



# Mapbender3

## Create your own Geoportal Web Application and Service Repository

Astrid Emde

FOSS4G 2013 Nottingham

# Astrid Emde

- Mapbender Team
-  WhereGroup
- FOSSGIS e.V.
- Involved in OSGeo-Live

# What does Mapbender do?



# WebGIS Client Suite with administration web interface



**Create a geoportal without writing a single line of code!**



# Create and maintain an OWS repository



# Distribute configured services among applications

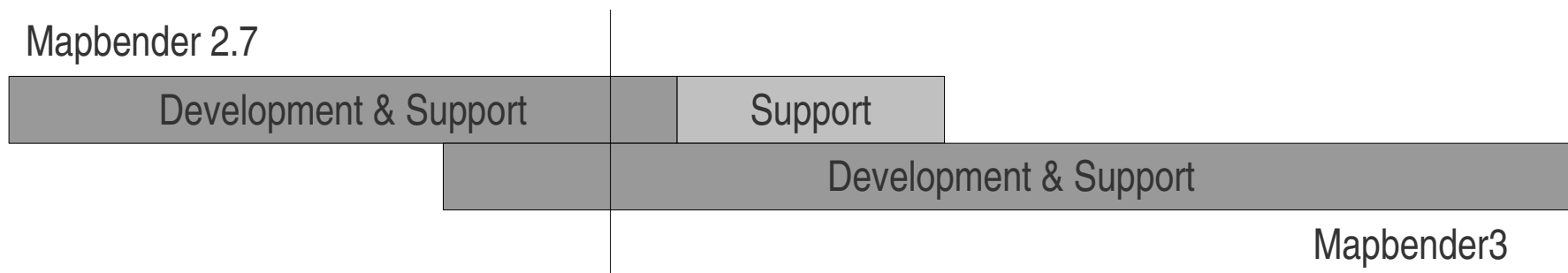


# Grant users and groups access to applications and services





# From Mapbender 2.x to Mapbender3





## The Mapbender components

**Applications**

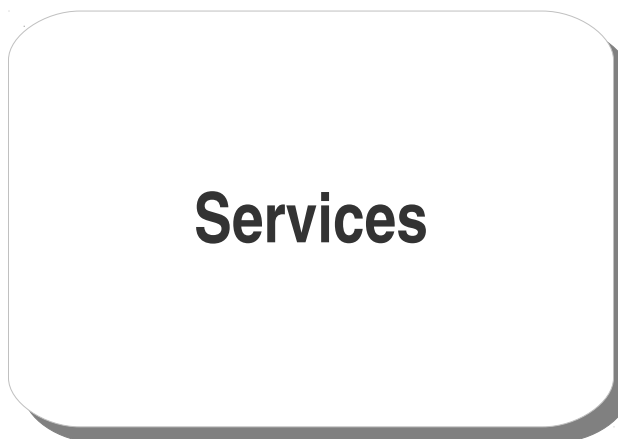
**Services**

**Roles**



**Applications**

**one or many  
depends on your needs**



**Services**

**OWS**

**WMS**

**WFS**

**WMTS & more**



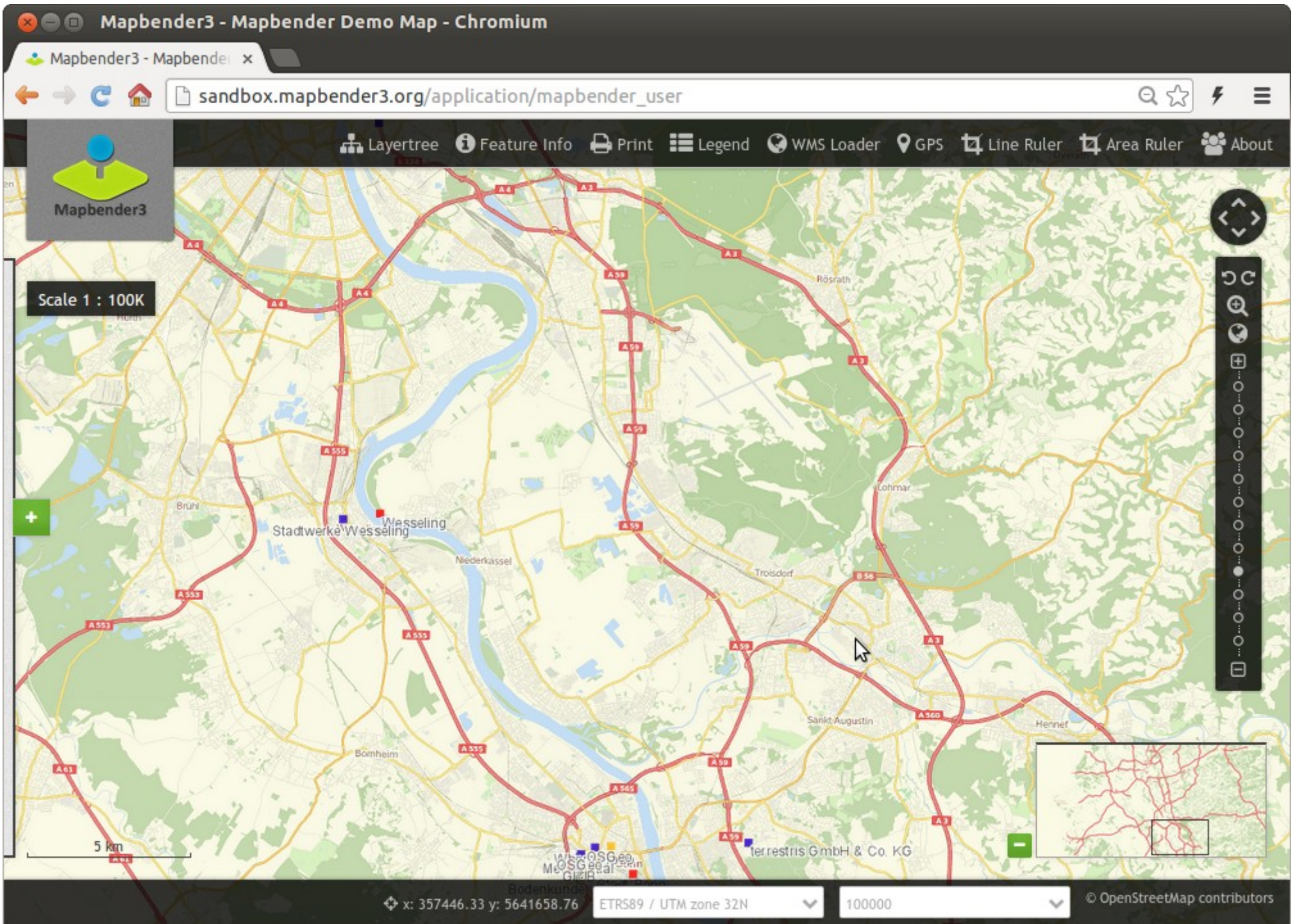
**Roles**

**users and groups**



# Applications





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Mapbender3 - Mapbender Demo Map - Chromium

Mapbender3 - Mapbender x

sandbox.mapbender3.org/application/mapbender\_user

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

Mapbender3

Scale 1 : 10K

500 m

5000000  
1000000  
500000  
100000  
50000  
25000  
10000  
7500  
5000  
2500  
1000  
500  
10000

ETRS89 / UTM zone 32N

© OpenStreetMap contributors

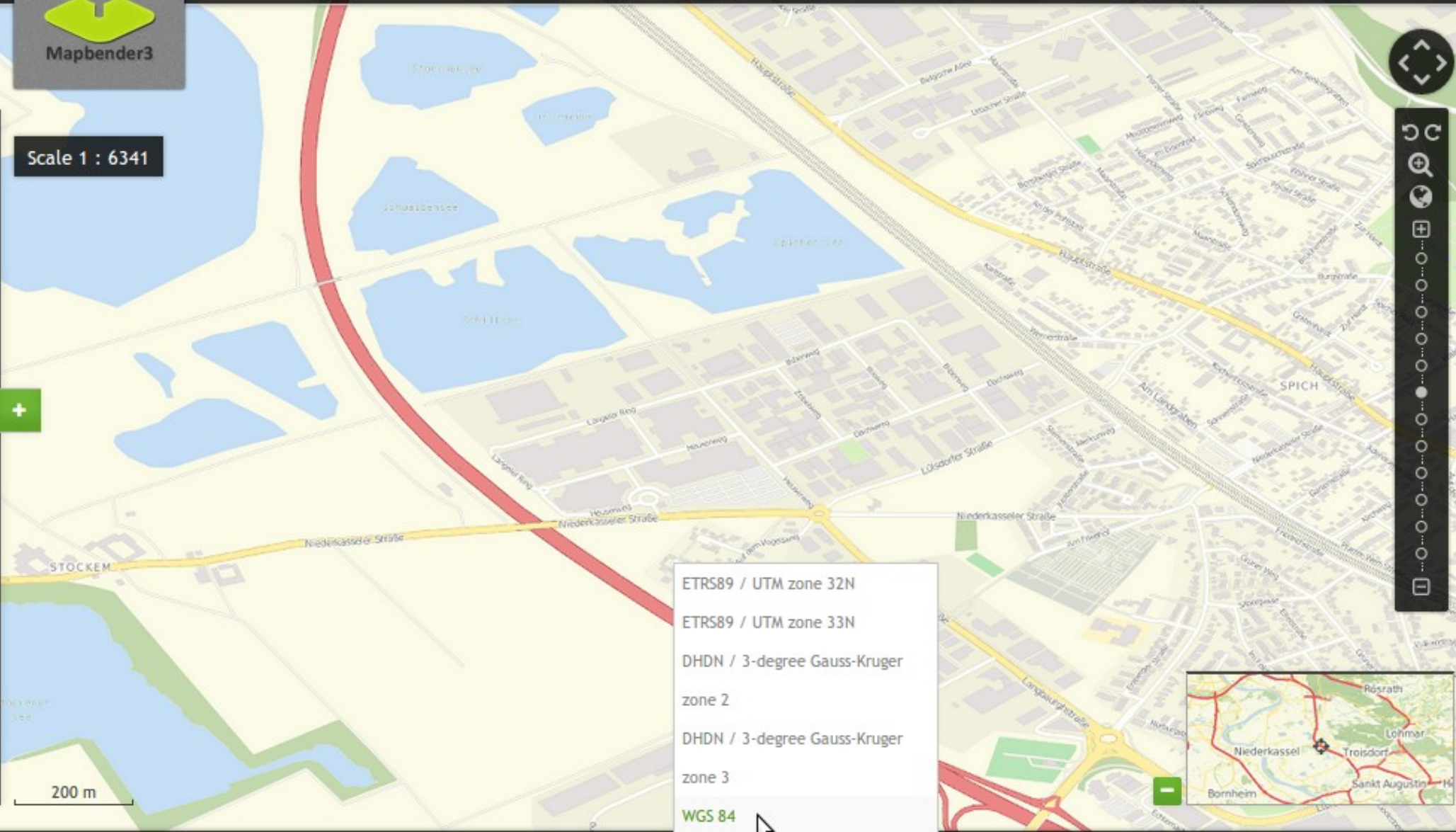
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Mapbender3

