

GeoMapFish - The Open Source WebGIS

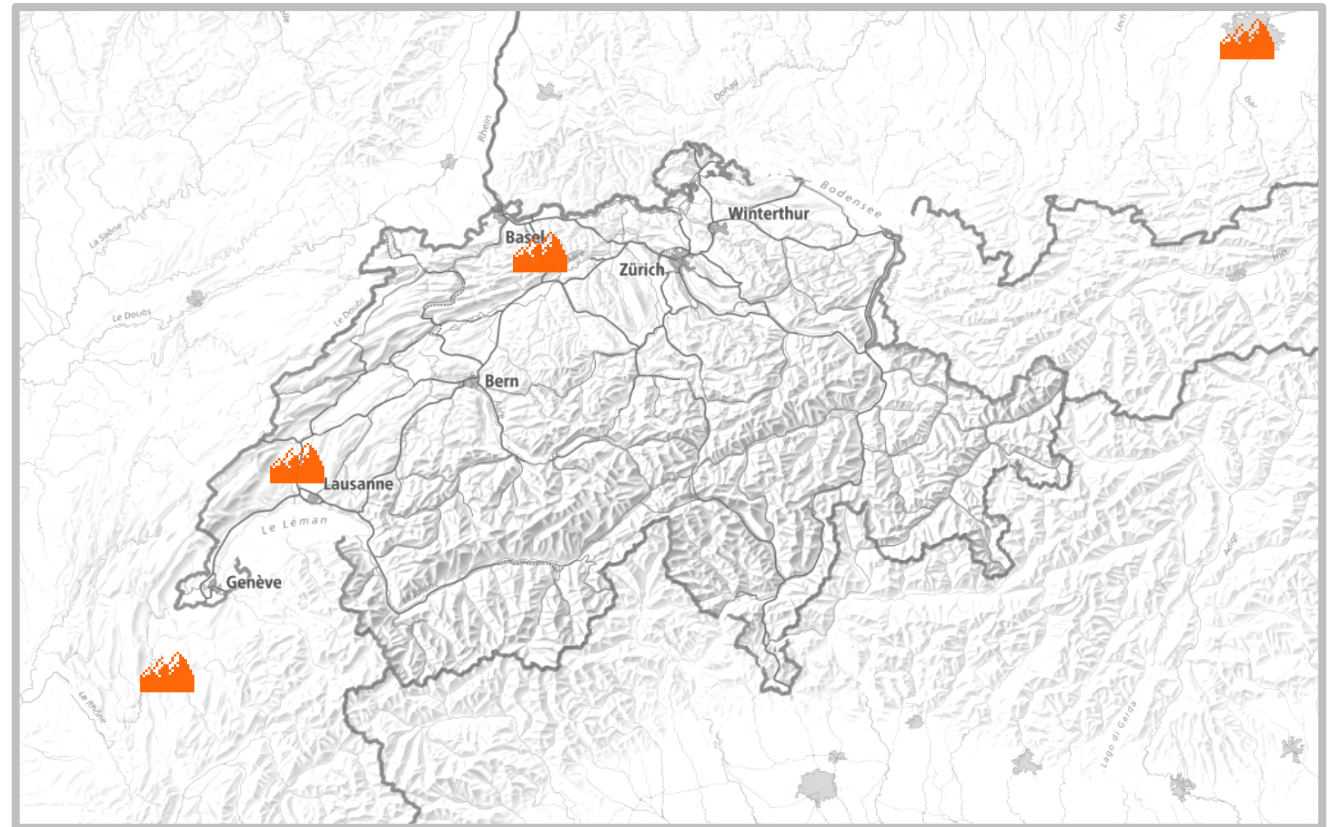
FOSSGIS-Konferenz 2017, Passau

camptocamp[®]

INNOVATIVE SOLUTIONS
BY OPEN SOURCE EXPERTS

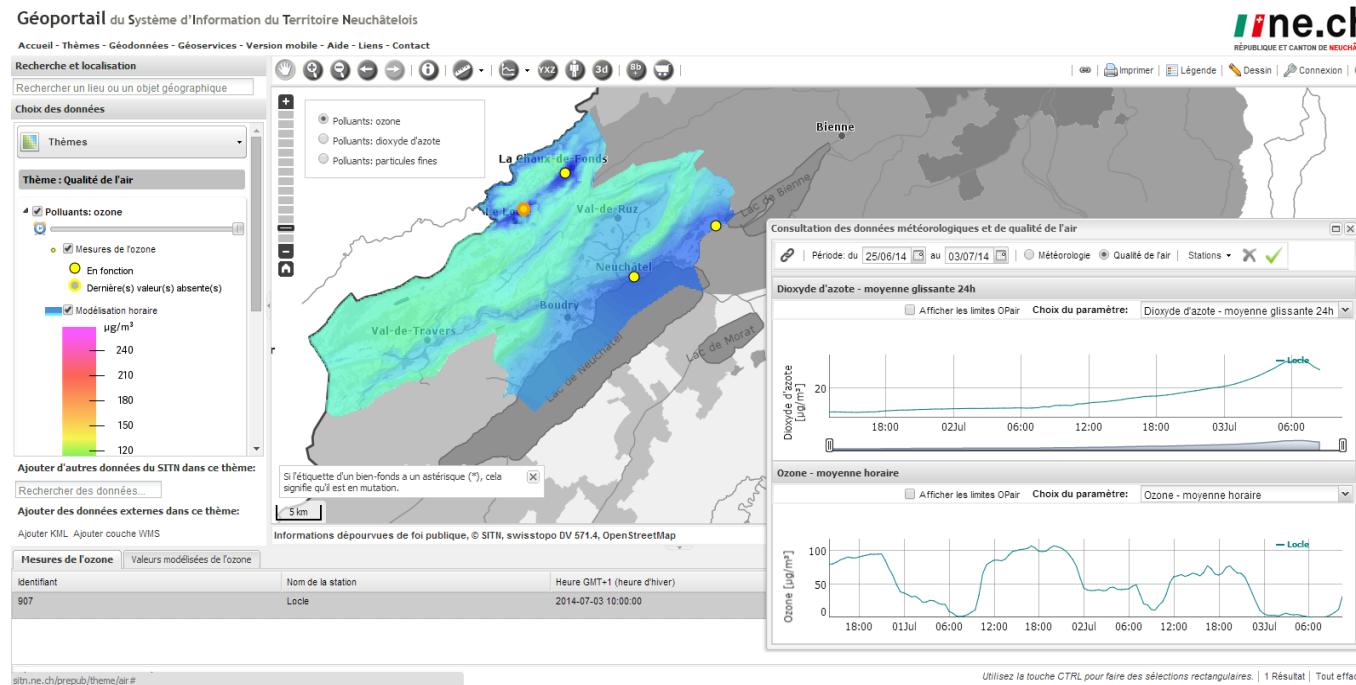
Camptocamp

- Open source service provider since 2001
 - Software editor and integrator
- 70 employees
 - Switzerland, France and Germany



