



QGIS Web Client (QWC) – Neues aus dem Projekt

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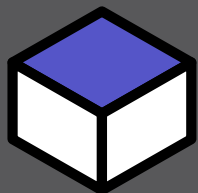
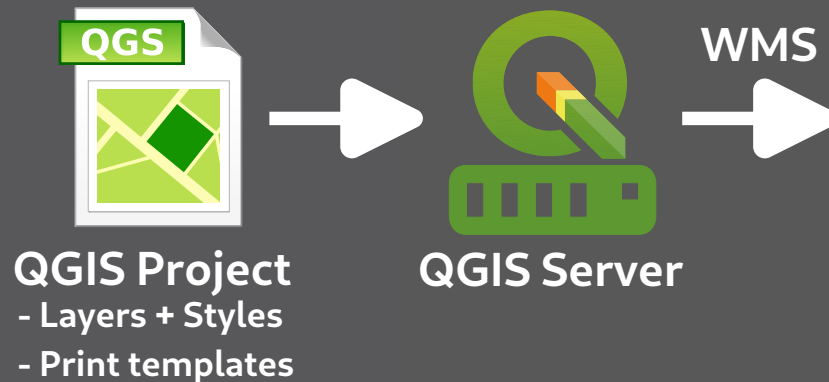


QWC

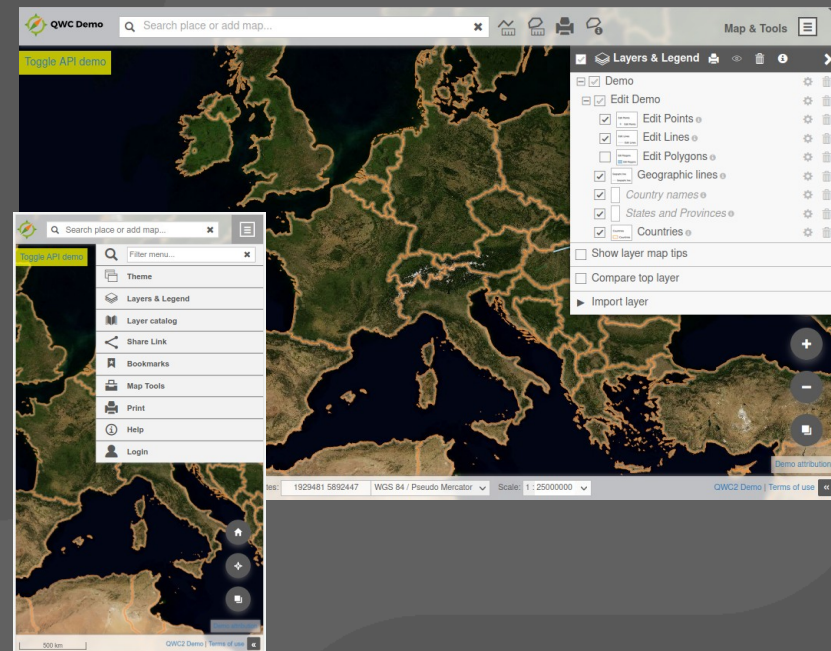
- Auf QGIS Server abgestimmter modularer Webclient
- ReactJS + OpenLayers + Three.js
- Statische HTML/JS/CSS Webanwendung

qwc-services

- Microservices zur Erweiterung der Funktionalität

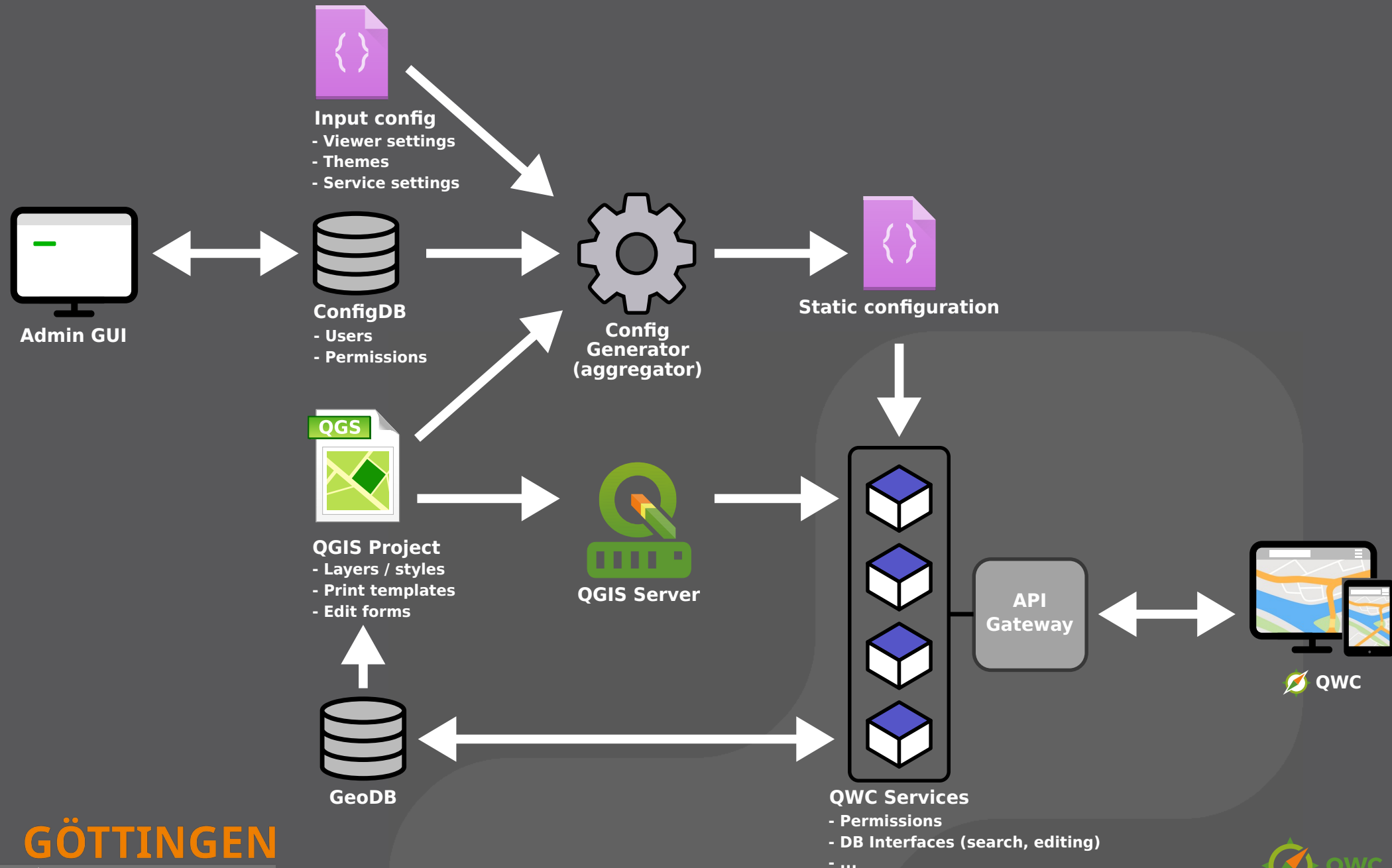


- Rechteverwaltung
- Editieren
- Permalinks
- ...





