<td>EEA SDI Catalogue</td>
<td>414</td>
</tr>
<tr>
<td>GMOS Database</td>
<td>819</td>
</tr>
<tr>
<td>Global River Discharge Datasets (GRDC/GEOWOW) - Kisters AG</td>
<td>1928</td>
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<tr>
<td>Registered Data</td>
<td>44417</td>
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<tr>
<td>IRIS Event</td>
<td>4163124</td>
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<tr>
<td>IRIS Station</td>
<td>484768</td>
</tr>
<tr>
<td>Data Integration and Analysis System (DIAS) – Japan</td>
<td>217</td>
</tr>
<tr>
<td>NASA Global Change Master Directory</td>
<td>28108</td>
</tr>
<tr>
<td>RASAQM</td>
<td>297</td>
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<tr>
<td>EGASKRO</td>
<td>408</td>
</tr>
<tr>
<td>Knossos</td>
<td>536</td>
</tr>
<tr>
<td>INPE CDSR</td>
<td>863290</td>
</tr>
<tr>
<td>ArcGIS Online ESRI</td>
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<tr>
<td>BYU World Water Data catalog</td>
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<tr>
<td>IODE</td>
<td>7509</td>
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<td>GBIF</td>
<td>19888012</td>
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<tr>
<td>MEDINA SDI</td>
<td>158</td>
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<tr>
<td>Canadian Monitoring Network</td>
<td>828</td>
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<tr>
<td>CEOS WGISS Integrated Catalogue (CWIC)</td>
<td>1852</td>
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<tr>
<td>Webservice Energy Catalogue</td>
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<tr>
<td>PANGAEA</td>
<td>335877</td>
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<td>US Data Gov</td>
<td>85229</td>
</tr>
<tr>
<td>One Geology</td>
<td>438</td>
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</tbody>
</table>

The total number of record is: 40642337.
If an organization is contributing data that is not currently part of the DAB, CNR and GEO together are open to consider adding their metadata to the DAB. In particular, Task 5.4 of ConnectinGEO proposes to do this for the in-situ networks that are found not to be part of GEOSS yet. ConnectinGEO will collaborate with them in their integration. In general, this means that there is no need to support any other data source during the project.

2.3. Standards and metadata

Metadata regarding accuracy/quality will be collected about the data included in the observation inventory coming from current information in the metadata concentrated in the DAB and the GCI.

Metadata explaining the network source of the observations will be also collected. We will limit ourselves to the following fields mainly extracted from the ISO 19115 core metadata:

- Id
- Title [Name of the network]
- Abstract
- Producer
- Topic category (1..*)
- Theme/topic (0..*) [SBA main domain]
- Measurement (0..*)
- Keywords (0..*)
- EV (0..*)
- Spatial extent (0..1) [Spatial scale of the action of the network]
- Temporal extent (0..1) [Temporal scale of the action of the network]
- Resolution/scale (0..1)
- Series/parent resource (0..1)
- Link to data (0..*)

Extra requirements can be the following:

- Location of the action of the network
- Administrative aggregation level
- Date of creation
- Availability of background information (report, raw data, metadata)
- Concrete tools / data / guidelines published
- Comments

2.4. Data sharing

As mentioned in the previous section, the data collected in the observation inventory will be integrated during the project. This database will feed the ConnectinGEO methodology on gap and redundancies analysis.

The access to this information will be public in the project website. No registration will be required to access the database of the inventory. The information will be available for consulting and for downloading.

The observation inventory requirements, the database schema and the queryable fields, will be also publicly available to the database users as a way to better understand the database itself.
The database will be then processed by the ConnectinGEO team and statistical analysis of the observation inventory database will be elaborated and made public with the actual data.

2.5. Archiving and preservation (including storage and backup)

The long-term preservation of this dataset is strongly related to the long-term preservation of the inventory. The inventory will be preserved by the DAB responsible party: CNR. If it’s found useful, the inventory can be updated in the future following the same project methodology.

There is no preservation strategy for the DAB content due to the regular and constant update of the DAB. This way of preserving the inventory as a snapshot of the DAB current status is important. After the end of the project, it is reasonable to assume that the preservation of the inventory will be related with the persistence of the DAB as a key component for the GEOSS infrastructure. The cost of preserving the database will be assumed by the CNR.

3. Inventory of user needs from URR

3.1. Data set reference and name

Inventory of user needs from URR.

3.2. Data set description

The User Requirements Registry has been re-branded and extended in the Socio-Economic and Environmental Information Needs (SEE IN) Knowledge Base.

