



Deliverable 6.2

Web portal version 1.1

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Version: 27th of February 2019

This report is part of a project that has received funding by the European Union's Horizon 2020 research and innovation programme under grant agreement number 731166.



| Deliverable Data | | |
|---------------------------------|-----------------------------------|-----------------|
| Deliverable number | D6.2 | |
| Dissemination level | Public | |
| Deliverable name | Portal, Version 1.1 | |
| Work package | WP6, Developments (user oriented) | |
| Lead WP/Deliverable beneficiary | GEUS | |
| Deliverable status | | |
| Submitted (Author(s)) | 27/02/2019 | Martin Hansen |
| Verified (WP leader) | 27/02/2019 | Martin Hansen |
| Approved (Coordinator) | 28/02/2019 | Jørgen Tulstrup |



INTRODUCTION

As part of the work on defining the functionality that the GIP-project shall deliver (as extension to the EGDI-platform) in order to support the other GeoERA projects it has been planned to make two prototype viewers illustrating different aspects of the anticipated functionalities. The first one was delivered in month 3 and consisted of dedicated viewers made for each of the other GeoERA projects and embedded in their project web-pages under geoera.eu/projects.

The second one is described in this report and illustrates how reports and shape files can be uploaded to the EGDI platform and how the shape files can be included in web GIS viewers. It also contains access to 3D models which will be a requirement from several of the GeoERA projects.



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1 PORTAL VERSION 1.1

With this deliverable 6.2 the EGDI portal is now available in version version1.1 extending the portal from deliverable 6.1 with the following functionality:

- File manager, intranet areas, user registration, user activity logging
- Digital archive for georeferenced reports and articles etc.
- 3D viewer pilot

The first point of the deliverables has been implemented in WordPress powered geoera.eu homepage. The second point has been achieved by developing an administration module to allow registered users to:

- Upload ShapeFiles
- Upload documents / reports
- Define map layers
- Define new maps

The last point has been achieved by extending the EGDI platform with a database capable of storing 3D modules and a (simple) tool to visualize these models.

A beta version of the EGDI portal is here:

<http://data.geus.dk/egdi/>

And a beta version of the EGDI admin module can be found here (require username and password):

<http://data.geus.dk/egdiadmin/>

1.1 File manager, intranet areas, user registration and user activity logging

Currently the GIP-project uses the GeoERA intranet at <https://intranet2.geoera.eu> for managing files like reports etc. This will most likely be supplemented with other platforms in the coming months.

User registration and user management

In order to create, edit and configure layers and maps and to upload files to the EGDI platform you must have a user account. Currently the user administration is handled by the PostgreSQL / PostGIS database serving data to the EGDI platform.

1.2 Digital archive for georeferenced reports and articles etc.

An administration module that allows the user to set up layers and maps and to couple layers to maps has been developed. It is also possible to upload ShapeFiles and make these available from the EGDI web GIS platform. All this is done from the EGDI administration module. See the following figures:



EGDI Admin Data set Web map Couplings MH

Webkort

[Create new](#) [Go back](#)

Filter

| | Name (Click title to see/edit) | Extent | External | Owner | |
|---------------------------|--|--|----------|----------|-------------------------------------|
| <input type="radio"/> Run | egdi en:"EGDI - All maps",da:"EGDI - alle kort" | EPSG:3034 [0.000000,0.000000,7000000.000000,6800000.000000] | Yes | postgres | <input type="button" value="Slet"/> |
| <input type="radio"/> Run | egdi_bpj Beta page | EPSG:3034 [0.000000,0.000000,7145840.000000,4861270.000000] | Yes | bpj | <input type="button" value="Slet"/> |
| <input type="radio"/> Run | egdi_critical_raw_materials_test europa_crit_test | EPSG:3034 [-770840.000000,700890.000000,7145840.000000,4861270.000000] | Yes | postgres | <input type="button" value="Slet"/> |
| <input type="radio"/> Run | egdi_denmark en:"Denmark",da:"Danmark" | EPSG:25832 [1400000.000000,6020000.000000,975000.000000,6430000.000000] | Yes | postgres | <input type="button" value="Slet"/> |
| <input type="radio"/> Run | egdi_emodnet_geology en:"EMODnet Geology",da:"EMODnet Geology" | EPSG:3034 [0.000000,0.000000,7000000.000000,6800000.000000] | Yes | postgres | <input type="button" value="Slet"/> |
| <input type="radio"/> Run | egdi_energy en:"Energy",da:"Energi" | EPSG:3034 [0.000000,0.000000,7000000.000000,6800000.000000] | Yes | postgres | <input type="button" value="Slet"/> |
| <input type="radio"/> Run | egdi_geochemistry en:"Geochemistry",da:"Geokemi" | EPSG:3034 [0.000000,0.000000,7000000.000000,6800000.000000] | Yes | postgres | <input type="button" value="Slet"/> |
| <input type="radio"/> Run | egdi_geoenergy en:"Geo-energy",da:"Geoenergi" | EPSG:3034 [0.000000,0.000000,7000000.000000,6800000.000000] | Yes | postgres | <input type="button" value="Slet"/> |
| <input type="radio"/> Run | egdi_geoera_3dgeoeu en:"GeoERA - GeoEnergy",da:"GeoERA - GeoEnergi" | EPSG:3034 [0.000000,0.000000,7000000.000000,6800000.000000] | Yes | postgres | <input type="button" value="Slet"/> |