Architektur





Quellcode und Betrieb

› Quellcode auf GitHub

- › <https://github.com/qgis/qwc2>
- › <https://github.com/qwc-services/>

› Deployment als Dockeranwendung

- › <https://github.com/qwc-services/qwc-docker>
- › Long Term Release mit 1 Jahr Bugfixing
 - › Tags: v2026.x-lts bzw. latest-2026-lts
- › Entwicklungsreleases
 - › Tags: vYYYY-MM-DD (z.B. v2026.03.13) bzw. latest

› Custom deployments (z.B. Apache + mod WSGI)



Funktionsübersicht

Auch auf der neuen Projektwebsite!

<https://qwc.app/>



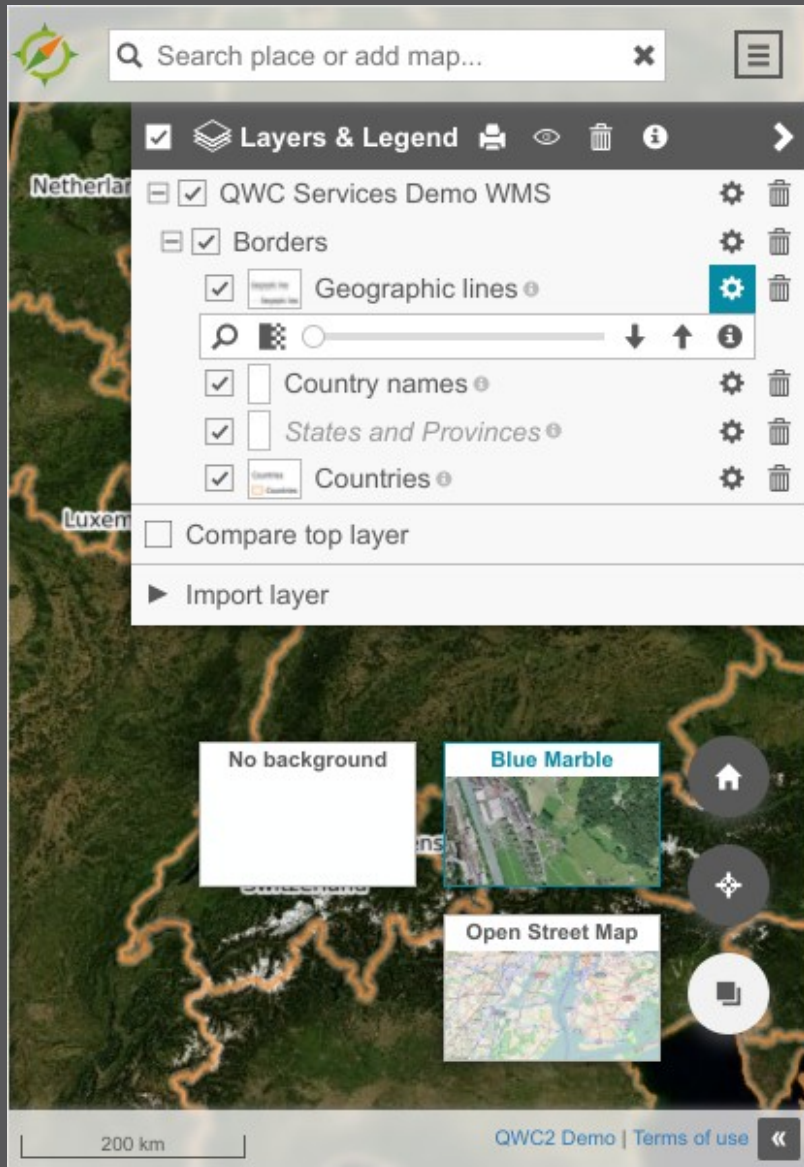
QWC Features - Theme Switcher



- Ein Thema entspricht einem publizierten QGIS Projekt



QWC Funktionen - Layerbaum



- Sichtbarkeit / transparenz
- Reihenfolge
- Externe Ebenen
 - WMS/WMTS/WFS/KML/GeoJSON
- Ebene vergleichen
- Hintergrund-Switcher



QWC Funktionen - Objekt & Map Info

The screenshot displays the QWC web interface. At the top is a search bar labeled 'Search place or add map...'. Below it, the 'Feature Info' panel is open, showing details for a selected feature: 'Kataster der belasteten Standorte - Altlasten: 27706'. The feature details include:

OID	106acb8d-8559-466c-9c7d-2a80454f2e4c
Katasternummer	27706
Bezeichnung	Wyden
Standort	
Standorttyp	Ablagerungsstandort
Status AltIV	Belastet, weder überwachungs- noch sanierungsbedürftig

Below the feature info is an 'Export format' dropdown set to 'json' and an 'Export' button. A 'Position' popup is also visible, showing coordinates and elevation for the selected location:

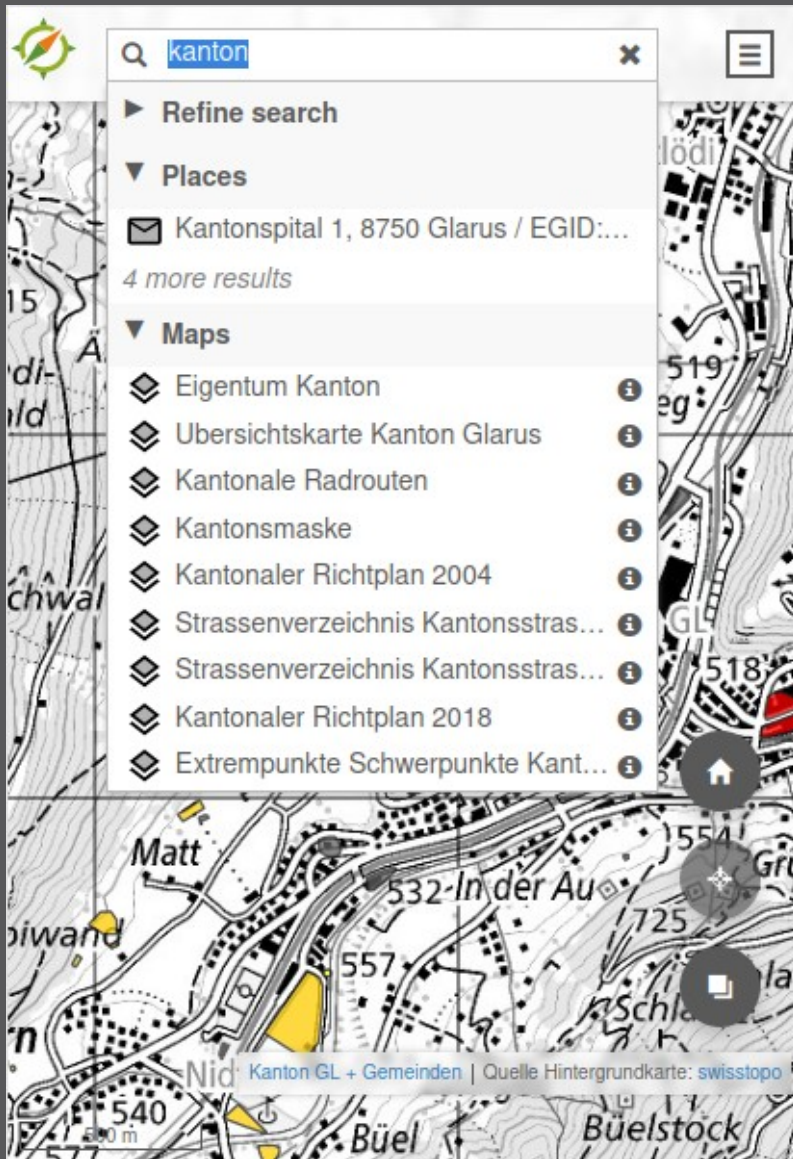
CH1903+ / LV95:	2724072, 1205827
WGS 84:	9.0698, 46.9919
Elevation:	528 m
Gemeinde:	Glarus Süd

The background is a topographic map showing various locations like 'Mitlödi', 'Steg', 'Matt', 'Büel', and 'Büelstock'.

