



Get to know Mapbender

create web applications without writing a single line of code

Astrid Emde, WhereGroup

FOSS4G 2018 Dar es Salaam (Tanzania)





Astrid Emde

- **Mapbender Team**

-  WhereGroup **Bonn (Germany)**
-  **FOSSGIS^{ev}** (OSGeo local chapter)

- **OSGeo Charter Member since 2010**
- **OSGeo Board Member since 2017**
- **Sol Katz Award Winner 2018**
- **Involved in Marketing &**



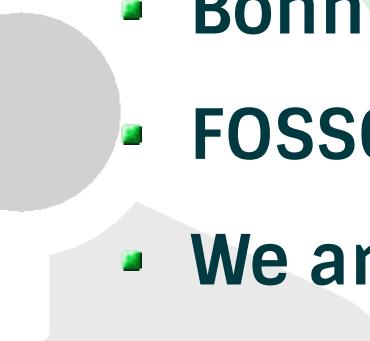
OSGeoLive





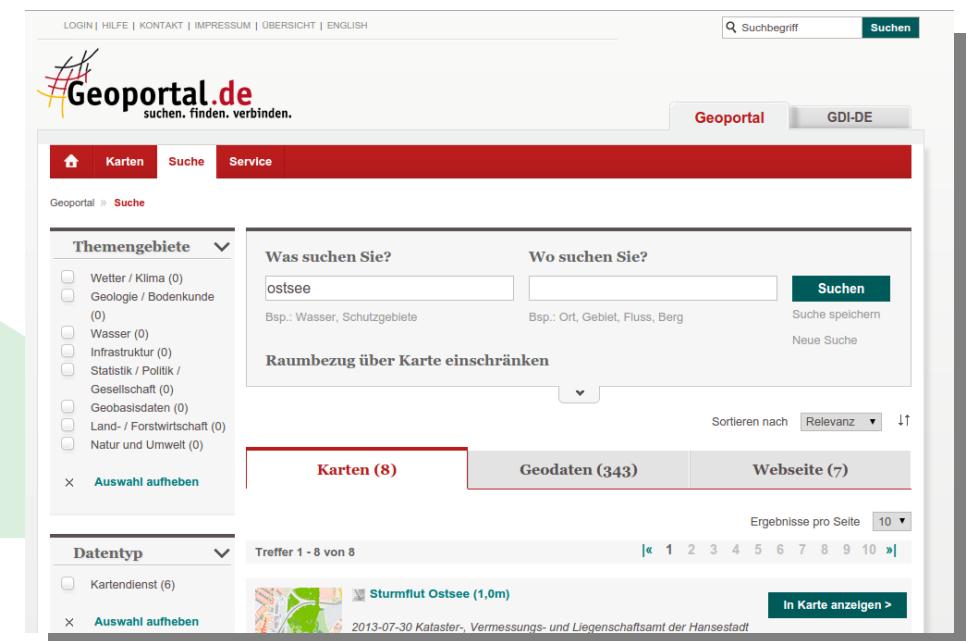
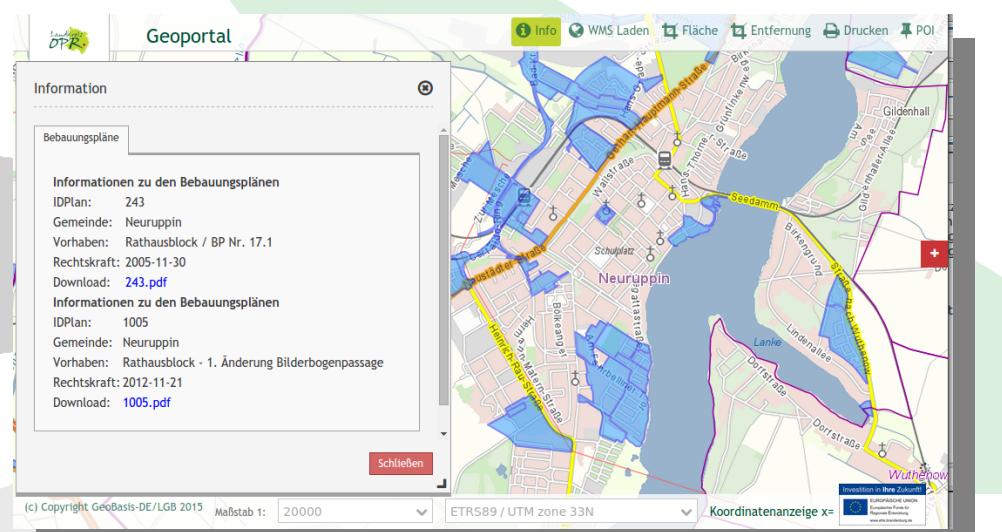
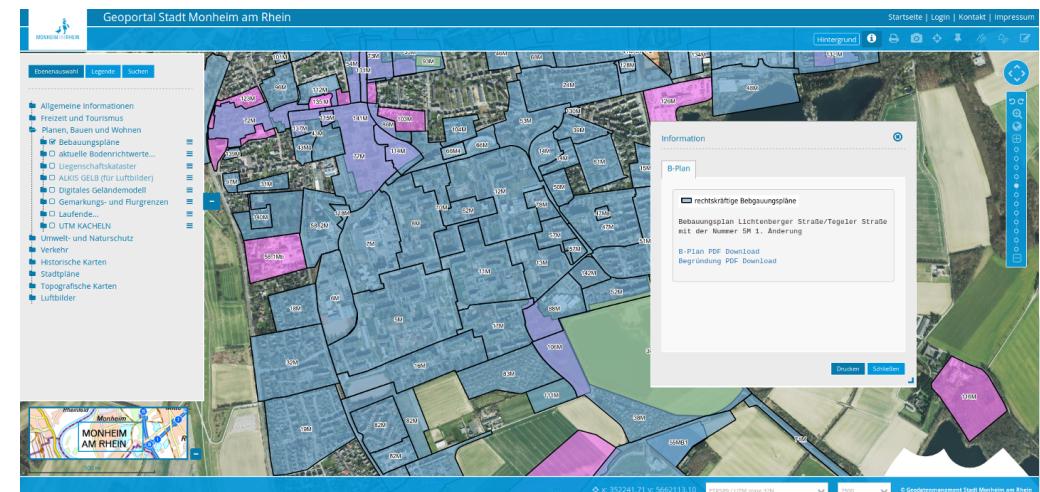
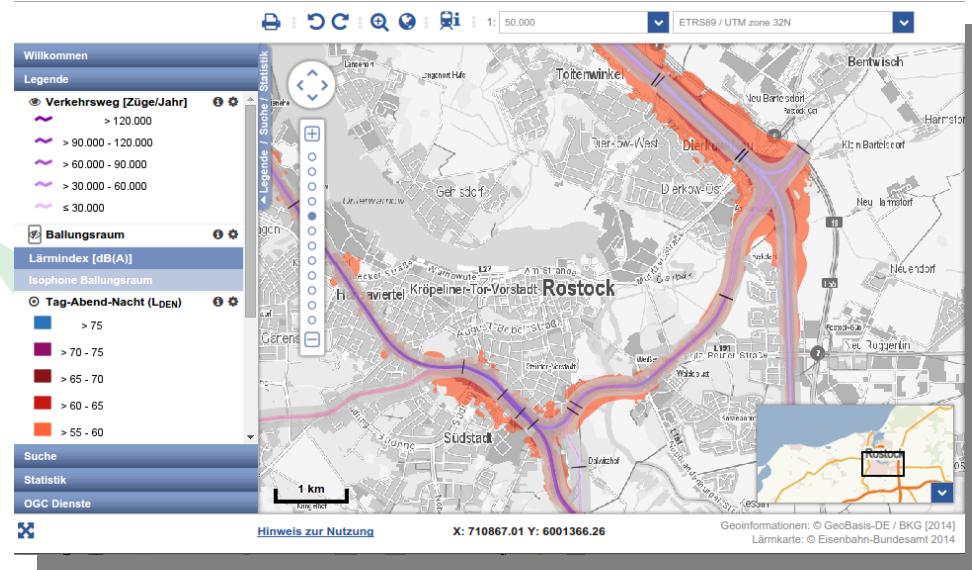
WhereGroup

- > 30 employees - developers, consultants & geospatial experts
- Working with Open Source Software for more than 15 years
- Company behind Mapbender, Metador & Mops
- Bonn – Berlin – Freiburg
- FOSSGIS e.V. member & OSGeo sponsor
- We are hiring!





WhereGroup





WhereGroup

Metador - Metadataeditor

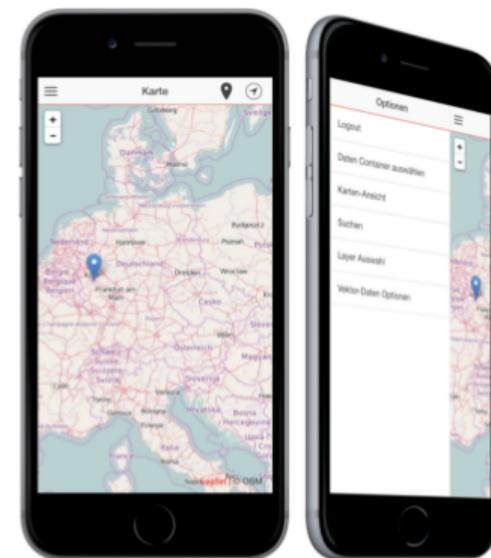
The screenshot shows the Metador interface with a sidebar containing tools like 'Filter zurücksetzen' and 'CSV-Download'. The main area displays three dataset entries:

- Koloss von Rhodos**: A bronze statue of Helios, built around 292 BC. It was one of the Seven Wonders of the Ancient World.
- Mausolleion**: A massive tomb built by King Mausolus of Halicarnassus, completed in 350 BC.
- Pharos von Alexandria**: A lighthouse built by Sostratus of Cnidus, completed around 280 BC.

Each entry includes a thumbnail, a brief description, and download links for PDF, HTML, and XML.

Mops

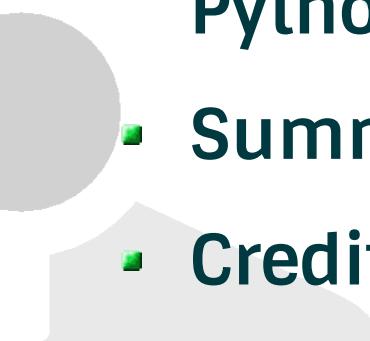
offline Client, Yaga, Leaflet





FOSS *Academy*

- Consulting & training
- <https://www.foss-academy.com/>
- Courses in german language
- QGIS, QGIS Server, MapServer, GeoServer, PostgreSQL/PostGIS, Mapbender, MapProxy, OSM, Python
- Summer- & Winterschool with IHK Certificate
- Credits for courses at UNIGIS Salzburg



@FOSS4G Code Sprint BaseCamp Bonn 2016



@FOSS4G Code Sprint BaseCamp
Bonn 2018



Die Konferenz für Freie Open Source GIS Software und freie Geodaten

Highlights

Dialoge im Bärenzwinger
OSM-Samstag

Termine

08/2018: Call for Papers
12/2018: Anmeldung

Infos

www.fossgis-konferenz.de
twitter.com/FOSSGIS_Konf



FOSSGIS 2019

DRESDEN

13.-16.03.2019



<https://www.fossgis-konferenz.de/2019/>

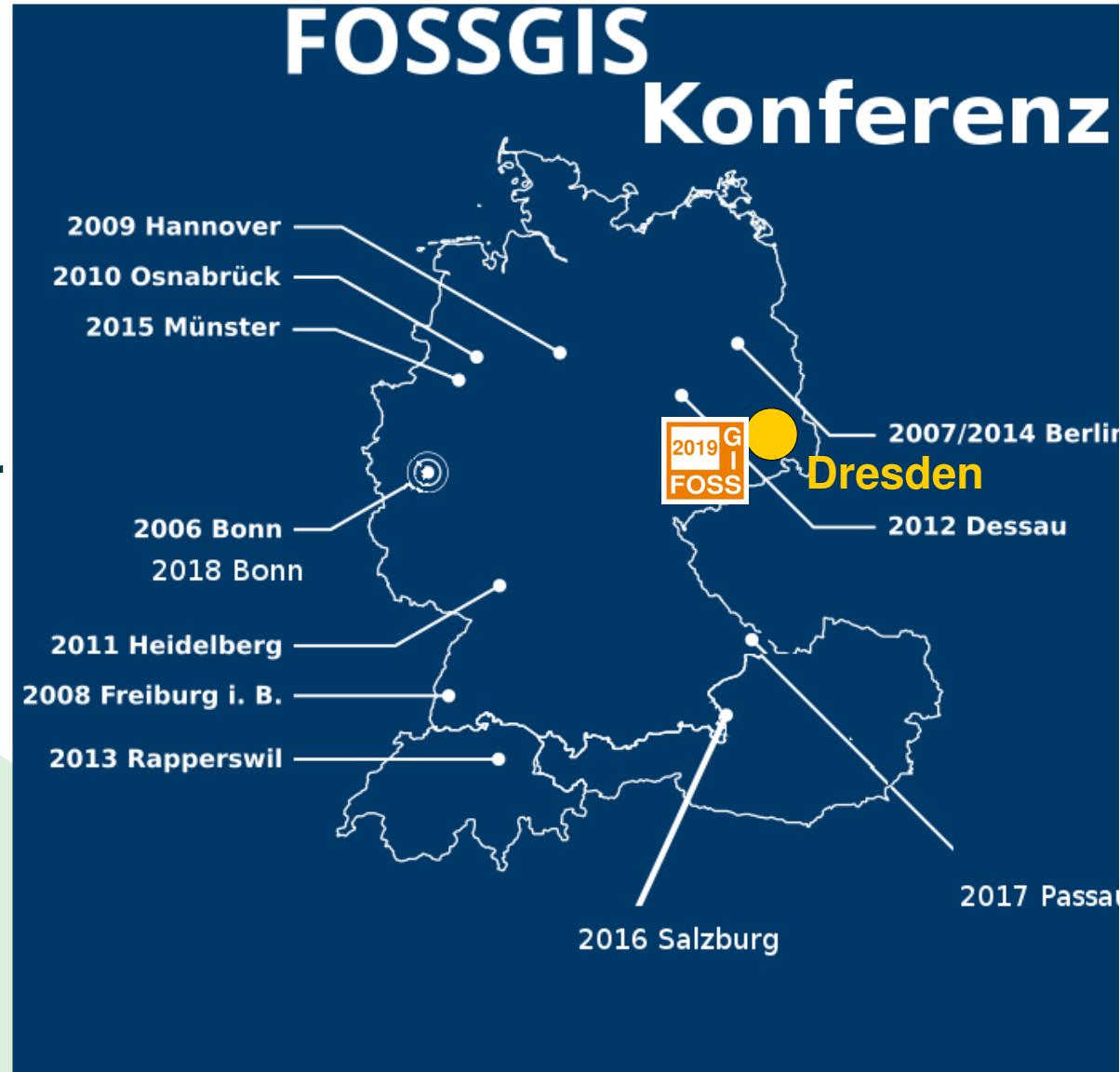




1. FOSSGIS Konferenz
March 2006 in Bonn
mit 350 Participants

2003-2005 MapServer
Anwendertreffen

2018 Bonn



@FOSSGIS Hacking at Linuxhotel



@Bolsena OSGeo Code Sprint 2010

2017 G
I
FOSS



FOSS4G Community Sprint 2018

- Don't miss it!
- Saturday & Sunday 1.-2.9.2018 8am to 5pm
- dLab Dar es Salaam
- <https://www.osgeo.org/events/foss4g-2018-community-sprint-2018/>





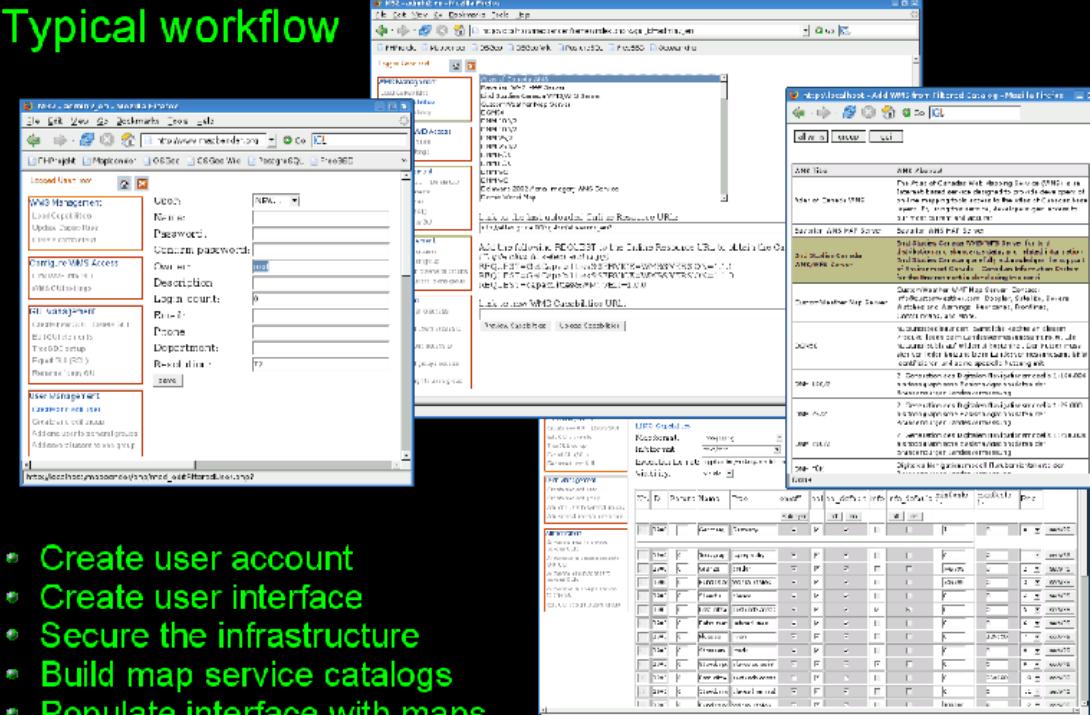
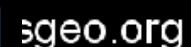
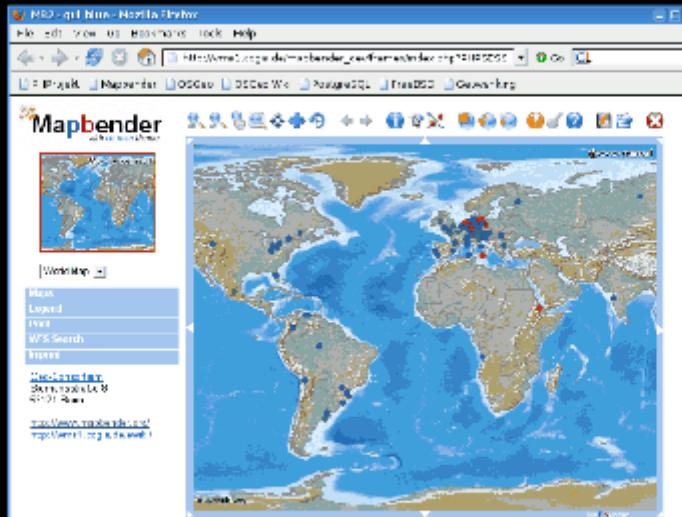
Mapbender

 Bend the
maps to
suit your
needs!

The tip of the Iceberg



This is what people can do with Mapbender



- Create user account
 - Create user interface
 - Secure the infrastructure
 - Build map service catalogs
 - Populate interface with maps
 - Grant user access to interface
 - Add interactive elements to map





Free and Open Source Software for
Geoinformatics 2006

Lausanne (Switzerland)

Mapbender

- an introduction to the Mapbender project

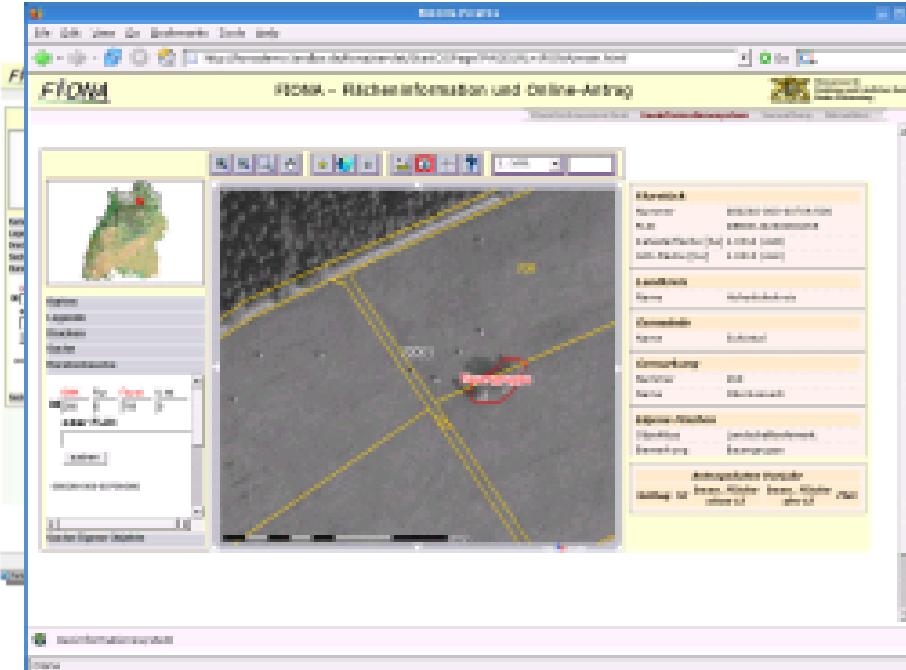
Astrid Emde
CCGIS Bonn (Germany)



FOSS4G Lausanne 2006 Astrid Emde

What does FIONA offer?

