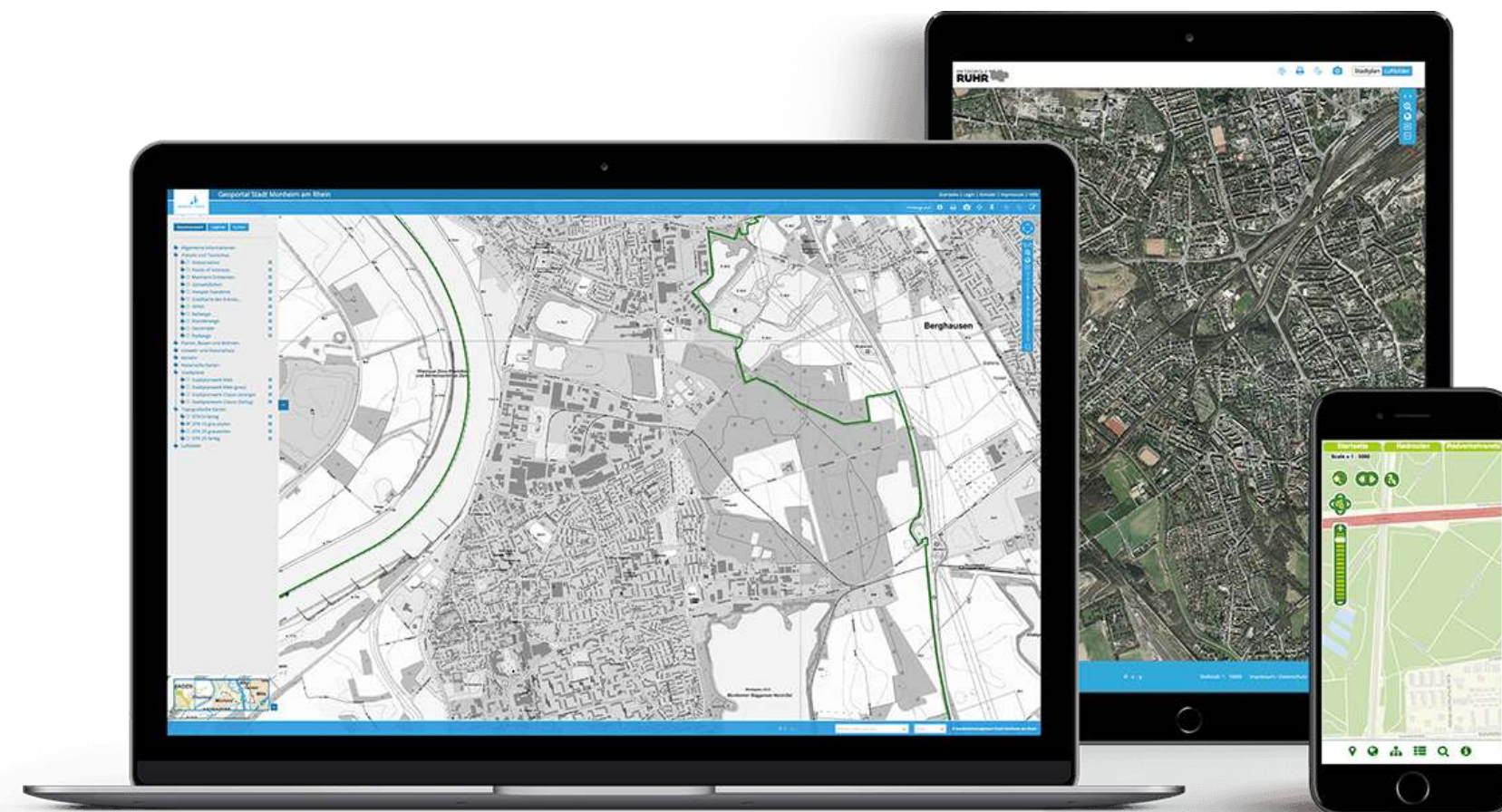


Create great applications for your need with Mapbender

Astrid Emde (WhereGroup) | FOSS4G 2021 Buenos Aires Online



Astrid Emde

WhereGroup Bonn since 2002
focus on WebGIS & Webmapping consultancy &
trainer at FOSS-Academy
PostgreSQL/PostGIS, MapServer, GeoServer,
QGIS, QGIS Server, Mapbender, PostNAS-Suite
OSGeo Board, FOSSGIS e.V., Mapbender PSC,
OSGeoLive PSC, QGIS-DE

astrid.emde@wherogroup.com



> 40 employees

developers, consultants & geospatial experts

Bonn – Berlin - Freiburg - Hamburg

Open Source Software Solutions since > 15 years

Company behind Mapbender, Metador & Mops

FOSSGIS e.V. member & OSGeo sponsor

We are hiring!

<https://wherogroup.com>

<https://foss-academy.com>



Mapbender

Easy to configure!

- ▶ WebGIS Client Suite with administration web interface
- ▶ Create a geoportal without writing a single line of code!
- ▶ Any number of applications with only one installation
- ▶ Create and maintain an OWS repository
- ▶ Distribute configured services among applications
- ▶ Grant users and groups access to applications and services
- ▶ Supports several languages and you can support your language
- ▶ <https://mapbender.org/en/about-mapbender/>

Mapbender

- ▶ OSGeo project since 2006
- ▶ MIT License
- ▶ Code on GitHub



Olaf Knopp
Mapbender Chair

As the Managing director of WhereGroup and Mapbender project manager, he is responsible for both the fundamental conceptual direction of the software and team cohesion.