Figure 1: Browsing all defined maps

EGDI Admin Data set Web map Couplings MH

[Go back](#) [Add layers to map](#)

Nyt webkort

* Required

Unique name*

Confidential*
 No Yes . In the future, we may setup an internal webGIS for confidential maps.

Title*

Data extent*
Choose a projection
Europe World

Introduction HTML

Shown together with the map in the top corner. You can add javascript here to make something happen on load.

[maksimer](#)

Figure 2: Creation of new maps



EGDI Admin Data set Web map Couplings MH

Couplings, web map ↔ data set

Go back

Filters Web map: [dropdown] Data set: [dropdown] Run map

| Coupling | | Group > Title |
|---|--|--|
| Edit Copy | Web map: egdi_denmark Data set: egdi_shallow_boreholes_denmark | Group: da:"Boringer",en:"Boreholes" Title da:"Overfladiske boringer",en:"Shallow boreholes" |
| Edit Copy | Web map: egdi_denmark Data set: egdi_deep_boreholes_denmark | Group: da:"Boringer",en:"Boreholes" Title da:"Dybde boringer",en:"Deep boreholes" |
| Edit Copy | Web map: egdi_oil_and_gas Data set: samba_petroleum_wellbores_test | Group: da:"Dybe boringer",en:"Deep wells" Title da:"Petroleum Exploration Wells",en:"Petroleum Exploration Wells" |
| Edit Copy | Web map: egdi_geoera_muse Data set: onegeoeuro_surface_lithology | Group: da:"Geologisk kort 1:1M",en:"Geological Map 1:1M" Title da:"Lithologi, overflade (INSPIRE)",en:"Surface lithology (INSPIRE)" |
| Edit Copy | Web map: egdi_geoera_mintell4eu Data set: egdi_eurare_occurrences | Group: da:"Mineralressourcer",en:"Mineral Resources" Title da:"euRare occurrences",en:"euRare occurrences" |
| Edit Copy | Web map: egdi_geoera_geoconnect3d Data set: onegeoeuro_surface_lithology | Group: da:"Geologisk kort 1:1M",en:"Geological Map 1:1M" Title da:"Lithologi, overflade (INSPIRE)",en:"Surface lithology (INSPIRE)" |
| Edit Copy | Web map: egdi_mineral_resources Data set: egdi_mineraloccurr_critical_raw_materials | Group: da:"Kritiske råmaterialer",en:"Critical Raw Materials" Title da:"Mineralforekomster",en:"Mineral occurrences" |
| Edit Copy | Web map: egdi_oil_and_gas Data set: egdi_energy_deep_wells_dnk | Group: da:"Dybe boringer",en:"Deep wells" Title da:"Danmark",en:"Denmark" |
| Edit Copy | Web map: egdi_geoera_hover Data set: onegeoeuro_surface_lithology | Group: da:"Geologisk kort 1:1M",en:"Geological Map 1:1M" Title da:"Lithologi, overflade (INSPIRE)",en:"Surface lithology (INSPIRE)" |

New

Figure 3: Browsing and editing existing couplings between layers and maps

Coupling Group > Title

Web map: [dropdown] Group: [input: Group name] Sorting: 10 [dropdown]