- The portal provides authenticated and secured access for 80.000 farmers to coordinate the subsidies for their farmland



GEO-CONSORTIUM

FOSS4G Lausanne 2006 Astrid Emde



8 Dar es Salaam



Map/ @vtcraghead · 9 Std.

Man, #FOSS4G was wonderful. Glad I got to learn so much and see so many of my "digital colleagues" in person!

🌐 Original (Englisch) übersetzen



GIF

1

1

10



↳ OSGeo hat retweetet



David Bitner @bitnerd · 18. Aug.

Enormous insane thanks to @MT_AppGeo @GuidoS and the entire #foss4g bloc for such a great time

🌐 Original (Englisch) übersetzen

SENORGIF.COM



GIF

1

8

38



Mapbender – Astrid Emde WhereGroup |





TIB AV Portal

- Videos from FOSSGIS, FOSS4G, FOSDEM & GRASS & ...

The screenshot shows a web browser window for the TIB AV Portal. The URL in the address bar is https://www.tib.eu/en/search/?id=198&tx_tibsearch_search%5Bquery%5D=fossgis+2017&tx_tibsearch_search%5Bsearchspace%5D=tn&tx_tibsearch_search%5Bsortfield%5D=Best+results&tx_tibsearch_search%5Bsortorder%5D=asc&tx_tibsearch_search%5Bstart%5D=1&tx_tibsearch_search%5Blimit%5D=10. The page header includes the TIB logo, a search bar, and navigation links for Borrowing & Ordering, Search & Discover, Learning & Working, Publishing & Archiving, Research & Development, and TIB.

The search results for "fossgis 2017" show one item:

- Eröffnungsveranstaltung der FOSSGIS-Konferenz 2017**
Conference
Lechner, Marco | AV Media | 2017
Begrüßung und Moderation durch Marco Lechner, Vorsitzender des veranstaltenden FOSSGIS e.V.
und Grußworte der gastgebenden Universität ...
Supplier: FOSSGIS e.V., CCC VOC

On the left sidebar, there are filters for Year of publication (2015-2018), Type of media (Audio-visual, Conference Proceedings), and Source.

The footer of the page includes the URL <https://www.tib.eu/en/> and the text "Drilldown".



What does Mapbender do?





WebGIS Client Suite with administration web interface



Mapbender – Astrid Emde WhereGroup FOSS4G 2018 Dar es Salaam



Create a geoportal without writing a single line of code!



Mapbender – Astrid Emde WhereGroup FOSS4G 2018 Dar es Salaam



Create and maintain an OWS repository



Mapbender – Astrid Emde WhereGroup FOSS4G 2018 Dar es Salaam



Distribute configured services among applications





Grant users and groups access to applications and services





The Mapbender components

Applications

Services

Roles



Mapbender3 - Mapbender Demo Map - Chromium

Mapbender3 - Mapbender

A set of small, semi-transparent navigation icons located in the bottom right corner of the slide.

 [sandbox.mapbender3.org/application/mapbender_user](#)



Mapbender3

Scale 1 : 100K

The figure is a map of the Rhine River area in Germany, specifically around the cities of Wesseling, Niederkassel, Troisdorf, Sankt Augustin, Lohmar, Rösath, Hennef, and Bornheim. The map displays a network of roads, with major highways (A4, A5, A55, A565, A59, A60) highlighted in red. The Rhine River flows through the center of the map. Various green areas represent parks and forests. An inset map in the bottom right corner provides a larger-scale view of the surrounding region.

Mapbender – Astrid Emde WhereGroup FOSS4G 2018 Dar es Salaam

Gallery | Mapbender - Chromium

Gallery | Mapbender

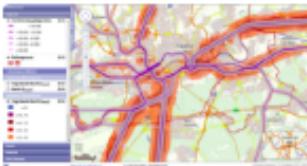
https://mapbender.org/?q=en/gallery

Mapbender

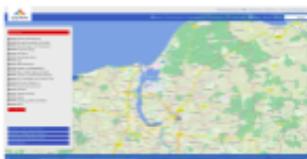
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Gallery

 Geoportal.de

 Geoportal Eisenbahn-Bundesamt

 Servicezentrum Landentwicklung und Agrarförderung Niedersachsen

 Geoportal HRO

 OSGeo Project

Follow us on Twitter
<https://twitter.com/mapbender/>

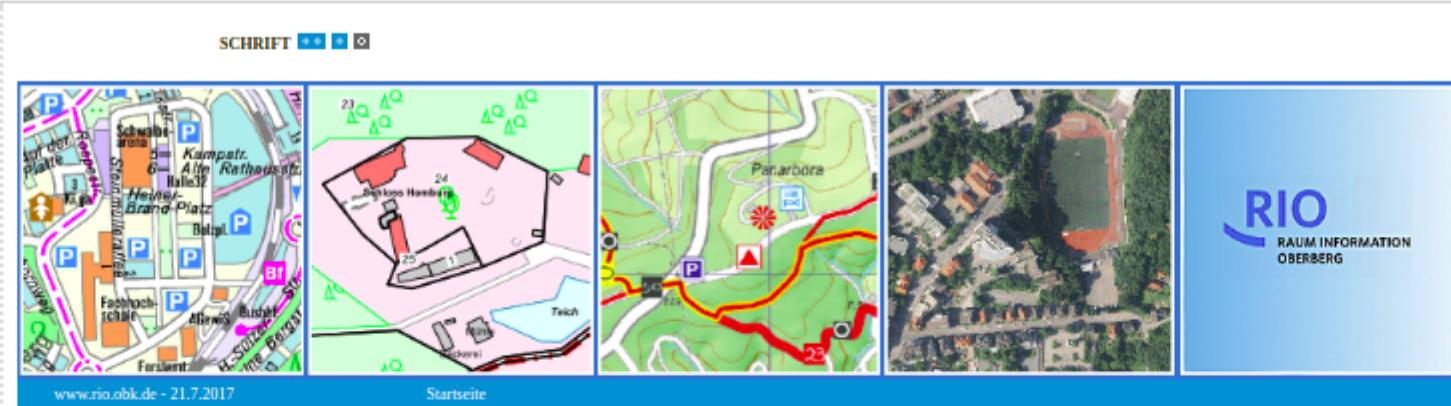
#Mapbender

OpenStreetMap Somalia Retweeted

OSGeo @OSGeo

#foss4ge - make plans for the weekend & join our #foss4ge Community Sprint on saturday and sunday. Check wiki page wiki.osgeo.org/wiki/FOSS4G-EU... #OSGeo #osm #qgis #Mapbender #OSGeoLive #PyWPS already registered. You are welcome to join. See you at Universidade do Minho.

Embed View on Twitter



RIO Raum Information Oberberg

Allgemeines

Aktuelles

Themen

Service

Nutzungsrecht

Hilfe

Anwendungen

Aktuelles, Service, Kultur & Tourismus

Gesundheit, Soziales & Pflege

Kinder, Jugend & Familie

Planen, Bauen, Umwelt

Bildung in Oberberg

Wirtschaftsförderung

Wählen

RIO Raum Information Oberberg - Startseite

RIO ist das Raum Informationssystem des Oberbergischen Kreises, in dem Geoinformationen für die Öffentlichkeit bereitgestellt und präsentiert werden. Es gibt sieben verschiedene RIO-Anwendungen, die nach unterschiedlichen Themen (z.B. RIO Gesundheit, Soziales und Pflege) strukturiert sind. Jede RIO-Anwendung enthält themenbezogene Fachdaten, die sich nach Auswahl darstellen und drucken lassen.

Ich akzeptiere die Hinweise und rechtlichen Einschränkungen unter [RIO-Nutzungsrecht](#) und starte eine der folgenden Anwendungen:



RIO - Aktuelles, Service, Kultur & Tourismus



RIO - Gesundheit, Soziales & Pflege



RIO - Kinder, Jugend & Familie



RIO - Planen, Bauen, Umwelt



RIO - Bildung in Oberberg



RIO - Wirtschaftsförderung



Wählen



RIO

RAUMINFORMATION
OBERBERG

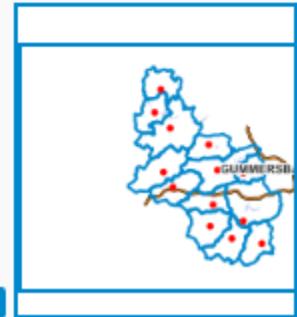
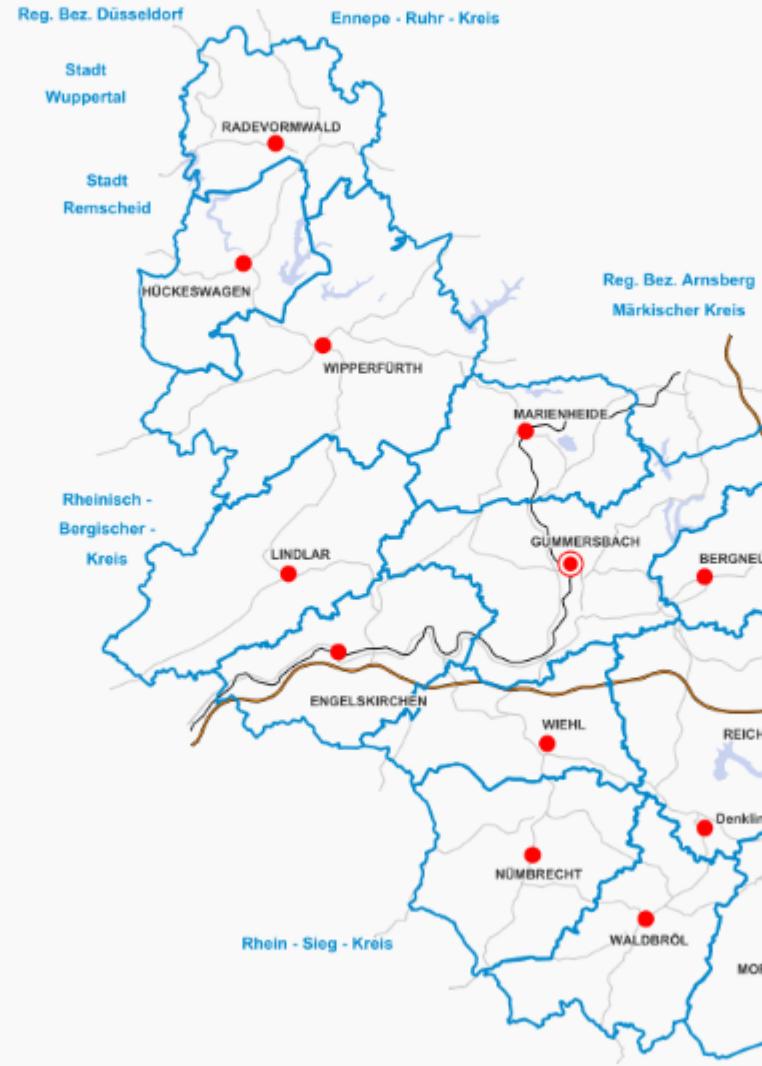
Kartenauswahl Suchen Koordinatensuche

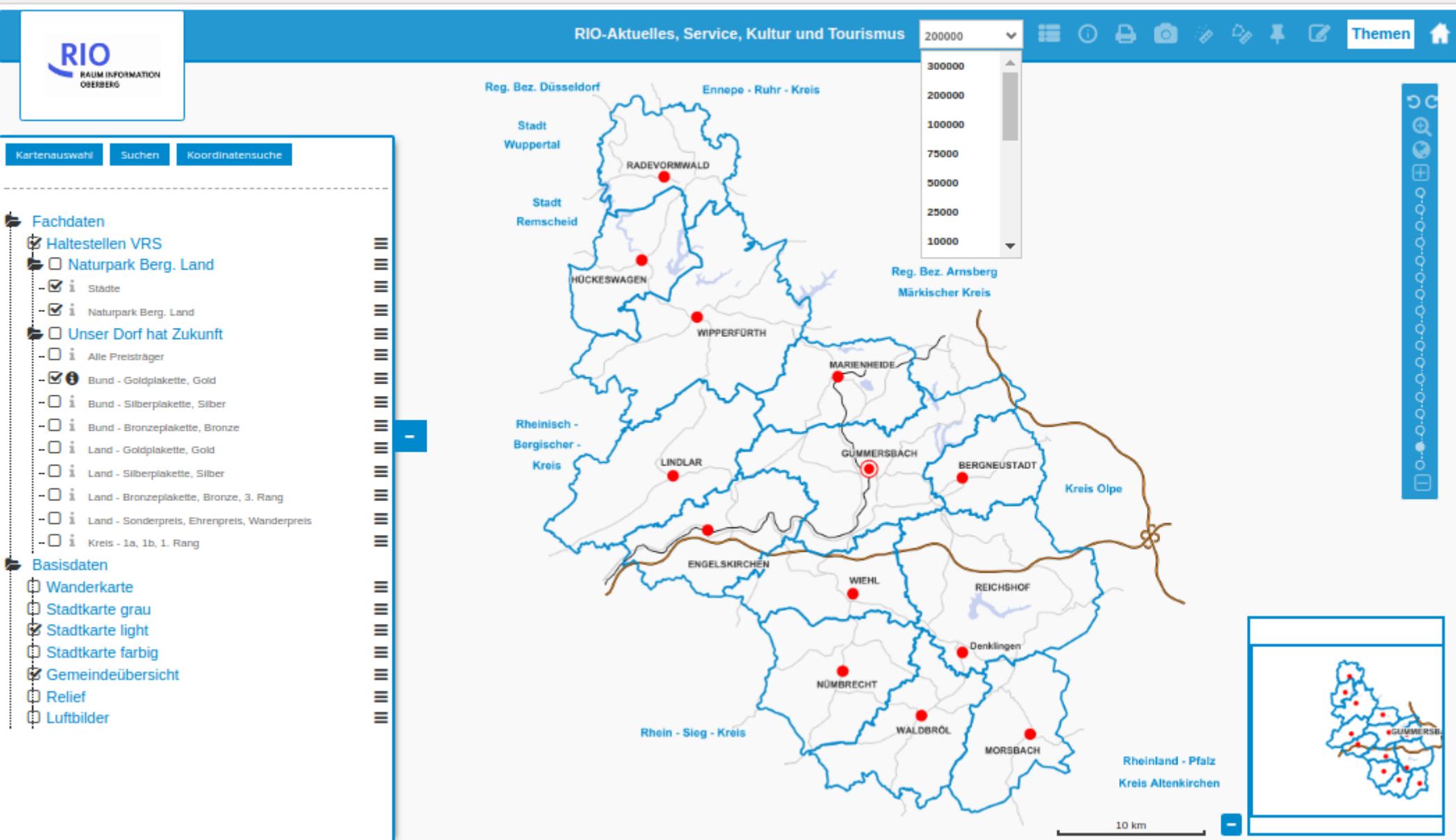
Fachdaten

- Haltestellen VRS
- Naturpark Berg. Land
- Städte
- Naturpark Berg. Land
- Unser Dorf hat Zukunft
- Alle Preisträger
- Bund - Goldplakette, Gold
- Bund - Silberplakette, Silber
- Bund - Bronzeplakette, Bronze
- Land - Goldplakette, Gold
- Land - Silberplakette, Silber
- Land - Bronzeplakette, Bronze, 3. Rang
- Land - Sonderpreis, Ehrenpreis, Wanderpreis
- Kreis - 1a, 1b, 1. Rang

Basisdaten

- Wanderkarte
- Stadtkarte grau
- Stadtkarte light
- Stadtkarte farbig
- Gemeindeübersicht
- Relief
- Luftbilder





RAUM INFORMATION
OBERBERG

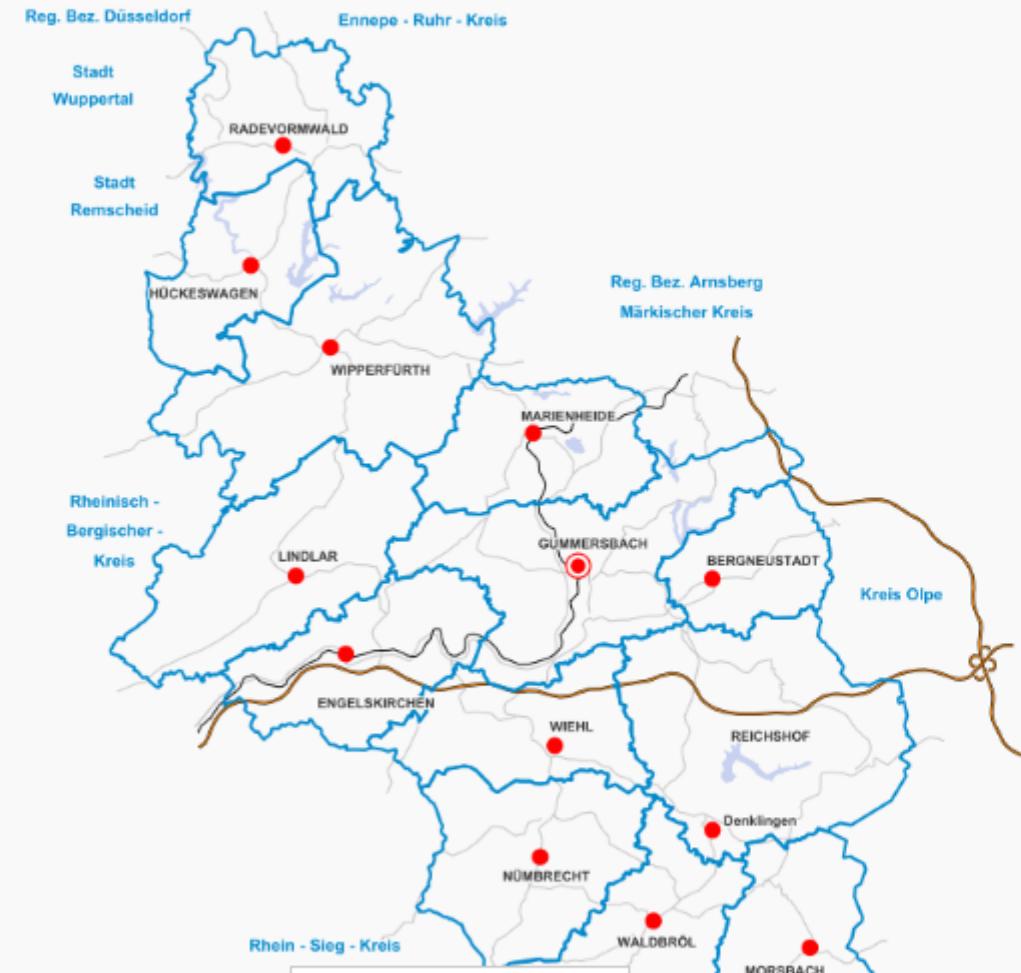
Kartenauswahl Suchen Koordinatensuche

Fachdaten

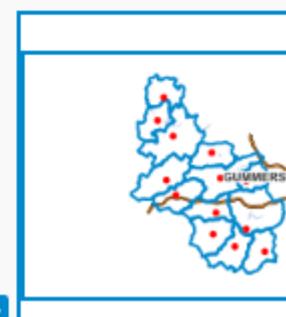
- Haltestellen VRS
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 - Städte
 - Naturpark Berg. Land
- Unser Dorf hat Zukunft
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 - Land - Bronzeplakette, Bronze, 3. Rang
 - Land - Sonderpreis, Ehrenpreis, Wanderpreis
 - Kreis - 1a, 1b, 1. Rang

Basisdaten

- Wanderkarte
- Stadtkarte grau
- Stadtkarte light
- Stadtkarte farbig
- Gemeindeübersicht
- Relief
- Luftbilder



SRS Auswahl



Geobasisdaten der Oberbergischen Kommunen und des Landes NRW © Geobasis NRW 2017

N: - S:



Themen



RIO - RIO-Aktuelles, Service, Kultur und Tourismus

200000

Kartenauswahl Suchen Koordinatensuche

Fachdaten

- Haltestellen VRS
- Naturpark Berg. Land
- Unser Dorf hat Zukunft

Basisdaten

- Wanderkarte
- Stadtkarte grau
- Stadtkarte light
- Stadtkarte farbig
- Gemeindeübersicht
- Relief
- Luftbilder

Wuppertal
Reg. Bez. Düsseldorf
Stadt Wuppertal
RADEVORMWALD
HÜCKESWAGEN
WIPPERFÜRTH
LINDLAR
ENGELSKIRCHEN
Naturpark Bergisches Land
Rheinisch-Bergischer Kreis
Rhein-Sieg-Kreis
Siegburg
Waldbrol
Morsbach

Legende

- Naturpark Berg. Land
- Fläche
- Unser Dorf hat Zukunft
- BUND
- Bund - Goldplakette, Gold
- Stadtkarte grau
- Stadtkarte light
- Stadtkarte farbig
- Gemeindeübersicht
- Gemeindezentrum

Schließen

10 km

O: N: UTM32 ETRS89

Geobasisdaten der Oberbergischen Kommunen und des Landes NRW © Geobasis NRW 2017



RIO - RIO-Aktuelles, Service, Kultur und Tourismus 10000

Fachdaten

- Haltestellen VRS
- Naturpark Berg. Land
- Städte
- Natur
- Unser Dorf
- Alle PLZ
- Bund
- Landkreis
- Land
- Land
- Land
- Kreis

Redlining

Punkt Linie Polygon Rechteck Text

Text: Mein Schulweg

Linie 1 Linie 2 Text

Schließen

Mapbender - Astrid Emde WhereGroup FOSS4G 2018 Dar es Salaam

Geobasisdaten der Oberbergischen Kommunen und des Landes NRW © Geobasis NRW 2017

The map displays a detailed view of the Oberberg region in North Rhine-Westphalia, Germany. A prominent red line, labeled 'Mein Schulweg', is drawn across the map, starting from Frielingsdorf and passing through Kuhbach, Kaiserau, Felsenhal, and ending in Hagen/Würden. The map also shows several other settlements like Remshagen, Am Weiher, and Flaberg. Topographic features such as hills (Hoher Stein, Eberbergkopf) and water bodies (Kuhbach, Elbach) are indicated. Various roads, paths, and landmarks are marked with symbols like 'H' for haltestellen and 'F' for Friedhof. A scale bar shows distances up to 500 meters. The interface includes a legend for different data layers, a search function, and a zoom tool. A small inset map in the bottom right corner shows the location of the region within the state of North Rhine-Westphalia.