The GeoMapFish WebGIS

- Rich WebGIS
- community driven development
- interoperable



GeoMapFish Community Goal

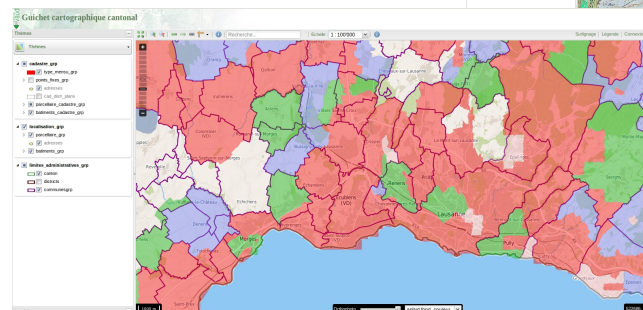
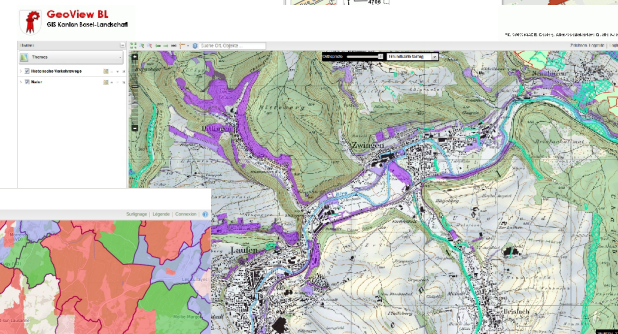
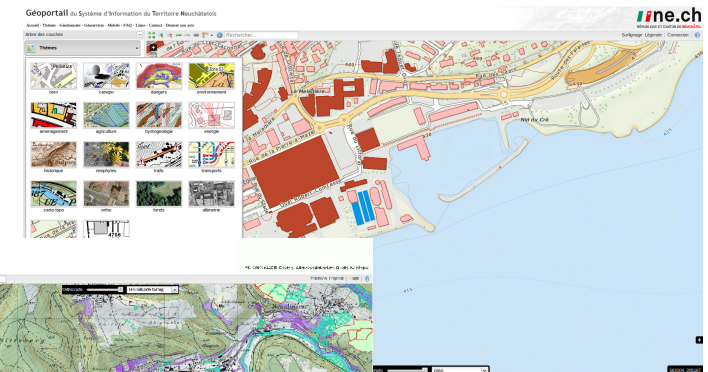
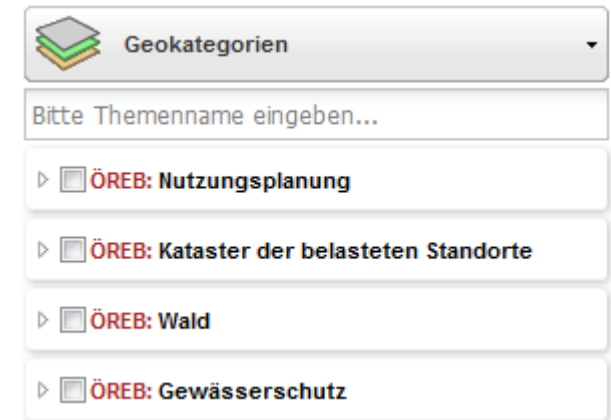
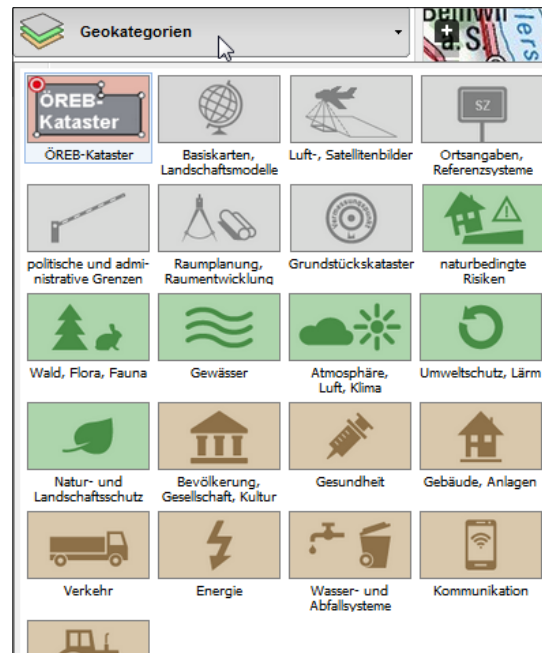
- Ensure the sustainable development of a leading open source WebGIS
- Key aspects
 - Promote an inclusive dialog between users and developers
 - Protect consensual decision making regarding roadmap and new features
 - Target a fair funding
 - Regular resources stream for maintenance and features development
 - Broad contribution basis to keep the contribution level as low as possible
 - Contributions on a free basis
- The model has been working since 2011 and allowed to develop
 - 2 majors version of GeoMapFish
 - 7 minors versions

Users community

- Public agencies/surveying offices, with the mission to provide geodata on the internet for citizens, engineers, architects to access and analyze public geodata with a WebGIS:
 - Swiss Cantons (BL, SZ, BS, NE, JU, VD, GR)
 - Cities (Lausanne, Yverdon, Pully, Morges, Nyon, Vevey, Montreux, Neuenburg, Paudex, Nendaz, usw.)
 - Engineer offices (AlpGIS, Rudaz, Peitrequin, Gemetris, NPPR)
 - Facility Management: ETH Lausanne, Airport Lyon
- A classic WebGIS is needed.
 - Easy management
 - Customizable

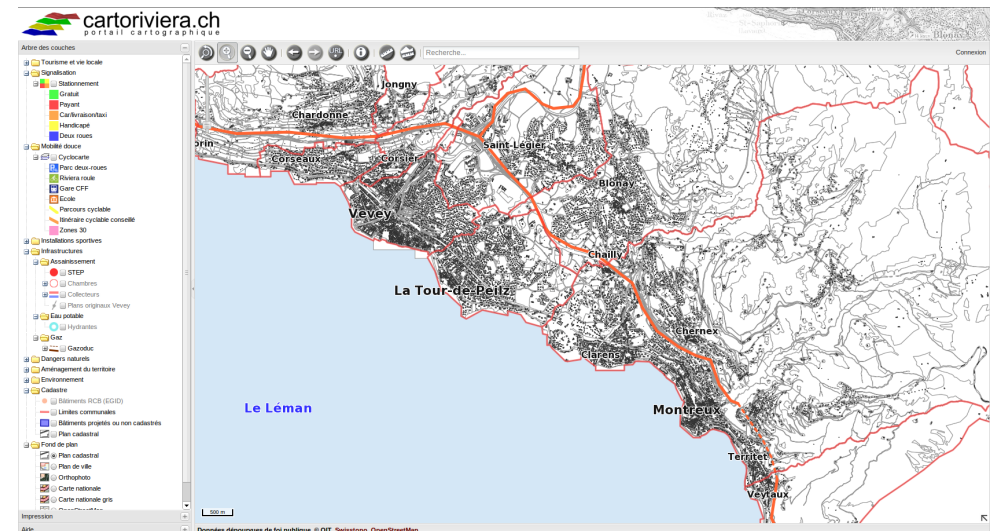
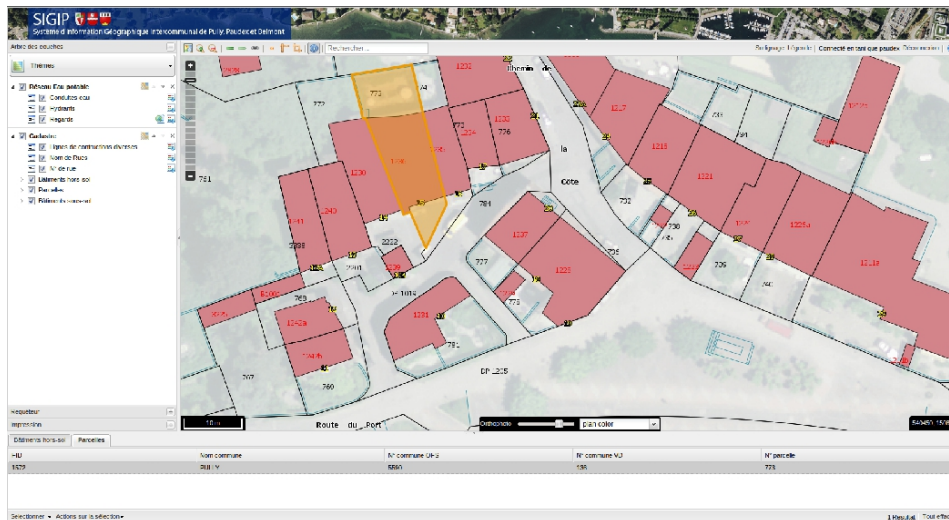
Cantons

- Basel Landschaft
- Basel Stadt
- Neuenburg
- Waadt
- Jura
- Schwyz
- Graubünden



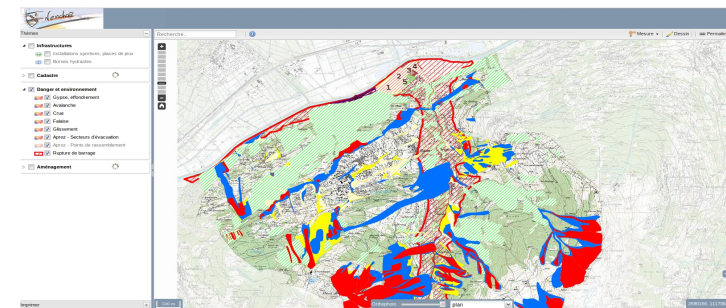
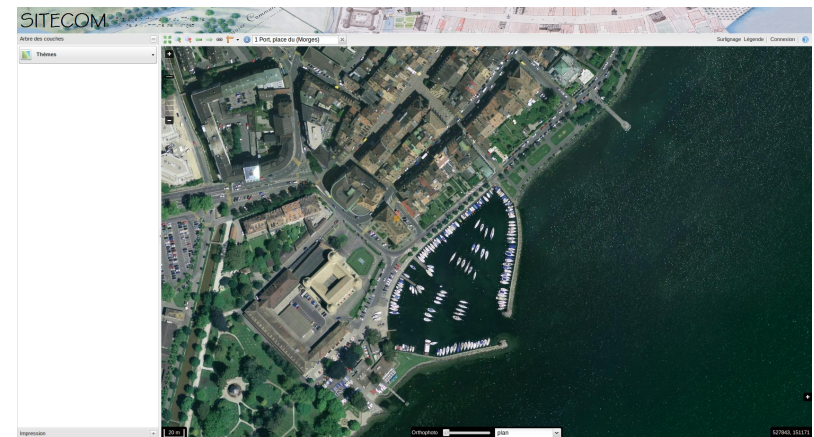
Communities