- Info vom selektierten Objekt
 - WMS GetFeatureInfo
- Info an Kartenposition
 - Position, Höhe
 - Konfigurierbare zusätzliche Info



QWC Funktionen - Suche



- Suche mit konfigurierbaren Providers
- Orte
- Ebenen
- Kartenthemen



QWC Funktionen - Drucken

The screenshot displays the QWC (QGIS Web Client) interface. The main map shows a satellite view of Europe with country boundaries highlighted in orange. A blue rectangle indicates the selected area for printing. The print dialog is open, showing the following settings:

- Layout: A4 Landscape
- Format: PDF
- Atlas feature: Pick in layer countries...
- Scale: 1 : 12500000
- Resolution: 300 dpi
- Rotation: 0.0
- Grid: ☐
- Print series: ☐

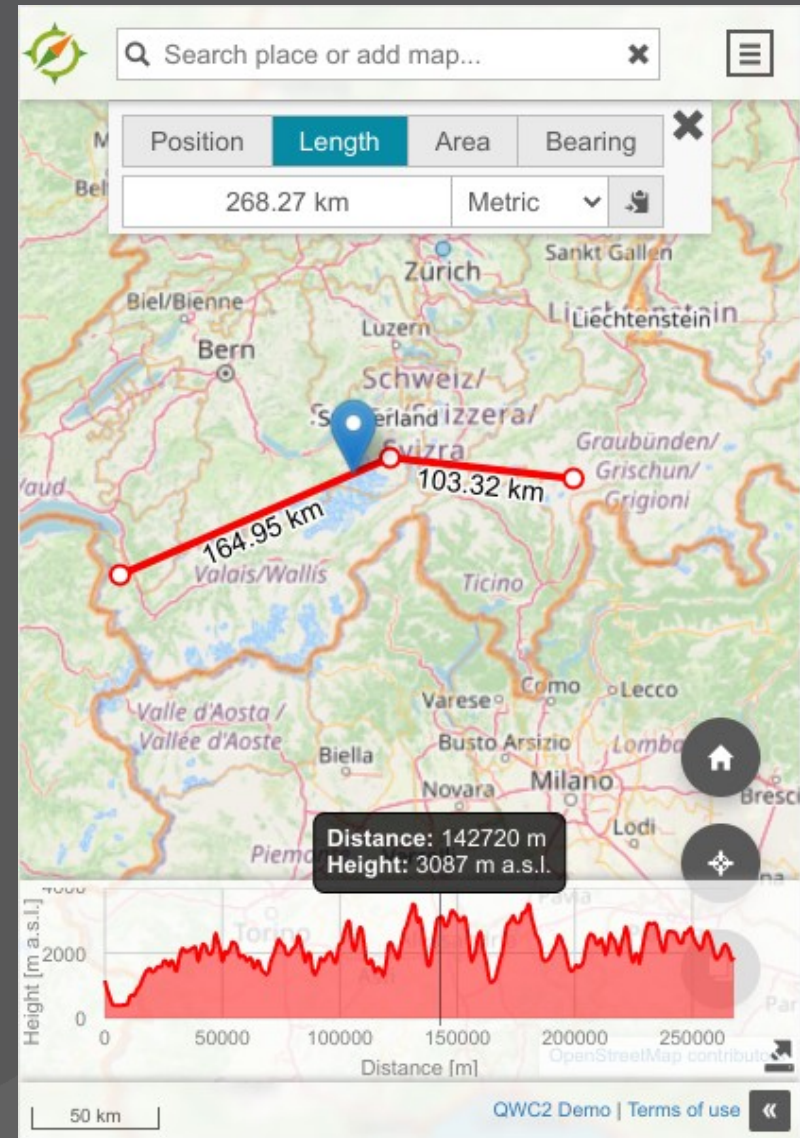
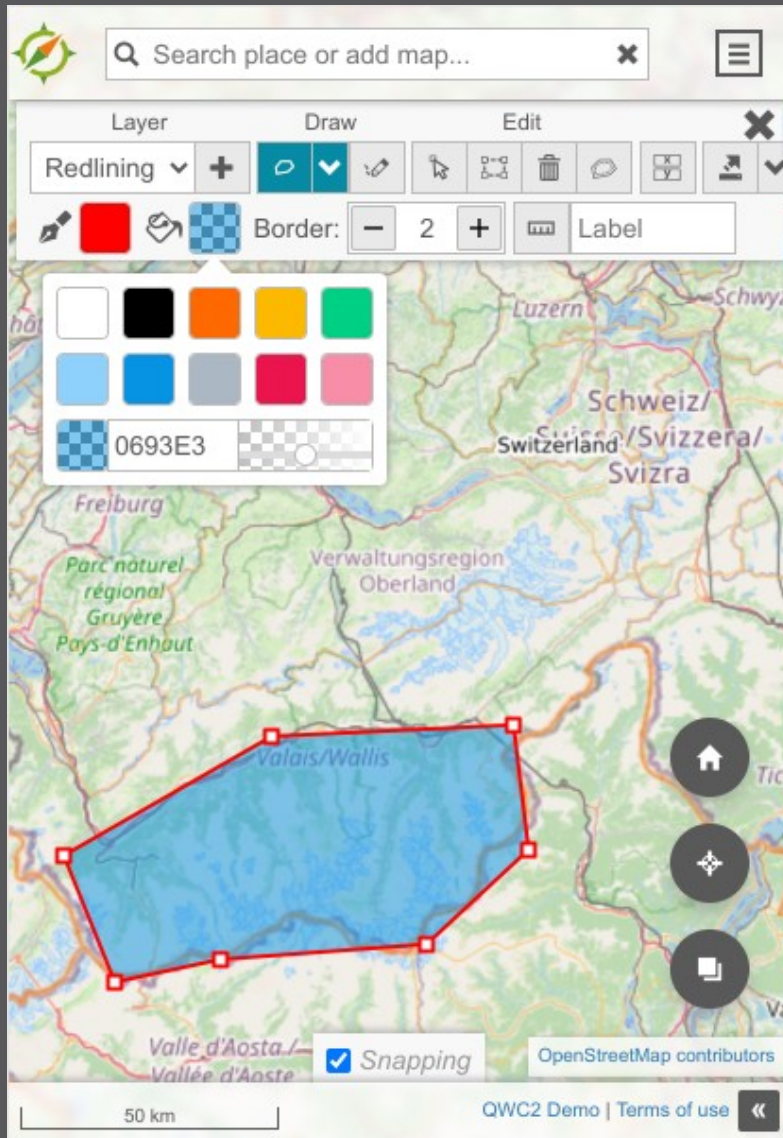
The print dialog also includes a 'Print' button and a 'Print output' window showing a preview of the map with a legend and a scale bar. The legend identifies the following layers:

- Geographic lines
- Countries
- Blue Marble

The status bar at the bottom shows the coordinates: -5852708 6985573, the projection: WGS 84 / Pseudo Mercator, and the scale: 1 : 25000000. The bottom right corner includes links for 'Homepage' and 'Terms of use'.