GeoPortalSPN - geo_bp - Chromium

GeoPortalSPN - geo

https://geoportal.lkspn.de/gp_spn/app.php/application/geo_bp

GeoPortal

LANDKREIS SPREE-NEISSE
WOKREJS SPRJEWJA-NYSA

Eisenhüttenstadt

Luckenwalde

Elbtow-Fläming

Rstromtal

Dahme-Spreewald

Schwarze Pumpe

Elbe-Elster

Oberlausitz

Schraden

Lauchhammer

13

Info Entfernung Fläche Aktuelle Karte weiterleiten WMS laden Hilfe

Hintergrundkarte wechseln

Kartenthemen Legende Suchen

Kartenthemen

- Verwaltungsgrenzen (Geobasisdaten)
- Bodenrichtwerte 2017 (Geobasisdaten)
- BOV-Verfahren Neubestand (vlf)
- Bodenordnungsverfahren (vlf)
- Liegenschaftskarte (Geobasisdaten)
- Strassennetz (Geobasisdaten)
- Höhenrelief (Geobasisdaten)
- Aktualität Luftbilder (Geobasisdaten)
- Bauplanung (SPN)
- Baudenkmäler (SPN)
- Verwaltungsstandorte (SPN)
- Trink- und Abwasser des GWAZ
- Bauleitplanung der Gemeinden
- sonstige Zonen/Gebiete

WMS laden

Beispiel: http://wms.wherogroup.com/cgi-bin/mapbender_user.xml?VERSION=1.1.1&REQUEST=GetCapabilities&SERVICE=WMS

URL:

Benutzername:

Password:

Laden Abbrechen

© GeoBasis-DE/LGB 2014 ... Maßstab: 500000 ETRS89 / UTM zone 33N x= - y= -



LANDKREIS SPREE-NEISSE
WOKREJS SPRJEWJA-NYSA

GeoPortal



Info



Entfernung



Fläche



Aktuelle Karte weiterleiten



Hintergrundkarte wechseln



Kartenthemen Legende Suchen

- Mapbender User
 - Mapbender Info
 - Mapbender User
- Kartenthemen**
- Verwaltungsgrenzen (Geobasisdaten)
 - Bodenrichtwerte 2017 (Geobasisdaten)
 - BOV-Verfahren Neubestand (vlf)
 - Bodenordnungsverfahren (vlf)
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 - Strassennetz (Geobasisdaten)
 - Höhenrelief (Geobasisdaten)
 - Aktualität Luftbilder (Geobasisdaten)
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- Bauleitplanung der Gemeinden
sonstige Zonen/Gebiete

Mapbender3 - Mapbender Demo Map - Chromium

Mapbender3 - Mapbender



sandbox.mapbender3.org/application/mapbender_user



Layertree

Feature Info

Print

Legend

WMS Loader

GPS

Line Ruler

Area Ruler

About



Mapbender3

Scale 1 : 2500

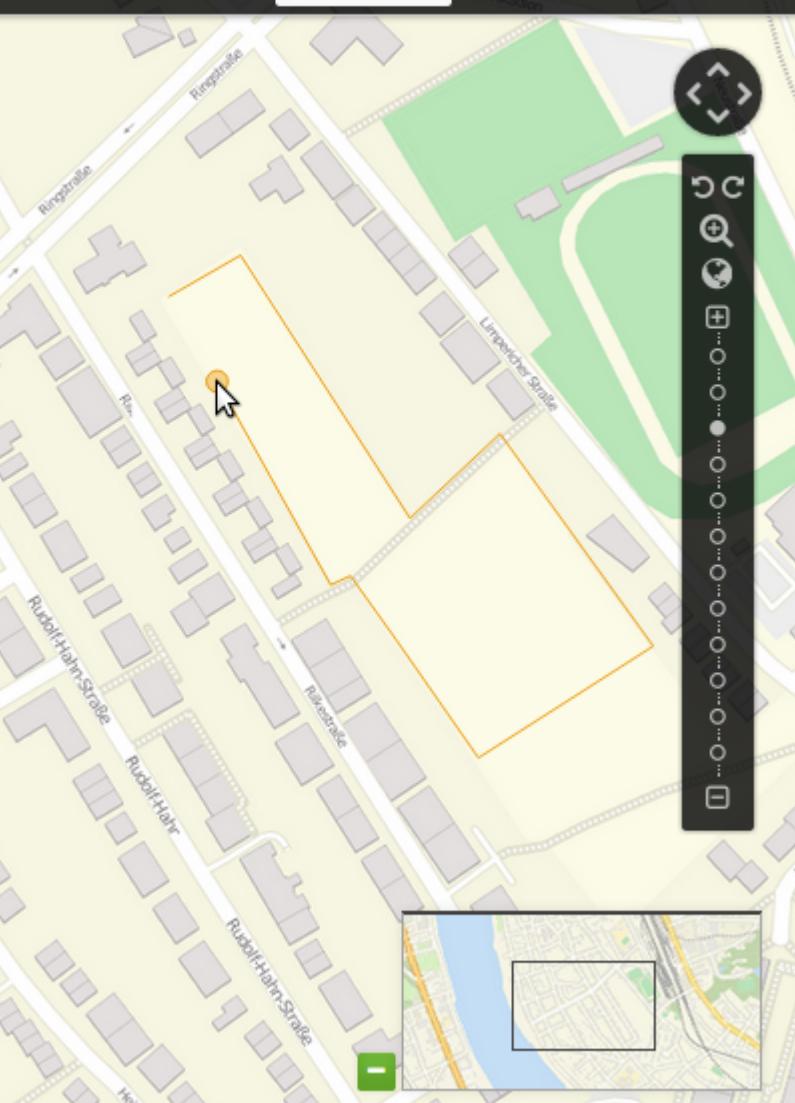


100 m

Distance

- 40.69 m
- 193.84 m
- 254.36 m
- 382.62 m
- 484.15 m
- 555.10 m
- 593.03 m
- 603.69 m

Close



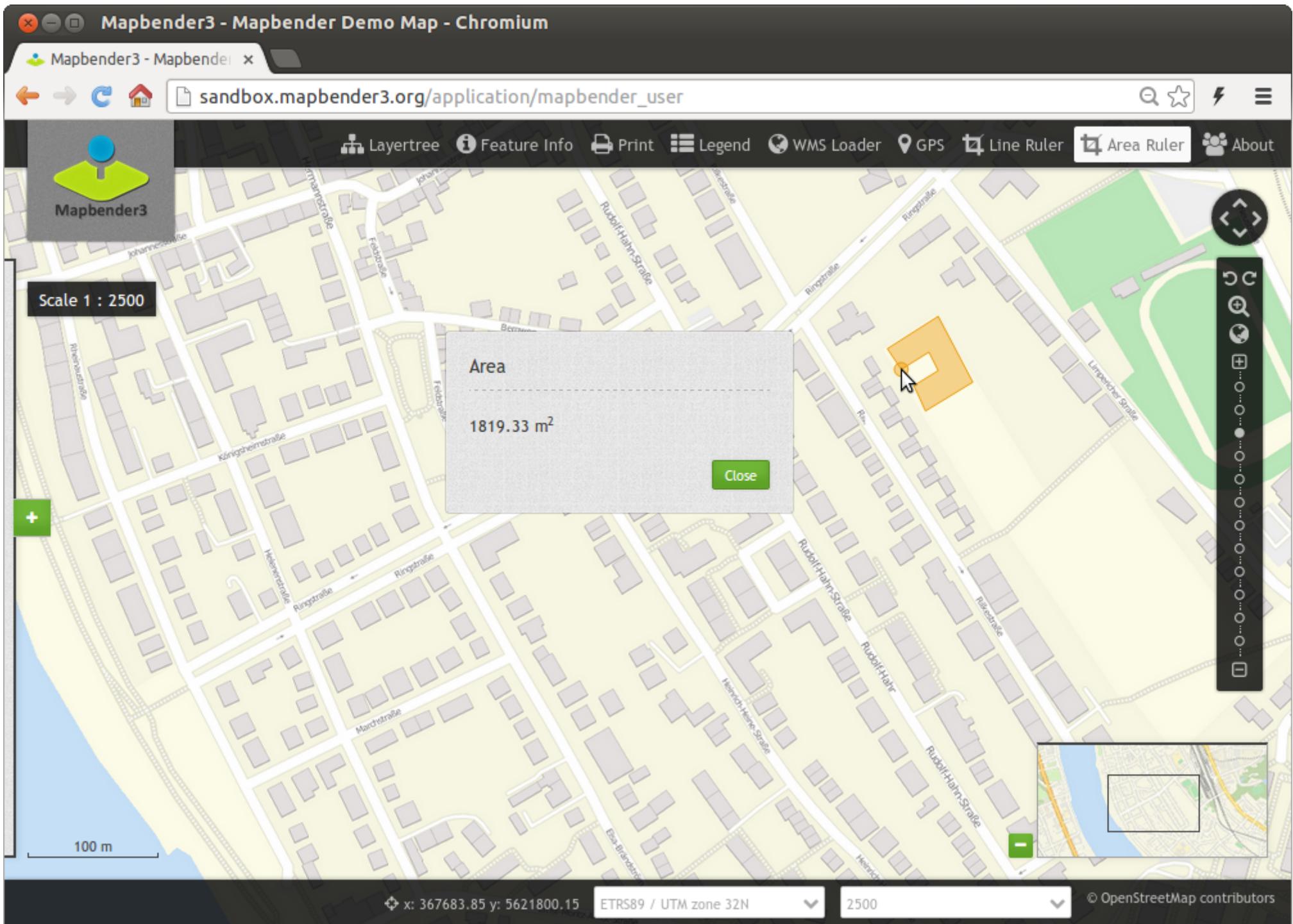
x: 367697.96 y: 5621775.46

ETRS89 / UTM zone 32N

2500

© OpenStreetMap contributors

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Mapbender – Astrid Emde WhereGroup FOSS4G 2018 Dar es Salaam



Geoportal Stadt Monheim am Rhein

Startseite | Login | Kontakt | Impressum | Hilfe

Druck



Vorlage

DIN A4 Querformat



Qualität

Draft (72dpi)



Maßstab

1:5000



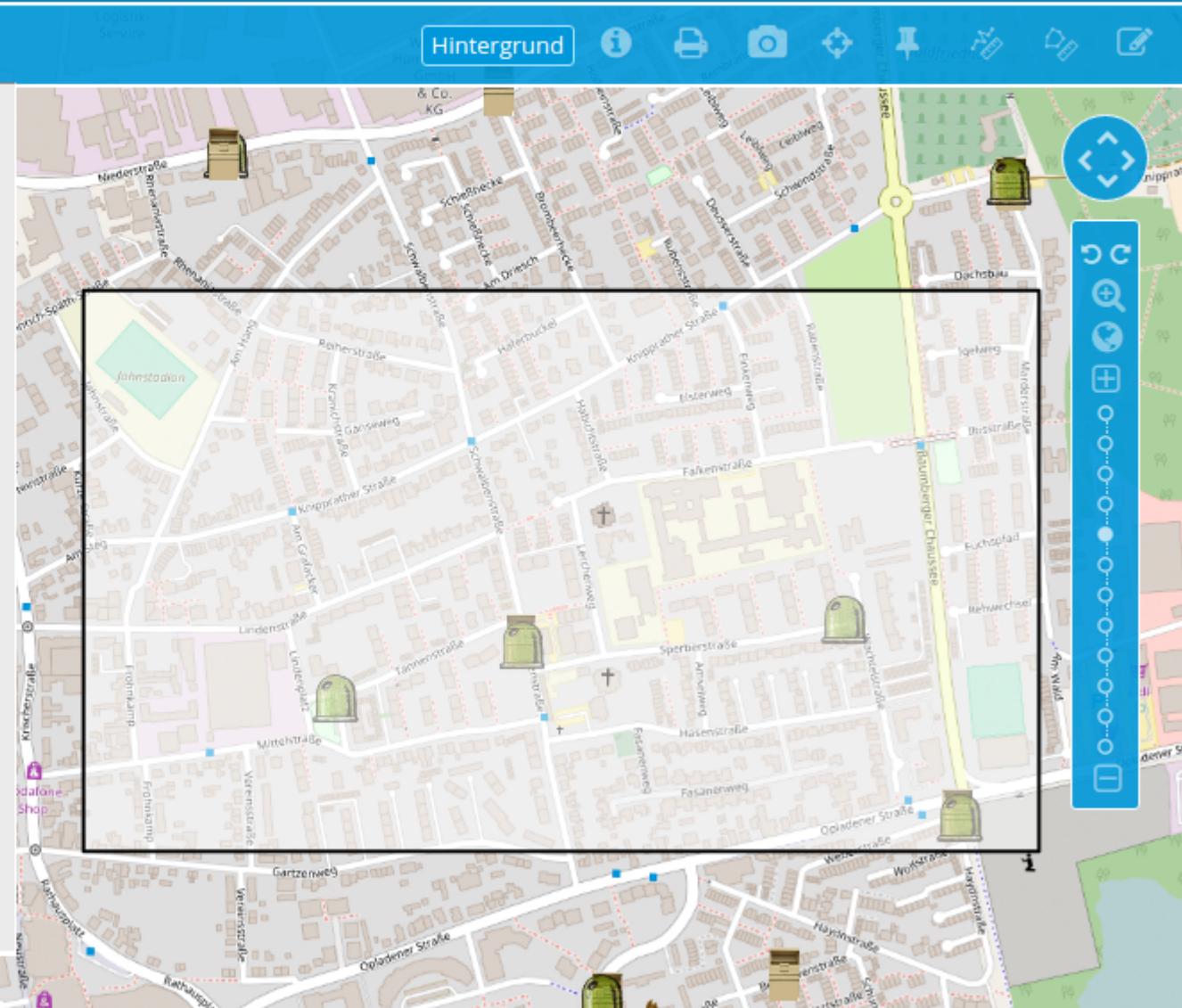
Drehung

0

 Legende drucken

Drucken

Abbrechen





?



file:///home/tix/Downloads/GeoDaten_Monheim_am_Rhein_20170721020852.pdf

Der Bürgermeister

nicht amtlicher Auszug aus dem Geodatenportal

Geobasisdaten der Stadt Monheim am Rhein, des Kreises Mettmann und des Landes NRW © Geobasis NRW sowie Geodaten aus OpenStreetMap © OSM-Mitwirkende. Für Geodaten anderer Quellen gelten die Nutzungs- und Lizenzbedingungen der jeweils zugrundeliegenden Dienste.

Maßstab:
1 : 5000

Datum:
21.07.2017



Luftbilder

luftbilder

Containerstandorte

Altkleider
Glas

Ihr Ansprechpartner:

Thomas Nüchter
Stadt Monheim am Rhein
Bereich Stadtplanung und Bauaufsicht
Geodatenmanagement

Rathausplatz 2
40789 Monheim am Rhein
Phone: 02173 951608
tnuechter@monheim.de
www.geoportal.monheim.de

Der Auszug ist gesetzlich geschützt. Eine Vervielfältigung, Umgestaltung, Veröffentlichung oder Weitergabe an Dritte ist nur mit Zustimmung des Herausgebers zulässig. Weitere Informationen zur Nutzung der Geodaten finden Sie unter geoportal.monheim.de.





Geoportal Stadt Monheim am Rhein

[Startseite](#) | [Login](#) | [Kontakt](#) | [Impressum](#) | [Hilfe](#)[Hintergrund](#)

Druck



Vorlage

DIN A4 Querformat



Qualität

Draft (72dpi)



Maßstab

1:500

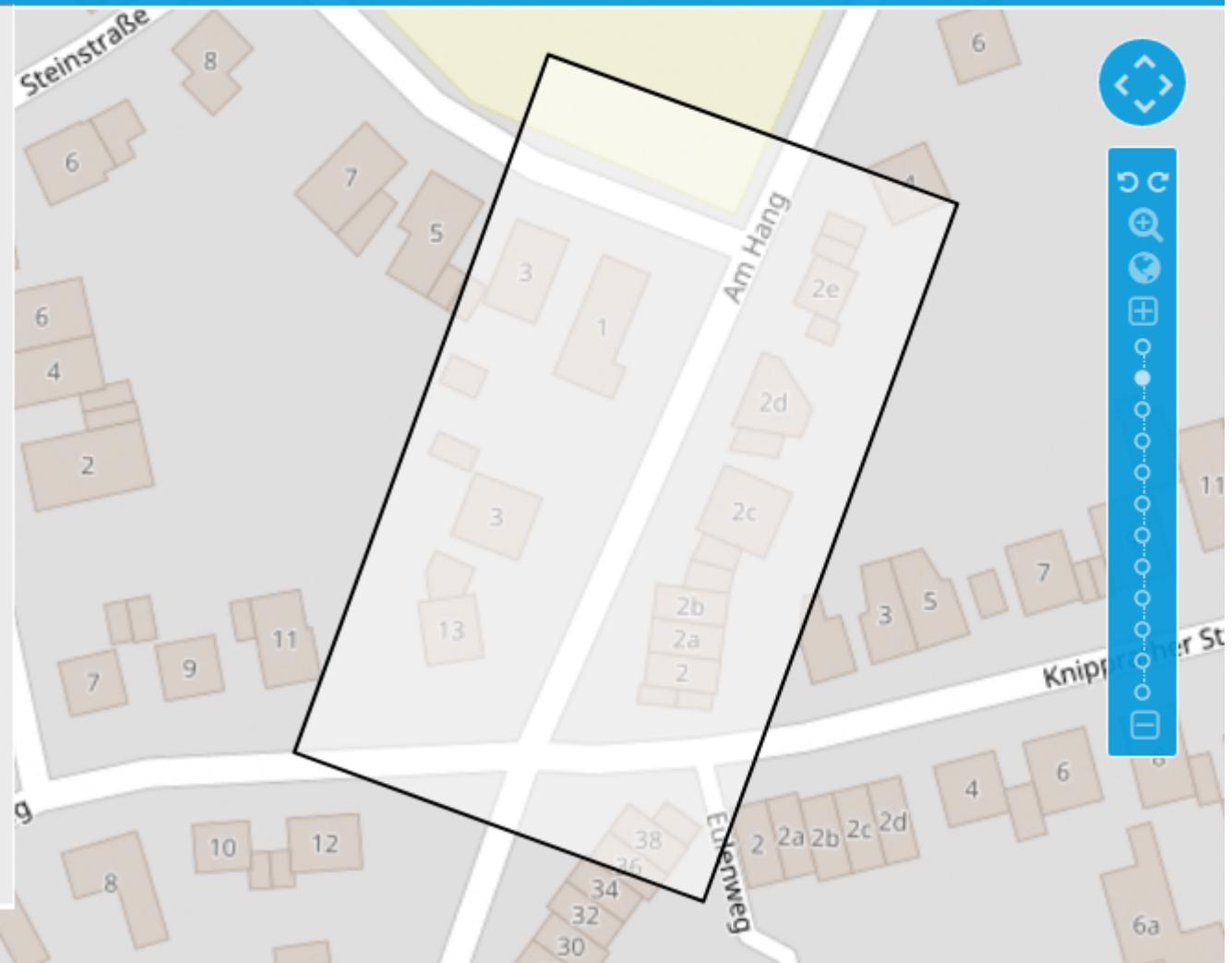


Drehung

0290

 Legende drucken[Drucken](#)[Abbrechen](#)

50m



X: - y: -

ETRS89 / UTM zone 32N

1000

© Geodatenmanagement Stadt Monheim am Rhein



Der Bürgermeister
nicht amtlicher Auszug aus dem Geodatenportal

Geobasisdaten der Stadt Monheim am Rhein, des Kreises Mettmann und des Landes NRW © Geobasis NRW sowie Geodaten aus OpenStreetMap © OSM-Mitwirkende. Für Geodaten anderer Quellen gelten die Nutzungs- und Lizenzbedingungen der jeweils zugrundeliegenden Dienste.