- Cartoriviera: Vevey, Montreux, La Tour de Peilz, Villeneuve (13)
- SIGIP: Pully, Paudex, Belmont
- Agglomération de Chatellerault



Cities

- Lausanne
- Yverdon-les-Bains
- Morges
- Nyon
- Nendaz
- Avenches



Engineer offices

- GeoCommunes, Waadtland
- Gemetris, Waadtland
- NPPR, Waadtland
- AlpGIS, Berner Oberland
- Lienhard, Aargau
- Rudaz, Wallis
- Aprona, France



Facility Management

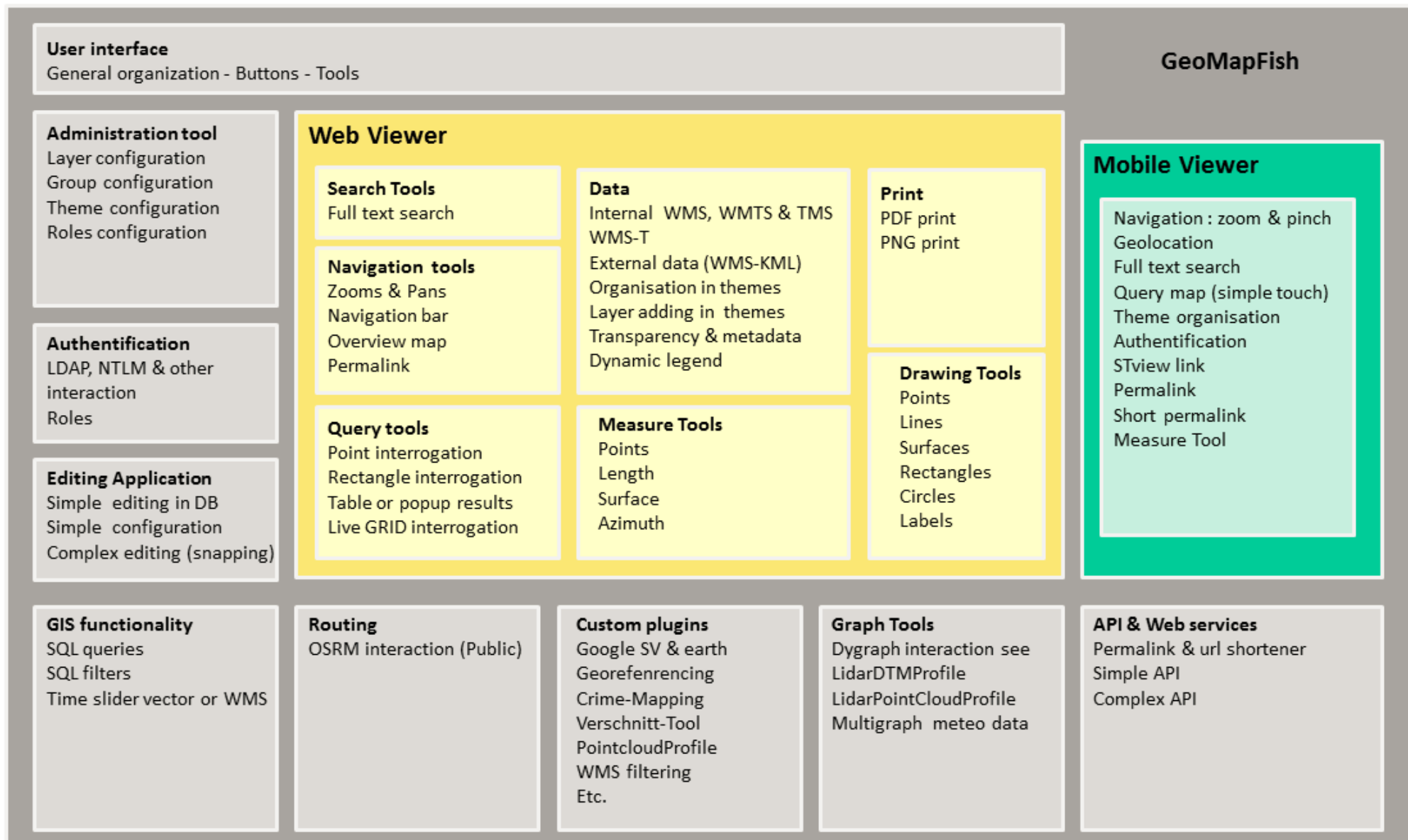
- EPFL Lausanne
- Lyon Airport



Software architecture concepts

- Focus: architecture coherence
 - Mapservice configuration: Layers, Queries, Legend => WMS/WFS
 - 1 PostgreSQL table for the full-text search
 - Administration GUI: layer tree and security configuration
 - Code organization for seamless update
- Freedoms
 - Layout, features and customizing without forking the application
- « Parent/Child projects »
 - Avoiding configuration redundancy
- Security
 - Feature, layer, multi-polygon, attribute

GeoMapFish Features



Main User interface



Recherche et localisation

Recherche...

Choix des données

Thèmes

Voirie / déchets

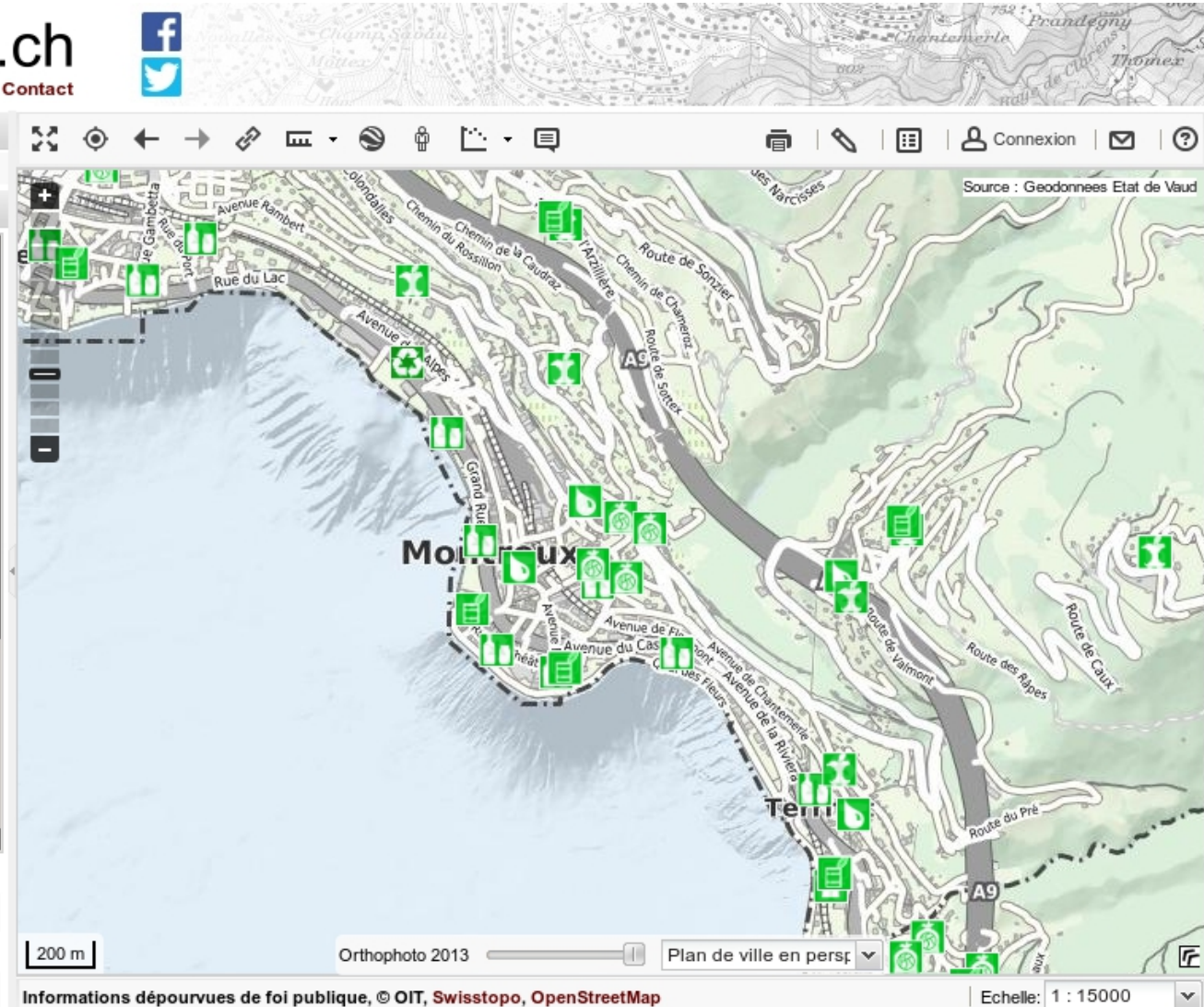
- Alu / fer blanc
- Appareils électroniques
- Capsules Nespresso
- Compost de jardin
- Compost ménager
- Encombrants
- Ferraille
- Flaconnages plastiques
- Inertes de ménage
- Huiles
- Ordures ménagères
- Papier / carton
- Pet
- Piles
- Textiles
- Verre

Ajouter d'autres données de Cartoriviera:

Rechercher des données...