Astrid Emde
Member of the PSC

As a recognised Mapbender expert, she has been involved in numerous Mapbender implementation projects, and has held a wealth of workshops and trainings on the subject. Moreover, she is active in quality assurance, testing and OSGeoLive.



David Patzke
Member of the PSC

A creative software developer with extensive Mapbender project experience, he has in depth knowledge of Mapbender and its daily use.



Nindya Haspari
Mitglied des PSC

Youngest team member and expert in UI design. She takes care of front-end issues.



Rolf Neuberger
Member of the PSC

Technical head with a wealth of passion and enjoyment for detail.



Frederik Häfker
Member of the PSC

As a specialist for Mapbender in real world deployment - his core work is its integration into existing systems and workflows covering all aspects of the software.



Marcel Normann
Member of the PSC

As the technical director at WhereGroup, he keeps an eye on the macro architecture and makes sure that everything flows smoothly.



Jörg Thomsen
Mitglied des PSC

As a consultant and trainer Jörg has been involved in setting up and configuring numerous applications for many years.



Mapbender

The Architecture

- ▶ PHP Framework Symfony
- ▶ HTML
- ▶ Bootstrap
- ▶ OpenLayers as map client
- ▶ YAML configuration



Mapbender

Requirements for your installation

- ▶ Running on your server
- ▶ Needs a WebServer like Apache HTTP Server or NGINX
- ▶ Needs PHP
- ▶ Database for administration i.e. SQLite or PostgreSQL

Mapbender Functionality

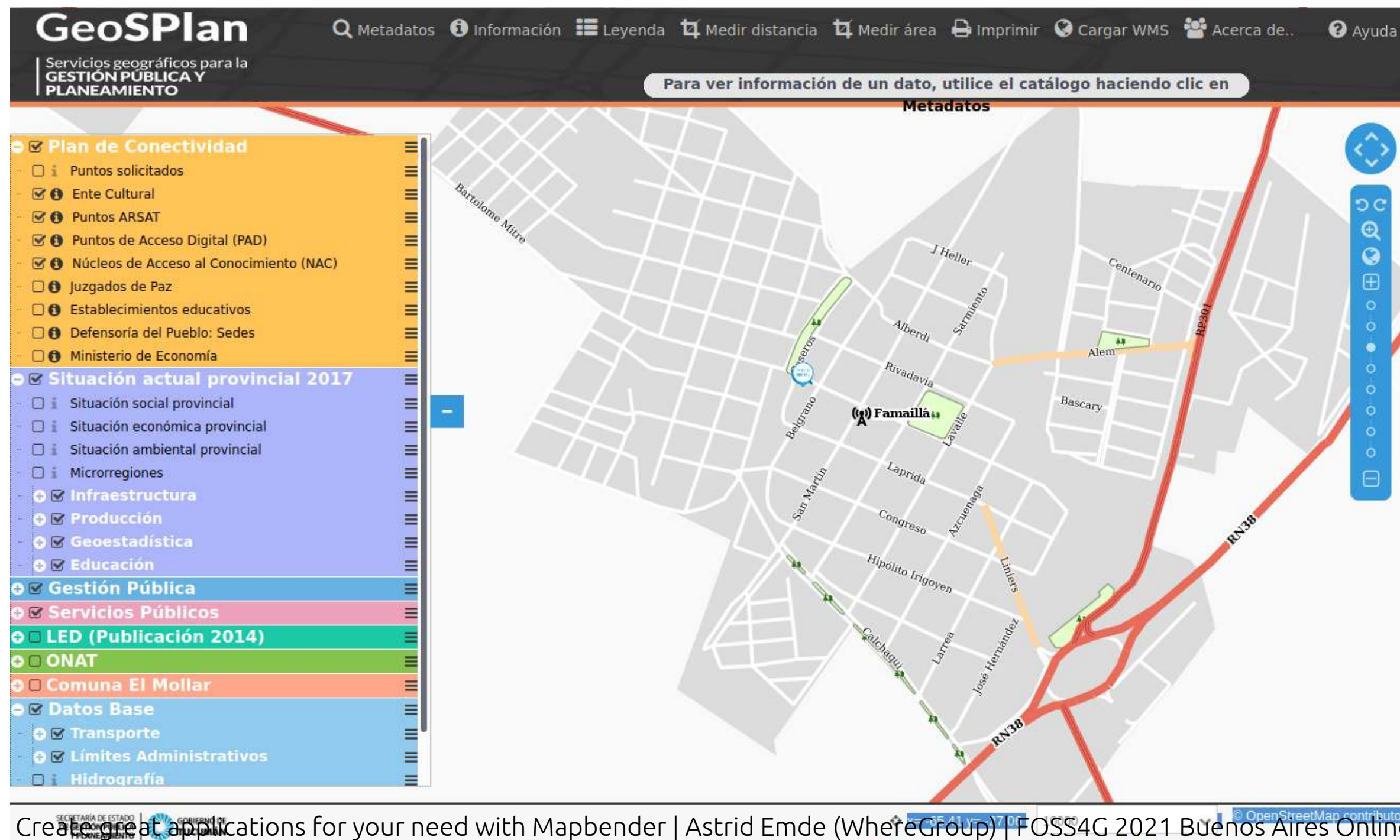
Offers many features that you can combine.