Maßstab:
1 : 500

Datum:
21.07.2017

MONHEIM AM RHEIN

Luftbilder
luftbilder

Containerstandorte

Altkleider
Glas

0 25m

5662642.04
5662513.75
5662513.75
5662513.75

Ihr Ansprechpartner:
Thomas Nüchter
Stadt Monheim am Rhein
Bereich Stadtplanung und Bauaufsicht
Geodatenmanagement

Rathausplatz 2
40789 Monheim am Rhein
Phone: 02173 951608
tnuechter@monheim.de
www.geoportal.monheim.de

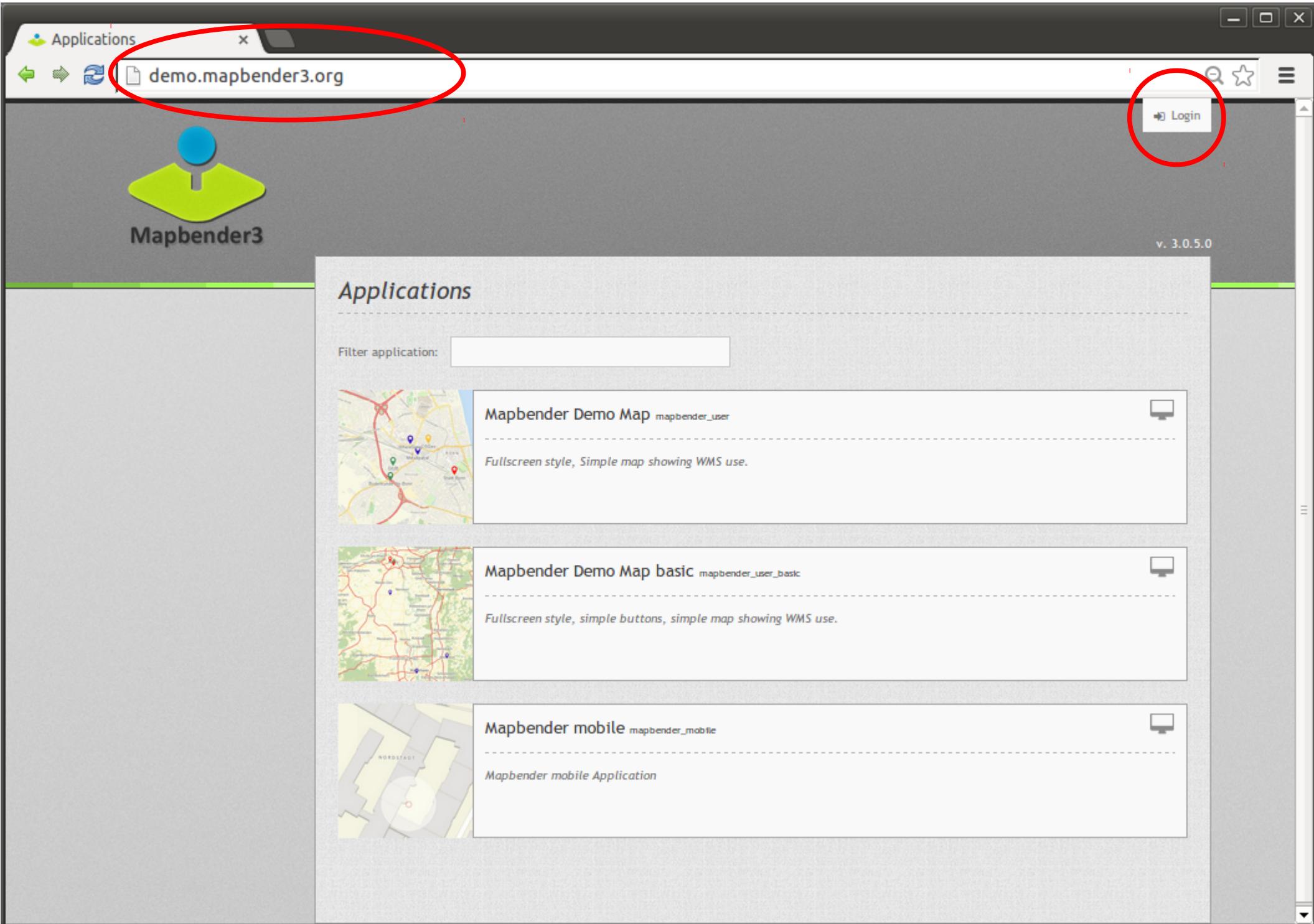
Der Auszug ist gesetzlich geschützt. Eine Vervielfältigung, Umgestaltung, Veröffentlichung oder Weitergabe an Dritte ist nur mit Zustimmung des Herausgebers zulässig. Weitere Informationen zur Nutzung der Geodaten finden Sie unter geoportal.monheim.de.





Set up your own application





Applications

demo.mapbender3.org/manager/applications

Logged in as: root

v. 3.0.5.0

Mapbender3

Applications

- New application
- Export
- Import

Sources

- Add source

User control

- Users
- New user

Groups

- New group

ACLs

Applications

Filter application:

Mapbender Demo Map mapbender_user

Fullscreen style, Simple map showing WMS use.

Mapbender Demo Map basic mapbender_user_basic

Fullscreen style, simple buttons, simple map showing WMS use.

Mapbender mobile mapbender_mobile

Mapbender mobile Application

mapbender_mobile.yml YML mapbender_mobile.yml

+    



New Application

Base data

Security

Template*

Fullscreen

Title*

demo

URL title*

demo

Screenshot*

Select file:

No file selected

Description

Mapbender3 demo

Create a new application by providing basic information and then use the edit mode to add elements and layers.

Create

Cancel





Mapbender3

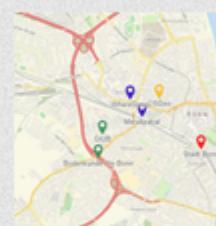
v. 3.0.5.0

Applications

- ▶ New application
- ▶ Export
- ▶ Import
- ▶ Sources
- ▶ Add source
- ▶ User control
- ▶ Users
 - ▶ New user
- ▶ Groups
 - ▶ New group
- ▶ ACLs

Applications

Filter application:



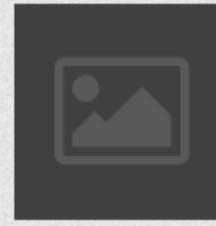
Mapbender Demo Map mapbender_user

Fullscreen style, Simple map showing WMS use.

Mapbender Demo Map basic mapbender_user_basic

Fullscreen style, simple buttons, simple map showing WMS use.

Mapbender mobile mapbender_mobile

Mapbender mobile Application

demo demo

Mapbender3 demo

demo

demo.mapbender3.org/manager/application/demo/edit

Logged in as: root

v. 3.0.5.0

The screenshot shows the Mapbender3 application manager interface. On the left, a sidebar contains a navigation tree with sections like Applications, Sources, User control, and Groups. The main area is titled "demo" and contains tabs for Base data, Layouts (which is selected), Layersets, CSS, and Security. Below these tabs is a monitor icon and the text "Template: Fullscreen". The main content area is divided into four sections: Toolbar, Sidepane, Content, and Footer. Each section has a "Title" input field and a "Type" dropdown menu with icons for text, image, and list. A tooltip "Add a new element" with a cursor icon points to the "+" button in the Content section's Type dropdown. The bottom status bar shows the URL "demo.mapbender3.org/manager/application/demo/element/select?reg".

Applications

- New application
- Export
- Import

Sources

- Add source

User control

- Users
- New user

Groups

- New group

ACLs

demo

Base data Layouts Layersets CSS Security

Template: Fullscreen

Toolbar

Title Type +

No element added

Sidepane

Title Type +

No element added

Content

Title Type +

No element added

Footer

Title Type +

No element added

Add a new element

demo.mapbender3.org/manager/application/demo/element/select?reg

demo

demo.mapbender3.org/manager/application/demo/edit

Logged in as root

v 3.0.5.0

Mapbender3

- Applications
 - New application
 - Export
 - Import
- Sources
 - Add source
- User control
 - Users
 - New user
 - Groups
 - New group
 - ACLs

Add element -

Layer tree
Tree of map's layers

Legend
The legend shows the legend of the map's layers

Line/Area Ruler
Ruler to draw a line/area and display length/area in a dialog

Map
MapQuery/OpenLayers based map

Navigation
The Navigation Toolbar element provides a floating control to pan and zoom, similar to the OpenLayers PanZoomBar control. This element though is easier to use when custom styling is needed.

Overview
Renders a small overview map

POI

Choose Map Element

Cancel

Title

Type

No element added

Template: Fullscreen

demo.mapbender3.org/manager/application/demo/element/new?class=Mapbender%5CcoreBundle%5CElement%5Cmap®ion=content



- Applications
 - New application
 - Export
 - Import
- Sources
 - Add source
- User control
 - Users
 - New user
 - Groups
 - New group
 - ACLs

Add element - Map

Title* Layersets* DPI* SRS* Map units*

Max. extent

min x* min y* max x* max y*

Start extent

min x* min y* max x* max y* Scales (csv)* Max. resolution* [Back](#)[Ok](#)[Cancel](#)

Title

Type

No element added



demo

[Base data](#) [Layouts](#) [Layersets](#) [CSS](#) [Security](#)

Template: Fullscreen

Toolbar

Title Type +

No element added

Sidepane

Title Type +

No element added



Content

Title Type +

Map Map

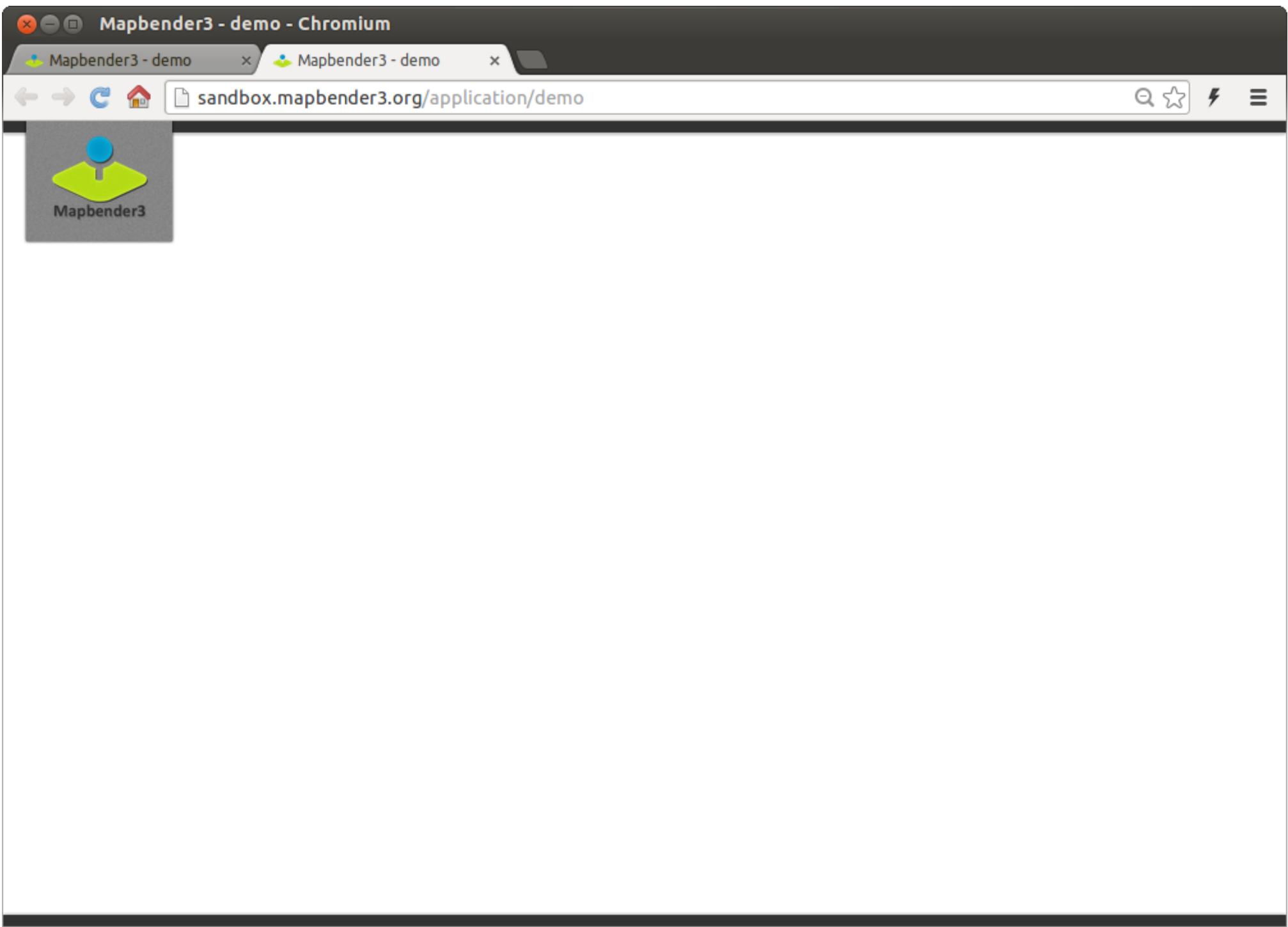


Footer

Title Type +

No element added





Add source

demo.mapbender3.org/manager/repository/new

Logged in as: root

Syncing a f https://hel

v. 3.0.5.0

 Mapbender3

Add source

OGC WMS

only valid

Service URL
http://wms.wherogroup.com/cgi-bin/germany_workshop.xml?VERSION=1.1.1&REQUEST=GetCapabilities&SERVICE=WMS

Username

Password

Load Cancel

Applications

- New application
- Export
- Import

Sources

- Add source**

User control

- Users
- New user
- Groups
- New group
- ACLs

Sources

demo.mapbender3.org/manager/repository

Logged in as: root

v. 3.0.5.0

Mapbender3

Applications

- New application
- Export
- Import

Sources

- Add source

User control

- Users
- New user
- Groups
- New group
- ACLs

Sources

Filter source

mapbender_users

OSM

osm_overview

osm_2

Germany

+

! ! ! !

WMS WMS WMS WMS

Map Refresh X



Mapbender3

v. 3.0.5.0

- ▶ Applications
 - ▶ New application
 - ▶ Export
 - ▶ Import
- ▶ Sources
 - ▶ Add source
- ▶ User control
 - ▶ Users
 - ▶ New user
 - ▶ Groups
 - ▶ New group
 - ▶ ACLs

WMS Germany

Metadata

Contact

Details

Layers

Back

Title:

Germany

Name:

OGC:WMS

Version:

1.1.1

Origin URL:http://wms.wherogroup.com/cgi-bin/germany_workshop.xml?VERSION=1.1.1&REQUEST=GetCapabilities&SERVICE=WMS**Abstract:**

Germany

Online Resource:http://wms.wherogroup.com/cgi-bin/germany_workshop.xml?**Exception Formats:**

application/vnd.ogc.se_xml , application/vnd.ogc.se_inimage , application/vnd.ogc.se_blank

Fees:

none

Access Constraints:

none

demo

demo.mapbender3.org/manager/application/demo/edit

Logged in as: root

v. 3.0.5.0

Mapbender3

Applications

- New application
- Export
- Import

Sources

- Add source

User control

- Users
- New user
- Groups
- New group
- ACLs

demo

Base data Layouts Layersets CSS Security

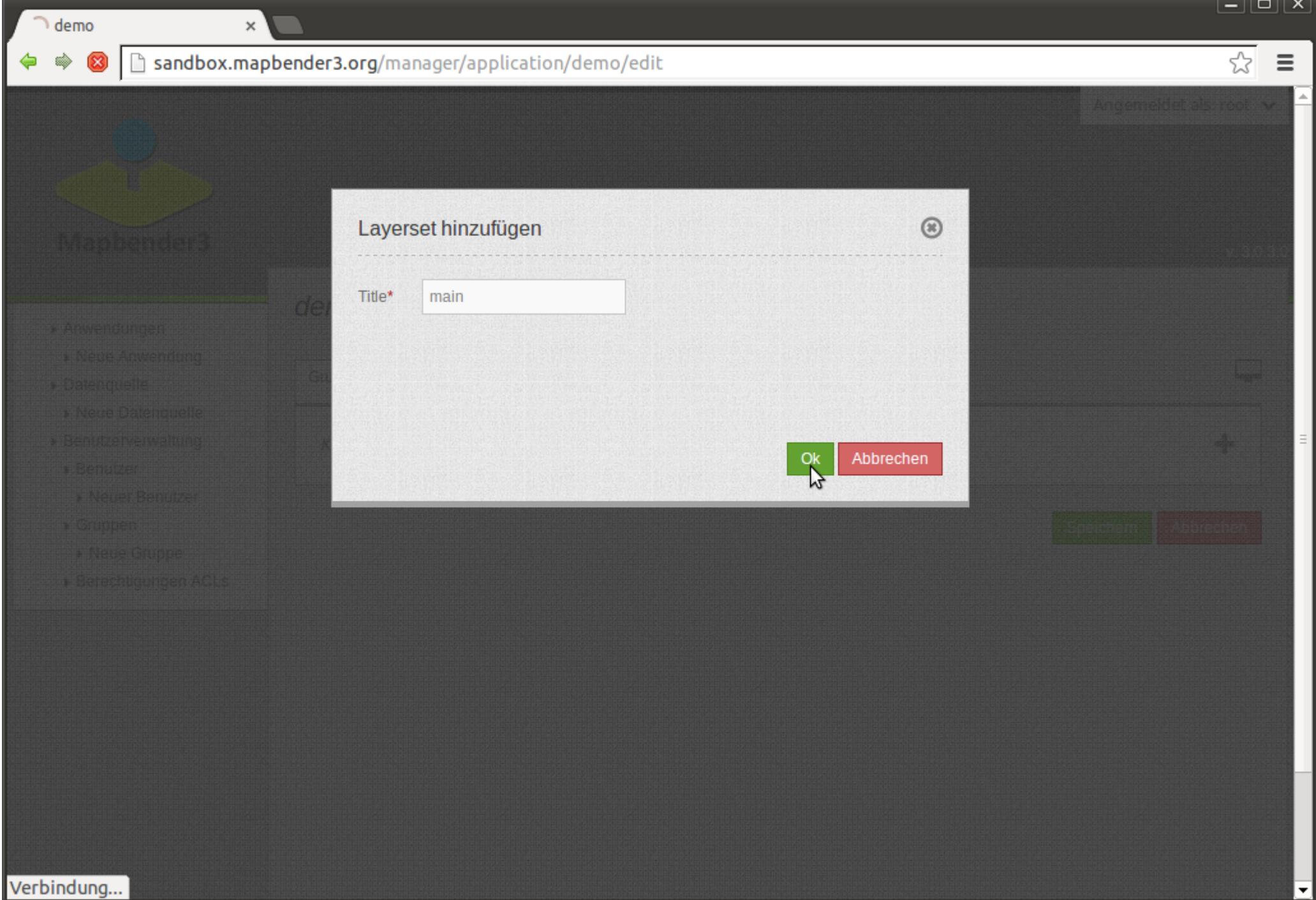
No layer added

+

Save Cancel

demo.mapbender3.org/manager/application/.../new

Mapbender – Astrid Emde WhereGroup FOSS4G 2018 Dar es Salaam



demo

demo.mapbender3.org/manager/application/demo/edit

Logged in as: root

v. 3.0.9.0

Mapbender3

- Applications
 - New application
- Export
- Import
- Sources
 - Add source
- User control
 - Users
 - New user
 - Groups
 - New group
 - ACLs