Data set: [dropdown] Titel: [input: Lag-titel] Default: Yes No

Cancel Create

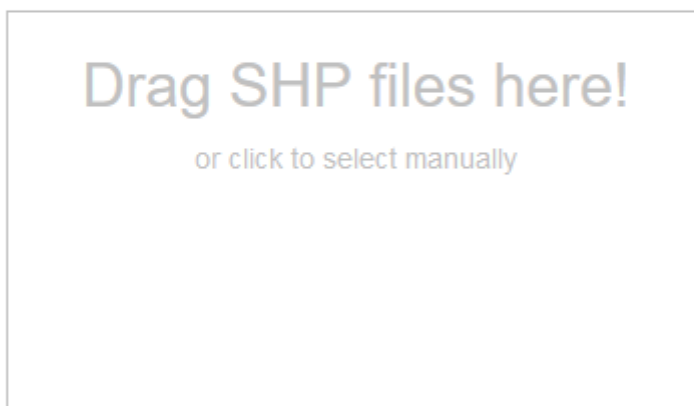
Web map: [egdi_oil_and_gas](#) Group: da:"Dybe boringer",en:"Deep wells"

Figure 4: Creating a new coupling between a map and a layer



SHP2DB

⬆️ Upload new



Note: Four files! (SHP+SHX+DBF+PRJ)



Figure 5: Uploading ShapeFiles to the EGDI portal

1.3 3D viewer pilot

To be able to show 3D geological models the EGDI platform has been extended with a 3D model database (based on generic 3D model database developed by GEUS). Models stored in this database can be made available for visualization from the EGDI platform by creating a layer with displaying the model extend and making metadata available through click info. The metadata includes a link to a (simple) visualization of the model.

A map with geological models can be found here:

http://data.geus.dk/egdi/?mapname=egdi_bpj#baslay=baseMapEEA,baseMapGEUS&optlay=&extent=3481070,2939520,4875170,3634390&layers=geoera_3dmodel

