Geophysical Research Abstracts
Vol. 18, EGU2016-15610, 2016
EGU General Assembly 2016

An Open Data Platform in the framework of the EGI-LifeWatch Competence Center

Fernando Aguilar Gómez, Jesús Marco de Lucas, and Ana Yaiza Rodríguez Marrero
IFCA-CSIC, Santander, Spain (aguilarf@ifca.unican.es)

The working pilot of an Open Data Platform supporting the full data cycle in research is presented.

It aims to preserve knowledge explicitly, starting with the description of the Case Studies, and integrating data and software management and preservation on equal basis.

The uninterrupted support in the chain starts at the data acquisition level and covers up to the support for reuse and publication in an open framework, providing integrity and provenance controls.

The Lifewatch Open Science Framework is a pilot web portal developed in collaboration with different commercial companies that tries to enrich and integrate different data lifecycle-related tools in order to address the management of the different steps: data planning, gathering, storing, curation, preservation, sharing, discovering, etc.

To achieve this goal, the platform includes the following features:

-Data Management Planning. Tool to set up an structure of the data, including what data will be generated, how it will be exploited, re-used, curated, preserved, etc. It has a semantic approach: includes reference to ontologies in order to express what data will be gathered.

-Close to instrumentation. The portal includes a distributed storage system that can be used both for storing data from instruments and output data from analysis. All that data can be shared

-Analysis. Resources from EGI Federated Cloud are
accessible within the portal, so that users can exploit computing resources to perform analysis and other processes, including workflows.

-Preservation. Data can be preserved in different systems and DOIs can be minted not only for datasets but also for software, DMPs, etc.

The presentation will show the different components of the framework as well as how it can be extrapolated to other communities.