Select source

Filter source

WMS ! mapbender_users

WMS ! osm

WMS ! osm_overview

WMS ! osm_2

WMS ☆ Germany

Germany

Choose Germany

Cancel

Save Cancel

demo.mapbender3.org/manager/application/demo/layerset/6/source/6/add

- ▶ Applications
 - ▶ New application
- ▶ Export
- ▶ Import
- ▶ Sources
 - ▶ Add source
- ▶ User control
 - ▶ Users
 - ▶ New user
 - ▶ Groups
 - ▶ New group
 - ▶ ACLs

WMS instance (6/10) - Germany

Origin URL <http://wms.wherogroup.com/cgi-bin/g...>

Save

Cancel

Visible

Vendor specific

BaseSource

Proxy

Transparency

Tiled

Format*

image/png

Infoformat

text/html

Exceptionformat

application/vnd.ogc.se_xml

Opacity*

100

Tile buffer

0

BBOX factor

1.25

Title	Minsc	Maxsc	active	select		info		toggle		reorder	
				allow	on	allow	on	allow	on	allow	on
Germany	1	9.999994€	<input checked="" type="checkbox"/>								
topography	1	9.999994€	<input checked="" type="checkbox"/>								
border	750000	12499993	<input checked="" type="checkbox"/>								

demo

sandbox.mapbender3.org/manager/application/demo/edit#layersets

Angemeldet als: root

Mapbender3 v. 3.0.3.0

Anwendungen

- Neue Anwendung

Datenquelle

- Neue Datenquelle

Benutzerverwaltung

- Benutzer
 - Neuer Benutzer
- Gruppen
 - Neue Gruppe
- Berechtigungen ACLs

demo

Grunddaten Layouts Layerset Sicherheit

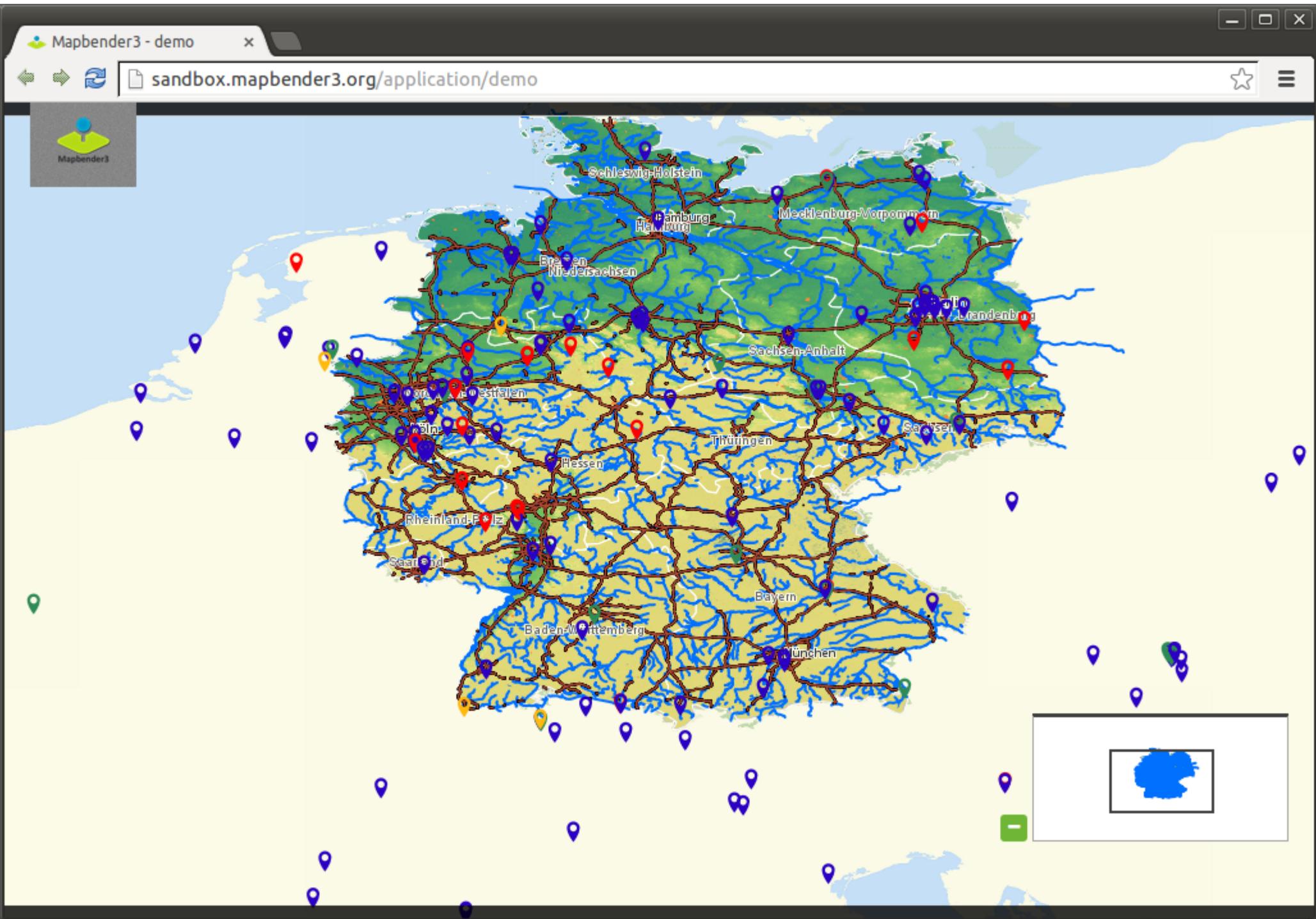
Layerset Filter +

main

Id	Titel	Typ	+	edit	x
2	Mapbender User	WMS			
3	Germany	WMS			
1	OpenStreetMap (OSM) Demo WhereGroup	WMS			

overview

Id	Titel	Typ	+	edit	x
3	Germany	WMS			



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New User

demo.mapbender3.org/manager/user/new

Logged in as: root

Mapbender3 v. 3.0.5.0

New User

Base data Profile Groups Security

Username*
Astrid Emde

E-Mail*
astrid.emde@wheregroup.com

Choose password:

Confirm password:

Create Cancel

Applications
New application
Export
Import
Sources
Add source
User control
Users
New user
Groups
New group
ACLs



Mapbender3

- ▶ Applications
 - ▶ New application
 - ▶ Export
 - ▶ Import
- ▶ Sources
 - ▶ Add source
- ▶ User control
 - ▶ Users
 - ▶ New user
 - ▶ Groups
 - ▶ New group
 - ▶ ACLs

Edit User

[Base data](#) [Profile](#) [Groups](#) [Security](#)

First name

Astrid

Last name

Emde

Notes

Mapbender Developer Team

Phone

02289090380

Organization

Mapbender

Role

Owner

Street

|

Zip code

|

City

Bonn

Logged in as: root



Mapbender3

v. 3.0.5.0

New Group

[Base data](#) [Users](#)

Name*

Workshop

Description

Workshop Group

[Create](#)[Cancel](#)

New Group

demo.mapbender3.org/manager/group/new

Logged in as: root

v. 3.0.5.0

Mapbender3

Applications

- New application
- Export
- Import

Sources

- Add source

User control

- Users
- New user

Groups

- New group

ACLs

New Group

Base data Users

Filter

Name 1 users of 2 selected

root

Astrid Emde

Create Cancel

The screenshot shows the Mapbender3 web application interface. On the left, there's a sidebar with navigation links for Applications, Sources, User control, Groups, and ACLs. The 'User control' section is currently active, showing options for Users and Groups. A sub-menu for 'Groups' is open, showing 'New group'. The main content area is titled 'New Group' and contains tabs for 'Base data' and 'Users'. A 'Filter' input field is present. Below it, a table-like list shows users with their names and profile icons. The user 'Astrid Emde' has a checked checkbox next to it, indicating it's selected. At the bottom right of the dialog are 'Create' and 'Cancel' buttons.

demo

demo.mapbender3.org/manager/application/demo/edit

Logged in as: root

v. 3.0.5.0

Mapbender3

Applications

- New application
- Export
- Import

Sources

- Add source

User control

- Users
- New user
- Groups
- New group
- ACLs

demo

Base data Layouts Layersets CSS Security

activated

Filter

		view	edit	delete	operator	master	owner	
	Astrid Emde	<button>view</button>	<button>edit</button>	<button>delete</button>	operator	master	owner	
	root	<button>view</button>	<button>edit</button>	<button>delete</button>	operator	master	owner	
	IS_AUTHENTICATED_ANONYMOUSLY	<button>view</button>	<button>edit</button>	<button>delete</button>	operator	master	owner	

Add users and groups

Save Cancel

demo.mapbender3.org/manager/acl/overview

		view	edit	delete	operator	master	owner	
	Astrid Emde	<button>view</button>	<button>edit</button>	<button>delete</button>	operator	master	owner	
	root	<button>view</button>	<button>edit</button>	<button>delete</button>	operator	master	owner	
	IS_AUTHENTICATED_ANONYMOUSLY	<button>view</button>	<button>edit</button>	<button>delete</button>	operator	master	owner	

Mapbender3 - Mapbender x

demo.mapbender3.org/application/mapbender_user

Layertree Feature Info Print Image Export Legend WMS Loader GPS Line Ruler Area Ruler About POI

Mapbender3

Layer tree sidebar:

- Mapbender Users
- OSM Demo

Map view showing Bonn, Germany, with a modal dialog titled "Image export".

Image export dialog content:

Choose Export Format

PNG

JPG

Export Cancel

Map details:

- Rivers: Rhine, Sieg
- Major Streets: Schlesierstraße, Nordfriedhof, Körnstraße, Lievelingsweg, Körn, Nordstadt, WhereGroup, OSGe, Metaspacial, UB, Weststadt, Uni Bonn, Poppelsdorf, Im Wiggert, Trierer Straße, Kaiserstraße, Adenauerallee, Südstadt, Stadt Bonn, Königswinterer Straße, Limperich, Küdinghoven, Ramersdorf, Sankt Augustin, Bornheim, Düsseldorf.
- Landmarks: LVR-Klinik, Schwarzhaindorf, Vilich, Neu Vilich, Pützchen, terrestris GmbH & Co. KG.

Scale bar: 25000

Coordinates: ETRS89 / UTM zone 32N

Attribution: © OpenStreetMap contributors powered by Mapbender

Mapbender – Astrid Emde WhereGroup FOSS4G 2018 Dar es Salaam



Layertree

Feature Info

Print

Image Export

Legend

WMS Loader

GPS

Line Ruler

Area Ruler

About

POI



Mapbender3

Share POI 2.58777,48.84095 @ 1:2500

Hello FOSS4G Europe 2017

Ok

Cancel



Redlining

X: - y: -

WGS 84

2500

© OpenStreetMap contributors

powered by Mapbender

La Halle

Mapbender – Astrid Emde WhereGroup FOSS4G 2018 Dar es Salaam



Sicher | https://demo.mapbender3.org/application/foss4g_europe_2017?poi%5Bpoint%5D=2.58738%2C48.84092&poi%5Bscale%5D=5000&poi%5Bsrs%5D=EPSG%3A4326&poi%5Blabel%5D=FOSS4G+Europe+2017

Layertree

- Mapbender Users
- OSM Demo

Redlining

X: 2.5932202 y: 48.8443821

WGS 84

5000

© OpenStreetMap contributors

powered by Mapbender



Pick on klick or Zoom to coordinate

Erfassung
Themen
Suche
Skizze
Karte zentrieren

Koordinatensystem der Suche
ETRS89 - UTM Zone 32N (25832)

Koordinaten im Basis-Koordinatensystem der Karte

Erfassung
Themen
Suche
Skizze
Karte zentrieren
Koordinate auslesen

Koordinatensystem der Ausgabe von Koordinaten
ETRS89 - UTM Zone 32N (25832)

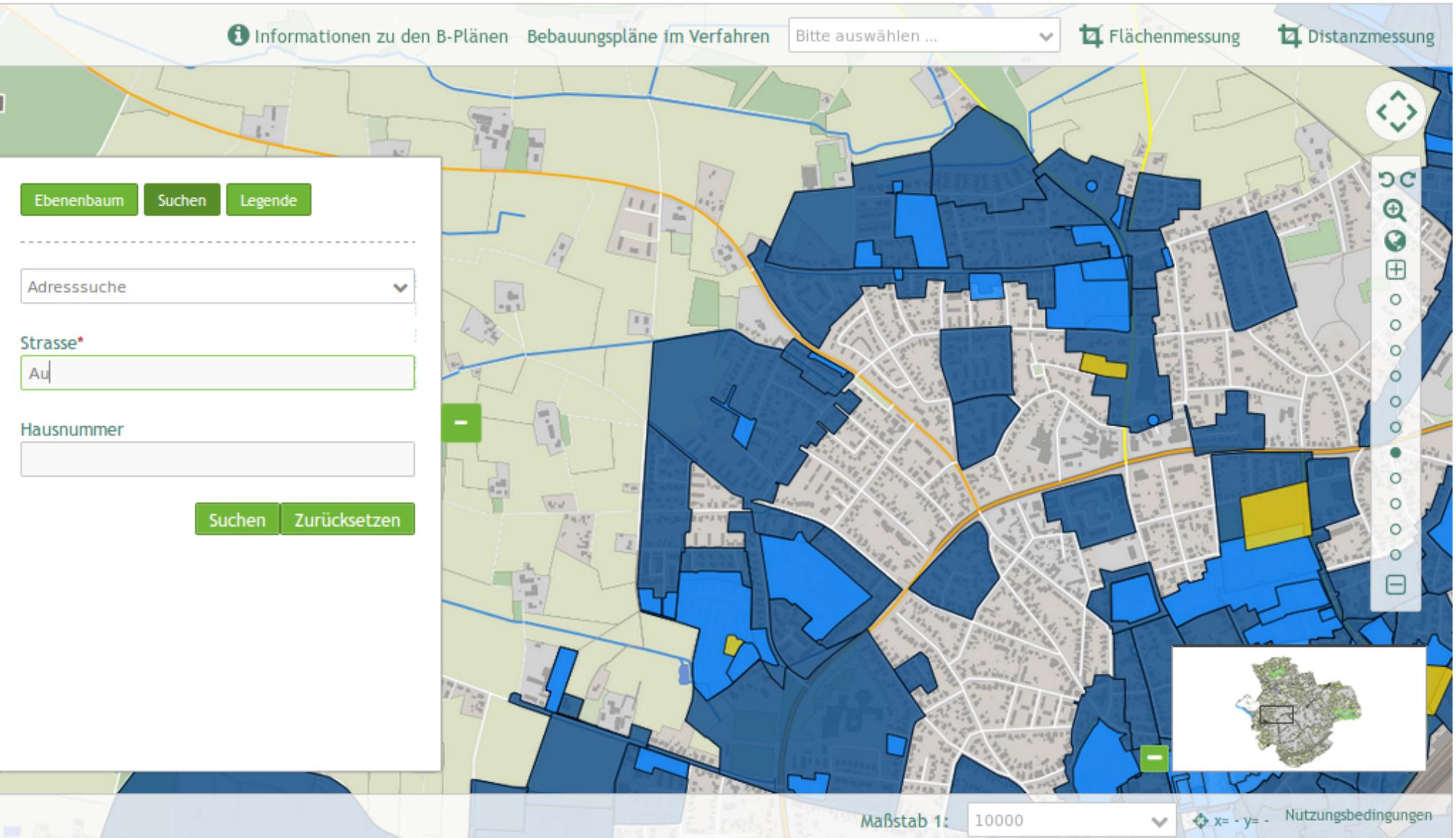
Koordinaten im Basis-Koordinatensystem der Karte





Bebauungspläne online

L(i)ebenswertes Gütersloh





Bebauungspläne online

L(i)ebenswertes Gütersloh

i Informationen zu den B-Plänen Bebauungspläne im Verfahren

Bitte auswählen ...

Flächenmessung

Distanzmessung

Ebenenbaum Suchen Legende

Adresssuche

Strasse*

Auf dem

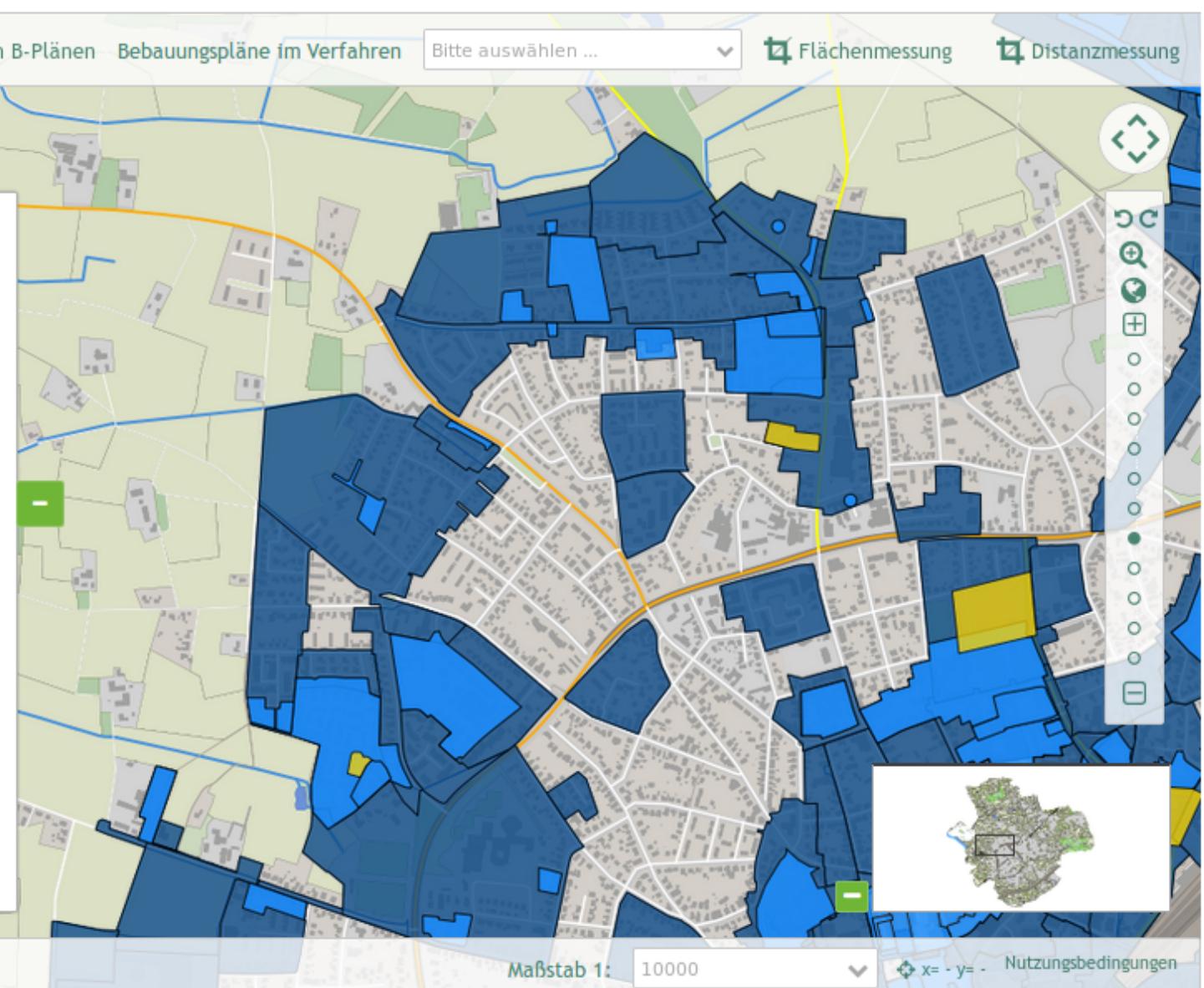
Auf dem Felde

Auf dem Knüll

Auf dem Siekkamp

Auf dem Stempel

Suchen Zurücksetzen



Maßstab 1:

10000

x= -

y= -

Nutzungsbedingungen





Bebauungspläne online

L(i)ebenswertes Gütersloh

i Informationen zu den B-Plänen

Bebauungspläne im Verfahren

Bitte auswählen ...

