



EMODnet

European Marine
Observation and
Data Network

EMODnet Geology

Uffe Larsen, GEUS

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The European Marine Observation and Data Network (EMODnet) is financed by the European Union under Regulation (EU) 2021/1139 of the European Parliament and of the Council of 7 July 2021 establishing the European Maritime, Fisheries and Aquaculture Fund.

Topics of this presentation



- EMODnet Geology Phase 5.2 has started
- New DNS
- CSW service

New phase has started

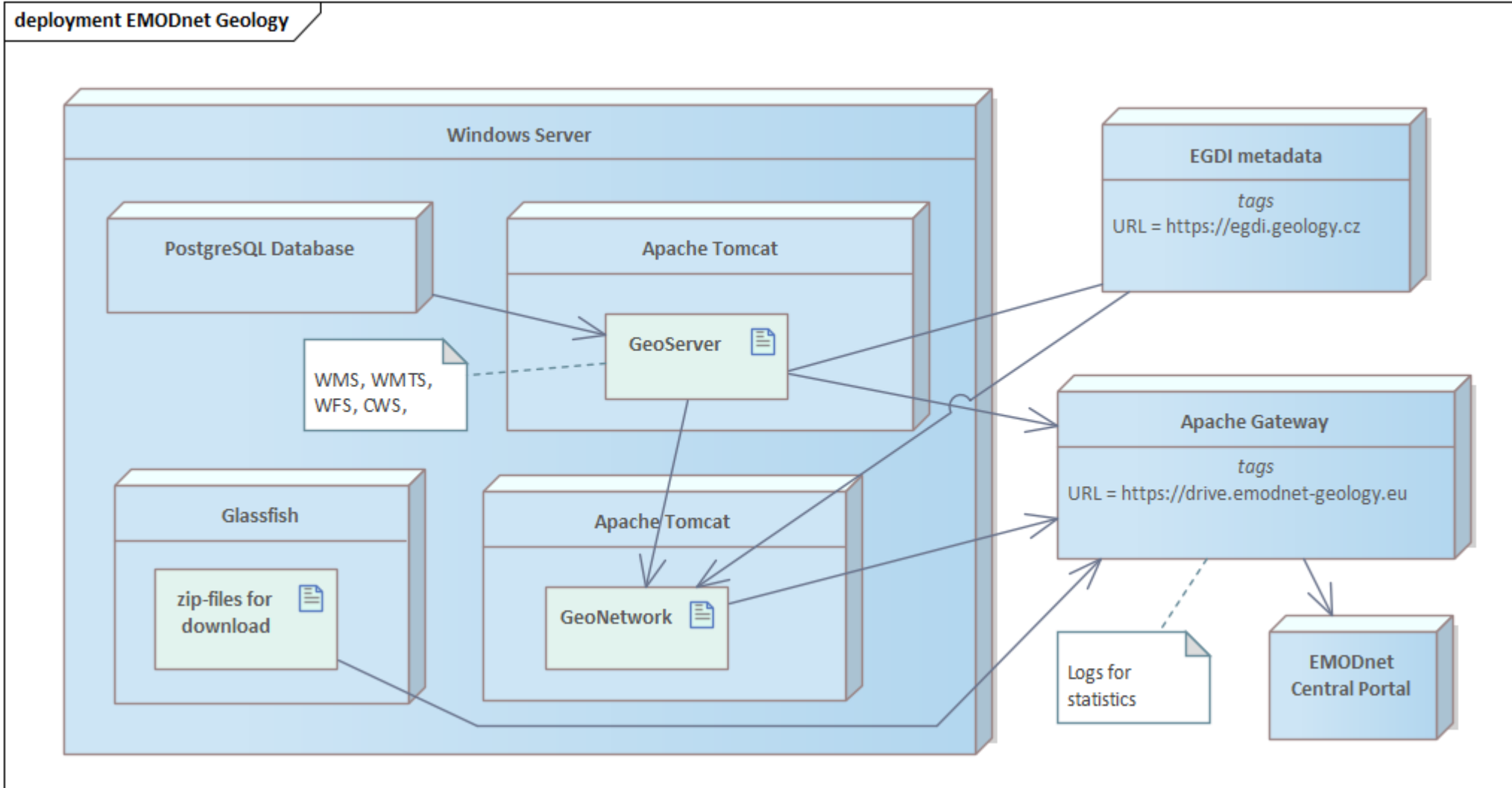


- EMODnet Geology Phase 5.2 kick off meeting in Brussels in November
- Phase 5.2 will end September 2025 (no new products or major updates yet)
- Geotechnical data is a new dataset in the pipeline (as mentioned at the last meeting). We are still investigating what kinds of geotechnical data the partners of EMODnet Geology can provide.