QWC Funktionen - Zeichnen & Messen





QWC Funktionen - Editieren

➤ Geometrie und Attribute editieren

- QGIS Editformulare
- Dateiuploads
- Wertebeziehungen
- 1:N Beziehungen

➤ Attributtabelle

The screenshot shows the QWC editing interface. On the left, a map of a city street is visible. In the center, the 'animals - Feature Attributes' dialog is open, showing a form for editing a cat named 'Mily'. The form includes fields for 'Animal' (Cat), 'name' (Mily), 'age' (4), 'gender' (Female), 'weight' (5), and 'picture' (a file path). On the right, the 'Editing' panel shows the 'Fluffy animals' layer and a 'Table' view. The table has columns for 'id', 'name', 'age', 'birthdate', 'size', 'hungry', 'sleepy', 'remarks', 'Animal', and 'picture'. The 'Mily' record is selected.

animals - Feature Attributes

Actions

Basic Details

Animal: Cat

name: Mily

age: 4

gender: Female

weight: 5

picture: 2ff0-15af-11ee-8751-c9fd60e96f4e.jpg

lastedit: 04.06.21 13:28:09

OK Cancel

Editing

Fluffy animals

Pick Draw Table

Mily

Basic Details

Animal: Cat

name: Mily

age: 2

gender: Female

weight: 5

picture: 

lastedit: 06/04/21 01:28:09

Delete

The screenshot shows the 'Attribute Table' window. It displays a table with columns: id, name, age, birthdate, size, hungry, sleepy, remarks, Animal, and picture. The table contains three records: 'Minni' (age 0, birthdate 04/25/2011, size 5), 'Mily' (age 2, birthdate 02/13/2019, size 6), and 'asd' (age 1, birthdate mm/dd/yyyy, size 6). The 'Mily' record is selected. The 'picture' column shows file paths like 'minni.jpg' and '11.jpg'. The 'Animal' column shows 'Cat' and 'Selec'. The 'remarks' column is empty. The 'hungry' and 'sleepy' columns have checkboxes. The 'remarks' column has a 'Browse...' button.

Attribute Table

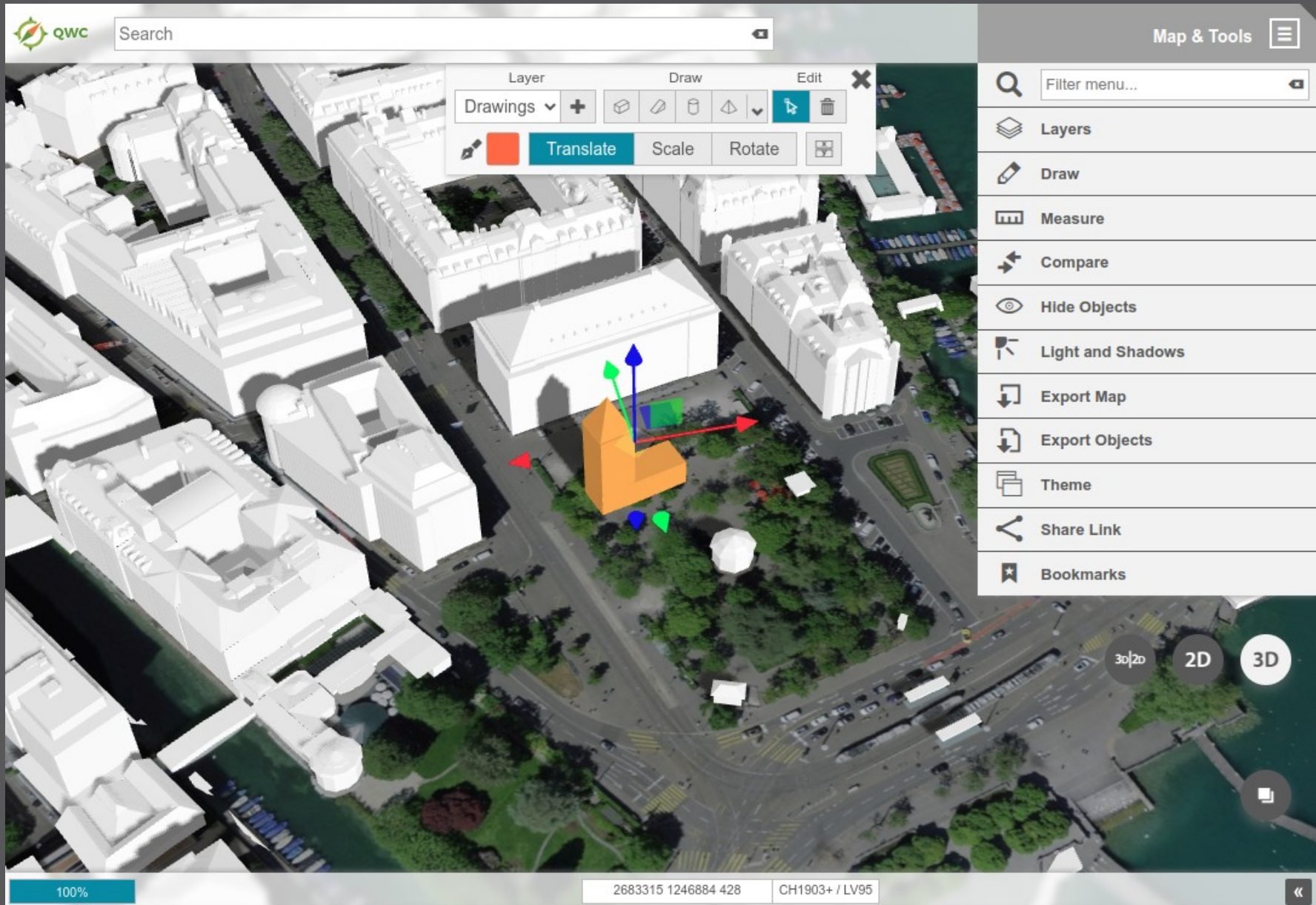
Layer: Fluffy animals

	id	name	age	birthdate	size	hungry	sleepy	remarks	Animal	picture
☐	2	Minni	0	04/25/2011	5	☐	☐		Cat	minni.jpg
☐	1	Mily	2	02/13/2019	6	☒	☒		Selec	11.jpg
☐	3	asd	1	mm/dd/yyyy	6	☐	☐		Cat	Browse...