Ajouter des données externes dans ce thème:

Ajouter couche KML Ajout couche WMS



Source : Geodonnées Etat de Vaud

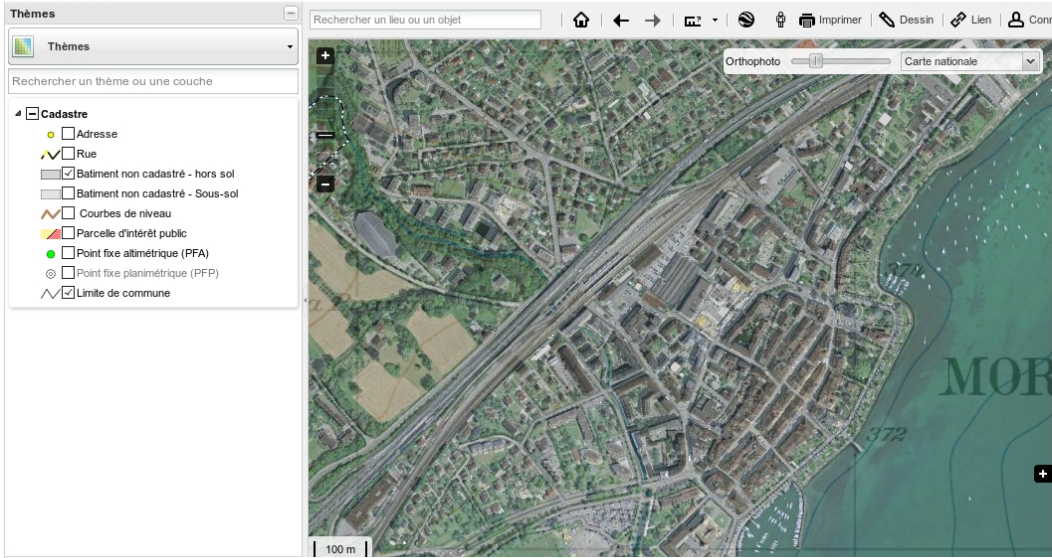
200 m Orthophoto 2013 Plan de ville en persp. Echelle: 1 : 15000

Informations dépourvues de foi publique, © OIT, Swisstopo, OpenStreetMap

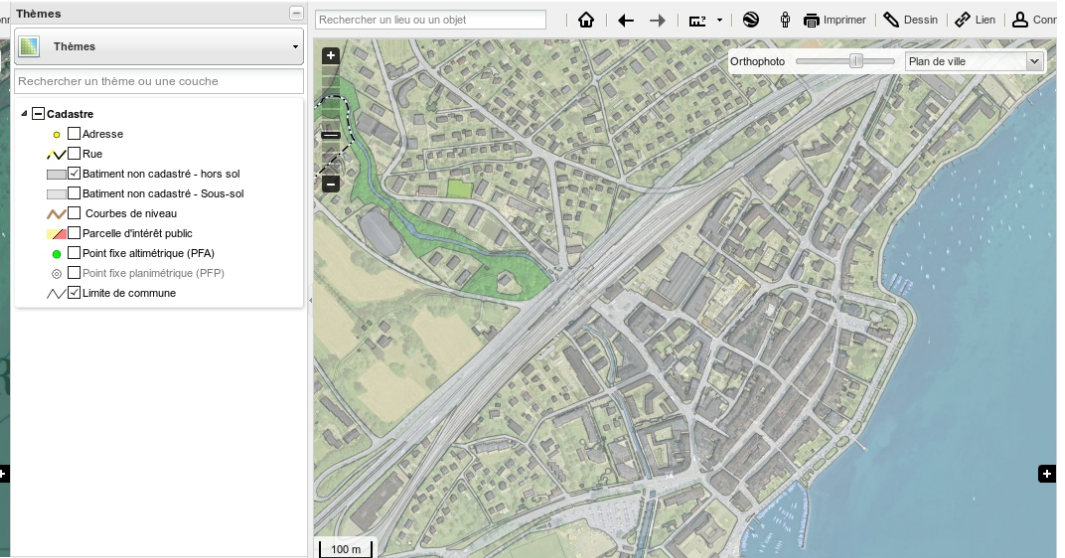


Background maps (WMTS)

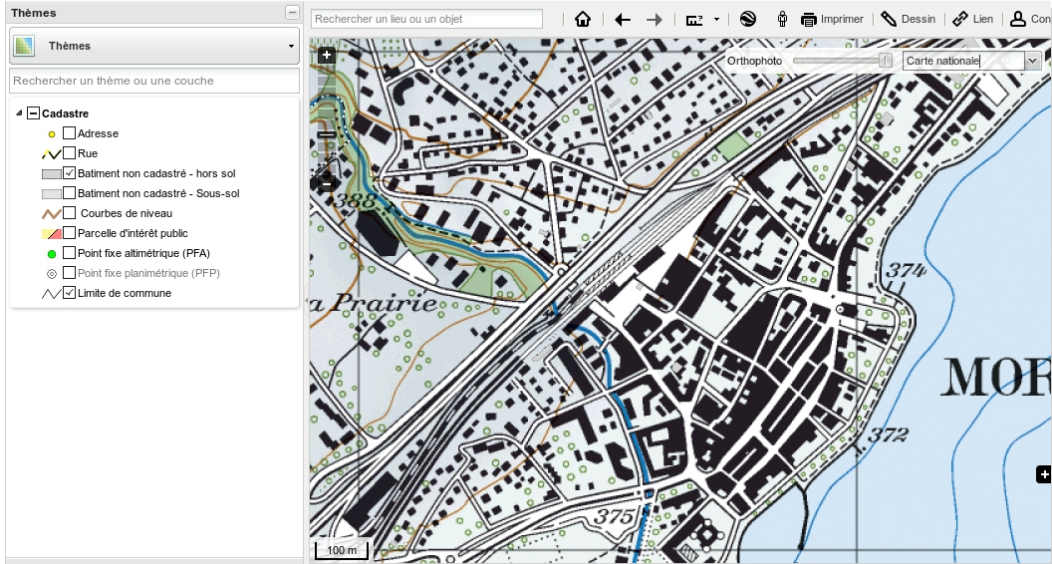
sitecom
système d'information du territoire
de la commune de Morges



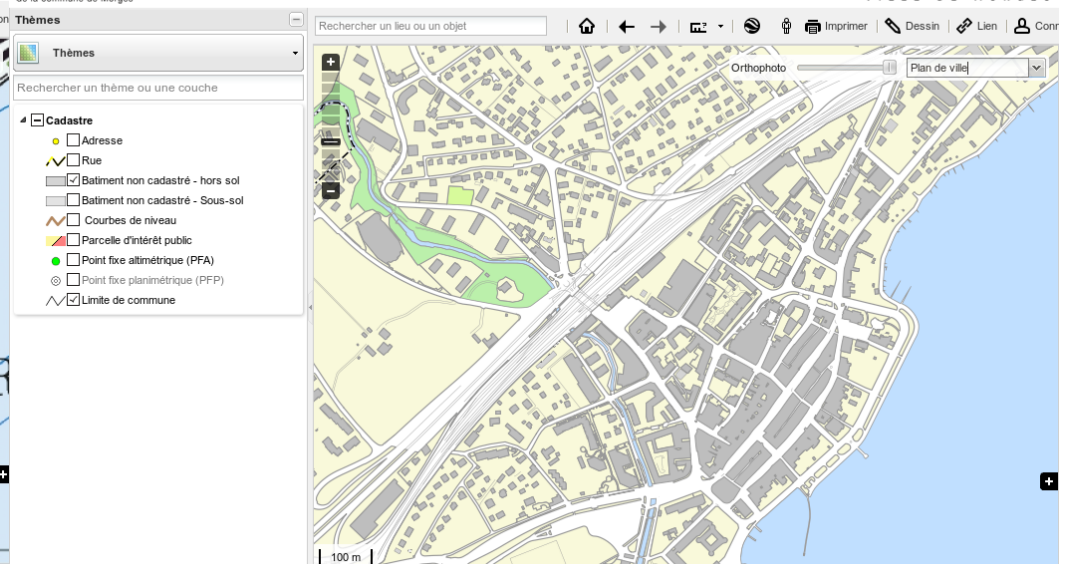
morges sitecom
VILLE DE MORGES système d'information du territoire
de la commune de Morges



sitecom
système d'information du territoire
de la commune de Morges



morges sitecom
VILLE DE MORGES système d'information du territoire
de la commune de Morges



morges
VILLE DE MORGES



Themes organization

The screenshot displays the 'GÉOPORTAIL SITNYON' interface for the City of Nyon. The top left features the 'VILLE DE NYON' logo and navigation links: 'Accueil - Données - Actualités - Commande'. The main header includes the title 'GÉOPORTAIL SITNYON' and subtitle 'SYSTÈME D'INFORMATION DU TERRITOIRE DE LA VILLE DE NYON'. Below the header is a search bar with the text 'Rechercher un lieu ou un objet' and various utility icons like home, zoom, and connection. A 'Données' menu is visible on the left. The central part of the interface is a grid of 20 thematic layers, each with a representative icon and label: Cadastre, Lieux d'intérêt, Orthophotos, Cartes historiques, Altimétrie, Aménag. du territoire, Mobilité, Stationnement, Déchets, Espaces verts, Espaces publics, Patrimoine communal, Port de plaisance, Réseaux souterrains, Environnement, Accueil et enfance, and Statistiques. To the right of this grid is a map of Nyon with several thematic layers activated, showing icons for 'WC publiques', 'monument, musée', 'Espace de spectacle, concert', 'Lieu de culte', 'Château de Nyon', and 'Site historique, monument'. The map includes street names like 'Rue de la Porcelaine' and 'Place Henri Terribilini'. At the bottom, there is a scale bar for 'Plan ASIT VD' and a scale of '1 : 1'000'. Footer text includes 'Données externes : Couche VIMS Couche RML © Géodonnées : Ville de Nyon, Etat de Vaud, swisstopo, OpenStreetMap - Informations dépourvues de foi publique'.