Flächenmessung

Distanzmessung

Ebenenbaum Suchen Legende

Adresssuche

Strasse*

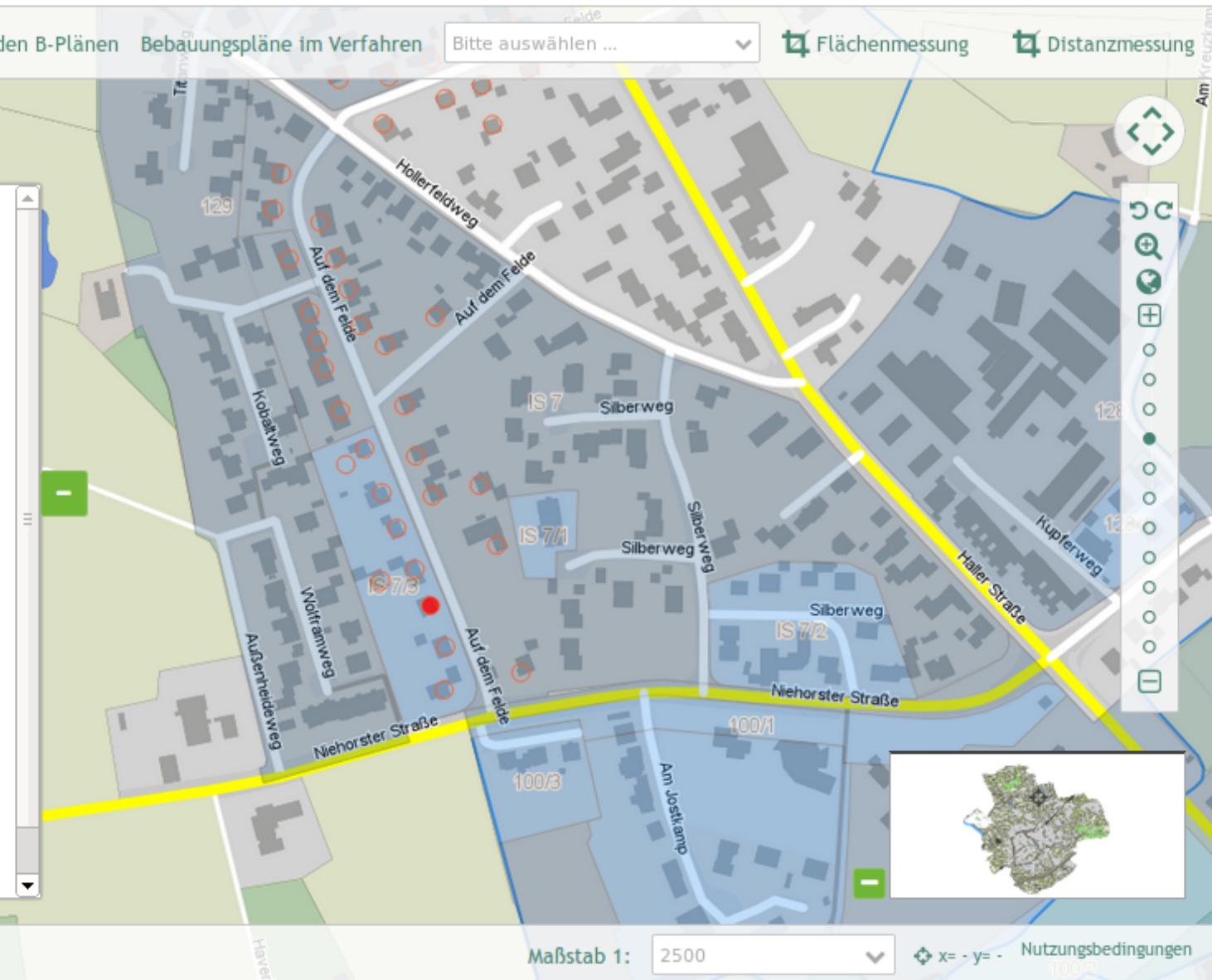
Auf dem Felde

Hausnummer

Ergebnisse: 38

Straße Hausnummer

- Auf dem Felde 1
- Auf dem Felde 2
- Auf dem Felde 3
- Auf dem Felde 5**
- Auf dem Felde 7 a
- Auf dem Felde 7
- Auf dem Felde 8
- Auf dem Felde 9



Maßstab 1:

2500

x= - y= -

Nutzungsbedingungen
100%



Bebauungspläne online

L(i)ebenswertes Gütersloh

 Informationen zu den B-Plänen Bebauungspläne im Verfahren

Bitte auswählen ...

 Flächenmessung Distanzmessung[Ebenenbaum](#) [Suchen](#) [Legende](#)

Adresssuche

Strasse*

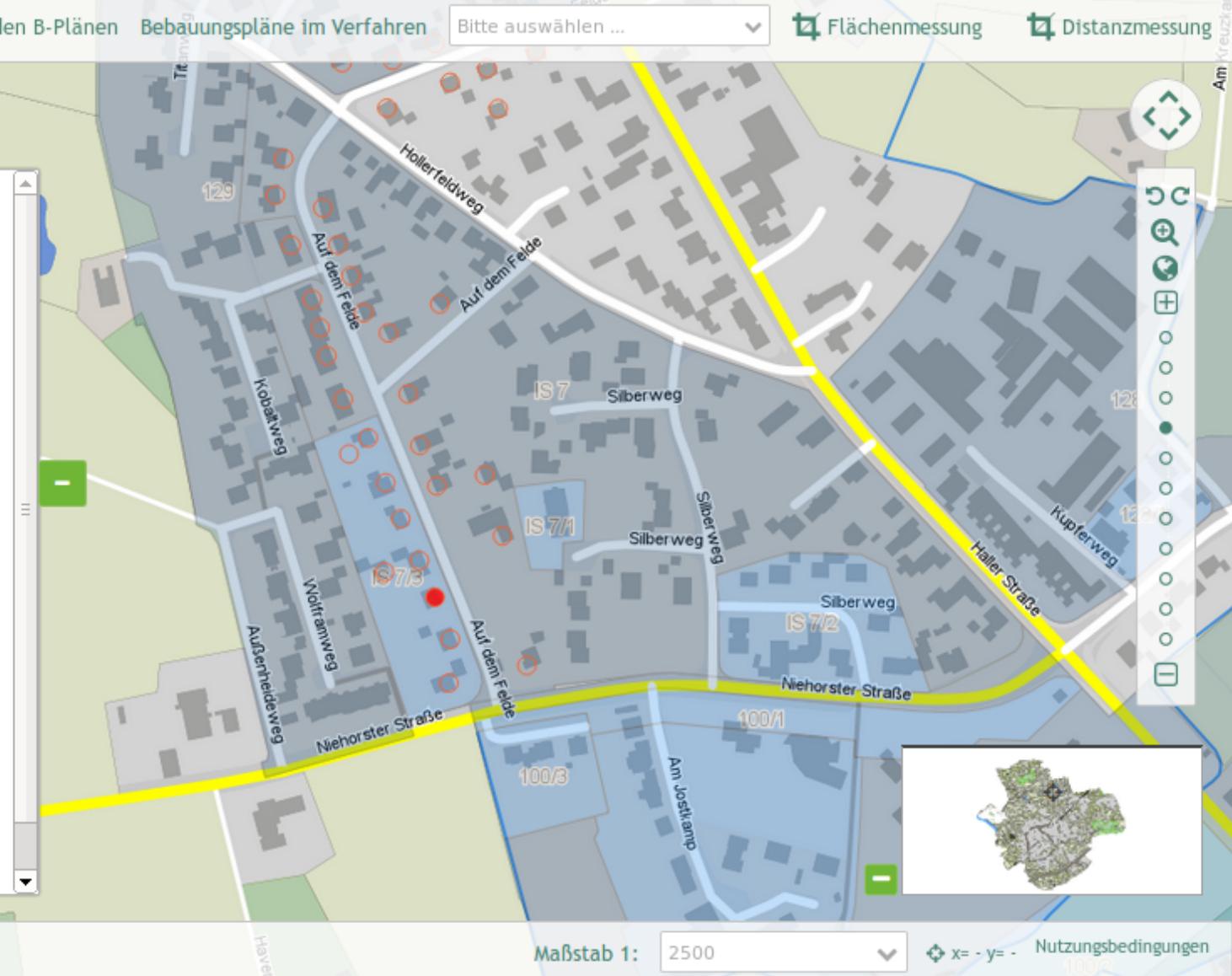
Auf dem Felde

Hausnummer

Ergebnisse: 38

Straße **Hausnummer**

- Auf dem Felde 1
- Auf dem Felde 2
- Auf dem Felde 3
- Auf dem Felde 5**
- Auf dem Felde 7 a
- Auf dem Felde 7
- Auf dem Felde 8
- Auf dem Felde 9



Maßstab 1: 2500

x= - y= -

Nutzungsbedingungen





Configuration SearchRouter

```
class:  
Mapbender\CoreBundle\Component\SQLSearchEngine  
class_options:  
    connection: search_db  
    relation: ortsschaften  
    attributes:  
        - gid  
        - ortssname  
    geometry_attribute: geom  
form:  
    ortssname:  
        type: text  
        options:  
            required: true  
        compare: exact  
results:  
    view: table  
    count: true  
    headers:  
        gid: ID  
        ortssname: Name  
callback:  
    event: click  
...  
...
```

Suchen

Route*

Orte

Ortssname*

Bonn

ID	Name
40714919	Bonn

Search Reset Close



Geoportal

https://www.o-p-r.info/mb3-opr/app.php/application/geoportal

Solr Search

Landkreis DPR.

Geoportal

Rhinstraße
Rhinpassage
Berliner Straße
Damaschkeweg
Rheinsberg
Damaschkeweg
Damaschkeweg
Rhinhöher Weg
Rhinhöher Weg
Rhinhöher Weg
Rhinhöher Weg
Lindenallee
An den Rhingärten
Rhinhöher Weg

Themenbaum Legende Suche

Bebauungspläne Zurücksetzen

Ergebnisse: 233

zurück vor Seite 1/12

450 Rheinsberg
290 Rheinsberg 450 Rheinsberg Damaschkeweg / BP
857 Rüthnick
883 Wittstock/Dosse
884 Wittstock/Dosse
886 Wusterhausen/Dosse Brunn
893 Neuruppin
27 Breddin
725 Breddin
900 Rheinsberg
897 Heiligengrabe
899 Neuruppin
901 Neustadt (Dosse)
772 Kyritz

Investition in Ihre Zukunft!
EUROPÄISCHE UNION
Europäischer Fonds für
Regionale Entwicklung
www.efra.brandenburg.de

(c) Copyright GeoBasis-DE/LGB 2014 Maßstab 1: 2000 ETRS89 / UTM zone 33N Koordinatenanzeige x= - y= -

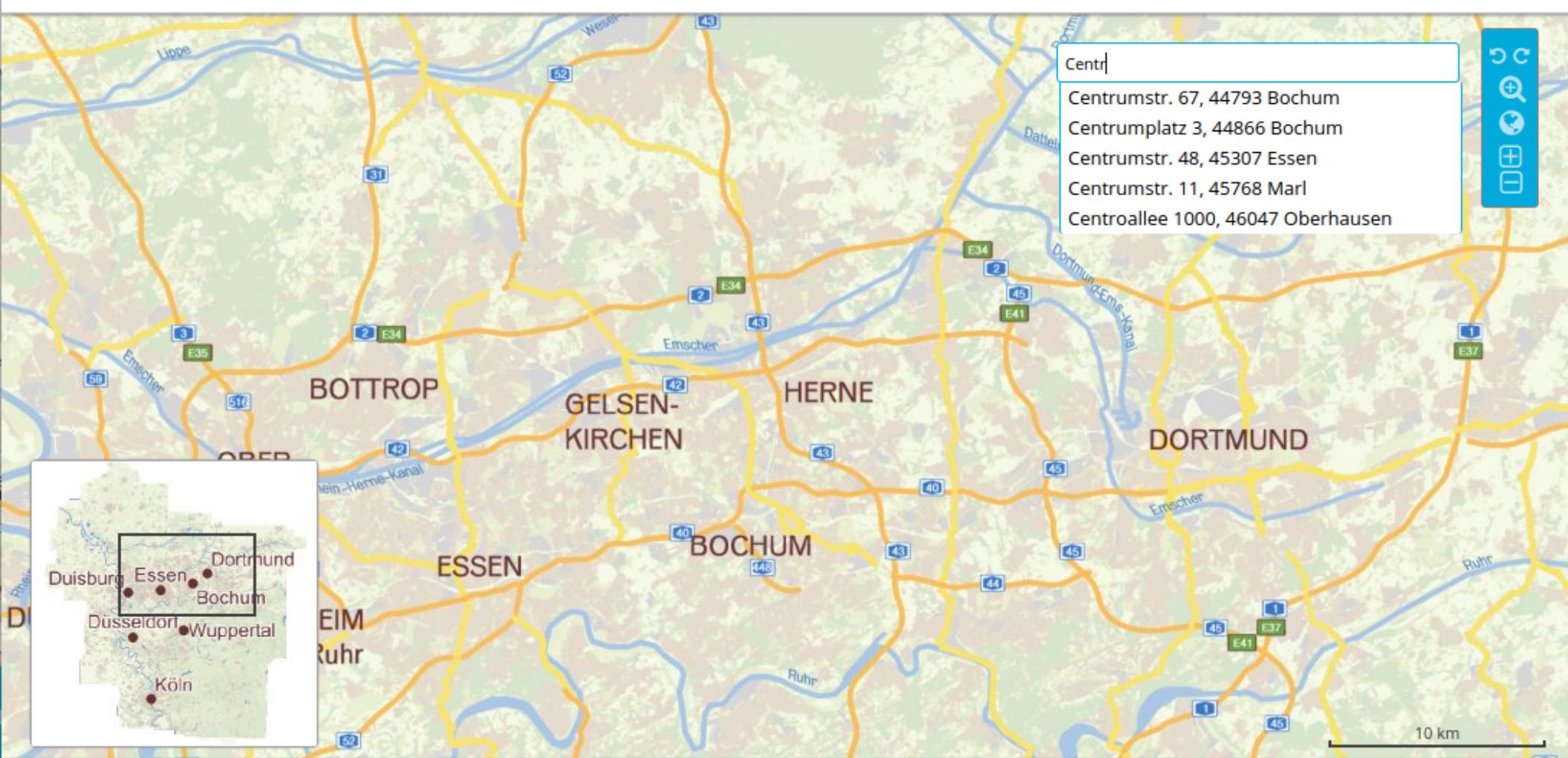


Solr Search



Stadtplan

Luftbilder



Aktualität Luftbilder 2011-2015

X: - y: - Maßstab: 1 : 250000

Impressum / Datenschutz

Lizenzbedingungen



Regionalverband Ruhr



Mapbender – Astrid Emde WhereGroup FOSS4G 2018 Dar es Salaam



m^{etropoleruhr} Basesource Switcher



Stadtplan

Luftbilder

2011 - 2016

1999 - 2009 (überwiegend 2009)

1999 - 2006 (überwiegend 2006)

1998 - 2003 (überwiegend 1999)

Basiskarte wech-

1983 - 1990 (überwiegend 1990)

1957 - 1980 (überwiegend 1969)

1963 - 1968 (überwiegend 1963)

1951 - 1980 (überwiegend 1952)

1934 - 1939 (überwiegend 1934)

1925 - 1930 (überwiegend 1926)



Aktualität Luftbilder 2011-2016

x: - y: -

Maßstab: 1 : 10000

Impressum / Datenschutz

Lizenzbedingungen



Regionalverband Ruhr



Mapbender – Astrid Emde WhereGroup FOSS4G 2018 Dar es Salaam



Geoportal Kreis Lippe

-
-
-
-

Kartenebenen

Legende

Information

Adresssuche

Detail-Information

Bebauungspläne und Satzungen

Plan-Nummer	01/13
Name	Piperweg-Lönsweg
Art	Bebauungsplan
Stadt/Gemeinde	Stadt Oerlinghausen
Gemarkung	Oerlinghausen
Datum der Rechtskraft	
Nummer der Änderung	0
Planzeichnung im Geoportal darstellen	Planzeichnung laden
Download der textlichen Festsetzungen als PDF	Textl. Festsetzung laden
Download: Planzeichnung als PDF	Planzeichnung als PDF

Die im GeoPortal dargestellten Bauleitpläne und anderen Satzungen nach dem Baugesetzbuch mit ihren weitergehenden Informationen (textliche Festsetzungen etc.) dienen lediglich einer ersten Information. Rechtlich verbindliche Informationen hierzu erhalten Sie ausschließlich bei der Stadt Oerlinghausen, n.n.b., Tel. 05202/99366-0.

1000 m

x = - y = -

Scale = 1 : 25K

ETRS89 / UTM zone 32N

115

Allgemeine Suche

Kartenanzeige

Weitere Geothemen

Geoportal Kreis Lippe



Map navigation controls:

- Topographic map layer icon
- Scale bar icon
- Legend icon
- Information icon
- Address search icon
- Zoom in (+)
- Zoom out (-)
- Orientation icon
- Search icon
- Print icon

Kartenebenen

Legende

Information

Adresssuche

200 m



Scale = 1 : 5000

ETRS89 / UTM zone 32N



Bebauungspläne online

L(i)ebenswertes Gütersloh

Informationen zu den B-Plänen Bebauungspläne im Verfahren

175 im Verfahren

Flächenmessung

Distanzmessung

Bitte auswählen ...

