



WhereGroup GmbH & Co.KG

- Company in Bonn, Germany
- Service provider with experience in all fields of spatial data management with free software: WebGIS, SDI, database, relevant standards, trainings, conferences
- OpenSource projects: Mapbender, PostNAS
- Supporter of the OSGeo/FossGIS



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www.geoportal.de

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**Find and use geodata
in Germany**





Agenda

- Introduction
- Technical Implementation
 - Geodatenkatalog-DE (central catalogue for metadata)
 - Geoportal.DE
 - Mapbender3
- Demo



The Geoportal.DE

- The Geoportal.DE is designed as an user friendly portal
- It allows every user to search and visualize geodata and geo-services
- The target group is not only “experts” (“we only talk about maps”)
- Two ways to show geodata
 - over search => result => show in map
 - over thematic maps
- The implementation of the components takes place with Open Source software, except the CMS (Government-Site-Builder)



Implementation with open source Software

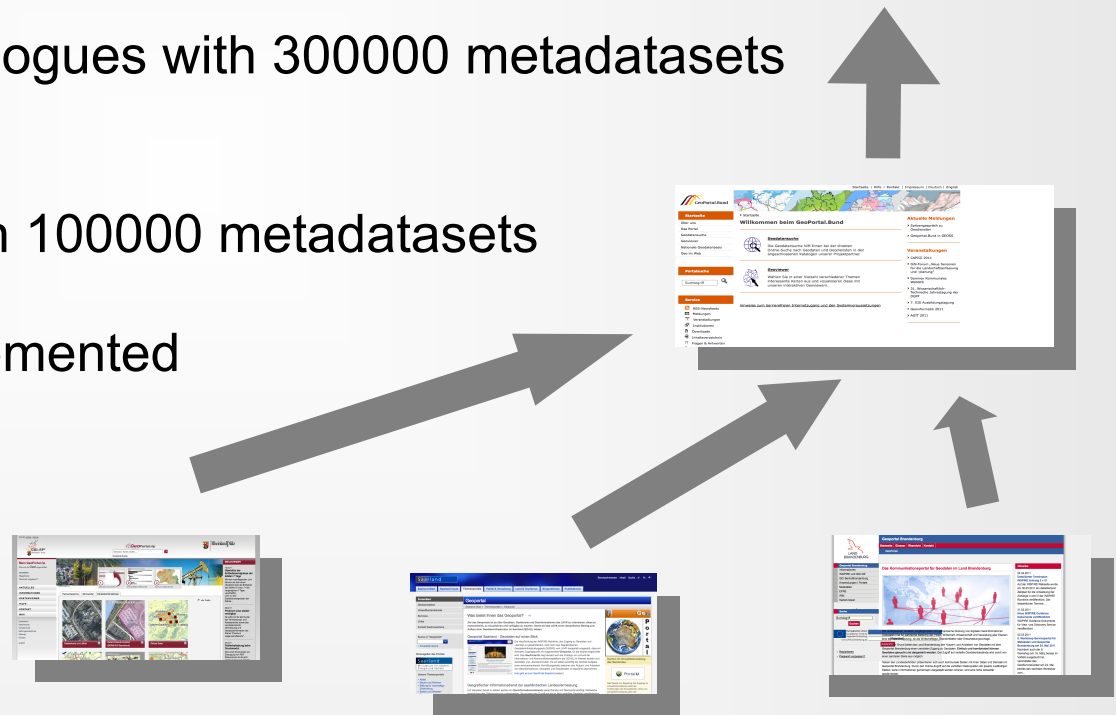
- GeoNetwork opensource
- PostgreSQL/PostGIS
- MapProxy
- Mapbender3
- Apache Lucene and Solr





Implementation Geodatenkatalog-DE

- The main function of the Geodatenkatalog-DE is the consolidation and the allocation of all metadata in the GDI-DE (GDI = Spatial Data Infrastructure) and deliver the metadatasets via CSW (Catalogue Service for Web), for example to the EU for INSPIRE. (European SDI)
- In the first 3 years are 50 catalogues with 300000 metadatasets expected to be harvested.
- At the time: 30 catalogues with 100000 metadatasets
- The catalogue service is implemented with GeoNetwork opensource.