1 50 per page id



QWC Funktionen - 3D





QWC Funktionen - Admin Backend

[Home](#) [Users](#) [Groups](#) [Roles](#) [Resources](#) [Permissions](#) [Registration](#) [Logout](#)

Permissions

[+ New Permission](#) Role Filter: All Type Filter: All

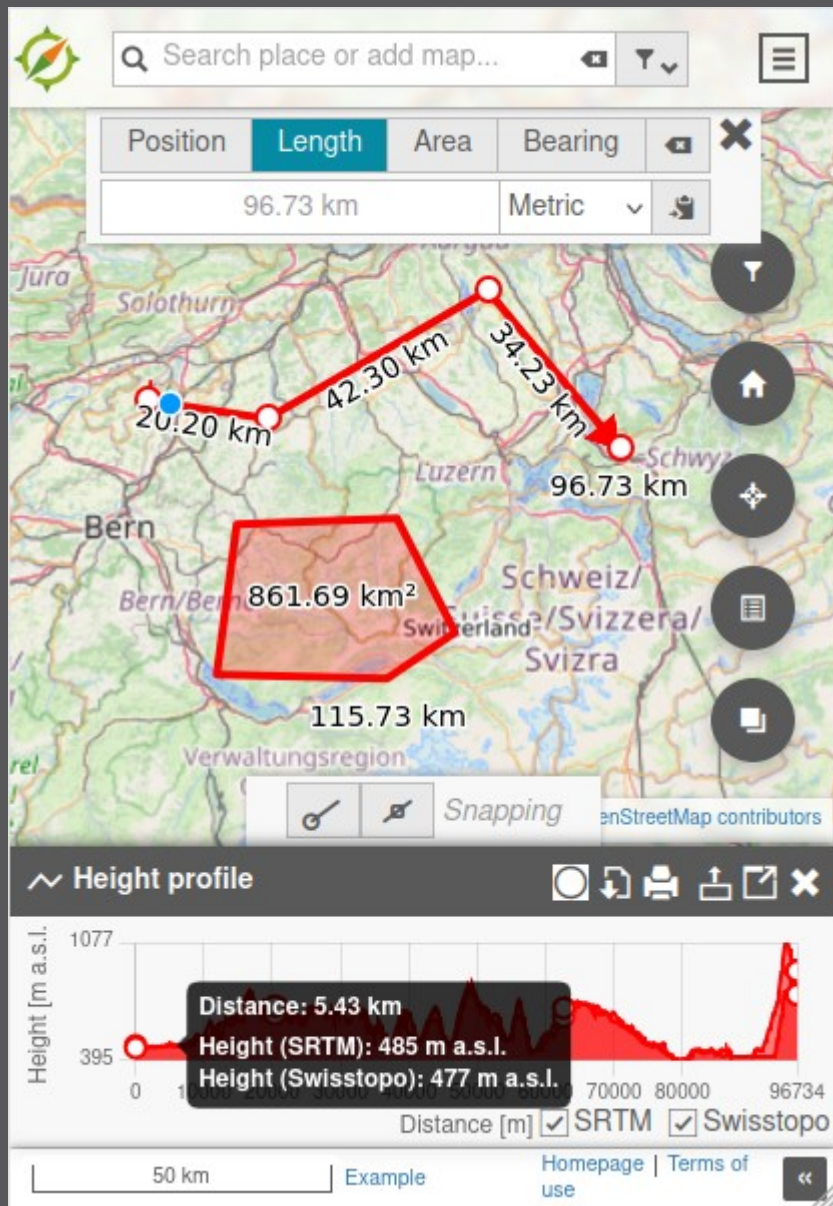
[<](#) [1](#) [2](#) [>](#)

ID	Role	Resource type	Resource	Priority	Write		
31	admin	Attribute	Long name (<i>countries</i>)	0	False	Edit	Remove
32	admin	FeatureInfo layer	Orthofoto_2015_stdzh_0.5_jpeg (<i>test1</i>)	0	False	Edit	Remove
8	public	Data	animal_names (<i>test1</i>)	0	False	Edit	Remove
6	public	Data	animals (<i>test1</i>)	0	True	Edit	Remove
7	public	Data	doctable (<i>test1</i>)	0	True	Edit	Remove
9	public	Data	document_types (<i>test1</i>)	0	False	Edit	Remove
3	public	Data	edit_lines (<i>qwc_demo</i>)	0	True	Edit	Remove
2	public	Data	edit_points (<i>qwc_demo</i>)	0	True	Edit	Remove
4	public	Data	edit_polygons (<i>qwc_demo</i>)	0	True	Edit	Remove
10	public	Data	Hauptbahnhof (<i>test1</i>)	0	True	Edit	Remove

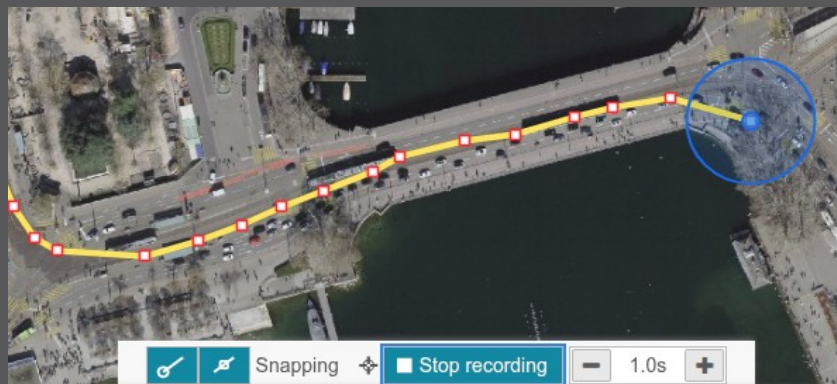
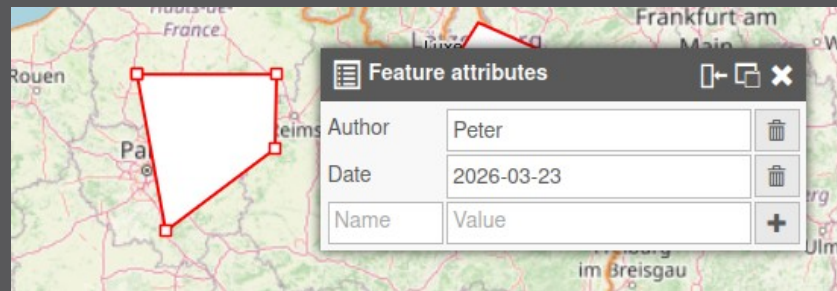
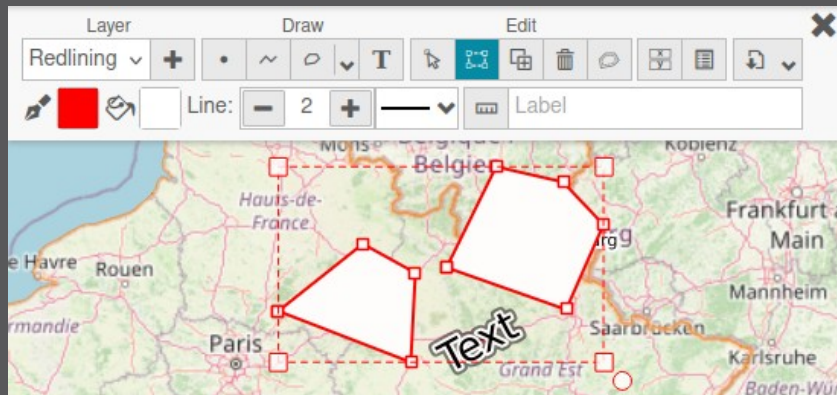