- ▶ Offers elements to visualize, create and edit data.
- ▶ Search & print functionality & much more
- ▶ <https://mapbender.org/en/features/>

Mapbender Gallery

Get inspired

- ▶ <https://mapbender.org/en/showcase/>
- ▶ Mapbender is in Argentina! Gobierno de Tucumán <http://geosplan.tucuman.gob.ar/>



Mapbender

Applications

Offers template applications

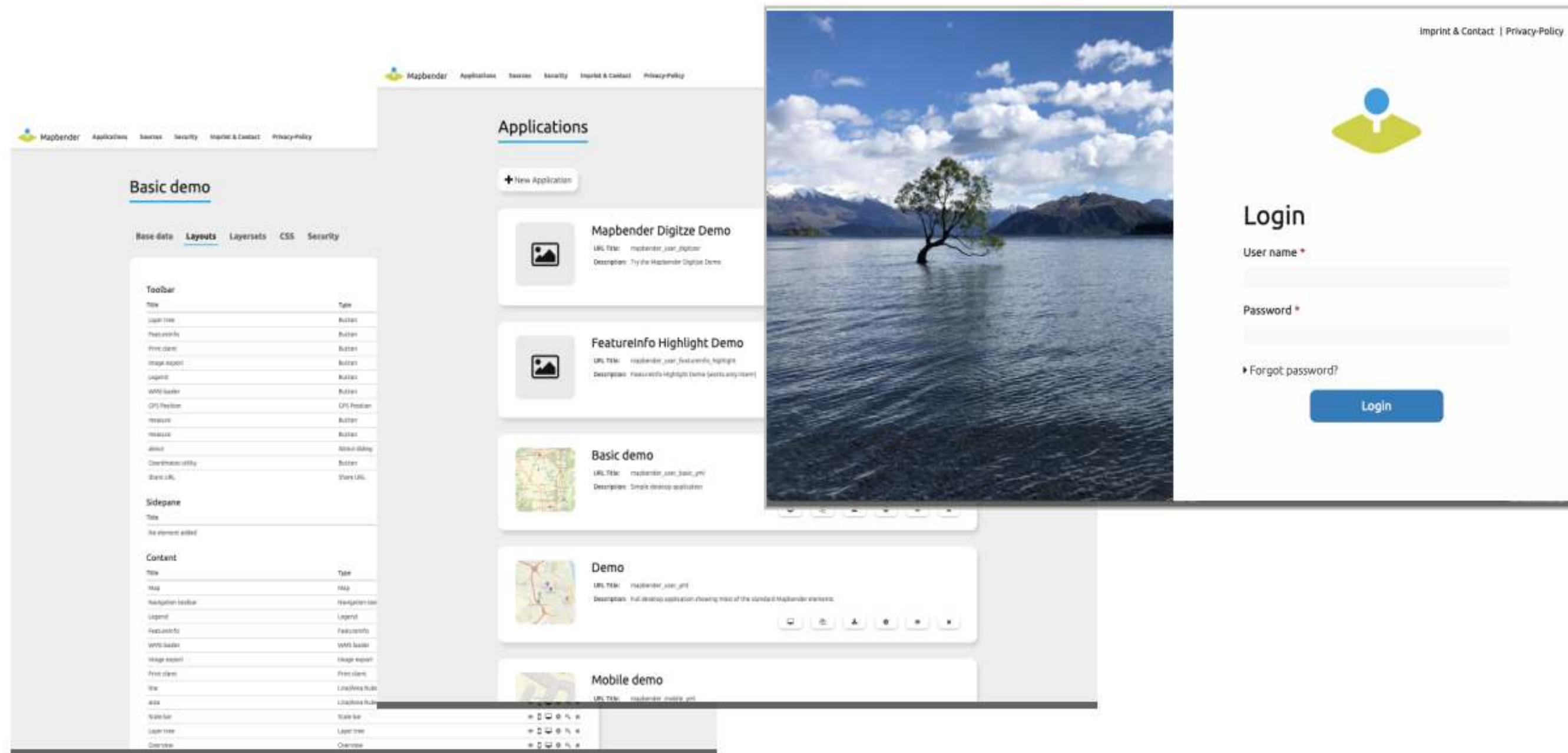
- ▶ Template applications demonstrate the functionality
- ▶ Create a copy & build your own application
- ▶ <https://demo.mapbender.org/>

