



Data Publishing Services in a Scientific Project Platform

Matthias Schroeder, Vivien Stender, and Joachim Wächter

Deutsches GeoForschungsZentrum, Centre of GeoInformationTechnology (CeGIT), Potsdam, Germany
(matthias.schroeder@gfz-potsdam.de)

Data-intensive science lives from data. More and more interdisciplinary projects are aligned to mutually gain access to their data, models and results. In order to achieving this, an umbrella project GLUES is established in the context of the “Sustainable Land Management” (LAMA) initiative funded by the German Federal Ministry of Education and Research (BMBF). The GLUES (Global Assessment of Land Use Dynamics, Greenhouse Gas Emissions and Ecosystem Services) project supports several different regional projects of the LAMA initiative: Within the framework of GLUES a Spatial Data Infrastructure (SDI) is implemented to facilitate publishing, sharing and maintenance of distributed global and regional scientific data sets as well as model results. The GLUES SDI supports several OGC webservices like the Catalog Service Web (CSW) which enables it to harvest data from varying regional projects.

One of these regional projects is SuMaRiO (Sustainable Management of River Oases along the Tarim River) which aims to support oasis management along the Tarim River (PR China) under conditions of climatic and societal changes. SuMaRiO itself is an interdisciplinary and spatially distributed project. Working groups from twelve German institutes and universities are collecting data and driving their research in disciplines like Hydrology, Remote Sensing, and Agricultural Sciences among others. Each working group is dependent on the results of another working group. Due to the spatial distribution of participating institutes the data distribution is solved by using the eSciDoc infrastructure at the German Research Centre for Geosciences (GFZ). Further, the metadata based data exchange platform PanMetaDocs will be used by participants collaborative. PanMetaDocs supports an OAI-PMH interface which enables an Open Source metadata portal like GeoNetwork to harvest the information. The data added in PanMetaDocs can be labeled with a DOI (Digital Object Identifier) to publish the data and to harvest this information subsequently by the GLUES SDI. Our contribution will show the architecture of this new established SuMaRiO infrastructure node in a superordinate network of the GLUES infrastructure.