The content reflects the knowledge (and data) needs of societal applications with focus on the SBAs and SDGs. This database will be used as a “user needs” database in ConnectinGEO and will be useful for the gap analysis study. The information in this database will not be part of the Observation inventory but will be used later on in the project to compare offerings (data) with needs and determine the gaps. Also it will be used to set priorities.

3.3. Standards and metadata

The catalogue and metadata standards are applied to the URR.

3.4. Data sharing

The access to the URR-2.0 is already possible openly.
3.5. Archiving and preservation (including storage and backup)

The URR is a constantly evolving database that can be updated from the web. No efforts for preserving the current status of this dataset will be made in ConnectinGEO so the URR will continuously evolve during the project. The gap analysis will be conducted by ConnectinGEO in real time.

4. Feedback from the end users

4.1. Data set reference and name
Observation inventory feedback.

4.2. Data set description
A publicly accessible feedback catalogue integrated into the observation inventory coming from an extension of the GeoViQua feedback model will be set for geospatial data providing feedback for missing data, i.e. without a reference to a dataset.

4.3. Standards and metadata
Extension of the GeoViQua feedback model for geospatial data with the possibility to provide feedback for missing data, i.e. without a reference to a dataset will be used.

4.4. Data sharing
A single sign-on system in the feedback catalogue (and crowd-sourcing) while trying to be as easy to use as possible, for example using authentication protocols such as OAuth, SIML 2.0. Connect with the planned GEOSS single sign-on system.

User feedback data will be made available with no information of the identity of the people providing it.

4.5. Archiving and preservation (including storage and backup)
The Observation inventory feedback is a constantly evolving database that can be updated form the web. No efforts for preserving the current status of this dataset will be made in ConnectinGEO as the Observation inventory feedback will continuously evolve during the project. At the end of the project a copy of its content will be saved and preserved by CREAT.

5. Technical and support documentation about the use of the ConnectinGEO methodology

5.1. Data set reference and name
Technical and support documentation about the use of the ConnectinGEO methodology book.
5.2. Data set description

ConnectinGEO methodology to identify and assess the priority of gaps will be published as a book.

The book will cover the different approaches that ConnectinGEO will put in practice:

1. Top-Down thread 1: Identification of a collection of observation requirements and specifications from generic goals for sustainability of the global civilization as expressed in the GEOSS Strategic Targets, the SDGs, and the adherence to the planetary boundaries.
2. Top-Down thread 2: Incorporation of material from international programs such as Future Earth, Belmont Forum, the Research Data Alliance and community assessments of socio-economic benefits of Earth observations.
3. Bottom-up thread 1: A consultation process in the current EO networks, consisting of collaboration platforms, surveys and discussions at workshops and even involvement of citizen science.
4. Bottom-up thread 2: A careful analysis of the observations and measurements that are currently in GEOSS Discovery and Access Broker complemented by other means (e.g. scientific literature).
5. Bottom-up thread 3: The realization of a series of real industry-driven challenges to assess the problems and gaps emerging during the creation of business opportunities.

The book will also cover the results of applying the methodology into GEOSS

5.3. Standards and metadata

The book will be available on PDF format online and in paper.

5.4. Data sharing

The book will be freely available on the internet and will be distributed on GEO events.

5.5. Archiving and preservation (including storage and backup)

The book will be available in the ConnectinGEO website and CREAf will preserve it.

6. Information regarding the Essential Variables

6.1. Data set reference and name

Information regarding the Essential Variables.

6.2. Data set description

The thesauri of EV and the indicators to retrieve them. One of the conclusions of the Bari Workshop was that different communities have different levels of maturity for their EV. We can classify EV communities into:
6.3. Standards and metadata

This data will be provided as a PDF report.

6.4. Data sharing

A list of final agreed EV will be provided as well as the indicators to retrieve them.

6.5. Archiving and preservation (including storage and backup)

The report will be kept in the ConnectinGEO website and CREAF will assume the responsibility to preserve the report.

7. ENEON composition and EO network panorama

7.1. Data set reference and name

ENEON composition and EO network panorama.

7.2. Data set description

The activities of the ENEON in the project will have a main goal: feed a consultation process that will be complemented by a systematic analysis of the available data and metadata to draw a coherent picture of the variety of used data APIs, policies and indicators.

A list of EO networks in Europe collecting:
- A list of models that are being used for forecasting and projecting environmental conditions.
- A list of their data and observation needs.

Due to the intricate relations between networks, the data model will adopt the RDF model.
VGI systems data will be also considered as can supplement traditional in-situ data collection.