Mapbender

New Design

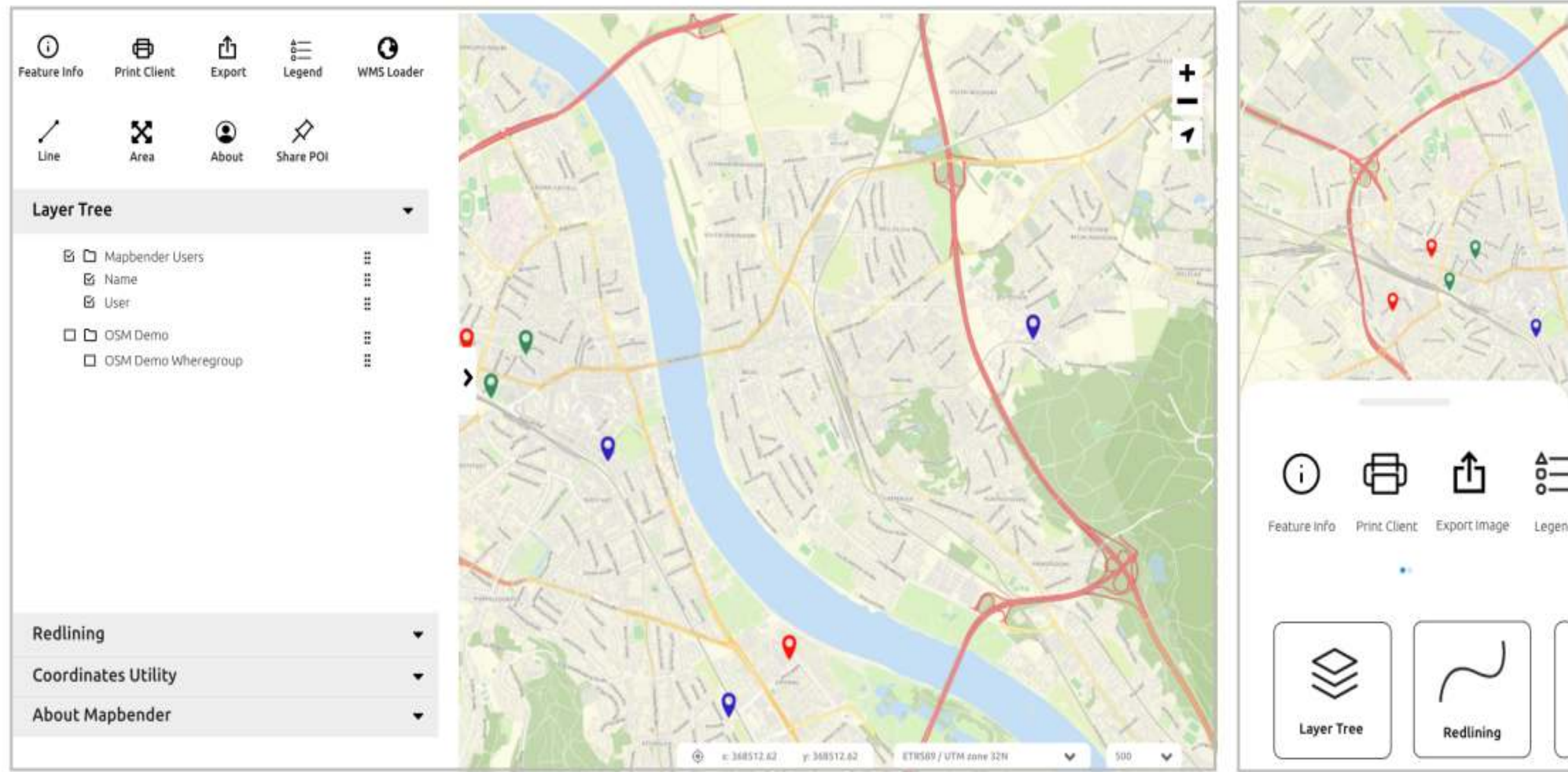
Mapbender

New Backend Design



Mapbender

New Frontend Design is on the way



Mapbender

New functionality

Mapbender

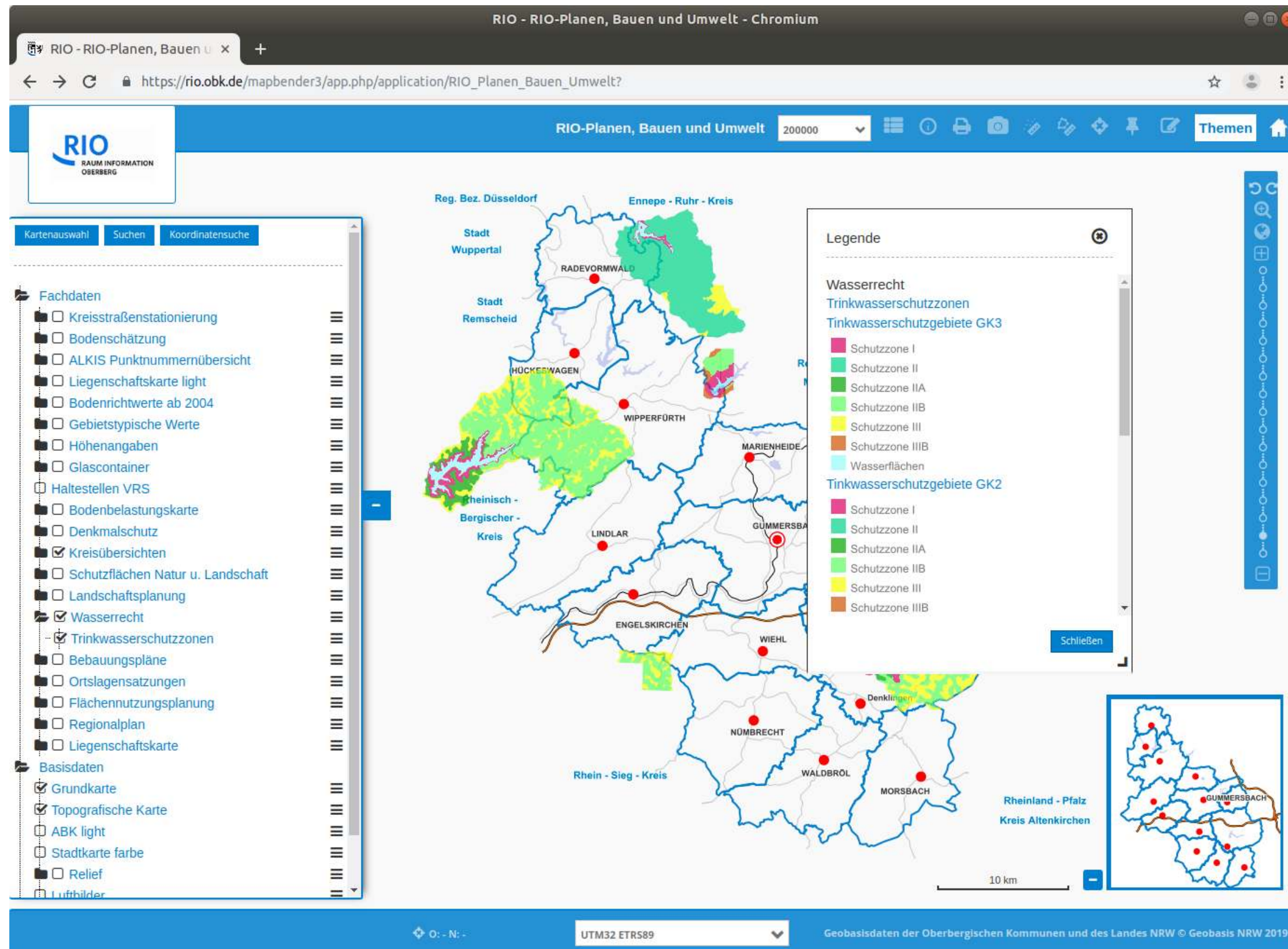
New functionality

- ▶ Shared Instance
- ▶ Applications Switcher
- ▶ FeatureInfo Highlight
- ▶ Improved navigation
- ▶ Share & View manager
- ▶ Easy integrate HTML
- ▶ Simple search now supports Solr, Nominatim, Photon & OGC API Feature