182 im Verfahren

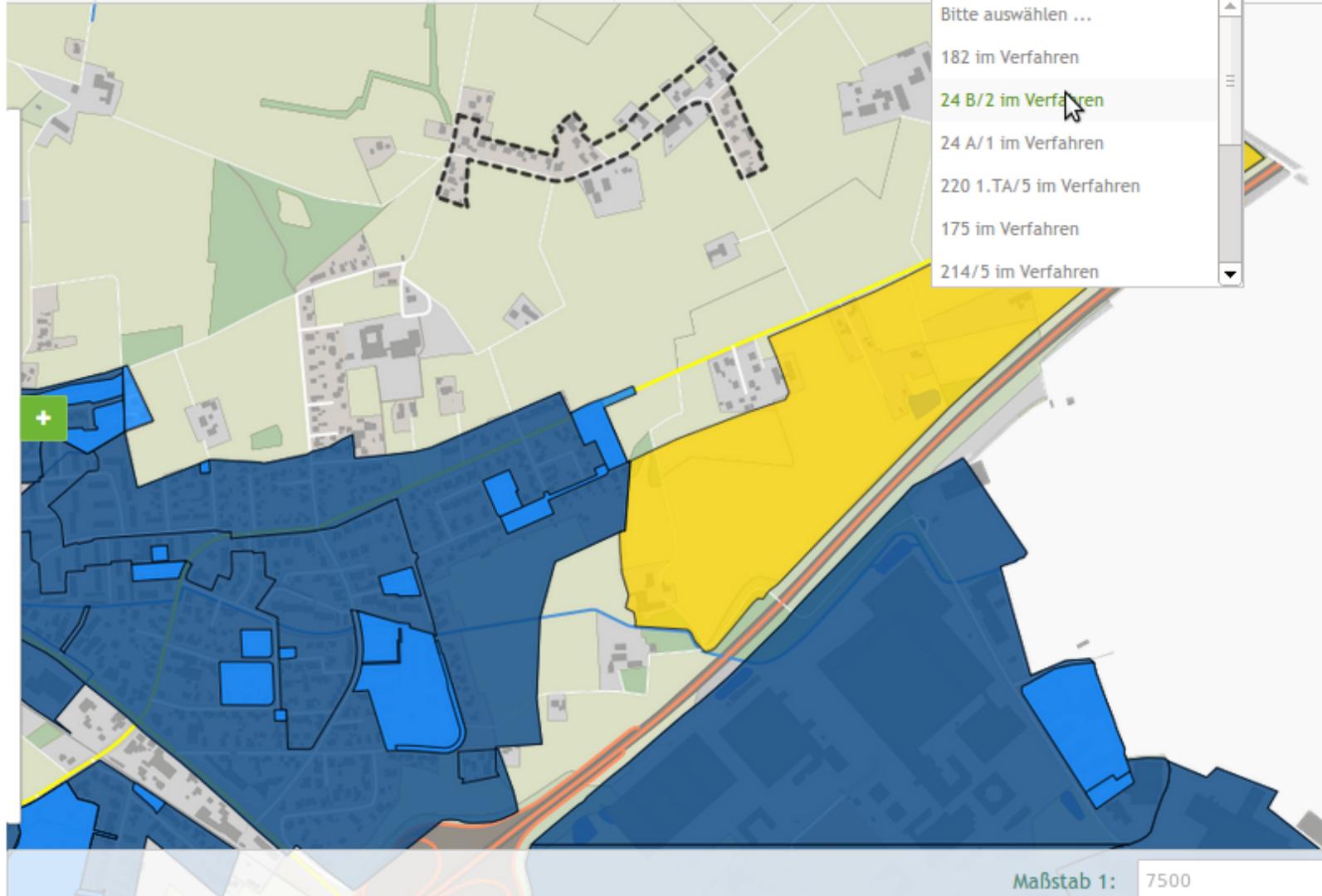
24 B/2 im Verfahren

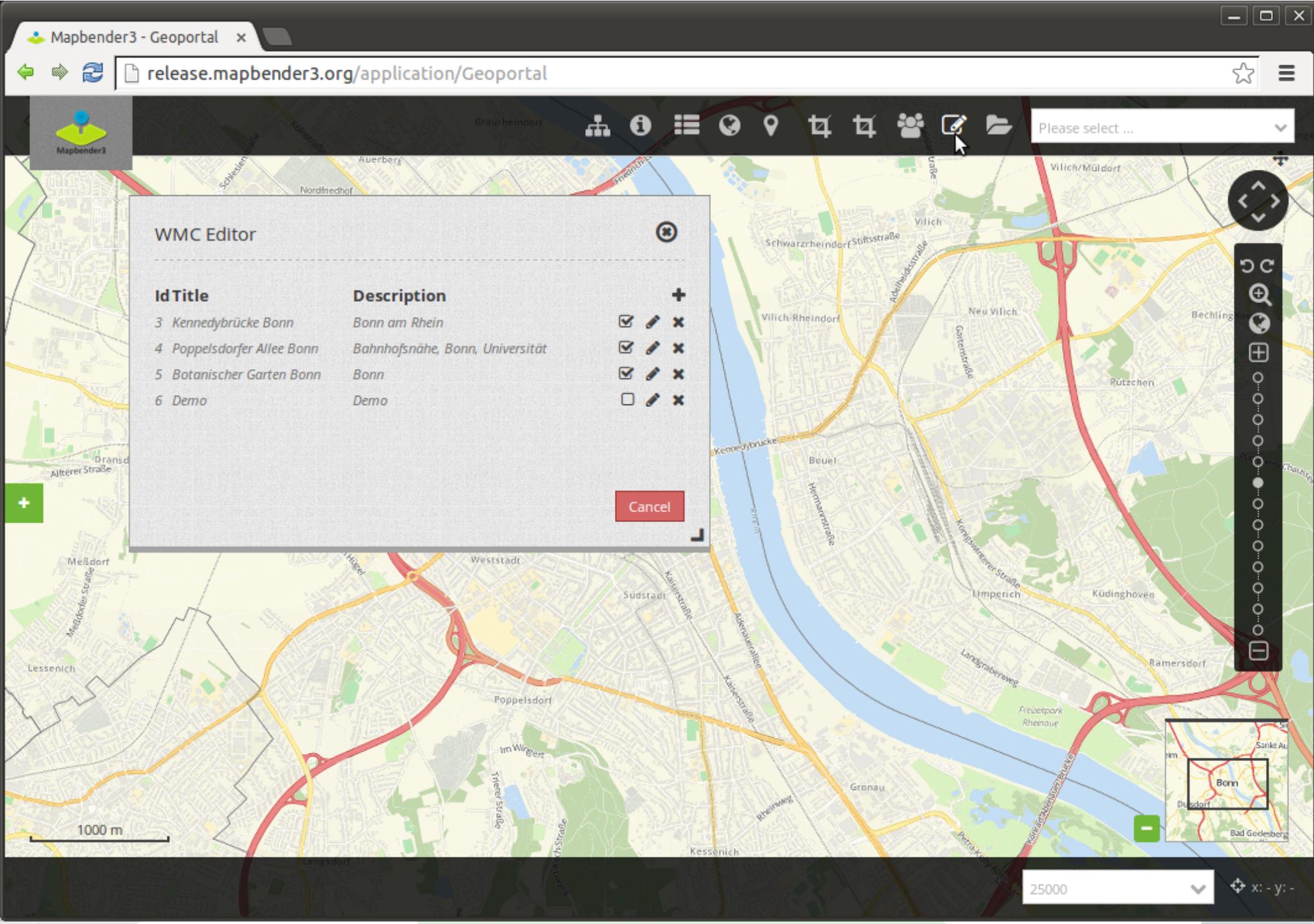
24 A/1 im Verfahren

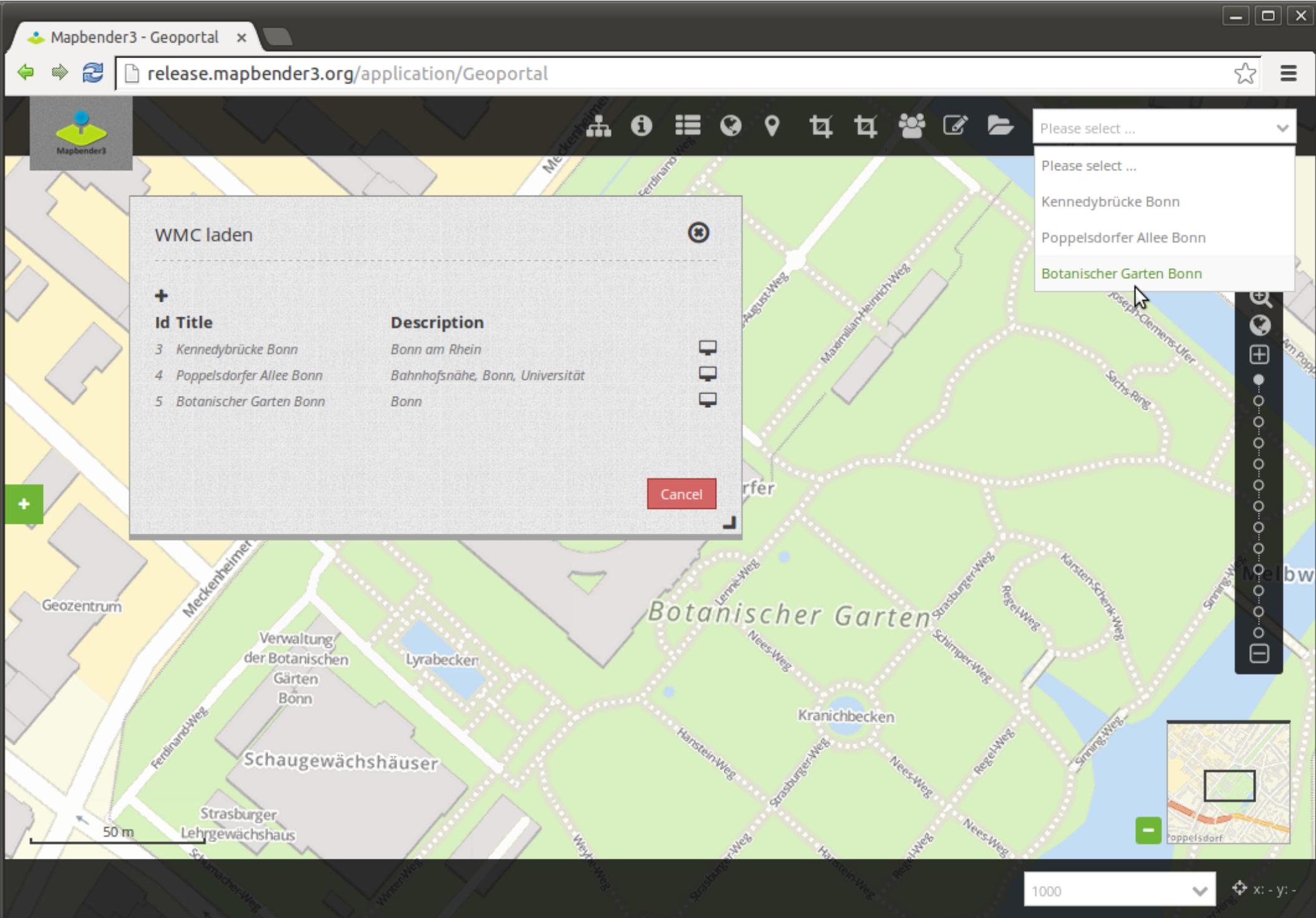
220 1.TA/5 im Verfahren

175 im Verfahren

214/5 im Verfahren









Stadtplan Troisdorf

Screenshot of the Stadtplan Troisdorf website (stadtplan.troisdorf.de) showing a map of Troisdorf and its surroundings.

The map displays the city boundaries of Troisdorf, major roads, and various neighborhoods. A blue line highlights a specific route or boundary. An inset map in the bottom right corner shows a detailed view of a residential area with a scale bar of 2 km. The website includes a sidebar with links to general information, culture, planning, environment, waste management, noise levels, and other local services.

Mapbender – Astrid Emde WhereGroup FOSS4G 2018 Dar es Salaam

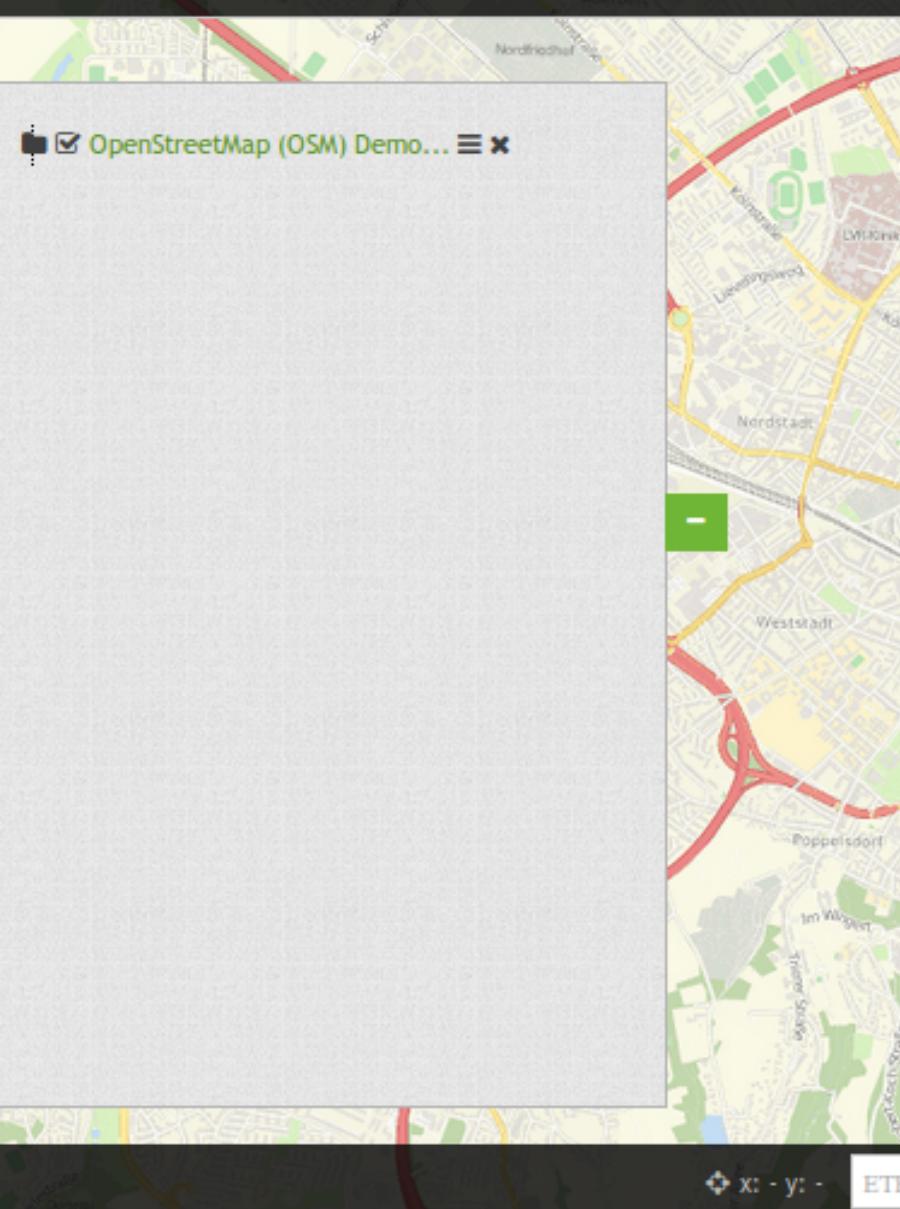


Mapbender3

Bischdorf

Grauemendorf

Geistlar



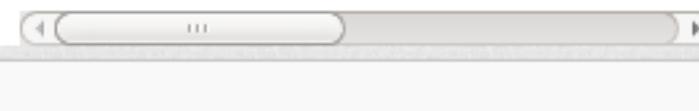
Add element - HTML

Title*

HTM_add_image

Content

```
1 <img src='http://mapbender3.org/sites/
```

Classes**Back****Ok****Cancel**

Geoportal Mapbender3 - Geoportal demo.mapbender3.org/app.php/application/Geoportal

Botanischer Garten Bonn

Geoportal

Mapbender3

Layer tree

Legend

Mapbender User

Mapbender User

Company

Administration

University

User

OpenStreetMap (OSM) []

WhereGroup

Help

Impress

Demo

Base data Layouts Layersets CSS Security

```
1 .toolBar {  
2     background-color: rgba(0, 29, 122, 0.8) !important;  
3 }  
  
4  
5 .toolPane {  
6     background-color: rgba(0, 29, 122, 0.8) !important;  
7 }  
  
8  
9 .pan{  
10    background-color: rgba(0, 93, 83, 0.9);  
11 }  
  
12  
13 .sidePane {  
14     overflow: visible;  
15     background-image: url("");
```

Save Cancel

Mapbender

This screenshot shows the Mapbender3 application interface. At the top, there are two tabs: 'Geoportal' and 'Mapbender3 - Geoportal'. The URL in the address bar is 'demo.mapbender3.org/app.php/application/Geoportal'. A search bar contains the text 'Botanischer Garten Bonn'. On the left, a sidebar has sections for 'Layer tree' and 'Legend'. Below these are links for 'Mapbender User' (repeated), 'Company', 'Administration', 'University', and 'User'. It also lists 'OpenStreetMap (OSM)' and 'WhereGroup'. At the bottom of the sidebar are links for 'Help' and 'Impress'. The main content area features a map of the Botanischer Garten Bonn area. To the right of the map is a 'Demo' panel containing a CSS editor. The CSS code defines styles for '.toolBar', '.toolPane', '.pan', and '.sidePane'. The '.toolBar' and '.toolPane' rules set a dark blue background color with an opacity of 0.8. The '.pan' rule sets a light blue background color with an opacity of 0.9. The '.sidePane' rule sets 'overflow: visible' and 'background-image: url("")'. The bottom right of the demo panel has 'Save' and 'Cancel' buttons. On the far right, there is a vertical toolbar with various icons for map navigation and settings.



Mobile Template





Editing data with the Digitizer

Baumkontrolle

Bäume

nur Objekte des aktuellen Kartenausschnitts anzeigen.

Search:

Nr.	Baum	Actions
304	304: TILIA 'GREENSPIRE'	
305	305: TILIA 'GREENSPIRE'	
307	307: TILIA 'GREENSPIRE'	
308	308: TILIA 'GREENSPIRE'	
309	309: TILIA 'GREENSPIRE'	
310	310: TILIA 'GREENSPIRE'	
311	311: TILIA 'GREENSPIRE'	
312	312: TILIA 'GREENSPIRE'	

1 bis 9 von 9

Suchen

Thema

Abfragen

Bäume

Kontrolle Pflege Stammdaten Krone Stamm Stammfuß

Baumart **TILIA 'GREENSPIRE' (STADT-LINDE)**

Bemerkungen zum Baum

Lage **Theodor-Körner-Straße (Straßenbegleitgrün)**

Standort Bemerkung
gegenüber hausnummer 1

Zustand **Baum vorhanden**

Vitalität **Sep 2015**

Bestandsaufnahme Bemerkung

Kontrollintervall Stufe **C - 2 Jahre**

Zeitpunkt **11.03.2015**

letzte Kontrolle: 11.03.2015

Speichern Löschen Abbrechen



View in Table

- Tabular display of objects
- scroll through the data
- View only the objects of the current extent
- Definition of table columns to display the results
- Allow delete and edit
- Search in data

The screenshot shows a software window titled "Digitizer" with a sub-menu "Point Digitizing". Below the menu is a toolbar with two icons: a green square with a white pencil and a red square with a white eraser. There is also a checkbox labeled "current extent". The main area is a table with the following data:

Nr.	Name	Actions
9	Mapbender39	
12	Mapbender312	
13	Mapbender313	
14	Mapbender314	
15	Mapbender315	
17	Mapbender317	
18	Mapbender318	
19	Mapbender319	
20	Mapbender320	
21	Mapbender321	

1 bis 10 von 100





Digitalization

- Point, Line and Area
- Different functionalities related to the geometry type
- drawRectangle
- drawCircle
- drawEllipse
- drawPoint
- drawLine
- drawPolygon
- drawDonut
- modifyFeature
- moveFeature
- selectFeature
- removeSelected





Digitalization

The screenshot shows a digital mapping interface for digitizing geographical features. On the left, a sidebar titled "Digitizer" contains the following controls and data:

- A title bar: "Digitizer"
- A dropdown menu: "polygon digitizing"
- A toolbar with icons for different shapes: polygon, square, rectangle, oval, circle, triangle, cross, and a zoom-in/out icon.
- A checkbox: "Select by current extent only" (checked).
- A table listing objects with their numbers (Nr.) and names, each with a checkmark icon:
 - 51 WhereGroup GmbH & Co. KG
 - 52 WurstTeufel
 - 53 Nazar Döner Laden
 - 54 OBI
 - 56 Weg zu Wurstteufel
 - 57 Metzger
 - 67 Fläche
 - 69 Kreis
 - 70 Ellipse
 - 91 Ein Kreis
- A page navigation bar: "1 bis 10 von 14" (page 1)
- A page number: "1 2"
- A right-pointing arrow icon.

The main area displays a map of Bonn, Germany, with several green shapes overlaid, representing the objects listed in the sidebar. The map includes street names like Körstrasse, Auerberg, Nordniedorf, Graurheindorf, Bonn-Castell, LVR-LandesMuseum Bonn, Kennedybrücke, Weststadt, Südstadt, Poppelsdorf, Im Winkel, and Gronau. A large green circle covers a significant portion of the northern part of the city center.



https://mapbender.org

Welcome to the Mapbender documentation

Inhalt:

- Systemrequirements and Installation
- Mapbender Quickstart: First steps with Mapbender
- Functions
 - Base functions
 - Map
 - Navigation Toolbar (Zoombar)
 - Overview
 - Layertree - Table of Content (TOC)
 - Legend
 - Activity Indicator
 - BaseSourceSwitcher
 - Feature Info
 - Coordinates Display
 - Line/Area Ruler
 - Scale Selector
 - ScaleBar
 - ScaleDisplay





Which components does Mapbender use?