Neues aus dem Projekt

Neues aus dem Projekt



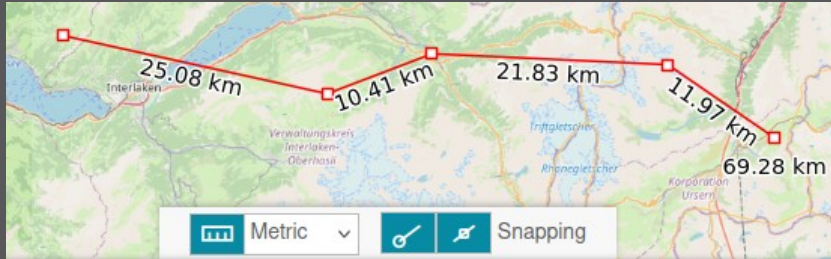
- **Mehrere Messgeometrien**
 - Persistent und Druckbar
- **Kopf- und End-Markers**
- **Mehrere Höhenprofile**
- **Externe Elevation-Dienste**
 - Custom ElevationInterface



- Mehrfachselektion manipulieren
- Selektion duplizieren
- Linienstrichmuster
- Attribute
- GPS Position aufnehmen



Width	2.3
Height	4.6
Area	10.58 m ²



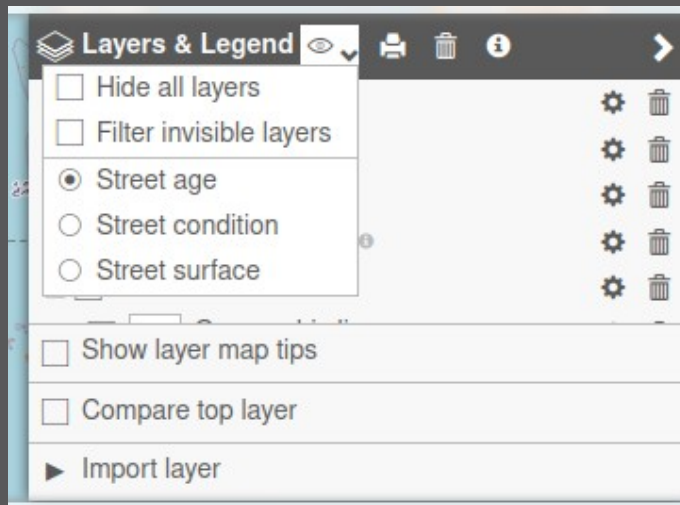
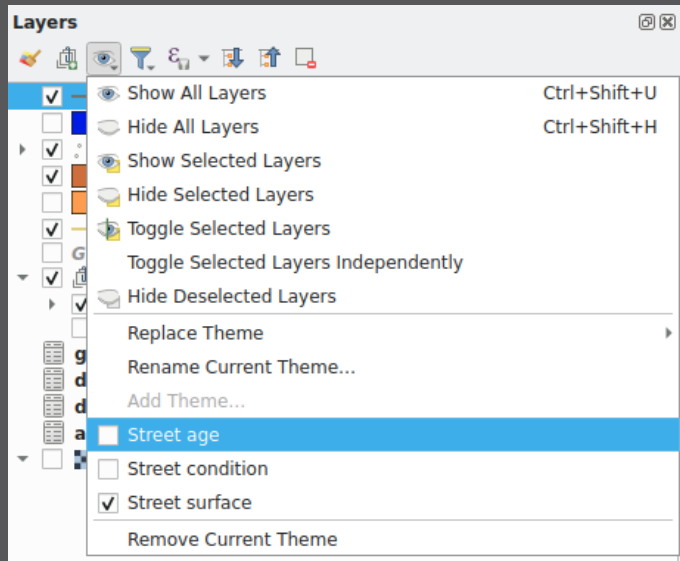
Anschluss	☒ Wasser ☒ Strom ☐ Gas
-----------	---

Namen	Peter	
	Paul	
	Hans	
	Add	

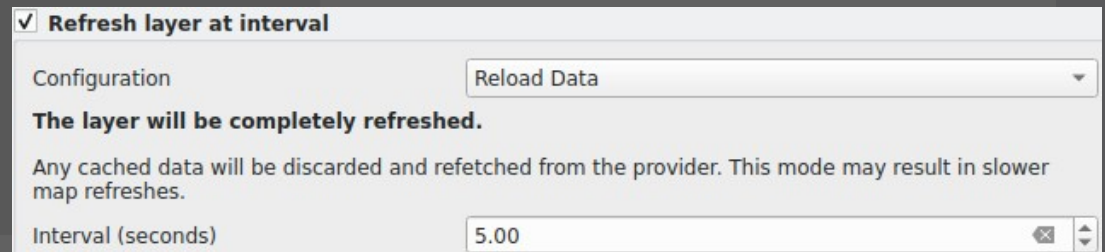
- Unterstützung für virtuelle Felder
- Messen beim Editieren
- Neue widgets: Multi-Select und Listen
- GPS Position aufnehmen
- Objekte mit Attribute kopieren
- Attributtabelle
 - Serverseitige Pagination
 - Versteckte Felder auslassen



News - Ebenensteuerung



- Sichtbarkeitsvoreinstellung
 - QGIS "Themen"
 - Sichtbarkeiten und Styles
- Styles in QWC Thema auf Voreinstellung blockieren
 - Mehrere QWC Themen aus QGIS Projekt ableiten
- Ebene Refresh-Intervall





Feature Info

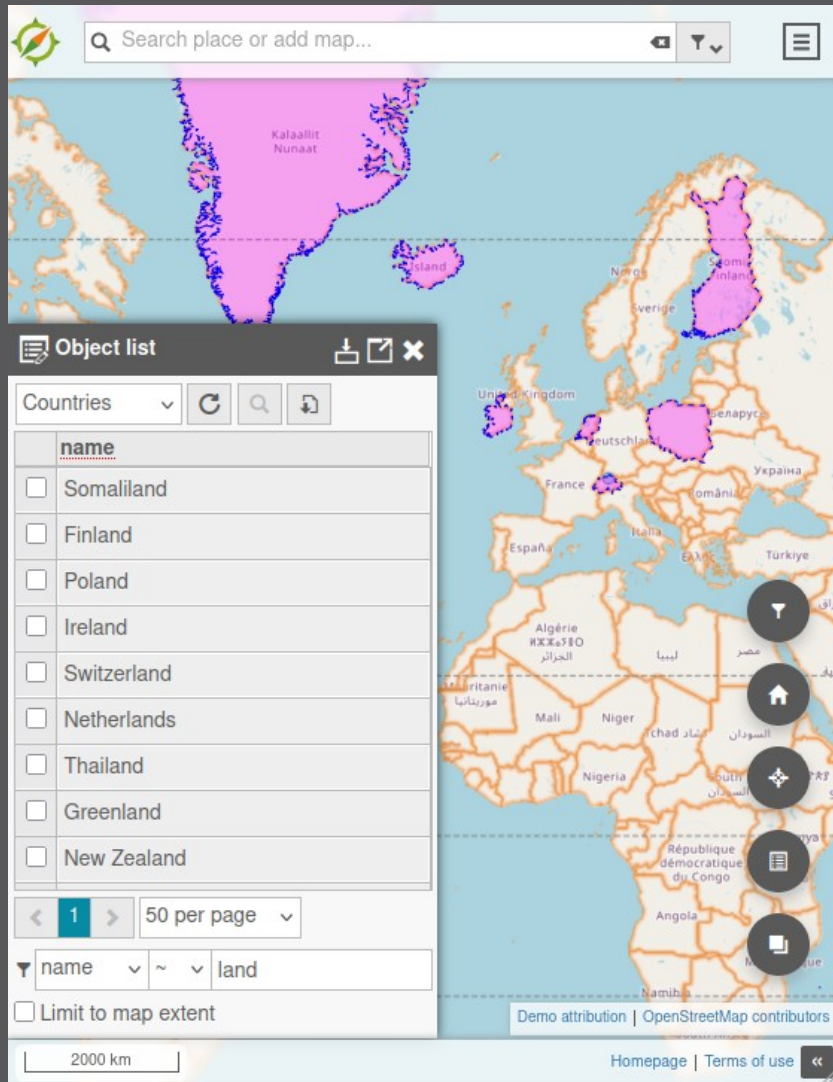
Countries: France		Countries: Switzerland	
featurecla	Admin-0 country	featurecla	Admin-0 country
sovereignty	France	sovereignty	Switzerland
sov_a3	FR1	sov_a3	CHE
adm0_dif	1	adm0_dif	0
level	2	level	2
type	Country	type	Sovereign country
admin	France	admin	Switzerland
adm0_a3	FRA	adm0_a3	CHE
geou_dif	0	geou_dif	0
geounit	France	geounit	Switzerland
gu_a3	FRA	gu_a3	CHE
su_dif	0	su_dif	0
subunit	France	subunit	Switzerland
su_a3	FRA	su_a3	CHE
brk_diff	0	brk_diff	0

