**Customised Project Instances**

To support the acquisition and the management of data and metadata, every project gets its own instance of panMetaDocs that operates during the project lifetime. The application can be adjusted to fit individual needs, like a customised GUI, or a different business logic. Furthermore, entry forms unique to the project can be applied and seeded with default values from a project context. This concept of offering individual instances on a standard basis and storing the data separately (eSciDoc) prevents us from supporting an ever growing legacy software stack.

**Decoupled Data Collection**

The combination of eSciDoc and panMetaDocs allows on the one hand multiple data collecting instances of panMetaDocs to assist metadata aggregation - on the other hand it is possible to separate data collecting instances from publishing instances. Therefore, the project instances can be discarded after the project has ended. All data and metadata remain as eSciDoc items and wait for future reuse.

**Data Publication Workflow**

eSciDoc was designed to support the scientific publication workflow with its item statuses - but the process of publishing a dataset as supplement to a written publication holds some additional conditions, that must be met.

The DOI of the referenced dataset must be available already when the paper is submitted for review. Although this DOI is not yet published, access to the dataset should be available for reviewers. We solved this at GFZ with generating temporarily links just for review purposes.

Later, when the manuscript is accepted by the publisher, the "IsSupplementTo"-section of the DataCite record has to be updated and has to point to the DOI of the accepted manuscript.

Finally the DOI and the XML representation of the DataCite metadata has to be registered at DataCite. In case of GFZ Potsdam this happens through the DOIDB.

**Archiving Data**

Once cited in publications, data and metadata have to be accessible as reference and for future use. To achieve long-term availability, these objects need to be transferred to an OAIS compliant long-term archive. Workflow tools, components and policies required for digital preservation of research data in the geosciences are being developed in DFG Project Ewig. Please also visit our poster EGU2012-8393.