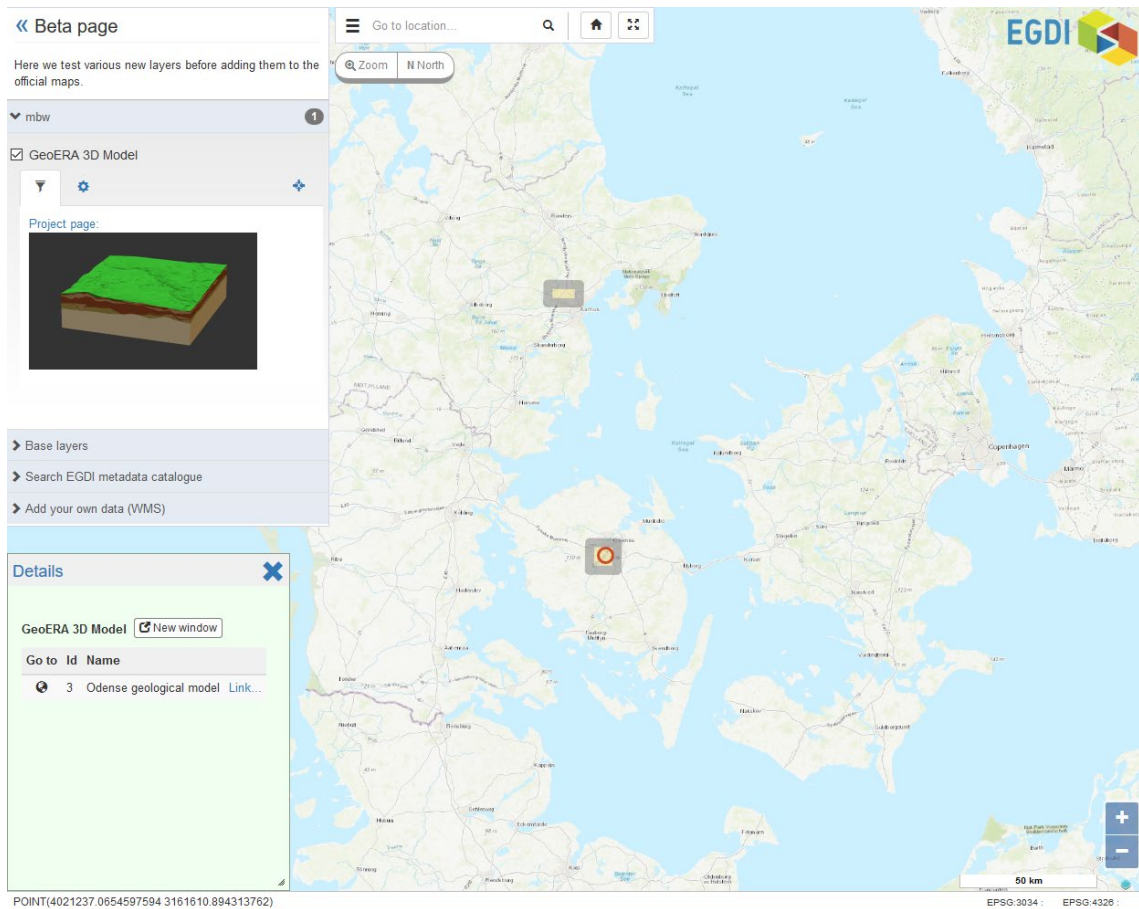


Figure 6: Map with 3D models. One model selected

The visualization is done by reading directly from the EGDI 3D model database. The beta version of the visualization is available from here:

https://data.geus.dk/map2/webgl_2018/tinvolumemodel.html

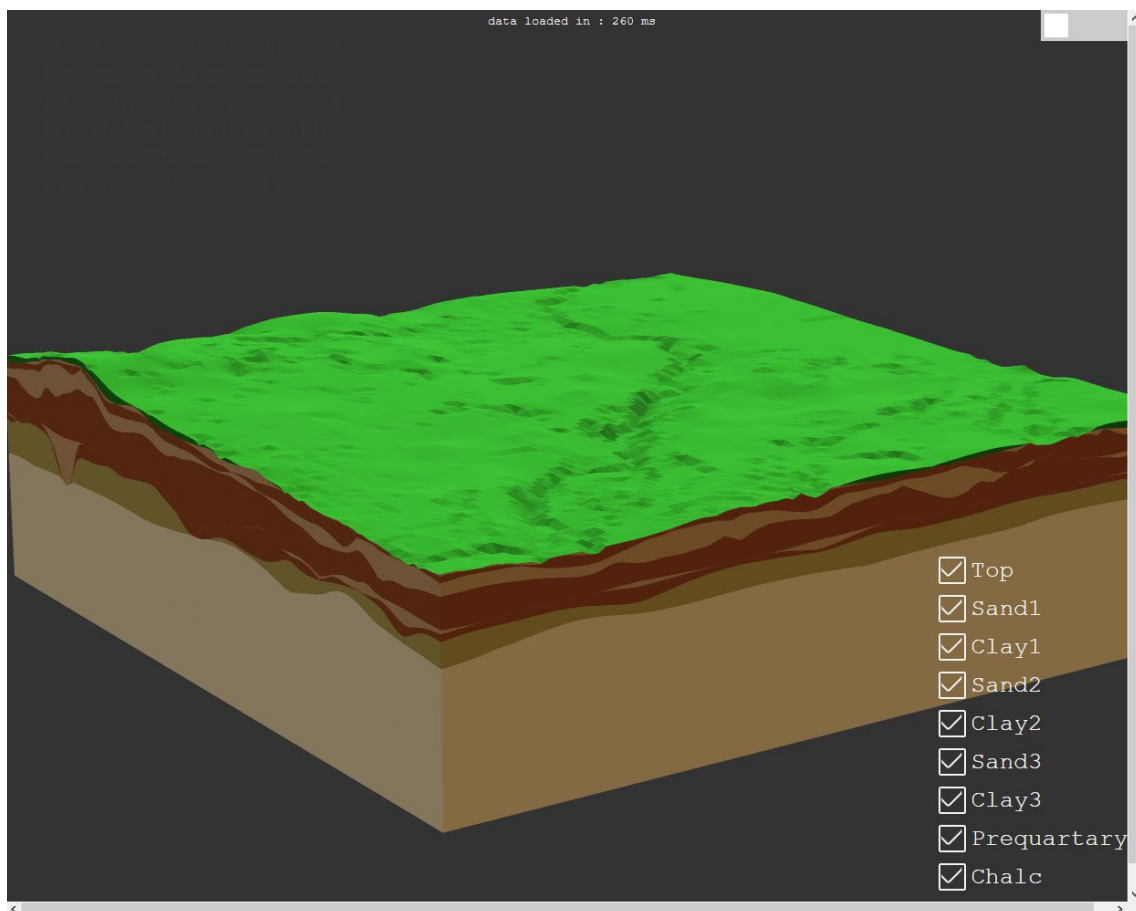


Figure 7 Visualization of the selected model