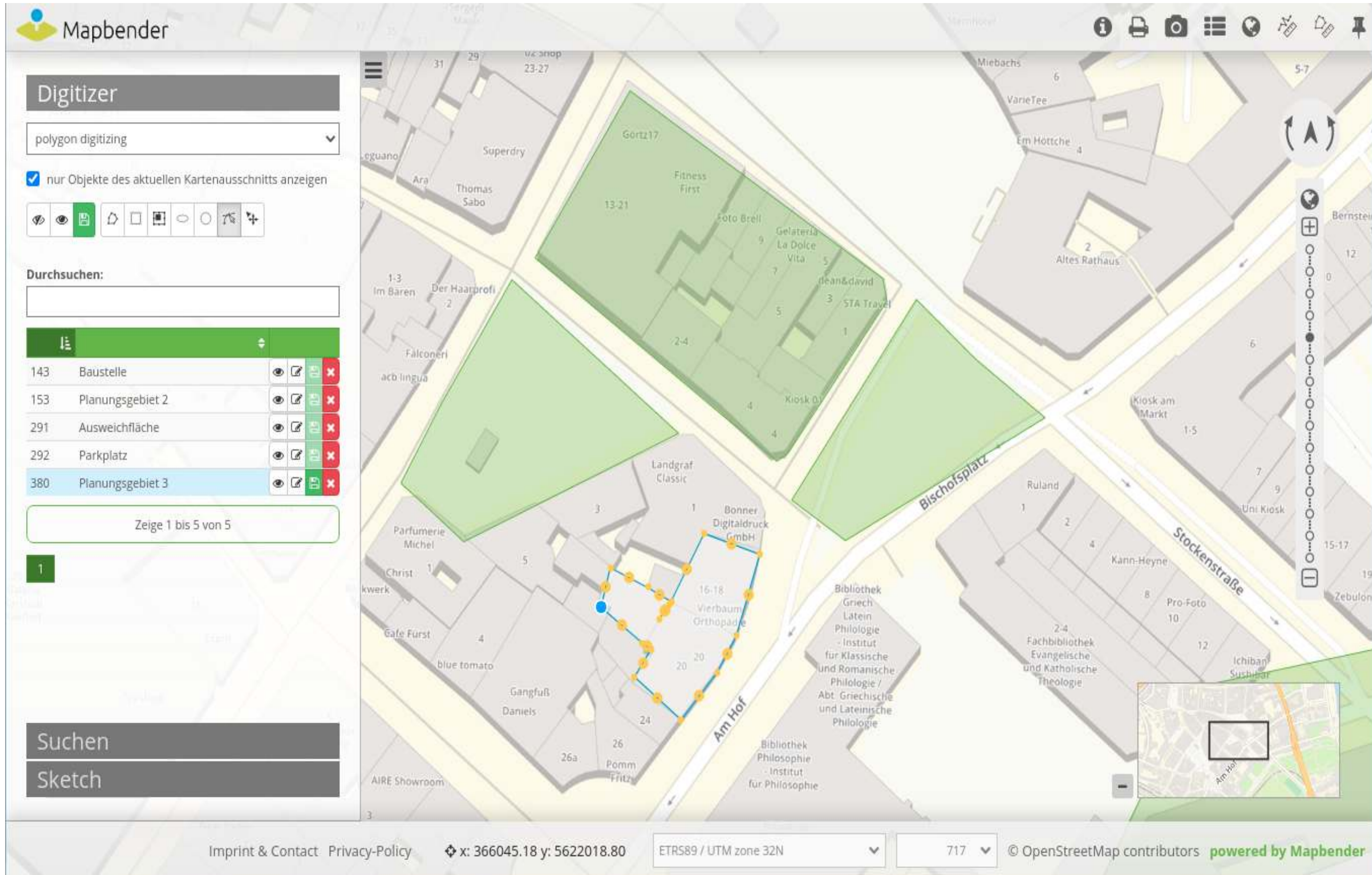


Mapbender RIO

<https://rio.obk.de/>



Mapbender Digitizer & Data Manager



The screenshot shows the Mapbender Digitizer web application. The interface includes a left sidebar with a 'Digitizer' section, a search bar, and a list of objects. The main map area displays a street map with a digitized polygon (yellow outline) and various toolbars for navigation and editing. The bottom status bar shows coordinates, projection, and scale.