Scale 1 : 6341



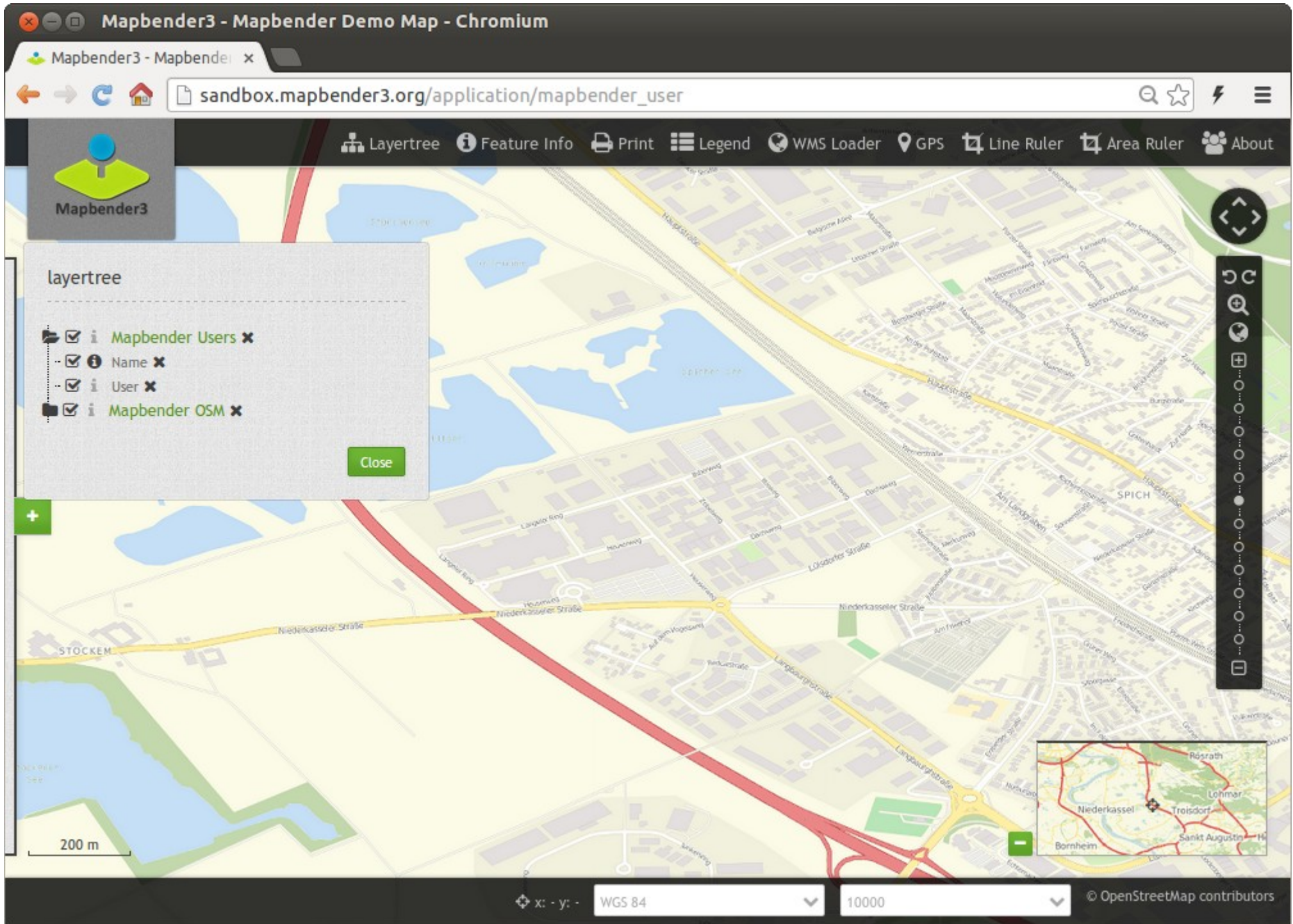
- ETRS89 / UTM zone 32N
- ETRS89 / UTM zone 33N
- DHDN / 3-degree Gauss-Kruger zone 2
- DHDN / 3-degree Gauss-Kruger zone 3
- WGS 84**