7 feature(s)

- Paginierte Ansicht
- Selektierte Objekte vergleichen
- Shapefile und XLSX Export



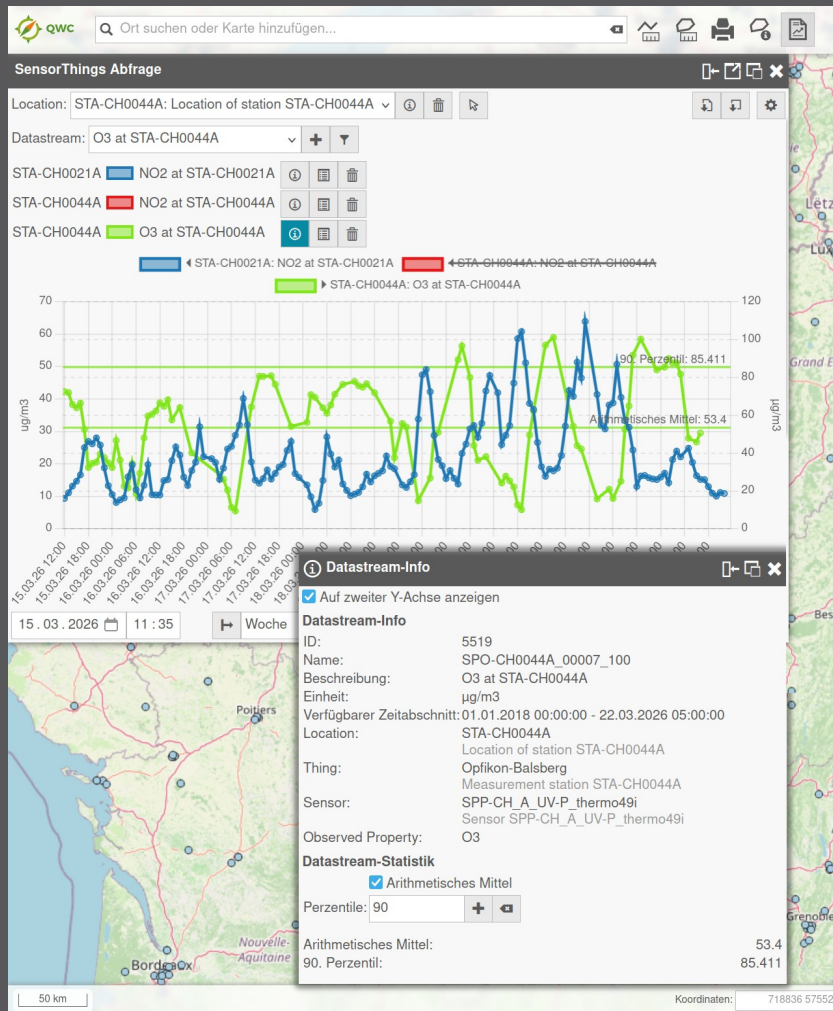
News - Objektliste



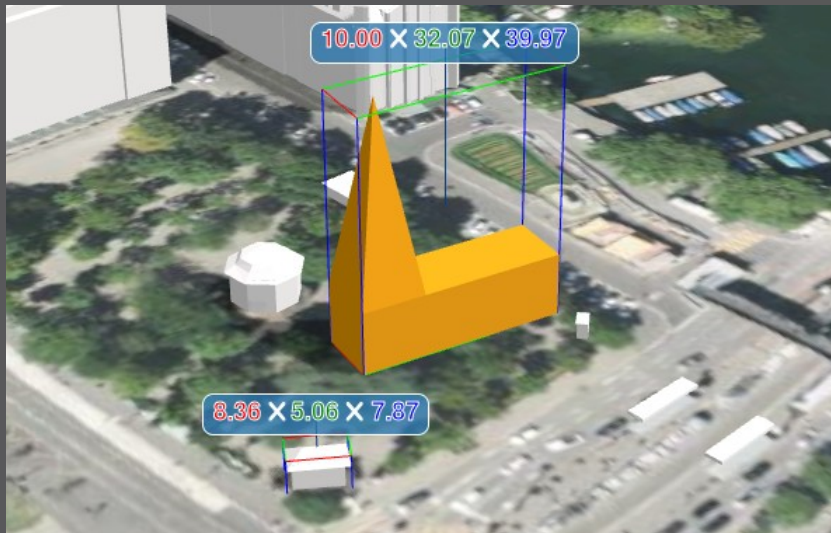
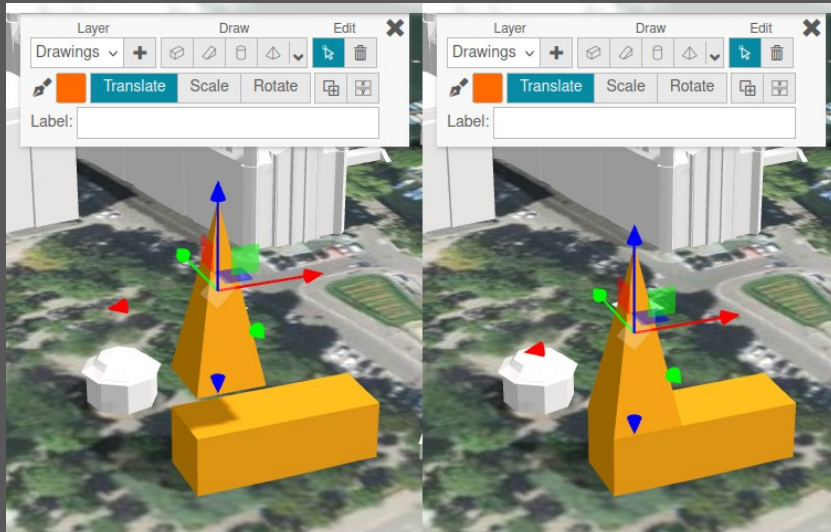
- Abgespeckte Attributtabelle
- Nur Displayfield
- Geometriehighlighting
- Filtern
- Exportieren