Digitizer

polygon digitizing

☒ nur Objekte des aktuellen Kartenausschnitts anzeigen

Durchsuchen:

ID	Name	Visibility	Edit	Delete
143	Baustelle	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
153	Planungsgebiet 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
291	Ausweichfläche	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
292	Parkplatz	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
380	Planungsgebiet 3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Zeige 1 bis 5 von 5

Suchen

Sketch

Imprint & Contact Privacy-Policy

x: 366045.18 y: 5622018.80

ETRS89 / UTM zone 32N

717

© OpenStreetMap contributors powered by Mapbender

Mapbender Digitzer

Baumkontrolle

Bäume

☒ nur Objekte des aktuellen Kartenausschnitts anzeigen.

Search:

Nr.	Baum
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'

Suchen

Thema

Abfragen

Bäume

Kontrolle

Pflege

Stammdaten

Krone

Stamm

Stammfuß

Baumart

Nr. 308

TILIA 'GREENSPIRE' (STADT-LINDE)

Bemerkungen zum Baum

Lage

Theodor-Körner-Straße (Straßenbegleitgrün)

Standort Bemerkung

gegenüber hausnummer 1

Zustand

Baum vorhanden

Vitalität

Sep

2015

Mo	Di	Mi	Do	Fr	Sa	So
		1	2	3	4	5
	7	8	9	10	11	12
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

Bestandsaufnahme Bemerkung

Kontrollintervall Stufe

C - 2 Jahre

Zeitpunkt

letzte Kontrolle: 11.03.2015

Speichern

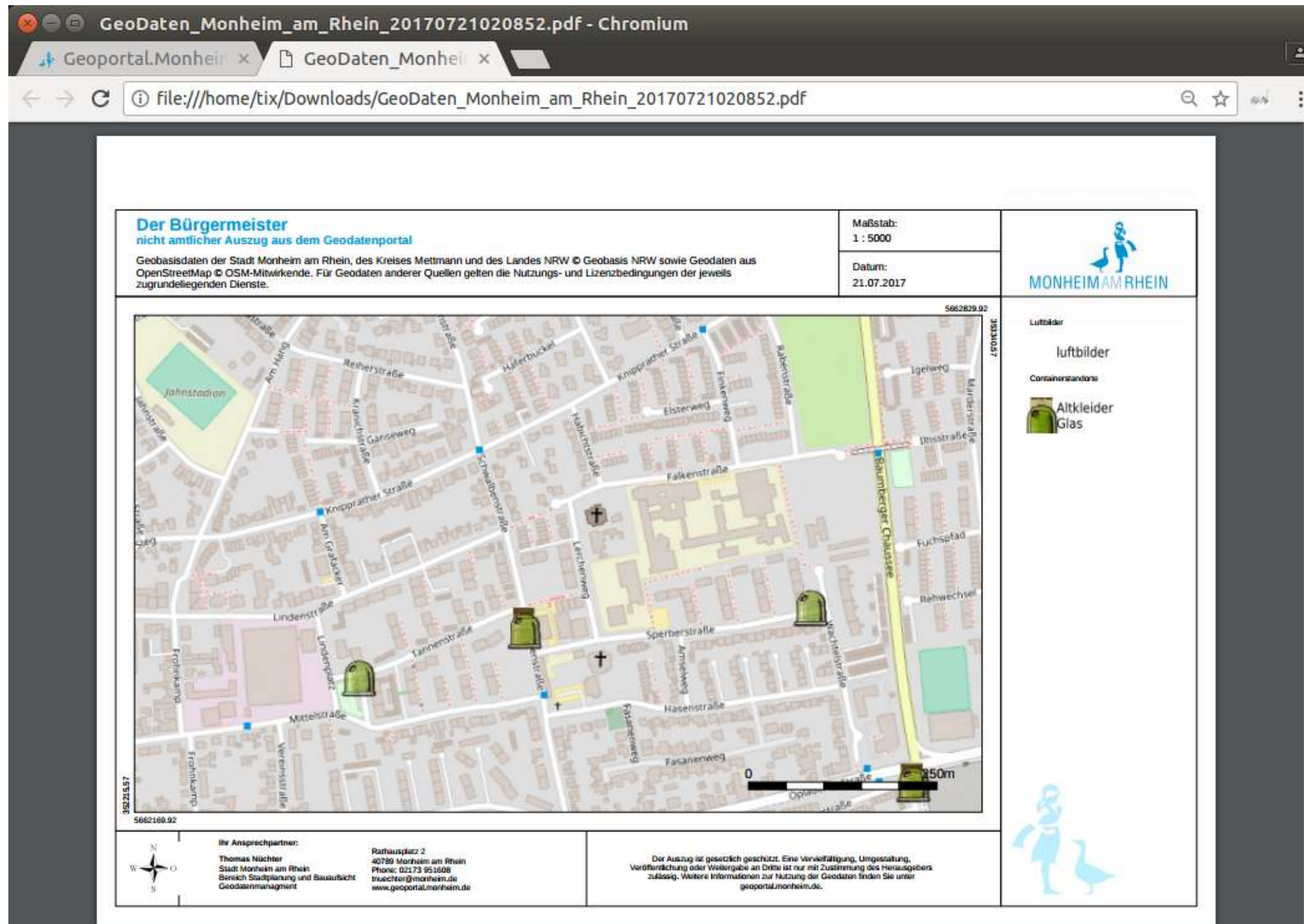
Löschen

Abbrechen


The screenshot displays the Mapbender Print web application interface. On the left, a sidebar titled "Druck" (Print) contains the following settings:

- Vorlage** (Template): A4 Portrait
- Qualität** (Quality): Document (288dpi)
- Maßstab** (Scale): 1:1000
- Drehung** (Rotation): 10
- Title ***: Druck
- ☒ **Legende drucken** (Print legend)
- Buttons**: Drucken (Print), Abbrechen (Cancel)

The main area shows a map of Bonn, Germany, with a red dashed rectangle and a blue polygon overlaid. The bottom of the interface includes a scale bar (50 m), a status bar with "Imprint & Contact", "Privacy-Policy", "x: - y: -", "ETRS89 / UTM zone 32N", "1713", "© OpenStreetMap contributors", and "powered by Mapbender".



Mapbender Print Queue

 Mapbender

Druck

Einstellungen

Druckaufträge


#	Erzeugt	Status	
18	11.11.2020 10:56:00	in Warteschleife	⚙️ ✖
17	6.11.2020 14:13:52	fertig	🖨️ ✖
16	6.11.2020 13:12:24	fertig	🖨️ ✖
13	6.11.2020 12:11:48	fertig	🖨️ ✖
12	6.11.2020 12:07:49	fertig	🖨️ ✖
11	6.11.2020 12:06:38	fertig	🖨️ ✖
10	6.11.2020 12:02:19	fertig	🖨️ ✖
9	6.11.2020 12:02:11	fertig	🖨️ ✖
8	6.11.2020 12:00:21	fertig	🖨️ ✖
7	6.11.2020 11:59:36	fertig	🖨️ ✖
6	6.11.2020 11:58:38	fertig	🖨️ ✖

