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Deliverable

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Demonstrator portals, Version 2

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1 INTRODUCTION

This report describes the functionalities in the EGDI portal at the end of the GeoERA GIP-Project. The name of the report is somewhat misleading as it describes the current production version of the portal and not a demonstration portal.



2 ADMINISTRATION MODULE FOR MANAGING DATA PRODUCTS AND VISUAL SETTINGS

The administration module now handles:

- Project specific login
- Upload of spatial data on GeoPackage, shape file and GeoTIFF formats with direct link to metadata in the EGDI Metadata Catalogue
- Upload of unstructured data on pdf, jpeg and csv formats
- Register of non-open access articles through their DOI
- Metadata for unstructured data is stored in the EGDI database and includes:
 - Title
 - Abstract
 - Keywords
 - Created date
 - Authors
 - Accessibility Language
 - Spatial coverage
- Edit of map and layer definitions where the user can:
 - Define their own maps
 - Configure uploaded datasets as map layers and edit description, set up thematization and filtering on data
 - Configure maps and define which layer to show and how to order these in groups, sub-groups and sub-sub-groups

The use of the administration and guides on how to prepare data for upload has been extensively described in this [on-line documentation](#).

3 IMPLEMENTATION OF DATASETS AND DOCUMENTS

The GSP has been uploading a large number of datasets to EGDI. At the time of writing more than 500 layers are defined by the GSP (GeoERA project in EGDI by FRAME, GARAH, GeoConnect³d, HIKE, HotLime, HOVER, MINDeSEA, Mintell4EU, MUSE, RESOURCE, TACTIC and VoGERA).

These datasets are made available through 36 project specific maps. Some of the projects are using several maps to show different pilot areas hence the large number compared to the number of projects.

The projects have also delivered 745 documents as pdf-files, 59 references to non-open access articles through DOI, 268 pictures and 2 datafiles.

4 EXTENSION OF THE WEBGIS FUNCTIONALITY

The EGDI platform has been extended in several aspects. The most important are:



- Advanced search that allows the user to search through metadata, data and documents stored in the EGDI Document Repository
- Capability to display more types of data (GeoTIFF and NetCDF)
- Better handling of data delivered as GeoPackages
- Direct download of data delivered as GeoPackages, GeoTIFF and NetCDF from the Web GIS
- Using simple thematization stored in GeoPackages so that thematization generated in QGIS can be used when showing the data set on the EGDI platform
- Display of timeseries of water levels from national online monitoring boreholes

5 PILOT IMPLEMENTATION OF VALIDATION ROUTINES

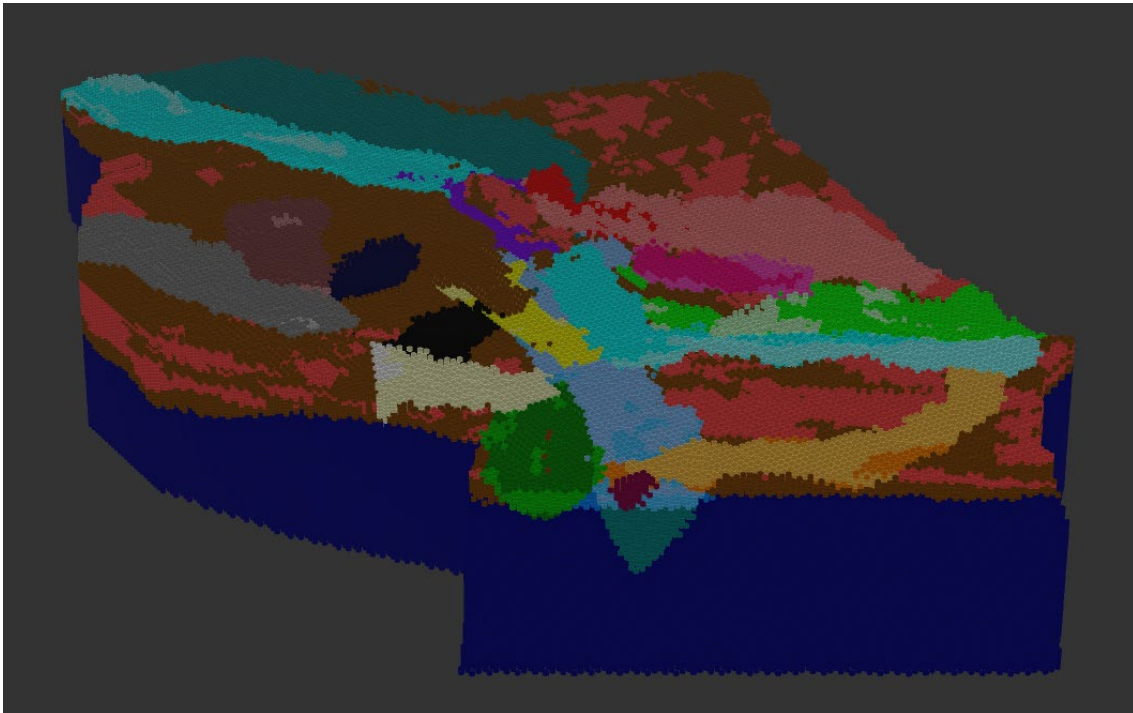
It has been decided that there will not be built testing tools into the EGDI platform. Testing tools will however be made available for the project to test services (including INSPIRE test tools). WP8 can then help users with testing of data sets and services prior to uploading data sets / registering services at the EGDI platform.

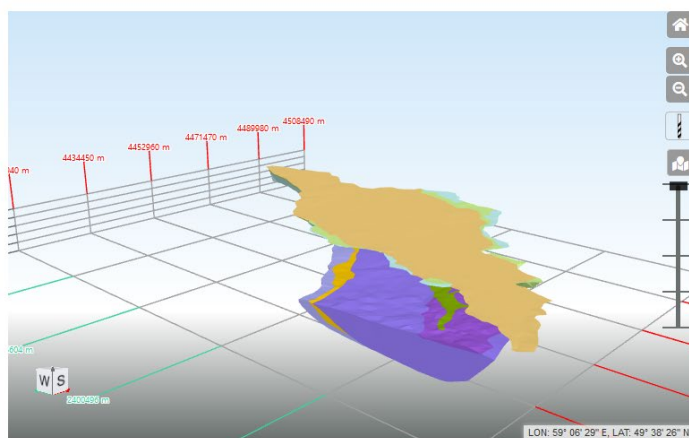


6 ABILITY TO DISPLAY GEOLOGICAL MODELS IN 3D

The EGDI platform has been expanded with a 3D Model Database based on GEUS' 3D Model Database which makes it possible to store models generated using modelling tools such as Petrel, LeapFrog, GoCAD and GeoScene3D on a general, tool-independent format. The database stores the geometry from the different models using the PostgreSQL LIDAR point cloud add on. The different models can be accessed through a REST based interface and shown in browser-based 3D viewers. At the time of writing 10 models have been uploaded to the EGDI platform.

At the time of writing two different viewers exist. The simple prototype described in the GIP-P Deliverable 6.3 and a more advanced viewer based on an opensource viewer developed by GBA. The simple viewer is still needed as only this can display Voxel models.





- Geology Analysis Data
- Topography
 - Pannonium
 - Sarmatium
 - Badenium
 - Aderklaaer Konglomerat & Burdigalium
 - Obere Gosau Subgruppe
 - Untere Gosau Subgruppe
 - Schneeberg Decke
 - Gölzer Decke
 - Frankenfesler und Lunzer Decke (Bajuvarisches Dec
 - DEM Layer