7.3. Standards and metadata

RDF model and a triple store will be used as a way to store the data. We will share this information as a RDF turtle files.

7.4. Data sharing

We will share the data of the ENEON composition and EO network panorama freely and openly on internet.

7.5. Archiving and preservation (including storage and backup)

The ENEON composition and EO network panorama triple store will be kept by CREAF that will assume the responsibility to preserve it.

8. Solar renewable energy industrial challenge data

8.1. Data set reference and name

Solar renewable energy industrial challenge data.
8.2. Data set description

Decision makers and project developers of solar power plants (photovoltaic, solar concentrating technologies) have identified the Surface Solar Irradiance (SSI) and its components as an EV for their business development. SSI observations are crucial in the process of selecting the most suitable location of new plants but there is only a sparse network of in-situ pyranometric stations. In the first phase satellite or numeric weather model data are used as a global location identification solution. In a second phase in-situ sensors are deployed for periods of at least one year to collect data, which are more detailed and can be the base for solid business models, which are crucial to acquire funding.

Nevertheless networks of in-situ pyranometric sensors, satellites, or numeric weather models are not able to fully answer the need of industrials and project developers if they are taken separately, but solutions can be found in the conjuction of these EO systems. Still missing is the means to exchange in-situ measurements across companies and between stakeholders in the market which could considerable improve business opportunities. In this task we will provide an open solution for interoperable exchange of SSI data comprising in-situ time-series observations as well as sensor descriptions. The practical solution will be based on the experience from other domains.

It will allow a comprehensive understanding of gaps in capacity and generally, more important, bridge the industrial and the research communities in GEO.

Several companies will use a dedicated platform with pre-existing in-situ measurements for test but also with the important possibility to share their own legacy in-situ measurements to be part of this use case.

New applications of data.

8.3. Standards and metadata

Standardization of the metadata, data and services. Documentation a data quality and documentation availability will be done in the industry domain.

The platform will be integrated as a new component into an existing Spatial Data Infrastructure (SDI) dedicated to Energy and Environment namely the already existing and active Webservice-Energy.org GEOSS Community Portal. A key component of this Community Portal is the OGC Catalogue providing access to more than one thousand energy and environment datasets through interoperable Web-services. This catalogue is already registered in the GEOSS Common Infrastructure (GCI) and is harvested on a weekly basis by the GEOSS Discovery and Access Broker (DAB). Consequently the content of the catalogue is available for GEOSS user on the Geo Web Portal (GWP). The in-situ measurements that will be deployed as form of sensor Web-services will be registered as metadata in the Webservice-Energy catalogue. Thus, the full scope from search and discovery of existing resources covered by the catalogue to the selection, display and download of measurement of interest from the dedicated sensor platform will be taken into account. The ability to provide the users with measurement download is a key aspect to start engaging the Energy community to share, release and use in-situ
measurements. The participants will provide their feedback on the benefit of such a platform and on the networking of resources for improving their daily work and increasing their business. Therefore this challenge can be a great tool to measure the impact of the ConnectinGEO methodology approach in a specific community and use case.

Regarding gaps in data models, standardized data and metadata models will be designed suitable for in-situ SSI observations as profiles of OGC Sensor Web Enablement standards. Profiles for XML encodings are defined as Schematron rules. The data and metadata models must take into account spatiotemporal coverage, lineage, data quality, IPR, the existing terminology and units of measure.

Regarding gaps in in-situ measurements, the catalogue platform with data management functions will be extend based on the new (meta)data profiles and the GEOSS recommendations for interoperability based on 52°North Sensor Web. The platform will allow for

- (i) visualise sensor locations on a map,
- (ii) visualise measurements as time series plots and in tabular form,
- (iii) display sensor metadata at different levels of detail,
- (iv) upload of data by data owners, and
- (v) download raw observation data for offline processing. It will support company to prepare, pre-process and integrate their datasets.

8.4. Data sharing

Common criteria in the project stakeholder and industry challenges. Report gathering the common challenges criteria to be applied in the project through the stakeholder and industry challenges pilot cases.

Report on stakeholders and industry challenges. Report describing the stakeholders and industry challenges used during the project.

An extension of the existing portal for the energy community to allow access to data (particularly in-situ) instead of merely metadata and to allow data sharing between companies and organisations. This will put to the test the capacity of cooperation in the SSI community by introducing an unprecedented level of collaboration and eventually help to detect gaps in European EO networks. The pilot deployment will help to set priorities in the energy domain. It will also explore the possibilities to work together with weather/climate networks.

8.5. Archiving and preservation (including storage and backup)

ARMINES will be the institution to store and preserve the data after the project end.