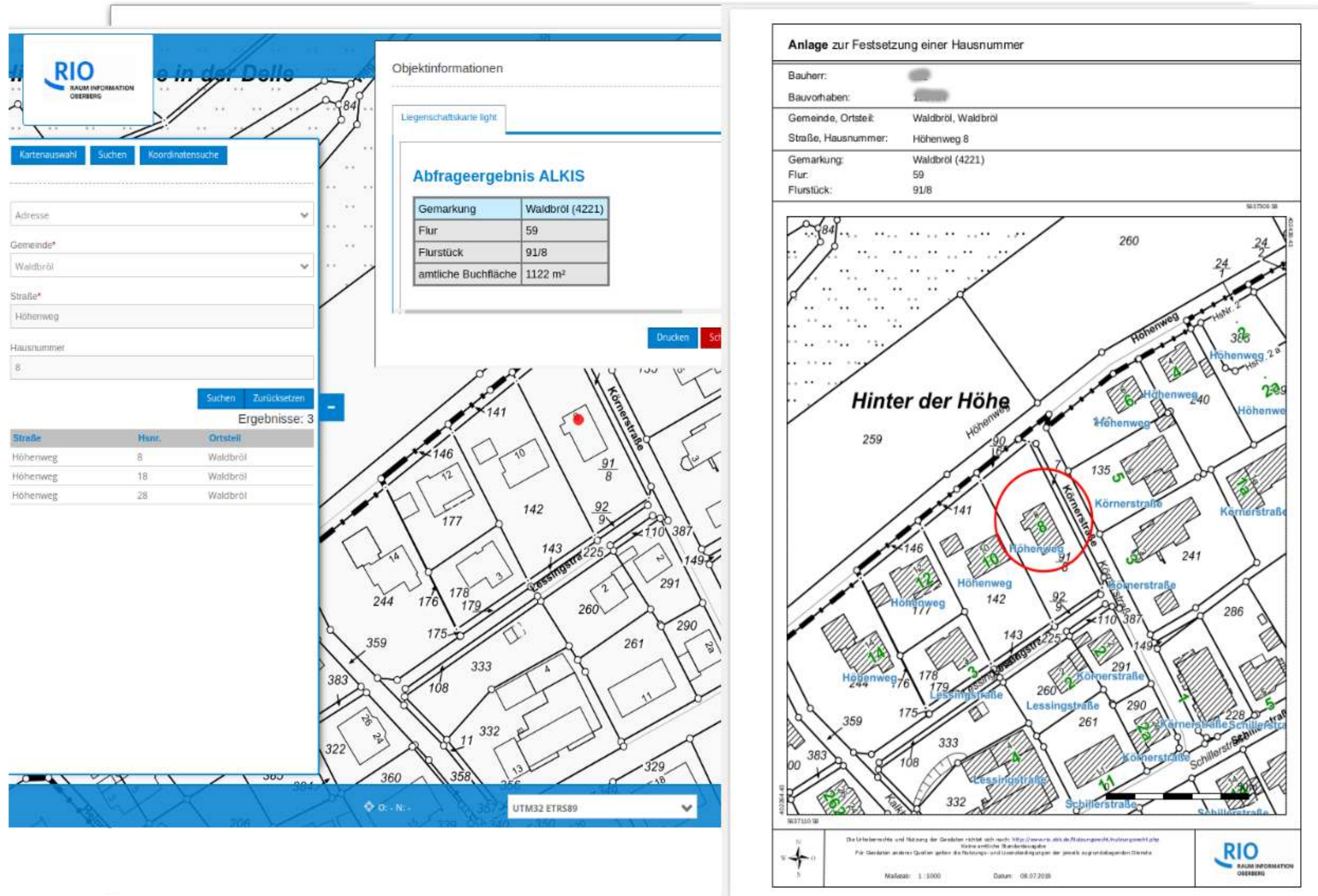
Ebenenbaum

Redlining

Koordinaten Utility

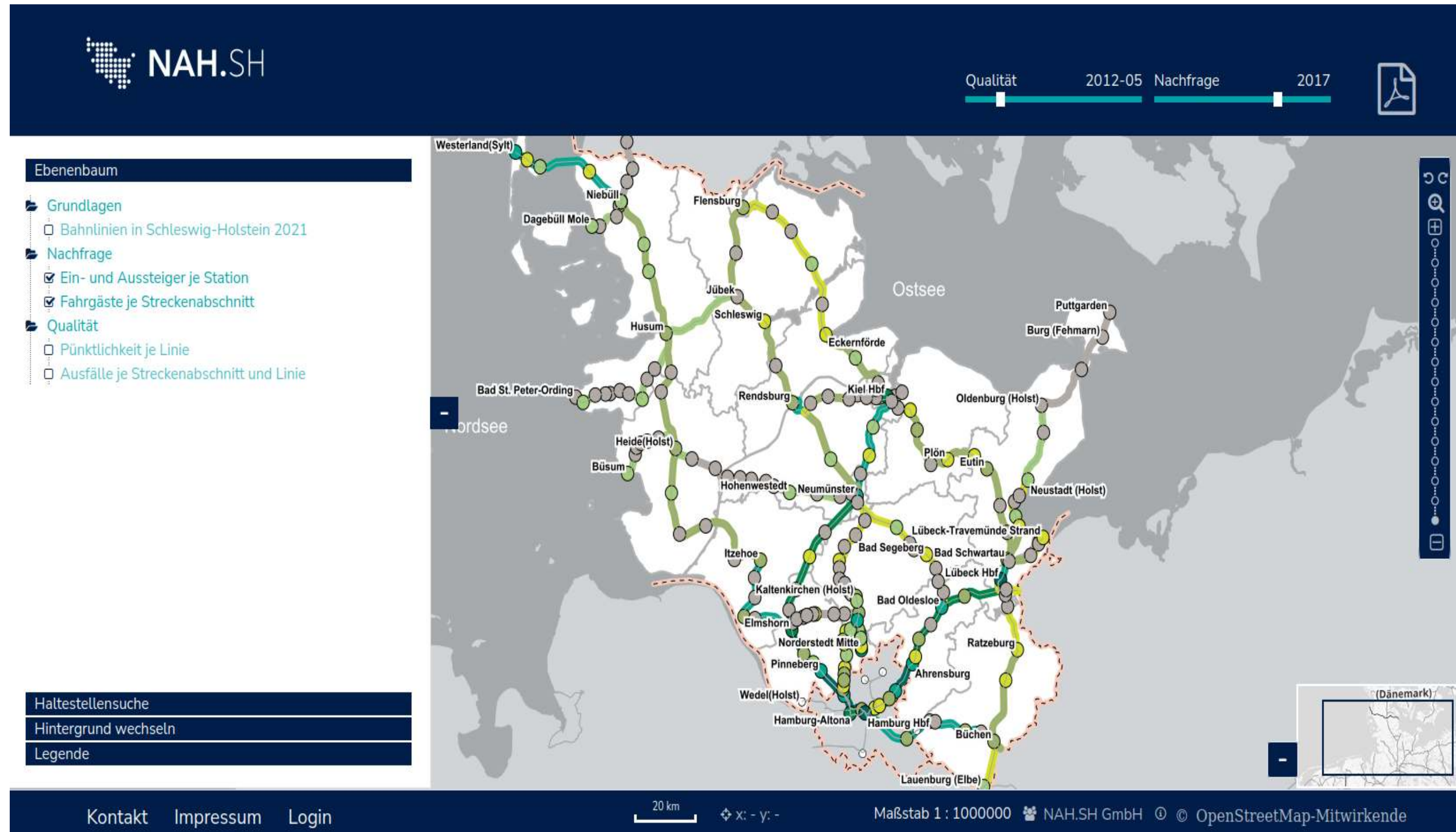
About Mapbender





Mapbender Dimensions Handler

Support for WMS Time



Mapbender

Modify the Design

Mapbender Demo

Base dataLayoutsLayersets**CSS**Security

```
1 .html-element-titel{
2   font-size: 1.2em;
3   font-weight: normal;
4 }
5
6 .popupContainer .popup {
7   left: 160px;
8 }
9
10 .modal-body hr {
11   display: block;
12   clear: both;
13   height: 0px;
14   background-color: #c0c0c0;
15   border-bottom: 0px solid #ffffff;
```

View

SaveCancel

Mapbender

Write your own functionality

Mapbender on OSGeoLive

Try Mapbender on OSGeoLive



https://live.osgeo.org/en/overview/mapbender_overview.html

Thank you

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FOSS4G 2021 Slides / Video: <https://callforpapers.2021.foss4g.org/foss4g2021/talk/DJSPPQ/>