Layertree and legend

The screenshot displays the GÉOPORTAIL SITNYON web application interface. At the top left is the logo for the Ville de Nyon, with navigation links for Accueil, Données, Actualités, and Commande. The main header features the title "GÉOPORTAIL SITNYON" and the subtitle "SYSTÈME D'INFORMATION DU TERRITOIRE DE LA VILLE DE NYON".

The interface includes a search bar with the placeholder text "Rechercher un lieu ou un objet" and a "Connexion" button. On the left side, there is a "Données" section with a "Thèmes" dropdown menu and a search field for themes. Below this is a "Points d'intérêt" section with a list of categories and their corresponding icons, each with a checkbox:

- Santé
- Bâtiments publics
- Culture
- Sport, loisirs
- Ecoles, formation
- Enfance, jeunesse
- Transports, mobilité
- Déchets

Below the "Points d'intérêt" section is an "Itinéraires sportifs" section with a list of trail types and their corresponding icons, each with a checkbox:

- Parcours de Nordic walking
- Boucle noire
- Boucle bleue
- Boucle rouge
- Boucle verte
- Boucle marron

The main map area shows an orthophoto of Nyon with various points of interest marked with icons. Labels on the map include "Cinéma", "WC publiques", "Administration régionale", "Nyon", "Château de Nyon", "Lieu de culte", "Espace de spectacle, concert", "Site historique, monument", "Ecole Supérieure", "monument, musée", and "Place Henri Terribilini". The map includes a scale bar (20 m), a "Plan ASIT VD" dropdown menu, and a "20 m" scale indicator. At the bottom, there is a footer with the text "Données externes : Couche WMS Couche KML", "© Géodonnées : Ville de Nyon, Etat de Vaud, swisstopo, OpenStreetMap - Informations dépourvues de foi publique", and "Échelle : 1 : 1'000".



Dynamic legend

Recherche et localisation

Recherche...


Choix des données

Thèmes

Dangers naturels

- Cadastre des événements
- Cotes de protection
- Cartes des dangers (CD)
- Carte indicative des dangers (CID)
- Sol de Fondation (Microzonage)

Thalweg

-  3
-  4
-  5
-  6
-  7
-  8
-  9
-  10
-  11
-  12
-  13

Périmètre zone à bâtir (Dangers nat.)

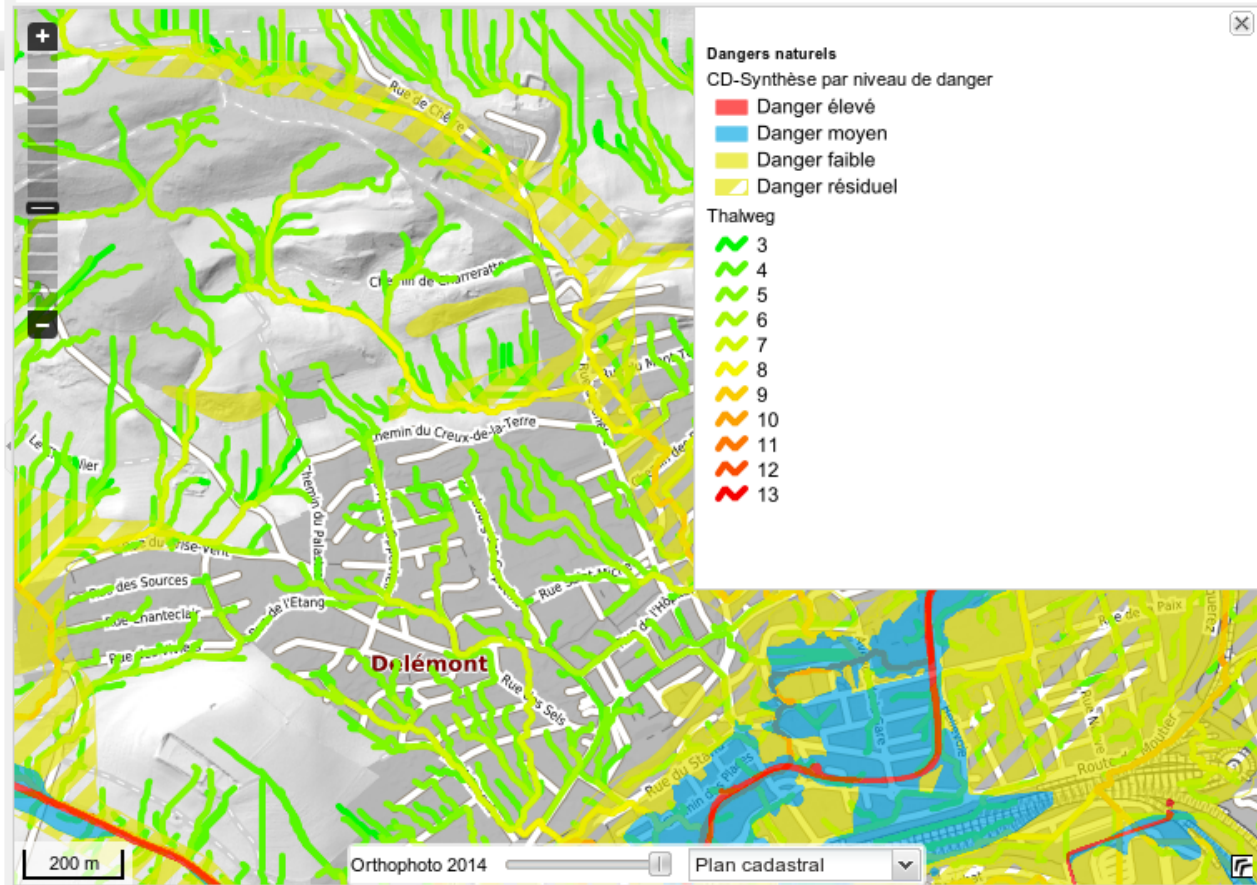
Ajouter des données d'autres thèmes:

Rechercher un thème ou une couche

Ajouter des données externes:

Ajouter fichier KML Ajouter couche WMS

Navigation icons: Home, Back, Forward, Zoom In, Zoom Out, URL, YXZ, 3d, Print, Draw, Legend, Connection, Contact



Queries (Point/BBOX) - Popup

The screenshot displays a web-based GIS application interface. The main map shows a geographical area around Yverdon-les-Bains, Switzerland, with various locations labeled such as Montagny-pres-Yverdon, Moulin Chapuis, Campagne Saint-Georges, Le Petit Marais, Chamblon, Treycovagnes, Yverdon-les-Bains, Cheseaux-Noréaz, Fignerolles, Cuarny, La Grand'Fin, Pomy, and La Baumaz. A red line highlights a specific area, and several orange warning icons are placed on the map. An inset map in the top-left corner provides a more detailed view of a specific urban area, with a blue bounding box indicating the area of interest. A popup window titled 'Information' is open on the right side of the map, displaying a list of construction perturbations. The popup content is as follows:

Information

- Perturbation actuelle (chantier) (5 objets)
 - Perturbation actuelle (chantier) 1
 - Nom: rue des Chainettes
 - Description: réfection eau-gaz-électricité
 - Début: 19.10.2015 à 07 h
 - Fin: 27.05.2016 à 17 h
 - Perturbation actuelle (chantier) 2
 - Perturbation actuelle (chantier) 3
 - Perturbation actuelle (chantier) 4
 - Perturbation actuelle (chantier) 5
- Perturbation spéciale 1 (chantier) (1 objet)
 - Perturbation spéciale 1 (chantier) 1
- Perturbation actuelle (trait) (11 objets)
 - Perturbation actuelle (trait) 1
 - Perturbation actuelle (trait) 2
 - Perturbation actuelle (trait) 3