- MIT licensed
- Symfony2 as PHP framework
 - Doctrine, Twig, Monolog, Bootstrap...
 - Bundles
- OpenLayers2
- MapQuery
- jQuery
- SQLite, PostgreSQL, MySQL, Oracle database





Version 3.0.7.3

- Major release with many changes & refactoring
- 2018-07-13
- <https://doc.mapbender3.org/en/book/versions.html>





Docker image for Mapbender

- We have a docker image for Mapbender
- <https://hub.docker.com/u/mapbender/>





Activities in the team

- Chair **Axel Schaefer**
- Architect **Rolf Neuberger**
- PSC **Olaf Knopp**
- Arash Rashid Pour**
- Astrid Emde**
- David Patzke**
- Frederik Häfker**
- about 8 more developer working on Mapbender





Activities in the team

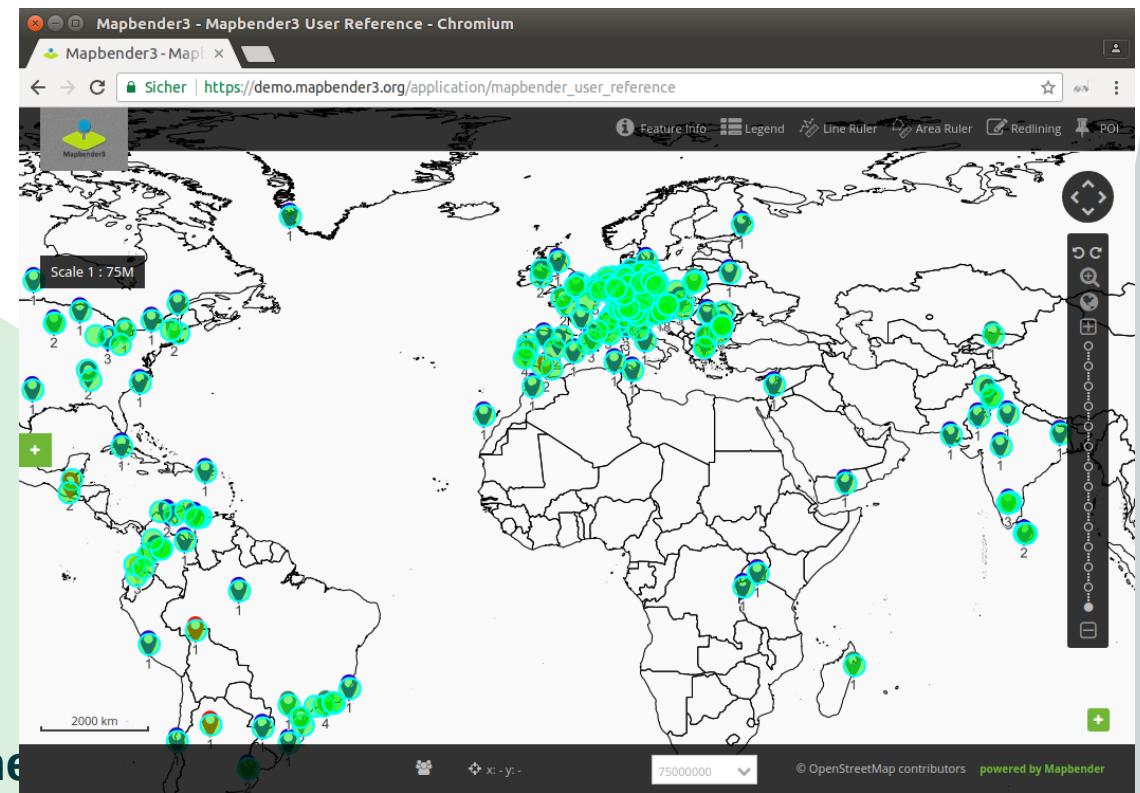
- Regular meetings in Bonn
 - pros: face-to-face, good discussions, milestones, releases more often, clean up
 - cons: in german, not very transparent
- Ticket system on GitHub is used as major system
- Many developer, many user
- Many project work is done and internal contributions
- We focus on development for projects – payed work





Mapbender User Reference Map

- Try digitizer and add yourself as Mapbender User – sorry was shut down due to GDPR (DSGVO)
- https://demo.mapbender.org/application/mapbender_user
- Focus of users in Germany & Europe





Mapbender3 3.0.7.3 on MS4W 3.2.2

- Work on getting it into the next version with MapServer 7.x
- MS4W - MapServer For Windows
- Provided by Jeff McKenna. Big thanks to Jeff!
- Mapbender is part of it since several years
- <http://www.ms4w.com/>



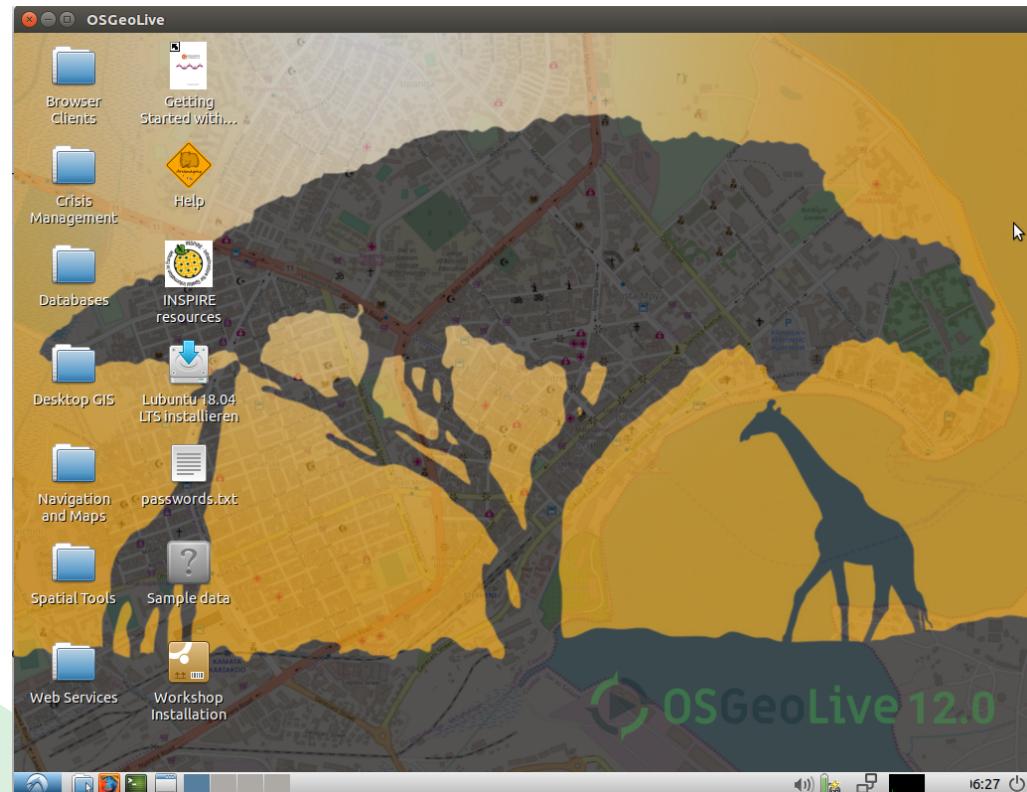


Mapbender 3.0.7.3 on OSGeoLive 12.0

- Ready for FOSS4G
Dar Es Salaam
Tansania



- We use OSGeoLive
in our workshops
& at conferences
- Great for usage
& promotion!





WMS Layer ordering

WMS instance (20/4525) - Arbeitslosenzahlen

Origin URL <http://geo.kreislippe.de/cgi-bin/al...>

Title* Arbeitslosenzahlen Dimensions
time active

Format* image/png Vendor specific
 Visible

Infoformat text/html BaseSource

Exceptionformat XML Proxy

Opacity* 100 Transparency

Tile buffer 0 Tiled

BBOX factor 1.25 Layer ordering*
standard
standard
QGIS

Title	Minsc	Maxsc	active	select	info	toggle	reorder
			<input checked="" type="checkbox"/>				
Arbeitslosenzahlen			<input checked="" type="checkbox"/>				
Arbeitslosenzahlen			<input checked="" type="checkbox"/>				





Routing

- pgRouting & GraphHopper
- Implemented for Deutsche Bahn and Stadt Frankfurt
- Schoolpath analysis for public transprot ticket
- Routing to facilities



graphhopper

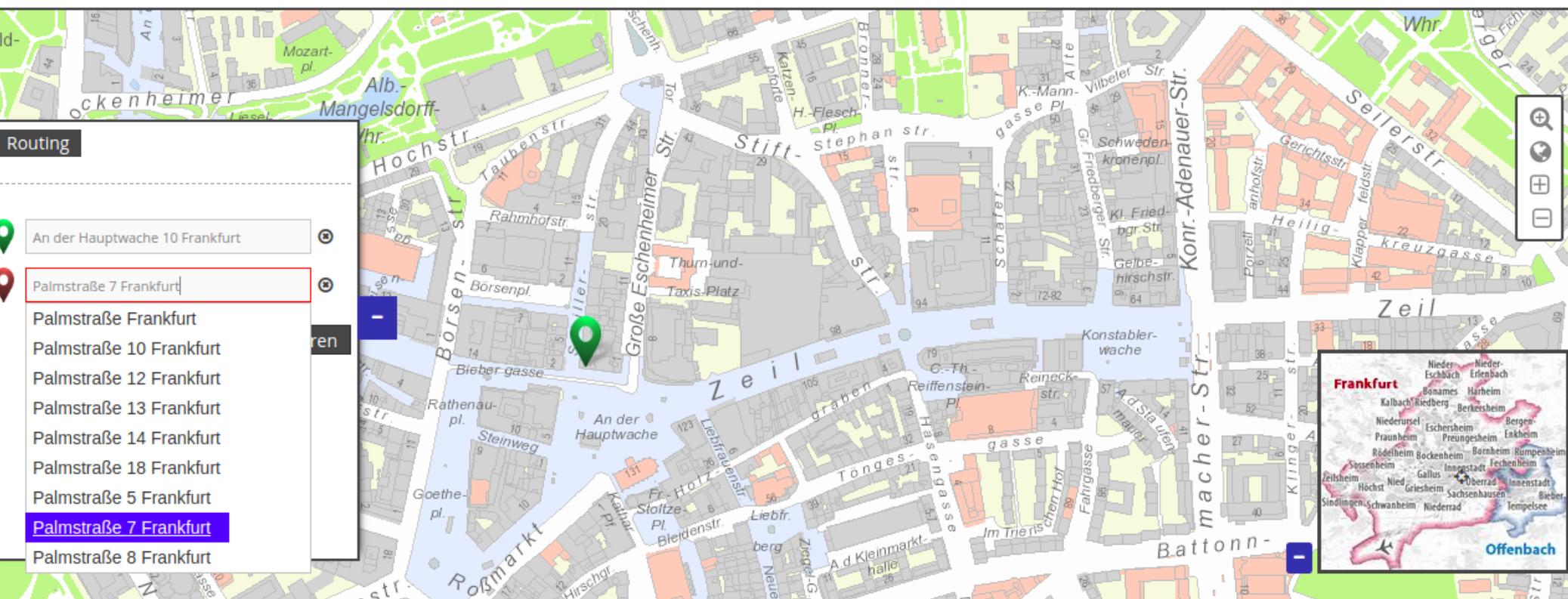




Routing

Stadt Frankfurt am Main  GeoPortal Routing

Stadtkarte Luftbild Suchen Strecke messen Fläche messen Bildexport Drucken



An der Hauptwache 10 Frankfurt

Palmstraße 7 Frankfurt

Palmstraße Frankfurt

Palmstraße 10 Frankfurt

Palmstraße 12 Frankfurt

Palmstraße 13 Frankfurt

Palmstraße 14 Frankfurt

Palmstraße 18 Frankfurt

Palmstraße 5 Frankfurt

Palmstraße 7 Frankfurt

Palmstraße 8 Frankfurt

Copyright-Hinweise 5000





Routing

Stadt Frankfurt am Main

GeoPortal

Routing

Stadtkaarte Luftbild Suchen Strecke messen Fläche messen Bildexport Drucken

An der Hauptwache 10 Frankfurt →
Palmstraße 7 Frankfurt
Länge=1432.51 | Zeit=17min/5Kmh

Zurücksetzen Umkehren

Copyright-Hinweise





Routing configuration

Element editieren

weitere Einstellungen

Title*	Routing
Target*	Map
<input type="checkbox"/> Route sofort ausgeben?	
<input type="checkbox"/> Zwischenpunkte erlaubt?	
<input type="checkbox"/> Kontextmenu deaktivieren	
Zoompuffer (m)*	0
Linienfarbe	<div style="background-color: blue; width: 100%; height: 10px;"></div>
Linienbreite	3
Liniendeckkraft	1
Infotext zur Route	{start} → {destination} {length} will take {time}
Zeitformat Strecke	ms
Pfad Starticon	

Aktualisieren Abbrechen



plugable

Edit data without geometry

- e.g. tree species, interests

The screenshot illustrates a "Data store Interests" interface within the Mapbender application. On the left, a list of interests is displayed in a table format:

Interest	Actions
Ballet	<input checked="" type="checkbox"/> <input type="button" value="edit"/>
Books	<input checked="" type="checkbox"/> <input type="button" value="edit"/>
Bowling	<input checked="" type="checkbox"/> <input type="button" value="edit"/>
BreakDance	<input checked="" type="checkbox"/> <input type="button" value="edit"/>
Cooking	<input checked="" type="checkbox"/> <input type="button" value="edit"/>
Cricket	<input checked="" type="checkbox"/> <input type="button" value="edit"/>
Dance	<input checked="" type="checkbox"/> <input type="button" value="edit"/>
Football	<input checked="" type="checkbox"/> <input type="button" value="edit"/>
Gaming	<input checked="" type="checkbox"/> <input type="button" value="edit"/>
Gardening	<input checked="" type="checkbox"/> <input type="button" value="edit"/>

A red "Search:" input field is present above the list. At the bottom, there are navigation buttons: "1 / 10 (25)", "1 2 3", and a right arrow.

On the right, a map of Bonn, Germany, shows several streets and landmarks like "Kölnstraße", "Lieveingweg", and "Bonn-Castell". A callout box displays a detailed "Interests" form:

Interests

Interest
Gardening

Is your interest sport?
 Is this interest good for your health?

comment
I like flowers a lot.

Save **Remove** **Cancel**



plugable

Query_Builder for evaluation

- Embed, view and edit SQL queries
- Export results

The screenshot shows a web-based application interface. At the top left is a search bar labeled "Search:". Below it is a dropdown menu titled "Titel" containing three items: "Alle Hausnummern", "Alle Straßen", and "Hausnummernbereiche pro Straße". To the right of the dropdown is a map of a street network. In the center, a modal dialog box is open with the title "Öffnen von export-list.xls". It contains the message "Sie möchten folgende Datei öffnen:" followed by a file link "export-list.xls" and its details "Vom Typ: Microsoft Excel Arbeitsblatt (..." and "Von: https://wesseling-webgis.wher...". Below this, a question "Wie soll Firefox mit dieser Datei verfahren?" is followed by two options: "Öffnen mit LibreOffice Calc (Stand..." (radio button not selected) and "Datei speichern" (radio button selected). To the right of the dialog, a table titled "Alle Straßen" is displayed, showing a list of streets and their connecting street counts.

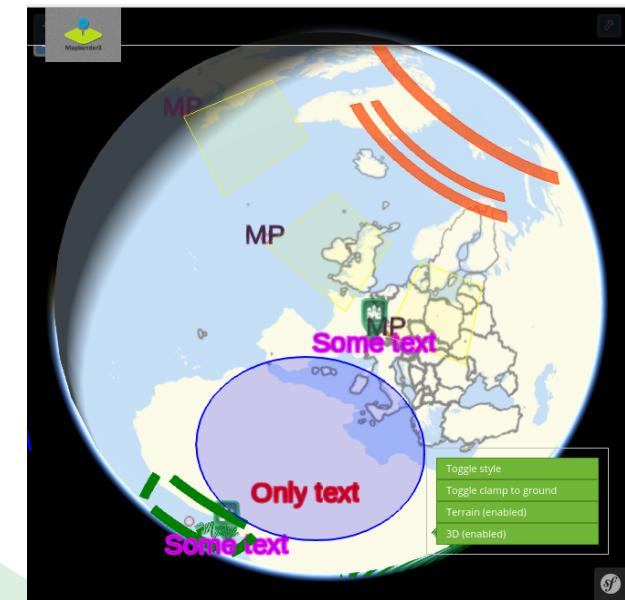
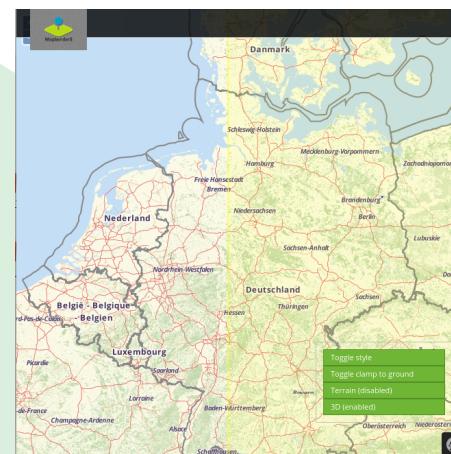
Straße	Straßenschlüssel
Ahrstraße	1
Am Kronenbusch	4
Am Markt	5
Am Neuen Garten	6
Am Schulpfad	7
Am Walde	8
An St. Germanus	9
Antoniusstraße	10





Adding OpenLayers5 Support

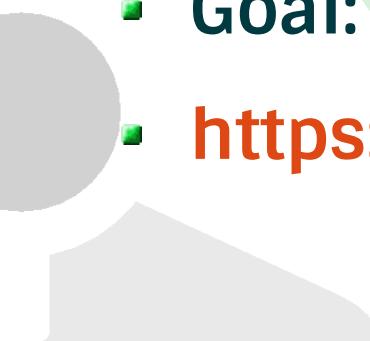
- OL2 and OL5 should be available parallel
- Update has to be always possible
- Old Applications should still work and user can try the new once





Adding OpenLayers4/5 Support

- We started a sponsoring call and raised money
- In July 2018 we had 2 weeks of very successfull Open Layers Sprint in Bonn
- All Elements were analysed and modified to work with OpenLayers5
- Goal: we want to finish within this year
- <https://mapbender.org/?q=en/sponsoring-en>



Mapbender - Mapbender Demo Map - Chromium

Mapbender - Mapbe x

Astrid



Sicher | https://test.mapbender.org/ol4/application/mapbender_user



Layertree

Feature Info

Print

Image Export

Legend

WMS Loader

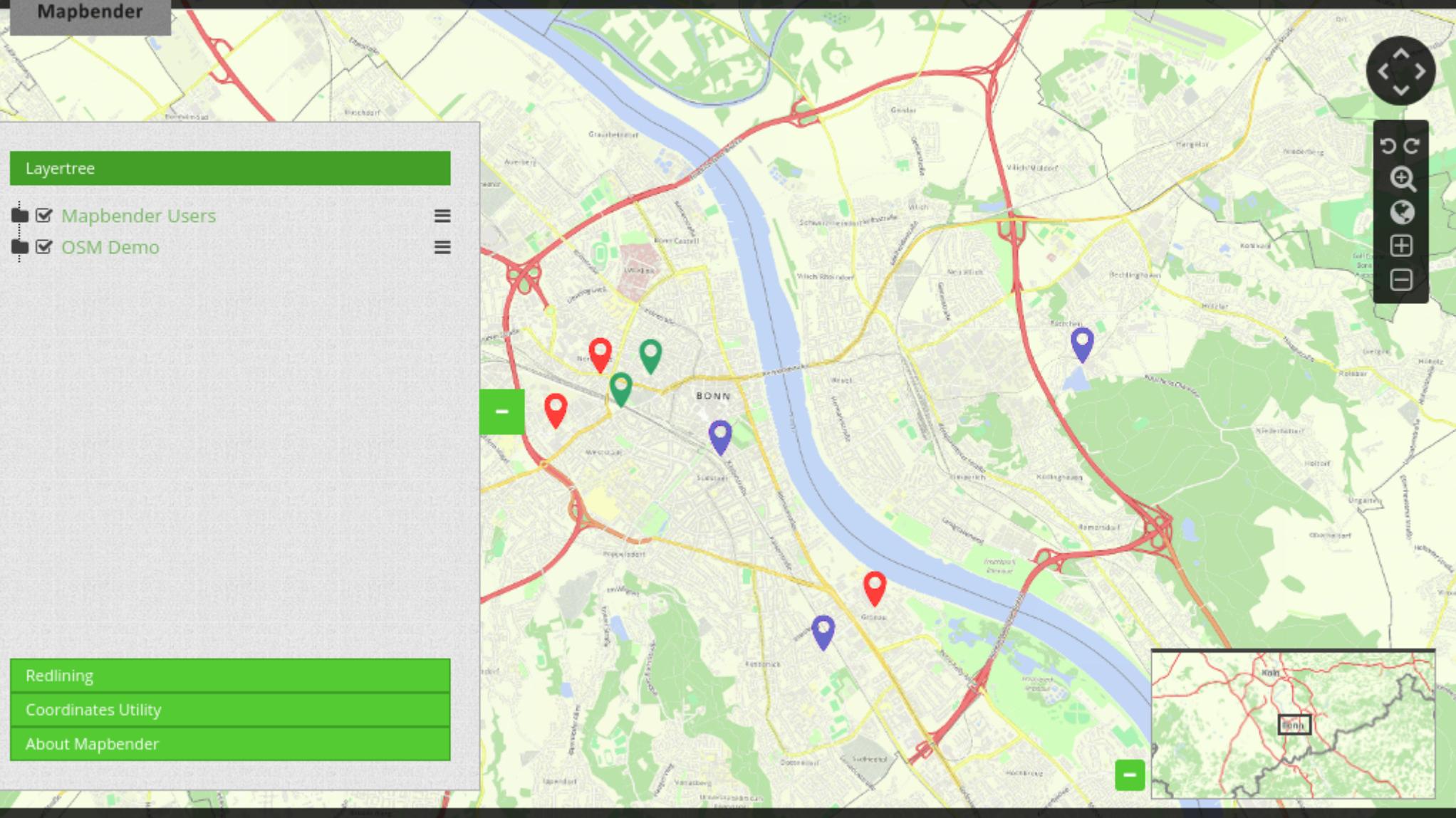
GPS

Line Ruler

Area Ruler

About

POI



Mapbender – Astrid Emde WhereGroup FOSS4G 2018 Dar es Salaam





Free/Libre and Open Source Software (FOSS)
Copyleft Mayuri 2004





Thank you

Astrid Emde

astrid.emde@wheringroup.com

mapbender-users@list.osgeo.org