x: - y: - WGS 84

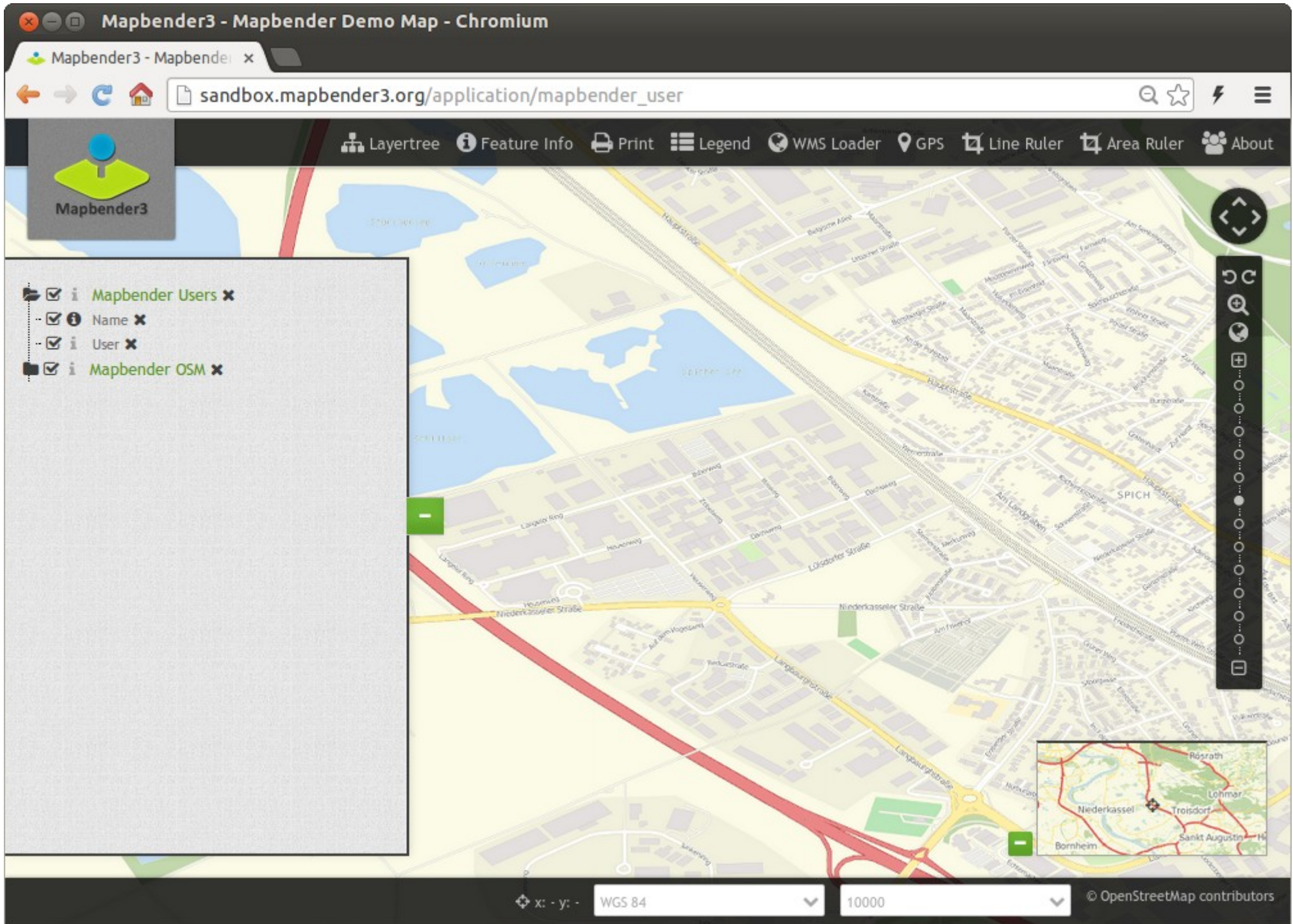
10000





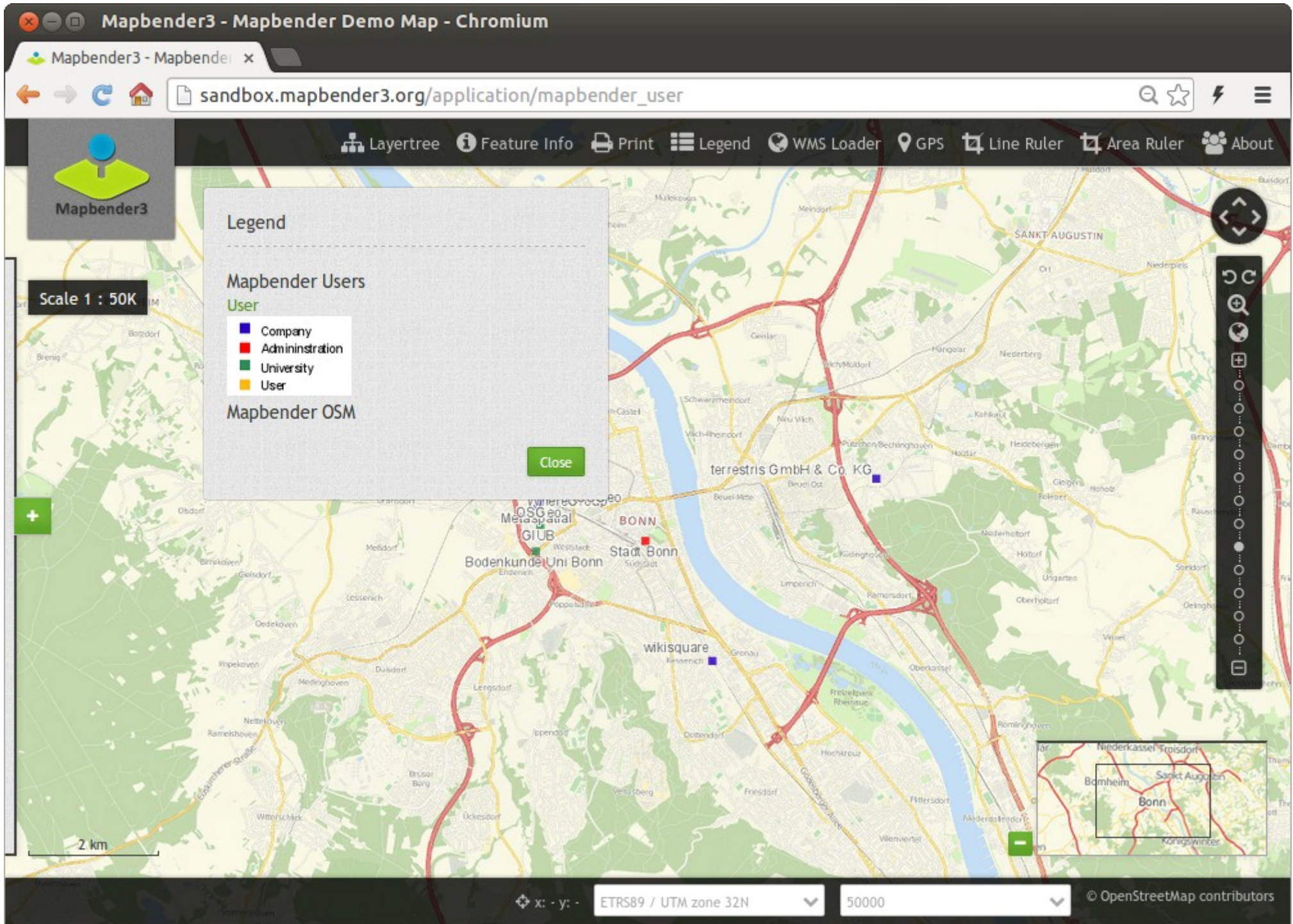
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Mapbender3 - Mapbender Demo Map - Chromium

Mapbender3 - Mapbender x

sandbox.mapbender3.org/application/mapbender\_user

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

Mapbender3

Scale 1 : 50K

WMS Loader

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

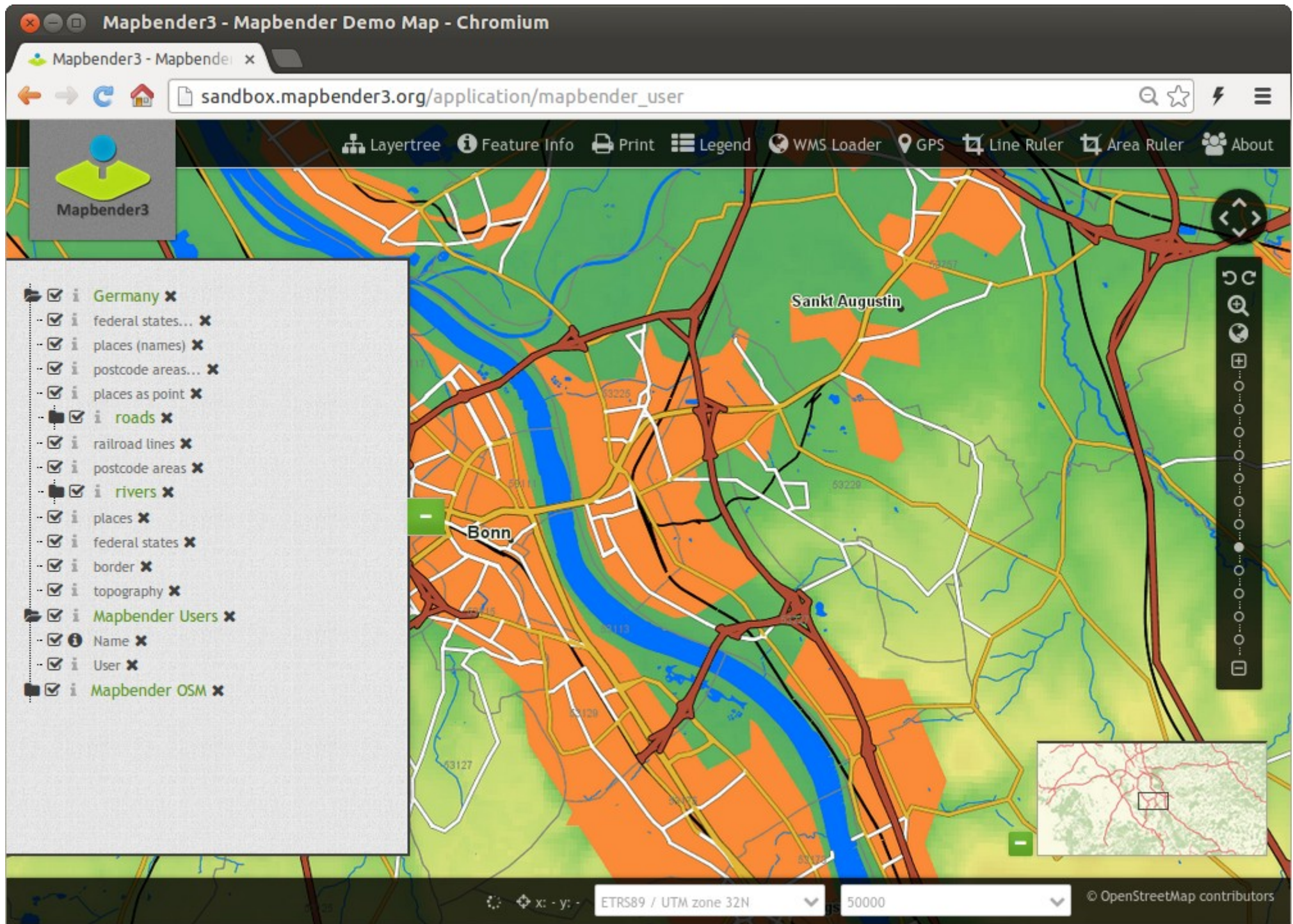
Service url

Load Cancel

2 km

ETRS89 / UTM zone 32N 50000 © OpenStreetMap contributors





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Mapbender3 - Mapbender Demo Map - Chromium

Mapbender3 - Mapbender x

sandbox.mapbender3.org/application/mapbender\_user

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

Mapbender3

Scale 1 : 2500

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

100 m

x: 367697.96 y: 5621775.46 ETRS89 / UTM zone 32N 2500 © OpenStreetMap contributors

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Mapbender3 - Mapbender Demo Map - Chromium

Mapbender3 - Mapbender x

sandbox.mapbender3.org/application/mapbender\_user

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

Mapbender3

Scale 1 : 2500

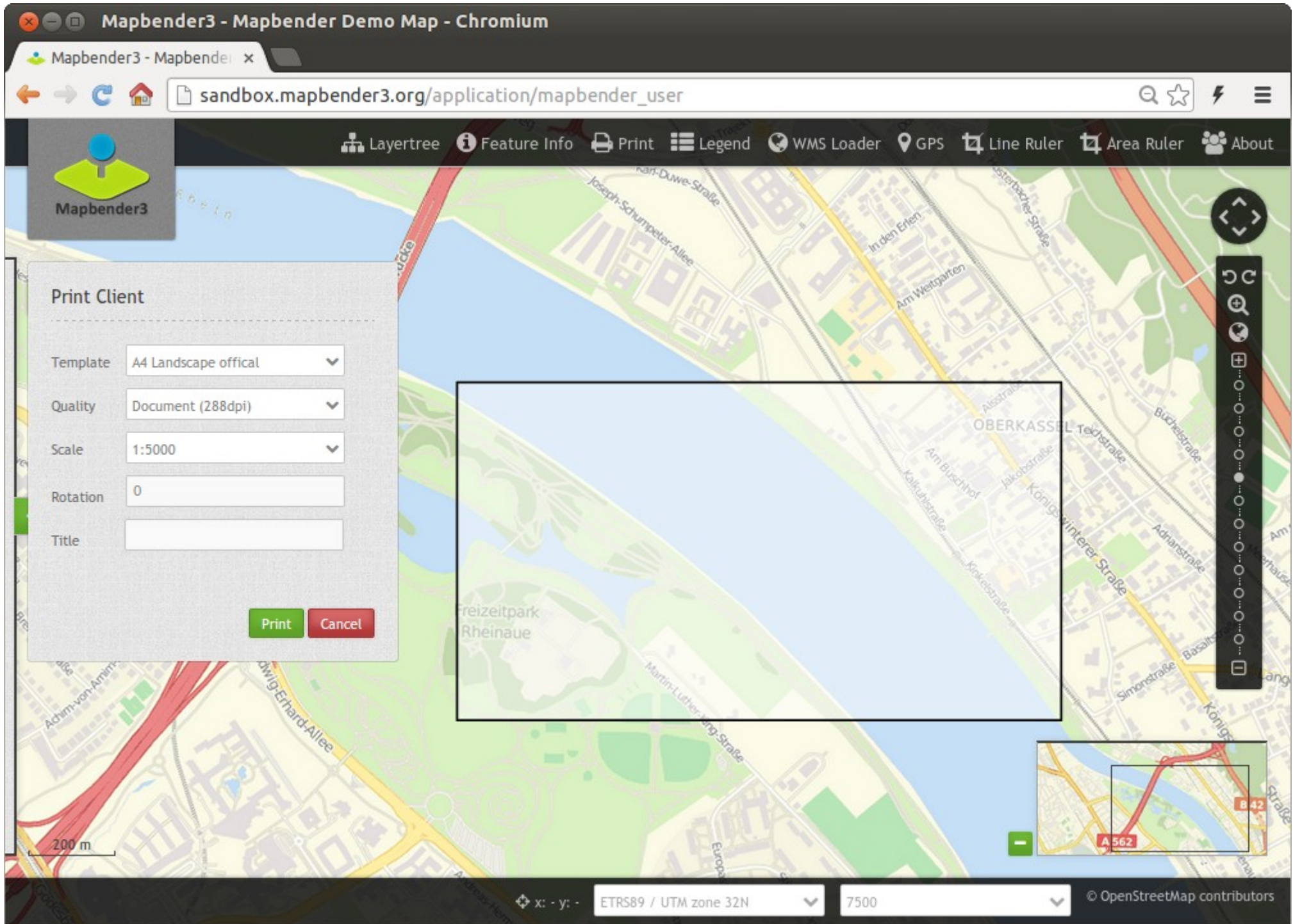
Area  
-----  
1819.33 m<sup>2</sup>  
Close