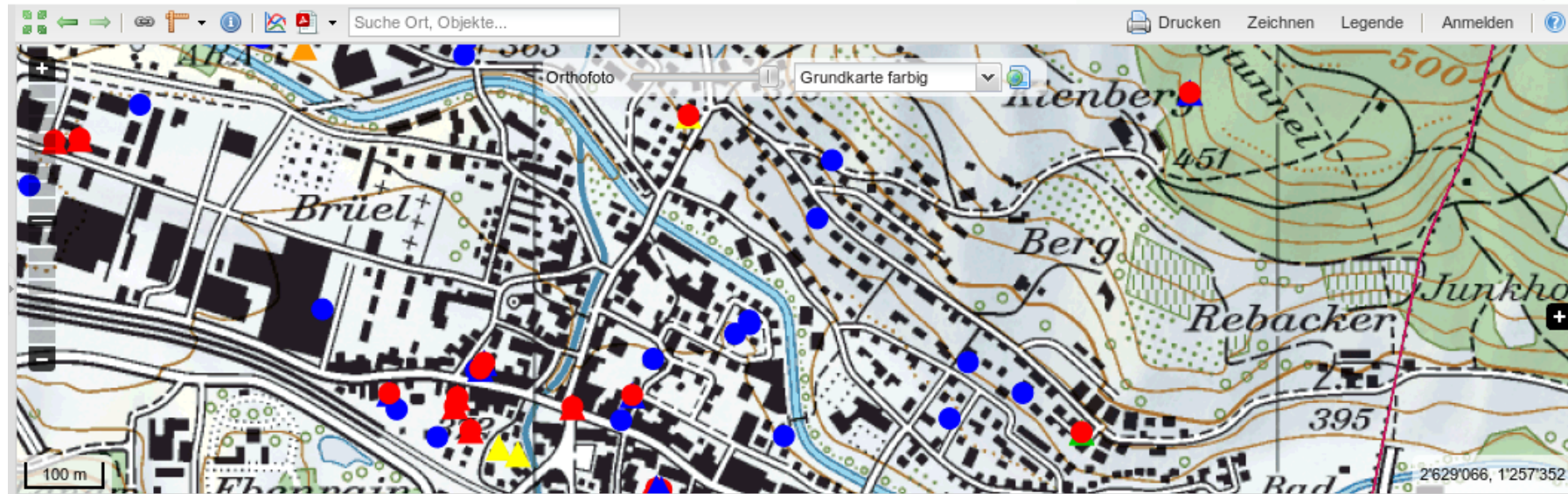
At the bottom of the application, there is a scale bar (500 m), a map style selector (Orthophoto / Plan couleur), and a coordinate display (Echelle: 1 : 40'000, Coordonnées CH1903 [m] : 545072 / 179515). The footer of the application includes the text 'Données dépourvues de foi publique © Grandson • Yverdon-les-Bains • État de Vaud • swisstopo • OpenStreetMap'.



Queries (Point/BBOX) - Grid

GeoView BL

PK | SWISSIMAGE | Geolog. Atlas/Spezialkarten | Quelle swisstopo
GIS-Fachstelle BL | Mühlemattstrasse 36 | CH-4410 Liestal



Masstab 1 : 7'500

KML hinzufügen

offene Baugesuche (nach Geb.typ) Baugesuche Vorjahr (nach Status) Baugesuche aktuelles Jahr (nach Status)

Baugesuchsnu...	Serie	Serie Jahr	Status	Projekt	Baugesuchsart	Projekt Gebäud...	Projekt Ergänzung	Geschäftsdatum	Bewilligungsdatum	Auflagefri
1400/2014	37	2015		Zweckänderung...	Baugesuche mit...	Um- und Anbaut...	Neuaufgabe: Zw...	07.09.2015		21.09.
1660/2015	42	2015		Mehrfamilienhau...	Baugesuche mit...	Geschäftshäuser		12.10.2015		26.10.
1660/2015	42	2015		Mehrfamilienhau...	Baugesuche mit...	Geschäftshäuser		12.10.2015		26.10.
1660/2015	42	2015		Mehrfamilienhau...	Baugesuche mit...	Geschäftshäuser		12.10.2015		26.10.
0606/2016	15	2016		Um- und Anbaut...	Baugesuche mit...	Um- und Anbaut...		11.04.2016		25.04.
0606/2016	15	2016		Um- und Anbaut...	Baugesuche mit...	Um- und Anbaut...		11.04.2016		25.04.
1281/2013	46	2014		Abbruch 2.Wob...	Baugesuche mit...	Wohnhäuser	Neuaufgabe: Ge...	10.11.2014		24.11.

Auswahl Auf Auswahl anwenden

9 Resultate Resultate löschen



Search

Guichet cartographique cantonal
Accueil Thèmes RSS Contact Commande

Recherche et localisation

- lausane
 - Lausanne, parcelle 10018
 - Lausanne, parcelle 10019
 - Lausanne, parcelle 1002
- Communes**
- Lausanne (Commune)
 - Belmont-sur-Lausanne (Commune)
 - Cheseaux-sur-Lausanne (Commune)
 - Le Mont-sur-Lausanne (Commune)
 - Romanel-sur-Lausanne (Commune)
- Adresses**
- Cheseaux-sur-Lausanne, Route de Lausanne 1
 - Cheseaux-sur-Lausanne, Route de Lausanne 10
 - Cheseaux-sur-Lausanne, Route de Lausanne 11
 - Cheseaux-sur-Lausanne, Route de Lausanne 12
 - Cheseaux-sur-Lausanne, Route de Lausanne 14
 - Cheseaux-sur-Lausanne, Route de Lausanne 15

Recherche et localisation

lausane

- Lausanne, parcelle 10018
- Lausanne, parcelle 10019
- Lausanne, parcelle 1002

CH-1903 / LV03, coordonnées (m) : 567141, 137086

Orthophoto

rue du
Croset, ruelle du 1, 1009 PULLY
Croset, ruelle du 2, 1009 PULLY
Croset, ruelle du 3, 1009 PULLY
Croset, ruelle du 4, 1009 PULLY
Croset, ruelle du 5, 1009 PULLY
Croset, ruelle du 6, 1009 PULLY
Croset, ruelle du 8, 1009 PULLY
Rueyres, chemin de 1, 1092 BE...
Rueyres, chemin de 11, 1092 B...
Rueyres, chemin de 3, 1092 BE...
Rueyres, chemin de 4, 1092 BE...
Rueyres, chemin de 5, 1092 BE...
Rueyres, chemin de 7, 1092 BE...

Chemin des Plateir

3493a
3493b
3433a
3433b
3707b

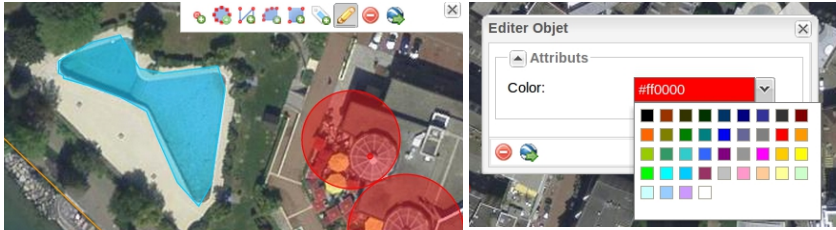
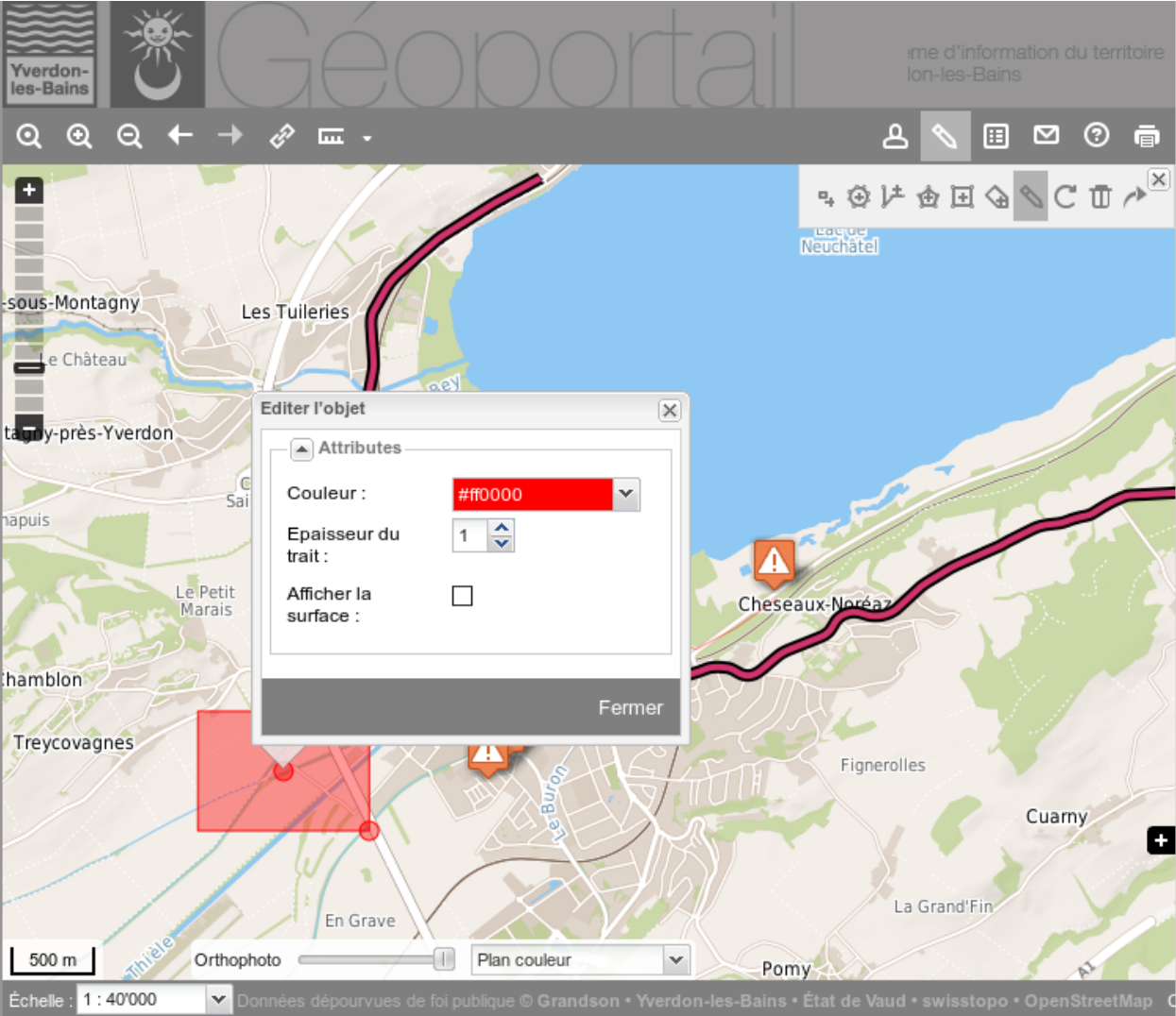
5 km