The Search – Lucene and Solr

- An internal interface allows a search with high performance
- The index is based on lucene, which indicates the data in the PostgreSQL database.
- The search interface is realized with Apache Solr.
- It allows settings to boost, sort and to set filter.
- It's an independent search (coded in PHP and JavaScript) which can be used as a stand alone component





The Search – Client

- JSON-search-service as a place search (allocated from Geodatenzentrum)
- WebAtlas-DE as background service
- Localisation over bounding box or textual

What?

E.g.: water, protected site

Where?

E.g.: location, area, river

Select extent



Extent

North :

West :

East :

South :

 [Reset map](#)

search



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Implementation Geoportal.DE

The Search – Result

[Home](#) [Maps](#) [Search](#) [Services](#)

Geoportal » Search

Topic category ▼

- ☐ Weather / Climate
- ☐ Geology / Soil science
- ☐ Water
- ☐ Infrastructure
- ☐ Statistics / Politics / Society
- ☐ Geodata
- ☐ Agriculture and forestry
- ☐ Nature and environment

[Cancel](#)

Acquisition >

Date >

Scale >

Rating >

INSPIRE >

What?

E.g.: water, protected site

Where?

E.g.: location, area, river

search
save search
new search

Select extent ▼

Sort by **Relevance** ▼ ↑

Maps (10) **Geodata (2288)** **Content (16)**

Hits per page **10** ▼

Hit 1 - 10 from 10 | « 1 2 3 4 5 6 7 8 9 10 » |

**WMS: Wasserschutzgebiete von Bayern**
2009-03-19 Bayerisches Landesamt für Umwelt ★ ★ ★ ★ ★ (0)
Der Dienst beinhaltet 2 Layer, dargestellt werden 1. die Umränge der Trinkwasserschutzgebiete und 2. die Umränge der Heilquellenschutzgebiete in Bayern. Erfasst und fortgeschrieben werden die festgesetzten und planreifen Wasserschutzgebiete. Der Erfassungsmaßstab sollte max. 1 : 5.000 betragen, [...]

INSPIRE

[Extent](#) [Order](#) [Download](#) [Print](#) [XML](#) [KML](#) [More](#)

**V Habitat Species management area**
2011-04-14 Ministerium für Umwelt, Landwirtschaft, Ernährung, Weinbau und Forsten, Abteilung 2 (MULEWF), Referat 1023 (MULEWF) ★ ★ ★ ★ ★ (0)
Category V - Protected Landscape/seascape A protected area where the interaction of people and nature over time has produced an area of distinct character with significant ecological, biological, cultural and scenic value: and where safeguarding the integrity of this interaction is vital to [...]

Show in map >



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Implementation Geoportal.DE

The web portal

The screenshot displays the Geoportal.DE web interface. At the top is a red navigation bar with links for Home, Maps, Search, and Services. The main content area features a map of Germany with state boundaries and major cities labeled. To the left of the map is a navigation control with a compass and zoom buttons. Above the map is a legend with options for Map, Map grey, and Aerophotos. Below the map is a copyright notice for GeoBasis-DE / BKG 2012 and a link to Terms of use. To the right of the map is an 'Extended Viewer' button. Below the map is a search bar with the placeholder text 'Which place are you searching for? e.g. city, zip code, address' and a search button. Below the search bar is a row of four map thumbnails with labels: Hochwasser, Erdbeben, Geothermie, and Lärm durch Züge. To the right of the map is a section titled 'Our Featured Map' with a thumbs-up icon, followed by a text block about earthquakes in Germany and two links: 'Details on featured map' and 'Display the map'. Below this is a section titled 'What are you looking for?' with a tree icon, a search bar, and a search button. At the bottom right is a section titled 'Popular Searches' with a list of topics: Environment, Population, Climate, and Water.