100 m

x: 367683.85 y: 5621800.15 ETRS89 / UTM zone 32N 2500 © OpenStreetMap contributors

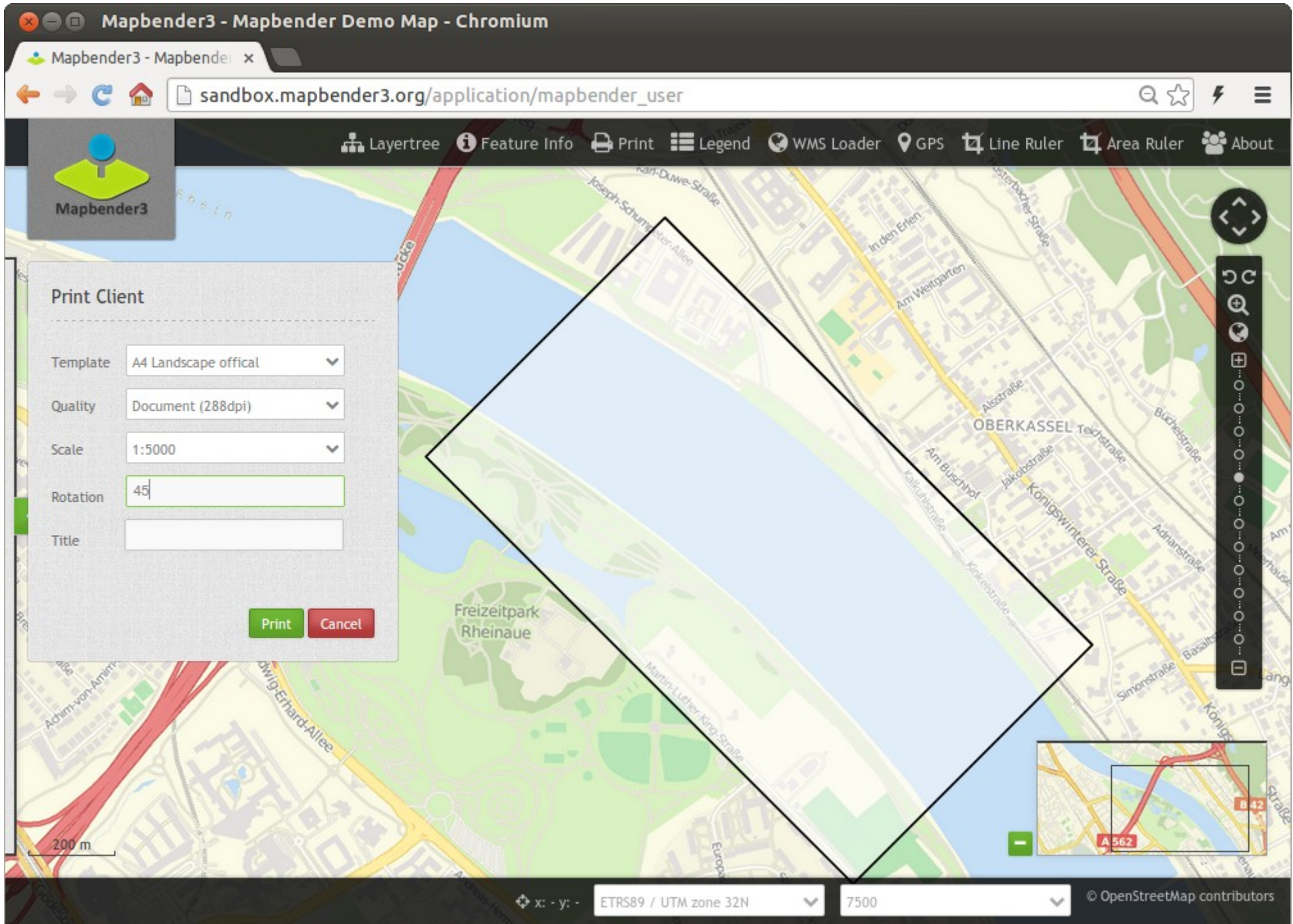
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# Set up your own application



# Login

- root user is created on installation
- You can provide register and Forgot password functionality

A screenshot of a web login form. The form has a light gray background and a dashed horizontal line below the title. The title "Login" is in a dark gray, italicized font. Below the title, there are two input fields: "Username:" followed by a white text box with a green border, and "Password:" followed by a white text box with a gray border. At the bottom left, there are two links: "Register" and "Forgot password?", both with a right-pointing arrow. At the bottom right, there is a green button with the text "Login" in white.



Mapbender3 - Applications - Chromium

Mapbender3 - Application x

sandbox.mapbender3.org/manager/applications

Logged in as: root











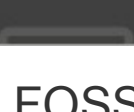





v. 3.0.1.0

# Mapbender3

- ▶ Applications
  - ▶ New Application
- ▶ Services
  - ▶ Add Service
- ▶ User Control
  - ▶ Users
    - ▶ New User
  - ▶ Groups
    - ▶ New Group
  - ▶ ACLs

## Applications

Filter:

	<b>Mapbender Demo Map</b> mapbender_user <i>Fullscreen style, Simple map showing WMS use.</i>	
	<b>Mapbender Demo Map basic</b> mapbender_user_basic <i>Fullscreen style, simple buttons, simple map showing WMS use.</i>	
	<b>1378996 Mapbender Demo Map</b> 1378996_mapbender_user <i>Fullscreen style, Simple map showing WMS use.</i>	    
	<b>13789 Mapbender Demo Map basic</b> 13789_mapbender_user_basic	    

Mapbender3 - New Application - Chromium

Mapbender3 - New Applic x

sandbox.mapbender3.org/manager/application/new

Logged in as: root

v. 3.0.1.0

# Mapbender3

- ▶ Applications
  - ▶ New Application
- ▶ Services
  - ▶ Add Service
- ▶ User Control
  - ▶ Users
    - ▶ New User
  - ▶ Groups
    - ▶ New Group
  - ▶ ACLs

## New Application

Base data | Security

Title\*

URL title\*

Description

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

Create Cancel

sandbox.mapbender3.org/manager/applications

Mapbender3 - demo - Chromium

Mapbender3 - demo

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

Mapbender3 v. 3.0.1.0

- Applications
  - New Application
- Services
  - Add Service
- User Control
  - Users
    - New User
  - Groups
    - New Group
  - ACLs