Informations dépourvues de foi publique, © Etat de Vaud, géodonnées © Swisstopo 5704004385, OpenStreetMap Échelle : 1 : 500'000

Ajouter d'autres données :
Rechercher des données...



Redlining



Print

Géoportail du Système d'Information du Territoire Neuchâtelois

Accueil - Thèmes - Géodonnées - Géoservices - Version mobile - Aide - Liens - Contact - © SITN



Recherche et localisation

Rechercher un lieu ou un objet géographique

Choix des données

Thèmes

Thème : Plan de ville

Points d'intérêt

- Administration
- Culture / loisirs
- Points de collectes / Déchetterie
- Santé
- Services
- Sport
- Transports
 - Arrêts transports publics
 - P-vélo
 - Parkings relais
 - Parkings
 - Aéroports
 - Port public
 - Téléski - Télésièges

Ajouter d'autres données du SITN dans ce thème:

Rechercher des données...

Ajouter des données externes dans ce thème:

Ajouter KML Ajouter couche WMS

Format: 1 A4 paysage
Titre:
Commentaire:
 Inclure la légende
Échelle: 1:50 000
Rotation: 0

Exporter en PNG Imprimer

2 km

Lac de Neuchâtel, Lac de Morat

Informations dépourvues de foi publique, © SITN, swisstopo DV 571.4, les contributeurs d'OpenStreetMap, Maps Icons Collection

Result

Géoportail du Système d'Information du Territoire Neuchâtelois

ne.ch
RÉPUBLIQUE ET CANTON DE NEUCHÂTEL

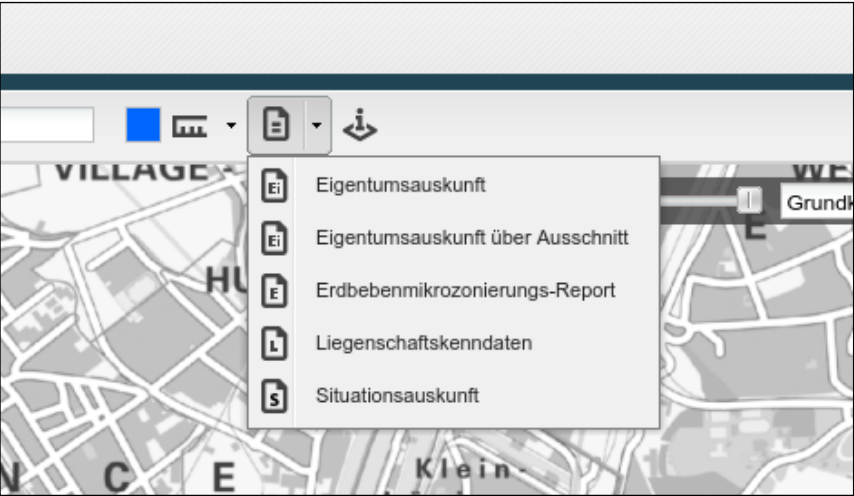
Échelle 1:50000

Impression du : 28.04.2016 15:11:18
Informations dépourvues de foi publique. Bien que ces renseignements soient été recueillis avec soin, aucune garantie n'est donnée quant à l'exactitude et la mise à jour des données de cette carte ou ce plan.

© SITN - Swisstopo DV 571.4 - OpenStreetMap

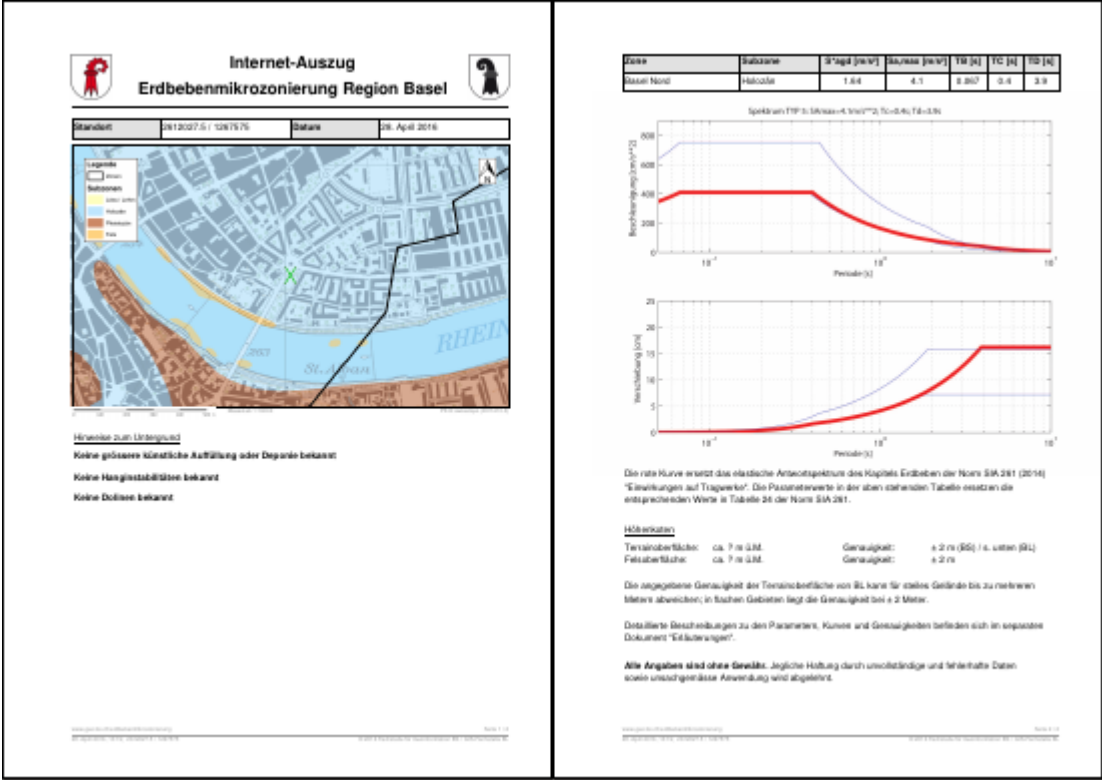


Geospatial Reporting



Streetwork
autorization

Natural hazards
Property description



Security (Layer, Zone, Attribute)

The image displays two screenshots of the Mapfish web application interface, illustrating user security and access levels.