Home Maps Search Services

Map Map grey Aerophotos

HAMBURG HANNOVER POTSDAM
MAGDEBURG BERLIN
DÜSSELDORF ERFURT DRESDEN
MAINZ
WIESBADEN
SAARBRÜCKEN
STUTTGART
MÜNCHEN

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Terms of use

Extended Viewer

Which place are you searching for?
e.g. city, zip code, address

Search for a place

Hochwasser Erdbeben Geothermie Lärm durch Züge

Our Featured Map

Earthquakes in Germany:
What effects do they have on people?

In Germany, the threat of earthquakes is far less than in regions in which two continental disks meet. However, also in the Federal Republic there are earthquakes of small to medium intensity.

Details on featured map
Display the map

What are you looking for?
Spatial data and content on search

search item Search

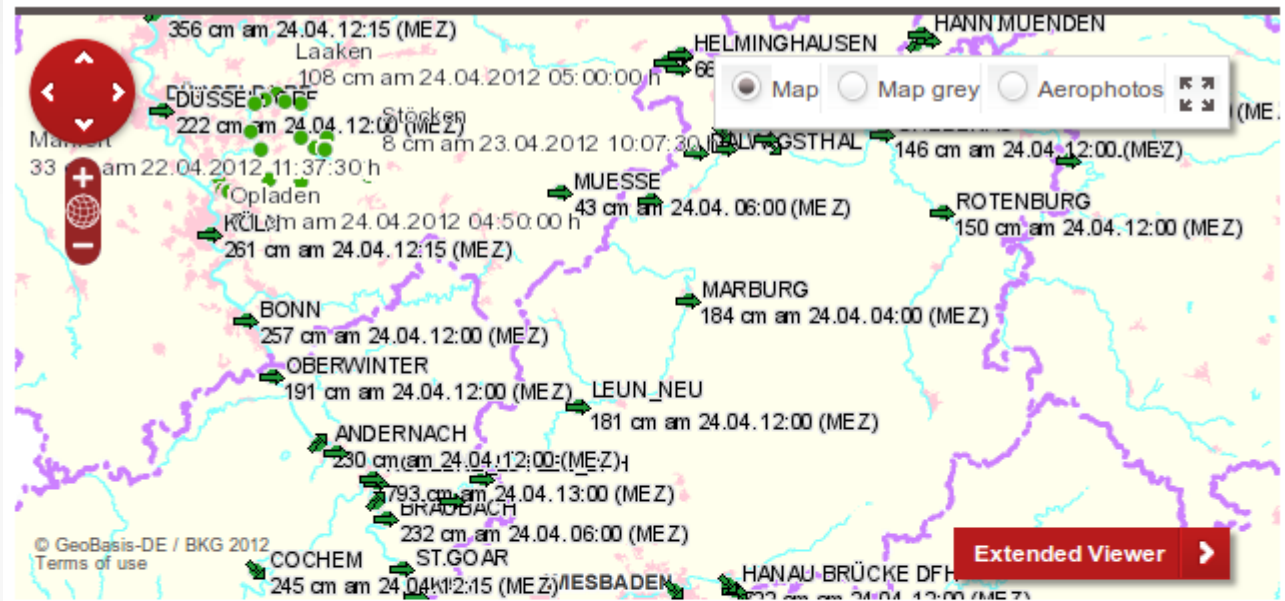
Popular Searches

- Environment
- Population
- Climate
- Water



Thematic maps

- Thematic maps are presented as a WMC (Web Map Context = a combination of several map services)
- Directly over the startpage