demo

Base data | **Layout** | Layers | Security

Template\* Fullscreen template

**Toolbar**

Title	Type	+
<i>No elements added.</i>		

**Sidepane**

Title	Type	+
<i>No elements added.</i>		

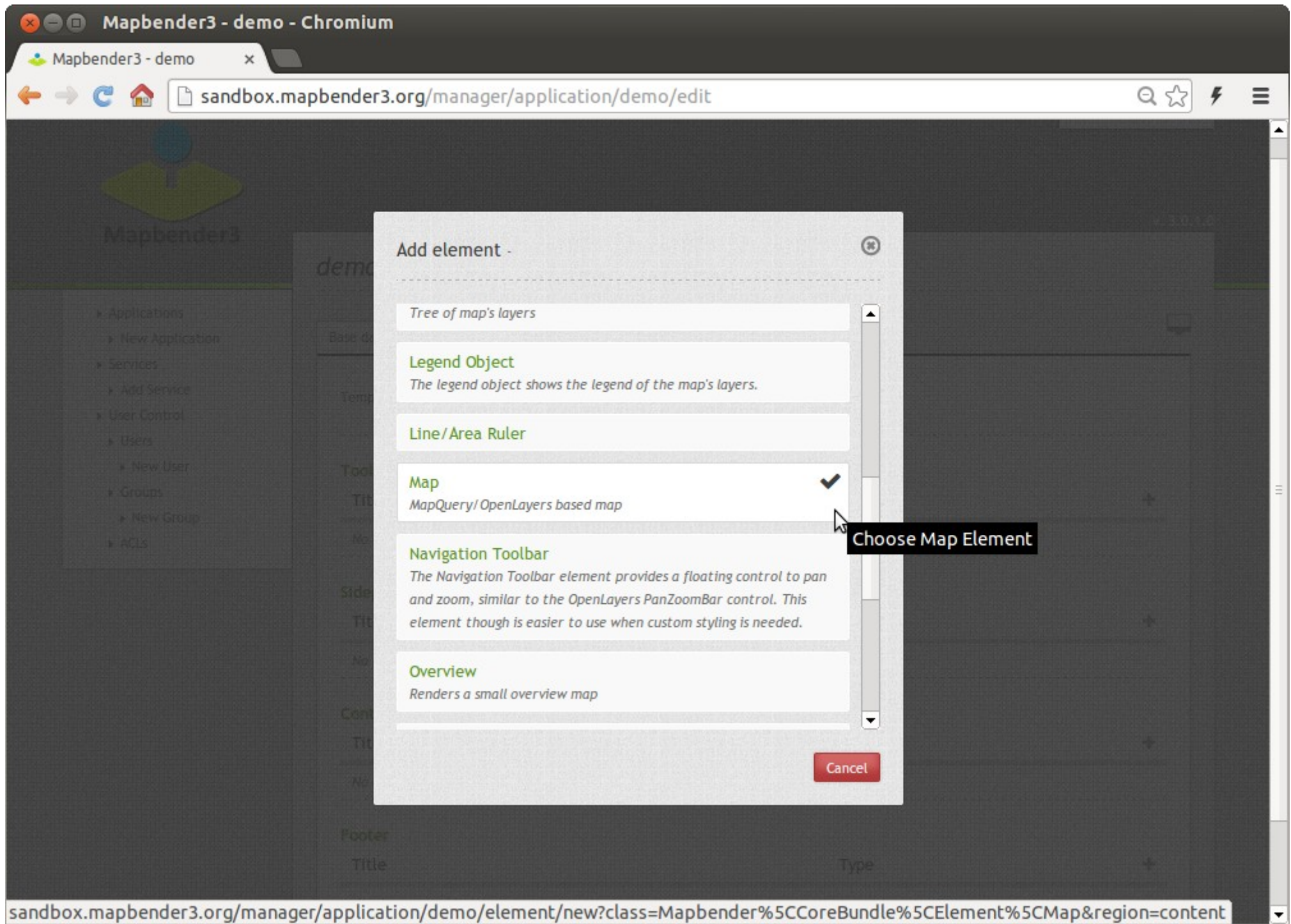
**Content**

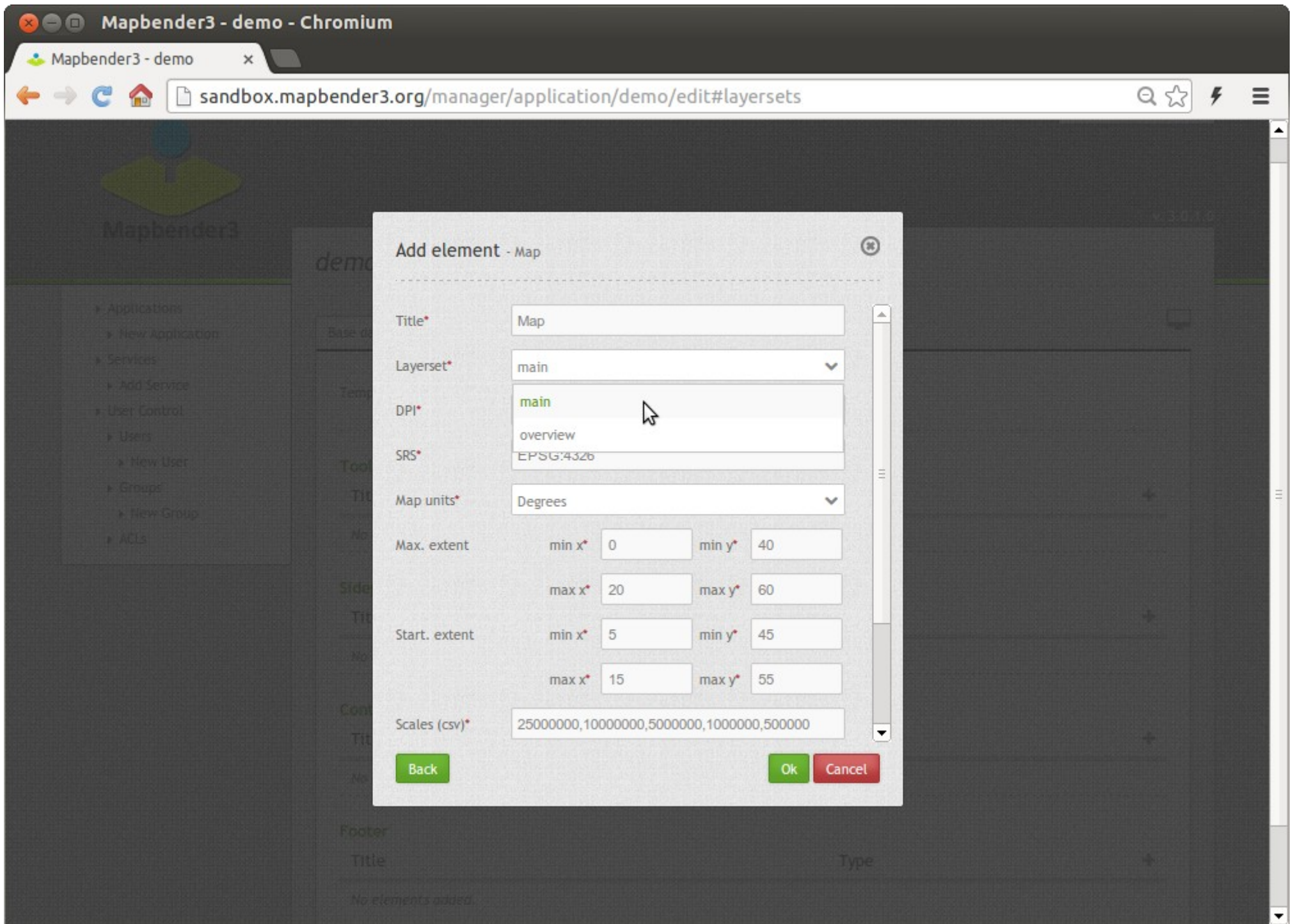
Title	Type	+
<i>No elements added.</i>		

**Footer**

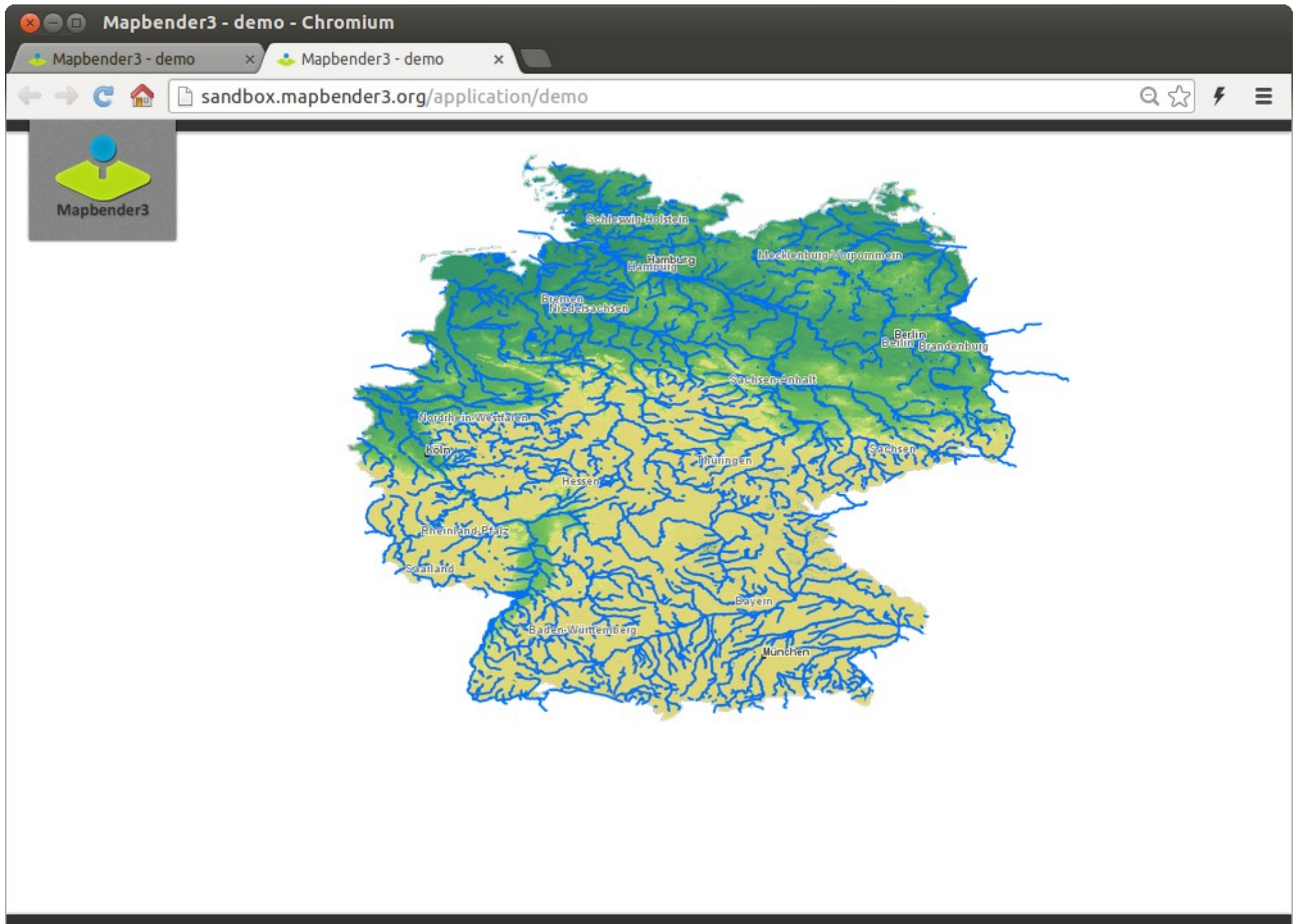
Title	Type	+
<i>No elements added.</i>		













**Services**

**add service once  
configure  
control access**

Mapbender3 - Add Service - Chromium

Mapbender3 - Add Service x

sandbox.mapbender3.org/manager/repository/new

Logged in as: root

v. 3.0.1.0

# Mapbender3

- ▶ Applications
  - ▶ New Application
- ▶ Services
  - ▶ Add Service
- ▶ User Control
  - ▶ Users
    - ▶ New User
  - ▶ Groups
    - ▶ New Group
  - ▶ ACLs

## Add Service

OGC WMS

Serviceurl:

Username:

Password:




Mapbender3 - Services - Chromium

Mapbender3 - Services x

sandbox.mapbender3.org/manager/repository

Logged in as: root

v. 3.0.1.0









**Mapbender3**

- ▶ Applications
  - ▶ New Application
- ▶ **Services**
  - ▶ Add Service
- ▶ User Control
  - ▶ Users
    - ▶ New User
  - ▶ Groups
    - ▶ New Group
  - ▶ ACLs

## Services

Filter

1 WMS	<p><b>Germany</b></p> <hr/> <p>Germany</p>	 
2 WMS	<p><b>BGS 50000 scale digital geology</b></p> <hr/> <p><i>Note: This dataset is designed for the 1:50000 scale but can be viewed in this WMS between 1:100000 and 1:25000 (Only). The 1:50 000 DiGMapGB data covering the whole of the United Kingdom is available in this OGC WMS service for your personal, non-commercial use only. Separate bedrock geology, superficial deposits, artificial ground, mass movement deposits and geological linear features layers are available in this service. For information about more of the British Geological Survey's maps that are available digitally please visit <a href="http://www.bgs.ac.uk/products/digitalmaps/digmapgb.html">http://www.bgs.ac.uk/products/digitalmaps/digmapgb.html</a>. These data are delivered under the terms of the Open Government Licence (<a href="http://www.nationalarchives.gov.uk/doc/open-government-licence/">http://www.nationalarchives.gov.uk/doc/open-government-licence/</a>), subject to the following acknowledgement accompanying the reproduced BGS materials: Contains British Geological Survey materials copyright NERC [year]. Contact us if you create something new and innovative that could benefit others usingbgsdata@bgs.ac.uk.</i></p>	 
3 WMS	<p><b>British Geological Survey (BGS) 1:625 000 scale digital hydrogeological data</b></p> <hr/> <p><i>The hydrogeological map indicates aquifer potential in generalised terms using a threefold division of geological formations: those in which intergranular flow in the saturated zone is dominant. those in which flow is controlled by fissures or</i></p>	 