News - SensorThings Plugin



- Darstellung von Data-Streams von Kartenlocations
- Datastream-Statistiken
- Setup mit QGIS SensorThings API Plugin



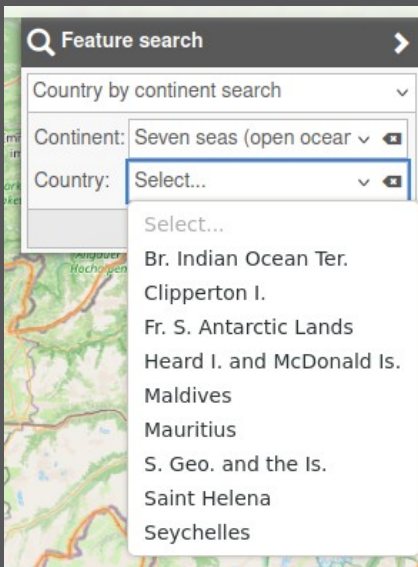
- **Snapping beim 3D Zeichnen**
 - Auf 3D Objekte und 2D Ebenen
- **Objektgruppen im Ebenenbaum**
- **Objektbemassung**
- **Bessere instanced 3D-Tiles Unterstützung**



News - Schrägluftbildansicht

Oblique Aerial View





➤ Dynamische Auswahllisten

```
{
  "title": "Country by continent search",
  "provider": "qgis",
  "params": {
    "expression": {
      "countries": "\"continent\" = '$CONTINENT$' AND \"name\" = '$COUNTRY$'"
    },
    "fields": {
      "CONTINENT": {
        "label": "Continent",
        "options_query": "/api/v1/data/qwc_demo.countries/keyvals?
                        key=continent&value=continent",
        "type": "select"
      },
      "COUNTRY": {
        "label": "Country",
        "options_query": "/api/v1/data/qwc_demo.countries/keyvals?
                        key=name&value=name&filter=[[\"continent\", \"=\", \"$CONTINENT$\"]]",
        "type": "select"
      }
    }
  }
}
```



- **postMessage Schnittstelle**
 - Cross-Origin API Aufrufe
 - Nützlich für eingebettete Iframes

```
let qwcframe = document.getElementById("qwciframe");  
  
qwcframe.contentWindow.postMessage({  
  "method": "zoomToPoint",  
  "params": [[2684764, 1247841], 18, "EPSG:2056"]  
}, "http://<qwc_hostname>:<port>")
```

- › Übersetzte QGIS Projekte
 - › Layernamen, Feldnamen, Druckvorlagen
 - › QGIS *.ts Dateien + auxiliäre JSON Dateien
- › Tastaturbedienung
 - › Grossteil der Oberfläche per Tastatur bedienbar



News - Admin GUI

- Konfiguration abbrechen
- Benutzer einladen

QWC Admin

Administration tool for QWC services

[Abort service configuration](#)

☒ Use cached project metadata if available

☐ **Make all edit datasets read-only**

[Read QGIS Server logs](#)

100 Number of lines

[ConfigGenerator logs](#) [QGIS Server logs](#)

```
16:57:26 INFO Server[155]: - FORMAT : image/png
16:57:26 INFO Server[155]: - TRANSPARENT : true
```

Users

[+ New user](#)

« 1 »

ID	Name	
1	admin	Edit Send invitation Remove
2	demo	Edit Send invitation Remove



Landing page

QWC OGC Service

Available services

QWC Demo

- [WMS Capabilities](#)

Natural Earth Countries

- [WMS Capabilities](#)

WFS Test

- [WMS Capabilities](#)
- [WFS Capabilities](#)
- [Feature collections](#)
- [Conformance classes](#)
- [API description](#)

Stadt Zürich 3D

- [WMS Capabilities](#)
- [WFS Capabilities](#)
- [Feature collections](#)
- [Conformance classes](#)
- [API description](#)

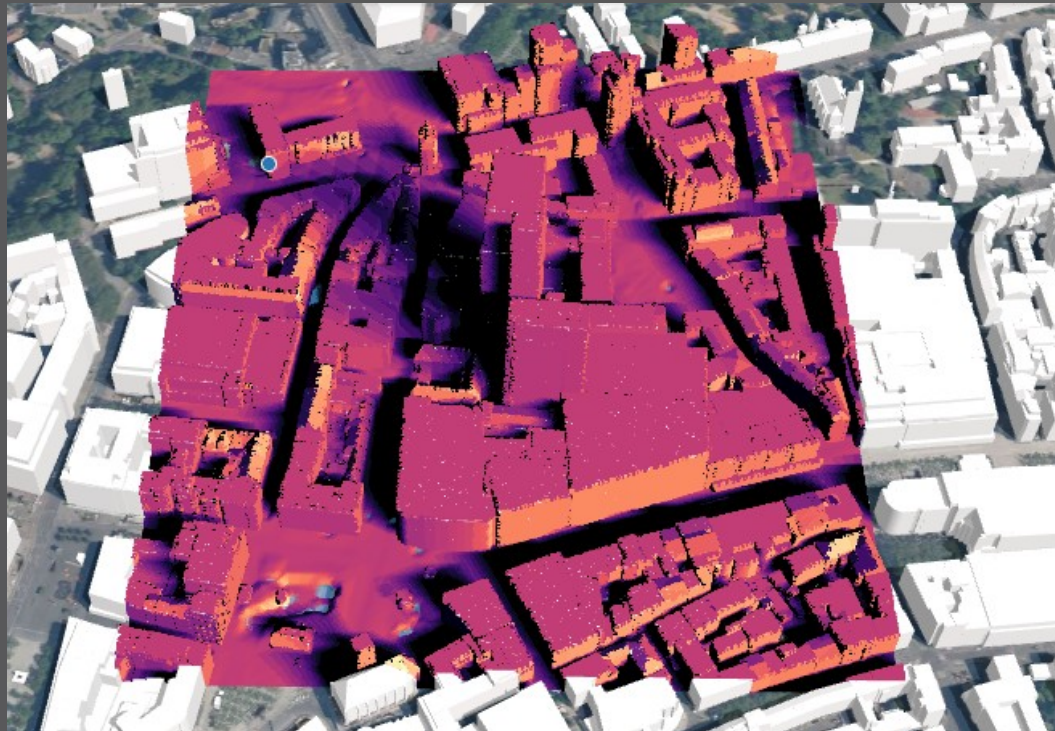
➤ Landing Page

➤ Unterstützung für OGC API Features

➤ Unterstützung für WFS-T



- › Clientseitiges Styling (SLD)
- › Hybrider Themen/Layerbaum
- › Beziehungsreferenzen (Editieren)
- › Besonnungsanalyse (3D)





› GitHub Repositories

- › <https://github.com/qgis/qwc2>
- › <https://github.com/qwc-services/qwc-docker>

› Homepage, Dokumentation & ChangeLog

- › <https://qwc.app>
- › <https://qwc-services.github.io>
- › https://qwc-services.github.io/master/release_notes/ChangeLog/

› Beispiele

- › <https://qwc2.sourcepole.ch>
- › <https://qgiscloud.com>
- › <https://geo.so.ch/map/>
- › <https://map.geo.gl.ch>



Danke!



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