

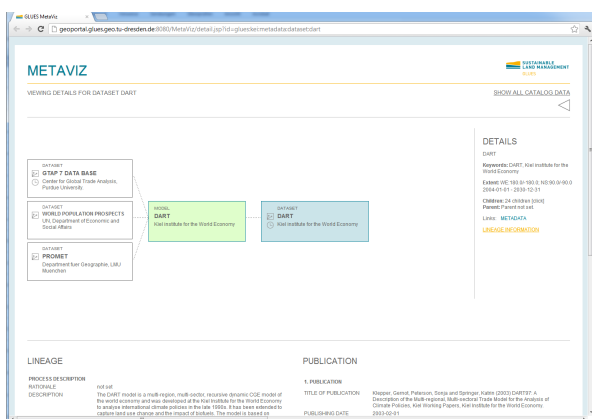


SUSTAINABLE LAND MANAGEMENT

METAVIZ - Fact Sheet

Provenance Visualization in the GLUES GDI

Two of the main purposes of metadata are to allow potential users to understand the data properly and to assess whether the dataset suits their needs. For output data of numerical models this requires information about the input datasets, particularly. The application "METAVIZ" illustrates the relations between numerical models/simulations and their corresponding in- and output data. This lineage information is part of the metadata of the GLUES catalog. If the metadata of a dataset contains such information it can be visualized with METAVIZ.



With METAVIZ the provenance of a dataset is represented as a tree-like graph that connects the dataset (blue box in the screenshot) to the process it originates from (green box) as well as the source datasets of these processes (white boxes). Other relevant metadata of the dataset, such as parent-child-relationships to other datasets and data series, publication references and in particular quality information is listed next to the visualization. The focus of the visualization can be either on an input dataset, a numerical model or an output dataset, such that the use of a dataset, the different outputs of a model or the origin of a dataset can be analyzed. Examples with data provided by the GLUES partners:

- PROMET data of Chair of Geography and Remote Sensing, LMU Munich: <http://geoportal-glues.ufz.de/MetaViz/detail.jsp?id=glues:lm:metadata:dataset:promet>

<http://geoportal-glues.ufz.de/use/applications.html>

- DART data of the Kiel Earth Institute: <http://geoportal-glues.ufz.de/MetaViz/detail.jsp?id=glues:kei:metadata:dataset:dart>

How to use METAVIZ?

- White boxes represent input data, the green box the model and the blue box the focused output data.
- Select one of the boxes to get detailed metadata information on the right and bottom of the window.
- Move the mouse over a dataset box to get a menu for visualization, download or linked websites, if available.
- Click on the triangle at the right top to switch between the lineage and usage view. To visualize the usage the dataset must be referenced as source data in the lineage information of other datasets.
- Select a dataset and click on the link "lineage information" (in details section on the right of the window) to move the focus to this dataset and to navigate through the provenance tree.
- The details section on the right provides links to parent and child datasets and the metadata view of the catalog.

How to show your data in METAVIZ?

METAVIZ is requesting ISO 19115 conformant lineage data from OGC compliant CSW 2.0.2. Different catalogs can be registered with the client. Partners of GLUES and the regional projects of the Sustainable Land Management funding measure can publish and share metadata in the catalog of the GLUES GDI. This metadata can be directly visualized in METAVIZ.

METAVIZ is a simple Java and JavaScript based web client. If you want to integrate the tool in your website we also provide the source code.

For further information please contact:

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