Mapbender3 - WMS BGS 50000 scale digital geology - Chromium

Mapbender3 - WMS BGS 5 x

sandbox.mapbender3.org/manager/repository/source/2

Logged in as: root

v. 3.0.1.0

## Mapbender3

- ▶ Applications
  - ▶ New Application
- ▶ Services
  - ▶ Add Service
- ▶ User Control
  - ▶ Users
    - ▶ New User
  - ▶ Groups
    - ▶ New Group
  - ▶ ACLs

### WMS BGS 50000 scale digital geology

Back

Metadata Contact Details Layers

**Title:** BGS 50000 scale digital geology

**Name:** OGC:WMS

**Version:** 1.1.1

**Origin URL:** [http://maps.bgs.ac.uk/ArcGIS/services/BGS\\_Detailed\\_Geology/MapServer/WMServer?service=WMS&version=1.1.1&request=GetCapabilities](http://maps.bgs.ac.uk/ArcGIS/services/BGS_Detailed_Geology/MapServer/WMServer?service=WMS&version=1.1.1&request=GetCapabilities)

**Abstract:** Note: This dataset is designed for the 1:50000 scale but can be viewed in this WMS between 1:100000 and 1:25000 (Only). The 1:50 000 DiGMapGB data covering the whole of the United Kingdom is available in this OGC WMS service for your personal, non-commercial use only. Separate bedrock geology, superficial deposits, artificial ground, mass movement deposits and geological linear features layers are available in this service. For information about more of the British Geological Survey's maps that are available digitally please visit <http://www.bgs.ac.uk/products/digitalmaps/digmapgb.html>. These data are delivered under the terms of the Open Government Licence (<http://www.nationalarchives.gov.uk/doc/open-government-licence/>), subject to the following acknowledgement accompanying the reproduced BGS materials: Contains British Geological Survey materials copyright NERC [year]. Contact us if you create something new and innovative that could benefit others using.

**Online Resource:** [http://www.bgs.ac.uk/products/digitalmaps/digmapgb\\_50.html](http://www.bgs.ac.uk/products/digitalmaps/digmapgb_50.html)

**Exception Formats:** application/vnd.ogc.se\_xml , application/vnd.ogc.se\_inimage , application/vnd.ogc.se\_blank

**Fees:** none

**Access constraints:** Note: This dataset is designed for the 1:50000 scale but can be viewed in this WMS between 1:100000 and 1:25000 (Only). These data are delivered under the terms of the Open Government Licence (<http://www.nationalarchives.gov.uk/doc/open-government-licence/>), subject to the following acknowledgement accompanying the reproduced BGS materials: Contains British Geological Survey materials copyright NERC [year]. Contact us if you create something new and innovative that could benefit others



Mapbender3 - Wms Instance - Germany - Chromium

Mapbender3 - Wms Instar x

sandbox.mapbender3.org/manager/repository/application/demo/instance/3

Logged in as: root

v. 3.0.1.0

### Wms Instance - Germany

Origin URL Save Cancel  
 http://wms.wherogroup.com/cgi-bin/germany.xml?VERSION=1.1.1&REQUEST=GetCapabilities&SERVICE=WMS

Format\* image/png  Visible

Infoformat text/html  Proxy

Exceptionformat application/vnd.ogc.se\_xml  Transparency

Opacity\* 100  Tiled

Title	Minsc	Maxsc	Active	Select		Info		Toggle		Reorder
				allow	on	allow	on	allow	on	
			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Germany	1	9.99999460	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> ...
▶ topography	1	9.99999460	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> ...
▶ border	750000	124999932!	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> ...
▶ federal states	750000	7999996	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> ...
▶ places	0	8999995	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> ...





# Roles

Mapbender3 - New User - Chromium

Mapbender3 - New User x

sandbox.mapbender3.org/manager/user/new

Logged in as: root

v. 3.0.1.0

# Mapbender3

- ▶ Applications
  - ▶ New Application
- ▶ Services
  - ▶ Add Service
- ▶ User Control
  - ▶ Users
    - ▶ New User
- ▶ Groups
  - ▶ New Group
- ▶ ACLs

## New User

Base data | Profile | Groups | Security

Username\*

E-Mail\*

Choose password:\*

Confirm password:\*

Mapbender3 - New User - Chromium

Mapbender3 - New User x

sandbox.mapbender3.org/manager/user/new

Logged in as: root

v. 3.0.1.0

# Mapbender3

- ▶ Applications
  - ▶ New Application
- ▶ Services
  - ▶ Add Service
- ▶ User Control
  - ▶ Users
    - ▶ New User
- ▶ Groups
  - ▶ New Group
- ▶ ACLs

## New User

Base data Profile Groups Security

First name Astrid

Last name Emde

Notes

Phone 123

Organization Mapbender Team

Role Originator

Street

Zip code

City Bonn

Country Germany

Create Cancel

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Mapbender3 - demo - Chromium

Mapbender3 - demo

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

Logged in as: root

v. 3.0.1.0

**Mapbender3**




- ▶ Applications
  - ▶ New Application
- ▶ Services
  - ▶ Add Service
- ▶ User Control
  - ▶ Users
    - ▶ New User
  - ▶ Groups
    - ▶ New Group
  - ▶ ACLs

*demo*

Base data | Layout | Layers | Security

Publish

Filter

	view	edit	delete	operator	master	owner	
 Astrid Emde	view	edit	delete	operator	master	owner	✕
 root	view	edit	delete	operator	master	owner	✕
 IS_AUTHENTICATED_ANONYMOUSLY	view	edit	delete	operator	master	owner	✕

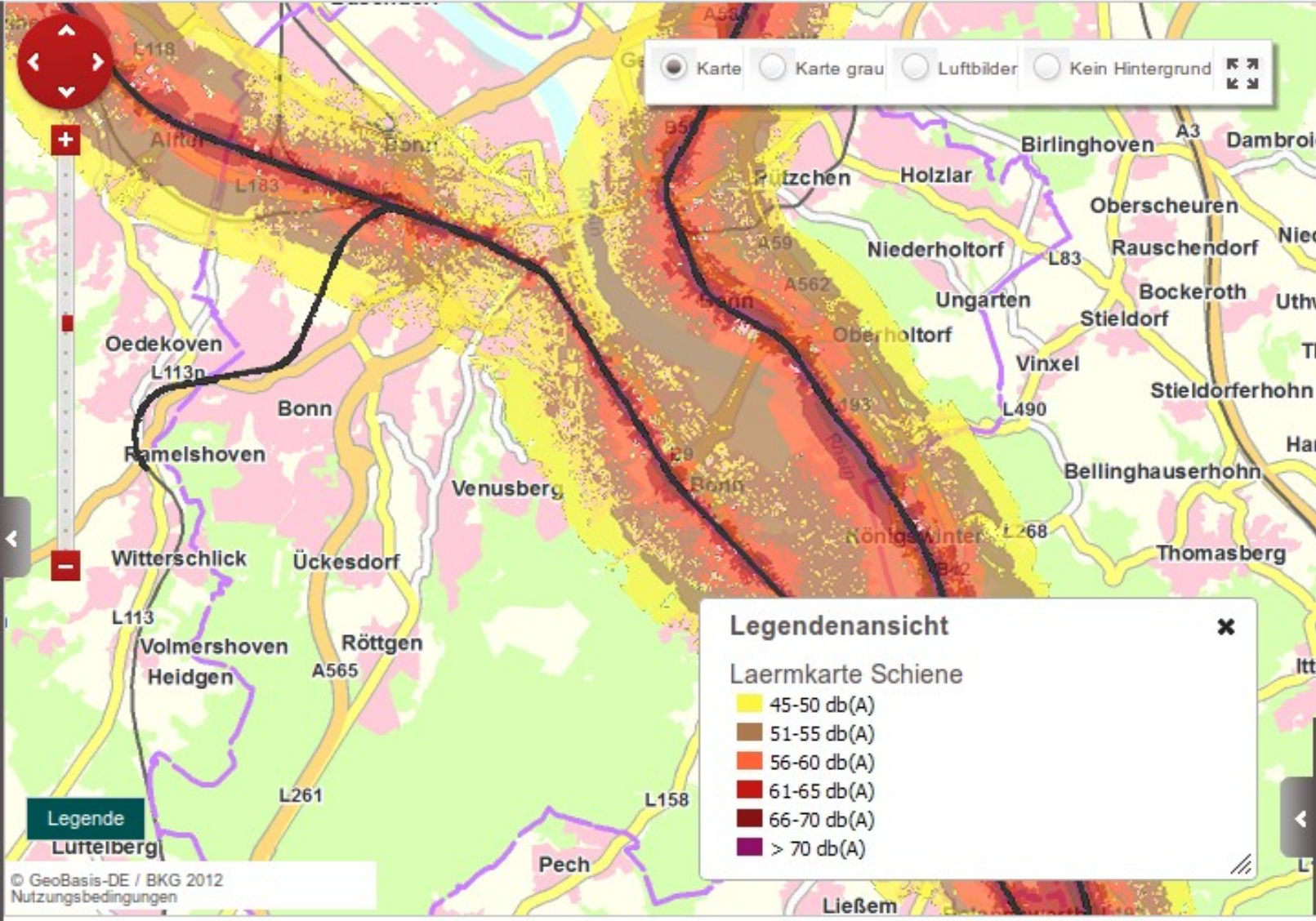
Save Cancel



Suche nach Karten:

Karte suchen

- Auswählbare Ebenen (2)**
- Eisenbahntrasse
  - Laermkarte Schiene



Maßstab 1: 100000

Koordinaten: x=369209 y=5619256

ETRS89 / UTM Zone 32N





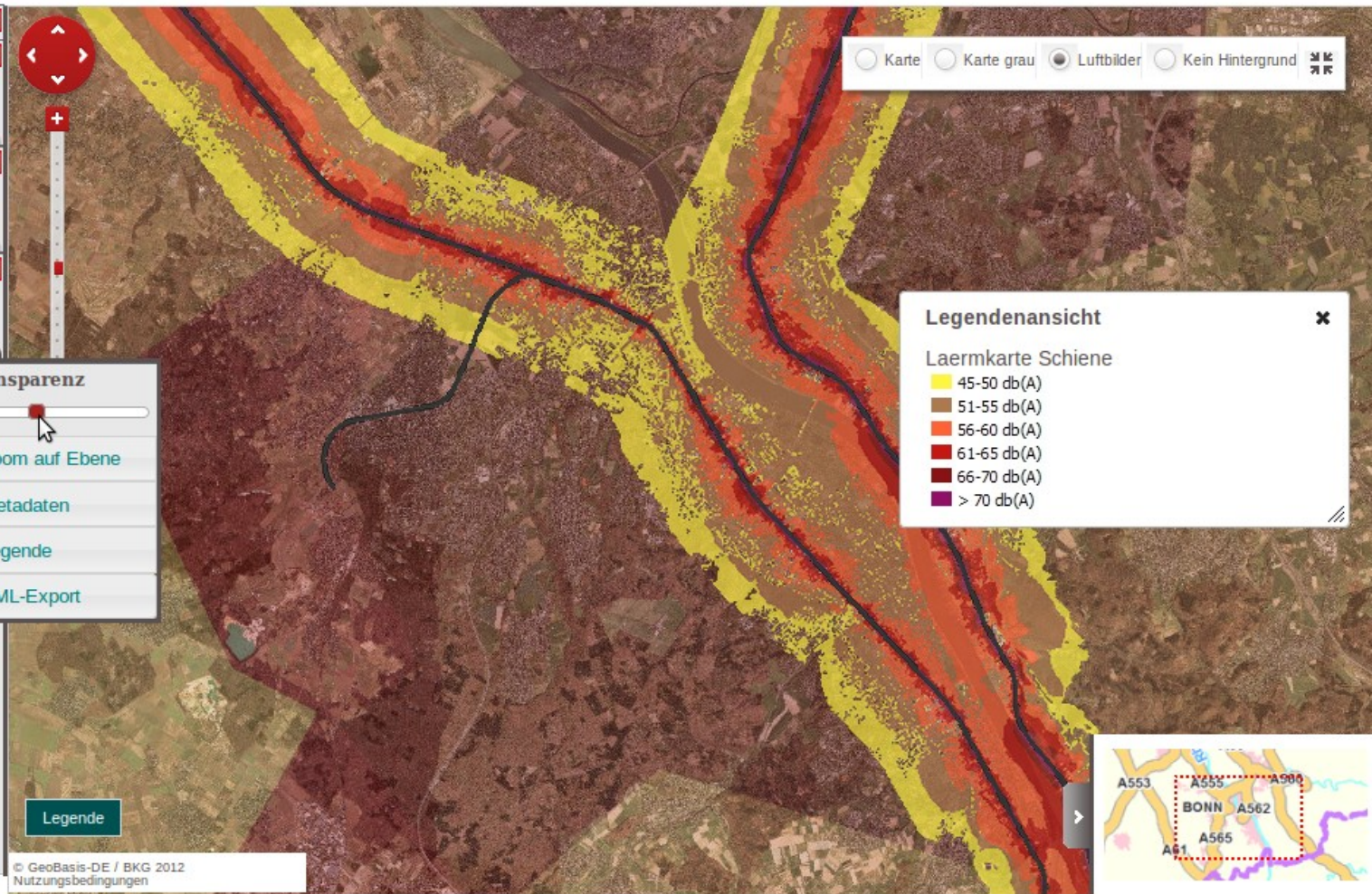
Suche nach Karten:

Karte suchen

Bonn

**Auswählbare Ebenen (3)**

- Eisenbahntrasse
- Laermkarte Schiene
- VBG\_Einwohnerdichte



Karte
  Karte grau
  Luftbilder
  Kein Hintergrund

**Legendenansicht**

Laermkarte Schiene

- 45-50 db(A)
- 51-55 db(A)
- 56-60 db(A)
- 61-65 db(A)
- 66-70 db(A)
- > 70 db(A)

**Transparenz**

Zoom auf Ebene

Metadaten

Legende

KML-Export

Legende

© GeoBasis-DE / BKG 2012 Nutzungsbedingungen



Maßstab 1: 100000

Koordinaten: x=-, y=-

ETRS89 / UTM Zone 32N





radwanderland  
Sattelfest durch Rheinland-Pfalz



Rheinland-Pfalz

Startseite

Radrouten

Radwegenetz

Routenplaner

A++ Kontakt Hilfe Impressum Über uns

Eingabe Start/Ziel... ?

Rheindiebach

Entfernung: 2,682 km

Über - oder Klick in Karte

Bacharach

Optionen ein-/ausblenden ?

Streckeninformationen ?