- EMODnet Geology is hosted at the Geological Survey of Denmark and Greenland (GEUS). GEUS now uses Cloudflare as DNS for most of the external projects.
- This has resulted in unforeseen down time of EMODnet Geology because of problems with the DNS propagation, but there have been no problems in the last months.
- A DNS record in Cloudflare can be set to “Proxied” (default) or “DNS only”. “Proxied” provides protection against DDoS attacks but also results in limitations on the size of the file you can upload (if you do not pay).
- Do we need protection against DDoS attacks since a lot of data are cached at the Central Portal?

CSW service

As mentioned at the last TWG meeting the flow of metadata for Geology needs improvement



Present data flow that does not work

Metadata links

| Type | About | Geoserver | Format | URL | |
|-------|-------|-----------|----------|---|--------|
| TC211 | | | text/xml | https://egdi.geology.cz/record/xml/031d465b060ee6d61e | Remove |

[Add link](#) *Note only FGDC and TC211 metadata links show up in WMS 1.1.1 capabilities*

Category for service metadata

Datasets

Create record for each layer only using GetCapabilities information

Create record for each layer only using GetCapabilities information.

Import record for each layer using MetadataURL attributes.

Only if metadataUrl is existing, if not use the GetCapabilities only or combine GetCapabilities information with a template selected below

Build dataset metadata records from a template

Choose a template to use as a basis in which GetCapabilities information are injected. When using this mode, records created on first run are reused and updated. This allows to edit those records.

GeoNetwork

EGDI Metadata

Central Portal

Direct harvesting from EGDl Metadata

Problem: Filtering is needed. EGDl Metadata contains many records that are not relevant for EMODnet.

(EGDI – European Geological Data Infrastructure)

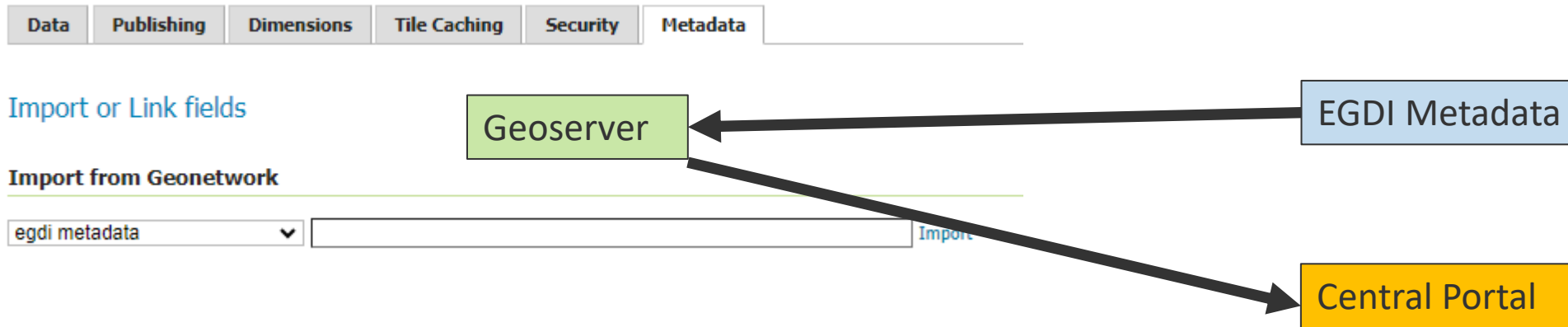
EGDI Metadata

Central Portal



The screenshot shows the EGDl Metadata web application interface. The top navigation bar includes 'EGDI Metadata', '+ New', 'Settings', 'Map', 'Documents', '? Help', 'Cookies', and 'Contact'. The main content area is divided into a left sidebar and a right main panel. The sidebar contains a map, a search text input field, and several filter sections: 'Resource type', 'INSPIRE theme', 'GeoERA keywords', 'Project name' (with 'EMODnet-Geology' selected), and 'Metadata contact'. The main panel displays a list of metadata records under the heading 'Metadata 177'. Each record includes a green icon, a title, a description, and a 'Public' status with a date stamp.

Harvesting from Geoserver



Geoserver extensions: csw, csw-iso, metadata
Configuration of yaml files and codelists

Problem when data are harvested with GeoNetwork. Filter and Sorting functionality does not work. Geoserver does not expect prefix "csw:"

Error:

```
Raised exception when searching : org.fao.geonet.csw.common.exceptions.NoApplicableCodeEx:  
code=NoApplicableCode, locator=null, message=java.lang.IllegalArgumentException: Unknown field  
in mapping: csw:Title
```




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