Which place are you searching for?
e.g. city, zip code, address

Search for a place

Delete thematic map from view

Hochwasser

Erdbeben

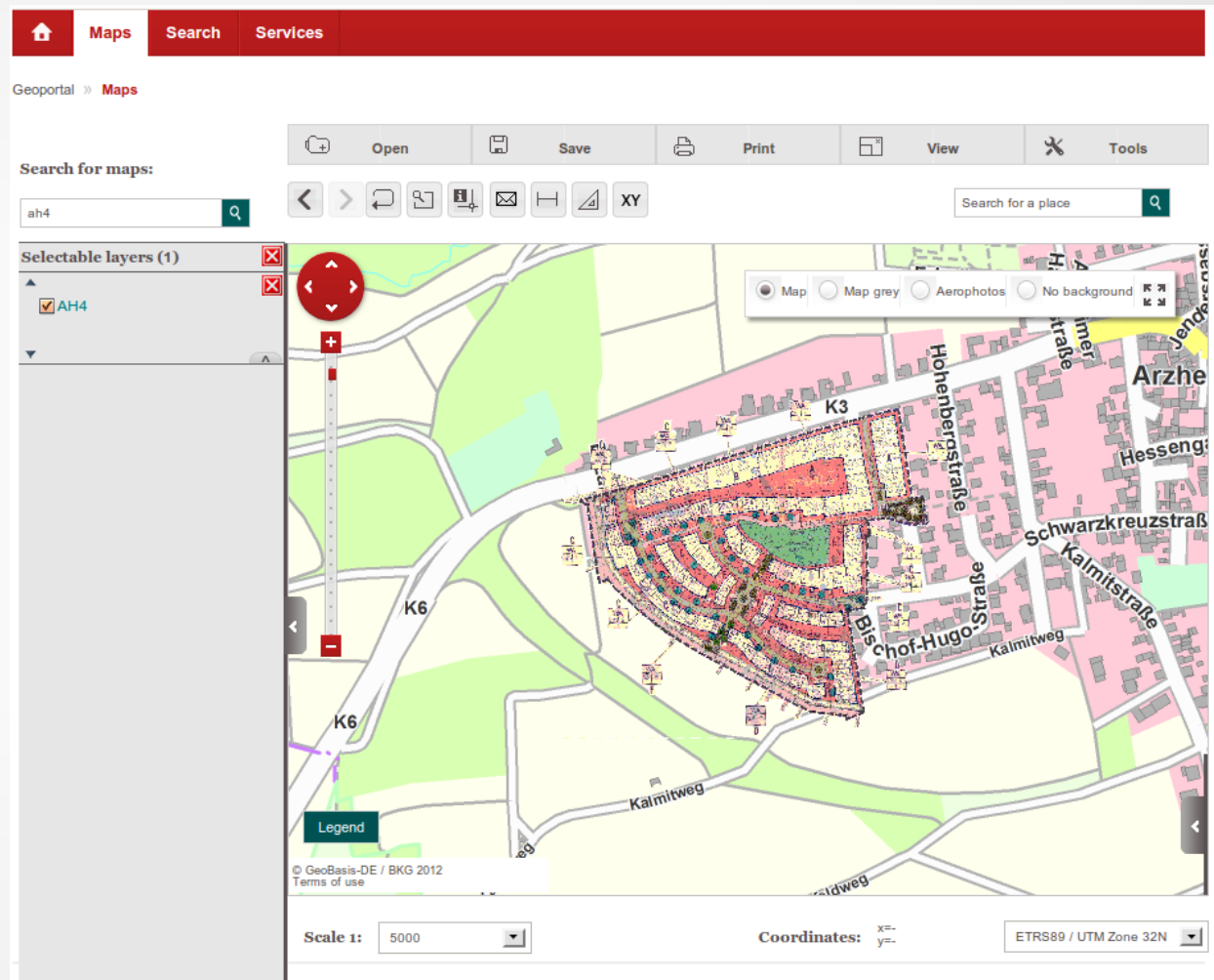
Geothermie

Lärm durch Züge



The main map viewer

- WebGIS functions like
 - zoom
 - measure
 - feature request
 - etc.





Implementation with Mapbender3

- The implementation of the Geoportal.DE has taken place with Mapbender3
- This Software is the new current Version of the Mapbender Clientsuite and it comes out with a complete redesign.
- Mapbender3 based on Frameworks like Symfony2 (PHP), JQuery/JQuery UI (JavaScript) and OpenLayers (for the map).





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Demo

Let's have a look on it



<http://www.geoportal.de>



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Contact

Thanks for your attention

Questions?

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