Entfernung: 2,682 km

Aufsteigend: 23 m

Absteigend: 22 m

Route umkehren

Route zurücksetzen

Details der Routenführung

Radwegenetz

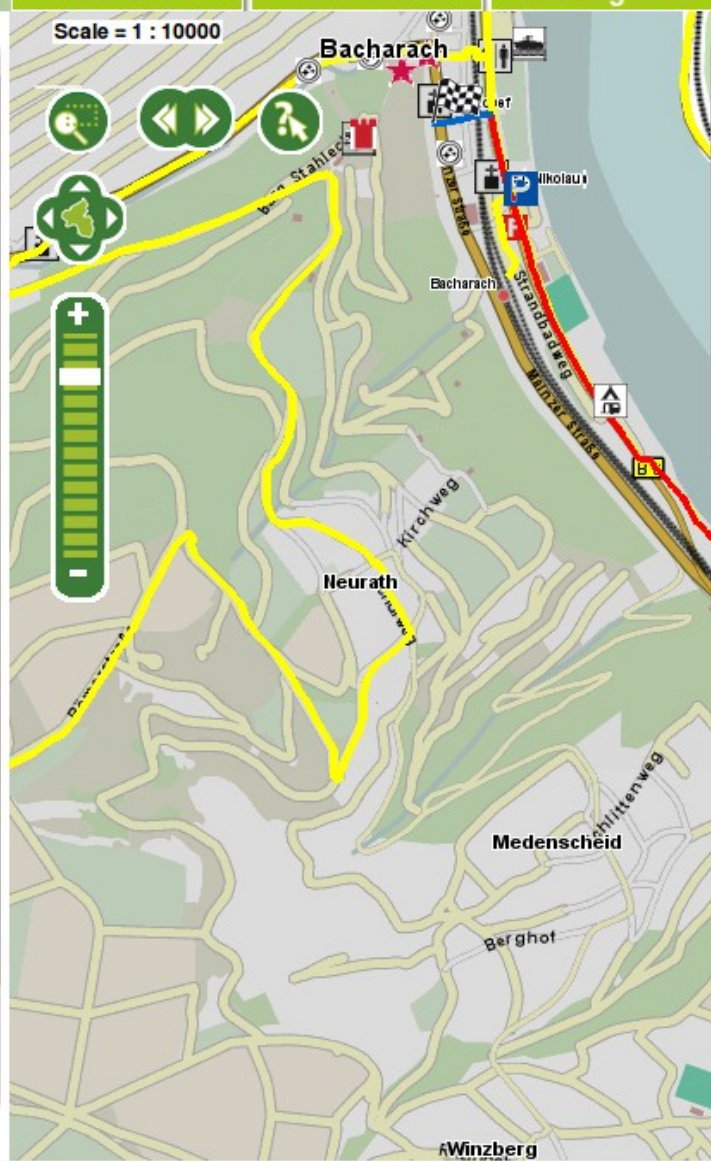
Verlauf auf Straßen

Verlauf außerhalb von Rheinland-Pfalz



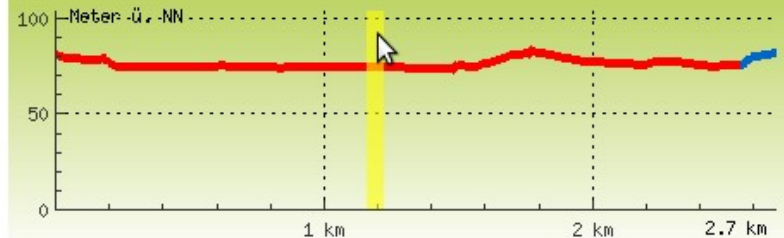
Einstellungen

Scale = 1 : 10000



Route

Höhenprofil





Startseite

Suche

offen, sympathisch, zukunftsorientiert  
**Lippe** GEOPORTAL



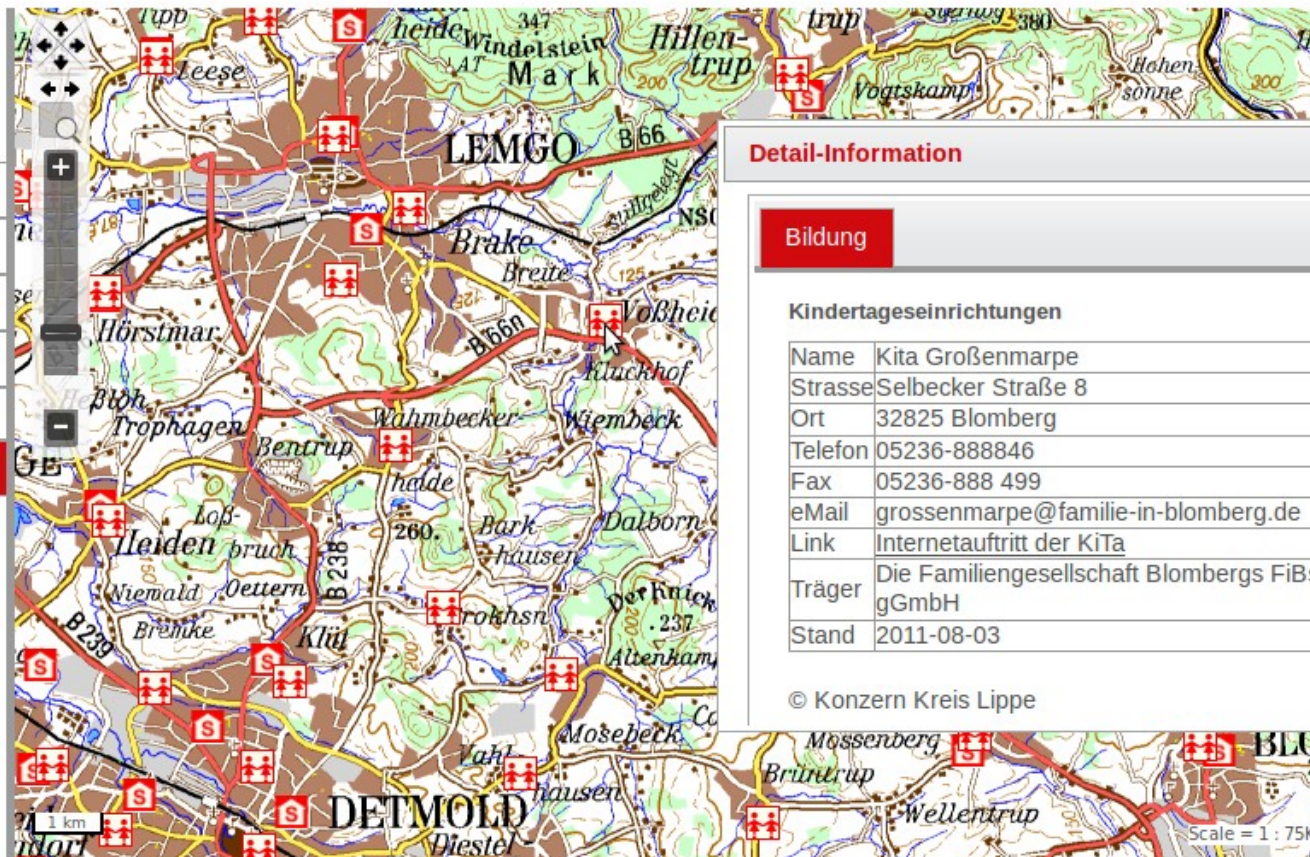
Thematische Auswahl

Allgemeine Suche

Adress- und Flurstücksuche

**Kartenanzeige**

Geoportal Kreis Lippe ▶ Kartenanzeige



Kartenebenen

WMS laden

Legende



**Information**

Detail-Information

Bildung

Kindertageseinrichtungen

Name	Kita Großenmarpe
Strasse	Selbecker Straße 8
Ort	32825 Blomberg
Telefon	05236-888846
Fax	05236-888 499
eMail	grossenmarpe@familie-in-blomberg.de
Link	Internetauftritt der KiTa
Träger	Die Familiengesellschaft Blombergs FiBs gGmbH
Stand	2011-08-03

© Konzern Kreis Lippe

Koordinaten:x= 497390.25764 y= 5761806.09429

© Copyright

ETRS89 / UTM Zone 32N

Scale = 1 : 75K





Mapbender3 - Windatlas Rheinland-Pfalz - Chromium

Mapbender3 - Windatlas F x

www.windatlas.rlp.de/windatlas/

# Windatlas Rheinland-Pfalz

**Rheinland-Pfalz**  
MINISTERIUM FÜR WIRTSCHAFT,  
KUMASCHUTZ, ENERGIE UND  
LANDESPLANUNG

### KARTENAUSWAHL

- 100 Meter über Grund
- 120 Meter über Grund
- 140 Meter über Grund
- 160 Meter über Grund
- 80%-Referenzertrag bei 140m über Grund

### LEGENDE

mittlere Windgeschwindigkeit [m/s]

< 5.0
5.0 - 5.2
5.2 - 5.4
5.4 - 5.6
5.6 - 5.8
5.8 - 6.0
6.0 - 6.2
6.2 - 6.4
6.4 - 6.6
6.6 - 6.8
6.8 - 7.0
7.0 - 7.2
7.2 - 7.4
7.4 - 7.6
7.6 - 7.8
7.8 - 8.0

### WINDATLAS

Der Windatlas dient den Regionen und Kommunen als eine wichtige Grundlage zur Ausweisung von Vorranggebieten bzw. zur Darstellung der Sonderbauflächen für die Windenergienutzung. Er soll dazu beitragen, bei planungsrechtlich geeigneten Flächen die windhöffigsten potenziellen Standorte zu bestimmen.

Auf der Grundlage der Teilfortschreibung des LEP IV weisen die Planungsregionen Vorrang- und Ausschlussgebiete aus. Hierbei haben sie außerdem den Auftrag, innerhalb der vom LEP IV definierten historischen Kulturlandschaften auf der Grundlage eines vom Land vergebenen Gutachtens die dortigen Ausschlussgebiete zu definieren. Das Gutachten wird derzeit erarbeitet. Die Planungsregionen haben seit dem 11.05.2013 einen Zeitraum von 18 Monaten, um ihre Regionalpläne anzupassen.

[Ausschlüsse und Beschränkungen der Windenergienutzung \(ca. 2.9 MB\)](#)

Die Kommunen können parallel hierzu auf der Grundlage der Teilfortschreibung des LEP IV ihre Flächennutzungspläne aufstellen bzw. fortschreiben. Für die noch zu konkretisierenden Ausschlussgebiete ist eine intensive Abstimmung



## Which components does Mapbender3 use?

- **Symfony2 as PHP framework**
  - **Doctrine, Twig, Monolog, Bootstrap...**
  - **Bundles**
- **OpenLayers**
- **MapQuery**
- **jQuery**
- **SQLite, PostgreSQL, MySQL, Oracle database**



## Next steps

- Roadmap <http://mapbender3.org/de/roadmap>
- WFS as datasource
- Service update
- SQL / WFS digitalisation
- SQL / WFS search and Lucene search
- WMC editor / loader
- Mobile solution

Willkommen auf mapbender3.org | mapbender3.org - Chromium

Willkommen auf mapbender3.org

mapbender3.org

Download

Home Was ist Mapbender3? Los geht's Dokumentation Community Download

Suche nach Karten:

Karte suchen

Auswählbare Ebenen (3)

- Eisenbahntrasse
- Laermkarte Schiene
- VBG\_Einwohnerdichte

Geoportal.DE

http://www.geoportal.de/

Karte Karte grau Luftbilder Kein Hintergrund


Willkommen auf mapbender3.org


**Willkommen auf der Mapbender3-Seite**

Mapbender ist ein Content Management System für Kartenanwendungen und Geodatendienste. Die Software ist in PHP und JavaScript implementiert. Mapbender wird mit vorkonfigurierten Anwendungen zur Anzeige, Navigation und Abfrage von Karten ausgeliefert. Alle Anwendungen können über die Weboberfläche den eigenen Bedürfnissen angepasst oder komplett neu implementiert werden.

Mapbender3 ist der Nachfolger der erfolgreichen Mapbender Version 2 und basiert auf aktuellen Technologien wie dem Web Application Framework Symfony2, JQuery und OpenLayers.

[Weiterlesen](#)

 17.-23. September 2013



Mapbender ist ein offizielles OSGeo-Projekt.

Chloh 20 Developers

Mapbender.org

Mapbender3 Astrid Emde FOSS4G 2013 Nottingham





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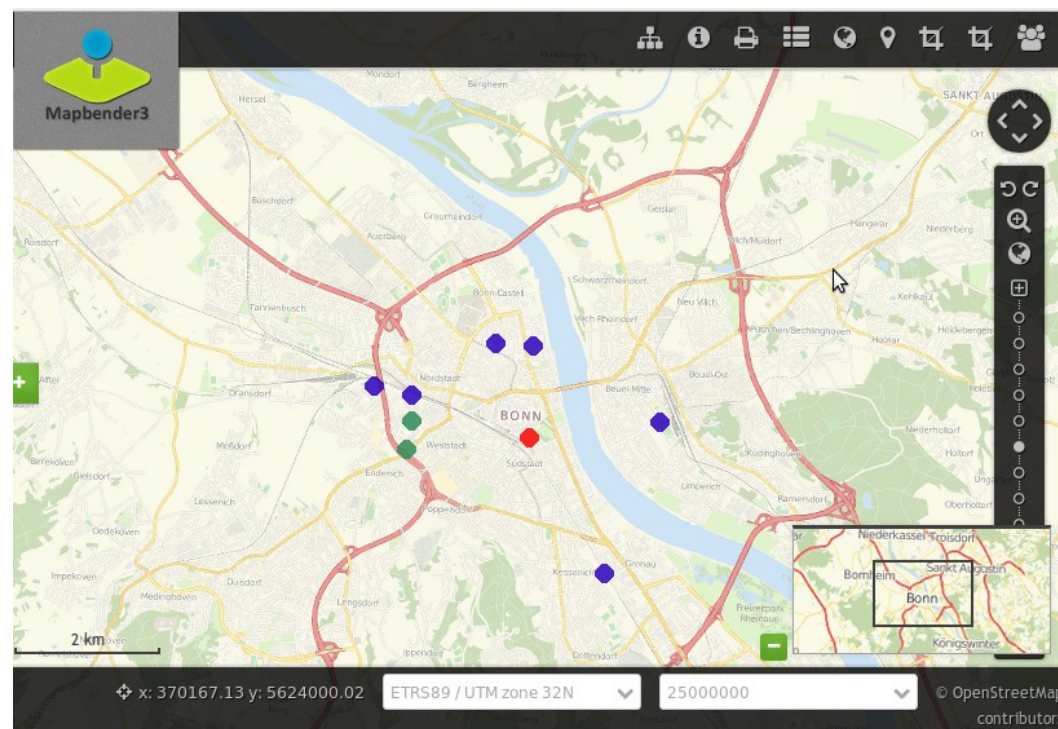


# Mapbender3 Demo

Try it yourself

<http://mapbender3.org/demo/>

Mapbender 3.0.0.2 on  
OSGeo-Live 7.0





# Installation

**Download packages**

<http://mapbender3.org/en/download>

**git repositories**

<https://github.com/mapbender/mapbender-starter>

**Documentation of installation and elements**

<http://doc.mapbender3.org>



## More information

- <http://mapbender3.org>
- Mapbender3 Code <http://github.com/mapbender>
- Roadmap <http://mapbender3.org/de/roadmap>
- Issuetracker <https://github.com/mapbender/mapbender/issues>



**Thank you**

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