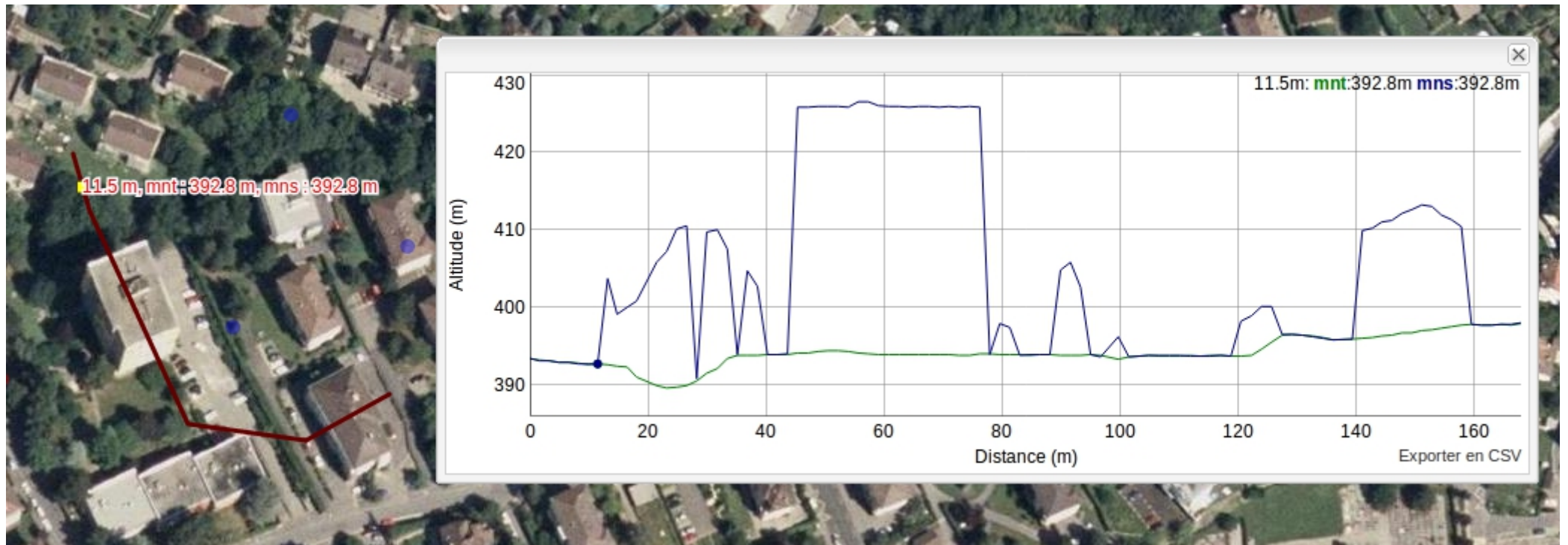
Top Screenshot (Anonymer User): Shows the application with the 'Login' button highlighted in red. The user is identified as an 'Anonymer User'.

Bottom Screenshot (Eingeloggter User): Shows the application with the 'Logged in as admin' status highlighted in red. The user is identified as an 'Eingeloggter User' (logged-in user). The legend for 'Density of population in 2005' is visible, showing five categories:

Density Range	Color
6 - 50	Lightest Orange
50 - 92	Light Orange
92 - 115	Medium Orange
115 - 210	Dark Orange
210 - 18475	Red



Elevation profile



Complex queries and export

The screenshot displays the CampToCamp web application interface. At the top left is the CampToCamp logo with the tagline "INNOVATIVE SOLUTIONS BY OPEN SOURCE EXPERTS". At the top right is the Mapfish logo. The main interface includes a search bar, navigation tools, and a map of Europe. The map shows several countries highlighted in red and orange, with labels for Spain, France, Italy, Germany, Austria, Poland, Romania, Bulgaria, Turkey, Latvia, and Belarus. A complex query is applied to the "borders" layer, with the following conditions:

- Layer: borders
- Matching: all these conditions:
- Condition 1: fips contains 'a' (checked)
- Condition 2: intersects (checked)

The Results pane on the right shows the following items:

- borders (4 items)
- borders 1
- borders 2
- borders 3
- borders 4

At the bottom of the interface, there is a scale bar (500 km), a map style selector (Orthophoto / plan), and coordinates (3109794, 5706050).



Building Floorslider

The screenshot displays the 'Building Floorslider' software interface. On the left, a sidebar titled 'Thèmes' (Themes) allows users to search for themes or layers. It includes sections for 'Mobilité' (Mobility) with options for Vélo, Moto, Electrique, and Location; and 'Evénements' (Events) with options for Balelec, Lieux ponctuels, Site, and Espaces. The 'Site' option is currently selected. Below the sidebar is a search bar labeled 'Recherche...'. A vertical 'Étages' (Floors) selector is positioned next to the sidebar, ranging from 'Ciel' (Sky) to -4. The main area shows a detailed architectural floor plan of a building complex, with various rooms and areas labeled with codes such as RLC A1 110, RLC B1 210, RLC D1 210, RLC G1 220, RLC F1 220, RLC C1 330, RLC A1 150, RLC C1 120, RLC F1 321, RLC F1 324, RLC G1 210, RLC G1 230, RLC G1 231, RLC G1 250, RLC G1 350, RLC D1 430, RLC D1 530, RLC D1 531, RLC D1 630, RLC D1 452, RLC D1 650, RLC D1 660, RLC D1 460, RLC D1 560, RLC D1 661, RLC G1 94.12, RLC G1 94.13, RLC G1 440, RLC A1 141, RLC A1 131, RLC A1 341, RLC A1 130, RLC A1 220, RLC A1 230, RLC B1 610, RLC B1 710, RLC B1 810, RLC B1 520, RLC B1 720, RLC C1 820, RLC D1 230, RLC D1 450, RLC D1 650, RLC D1 740, RLC D1 780, RLC D1 781, RLC D1 782, RLC D1 783, RLC D1 784, RLC D1 785, RLC D1 786, RLC D1 787, RLC D1 788, RLC D1 789, RLC D1 790, RLC D1 791, RLC D1 792, RLC D1 793, RLC D1 794, RLC D1 795, RLC D1 796, RLC D1 797, RLC D1 798, RLC D1 799, RLC D1 800, RLC D1 801, RLC D1 802, RLC D1 803, RLC D1 804, RLC D1 805, RLC D1 806, RLC D1 807, RLC D1 808, RLC D1 809, RLC D1 810, RLC D1 811, RLC D1 812, RLC D1 813, RLC D1 814, RLC D1 815, RLC D1 816, RLC D1 817, RLC D1 818, RLC D1 819, RLC D1 820, RLC D1 821, RLC D1 822, RLC D1 823, RLC D1 824, RLC D1 825, RLC D1 826, RLC D1 827, RLC D1 828, RLC D1 829, RLC D1 830, RLC D1 831, RLC D1 832, RLC D1 833, RLC D1 834, RLC D1 835, RLC D1 836, RLC D1 837, RLC D1 838, RLC D1 839, RLC D1 840, RLC D1 841, RLC D1 842, RLC D1 843, RLC D1 844, RLC D1 845, RLC D1 846, RLC D1 847, RLC D1 848, RLC D1 849, RLC D1 850, RLC D1 851, RLC D1 852, RLC D1 853, RLC D1 854, RLC D1 855, RLC D1 856, RLC D1 857, RLC D1 858, RLC D1 859, RLC D1 860, RLC D1 861, RLC D1 862, RLC D1 863, RLC D1 864, RLC D1 865, RLC D1 866, RLC D1 867, RLC D1 868, RLC D1 869, RLC D1 870, RLC D1 871, RLC D1 872, RLC D1 873, RLC D1 874, RLC D1 875, RLC D1 876, RLC D1 877, RLC D1 878, RLC D1 879, RLC D1 880, RLC D1 881, RLC D1 882, RLC D1 883, RLC D1 884, RLC D1 885, RLC D1 886, RLC D1 887, RLC D1 888, RLC D1 889, RLC D1 890, RLC D1 891, RLC D1 892, RLC D1 893, RLC D1 894, RLC D1 895, RLC D1 896, RLC D1 897, RLC D1 898, RLC D1 899, RLC D1 900, RLC D1 901, RLC D1 902, RLC D1 903, RLC D1 904, RLC D1 905, RLC D1 906, RLC D1 907, RLC D1 908, RLC D1 909, RLC D1 910, RLC D1 911, RLC D1 912, RLC D1 913, RLC D1 914, RLC D1 915, RLC D1 916, RLC D1 917, RLC D1 918, RLC D1 919, RLC D1 920, RLC D1 921, RLC D1 922, RLC D1 923, RLC D1 924, RLC D1 925, RLC D1 926, RLC D1 927, RLC D1 928, RLC D1 929, RLC D1 930, RLC D1 931, RLC D1 932, RLC D1 933, RLC D1 934, RLC D1 935, RLC D1 936, RLC D1 937, RLC D1 938, RLC D1 939, RLC D1 940, RLC D1 941, RLC D1 942, RLC D1 943, RLC D1 944, RLC D1 945, RLC D1 946, RLC D1 947, RLC D1 948, RLC D1 949, RLC D1 950, RLC D1 951, RLC D1 952, RLC D1 953, RLC D1 954, RLC D1 955, RLC D1 956, RLC D1 957, RLC D1 958, RLC D1 959, RLC D1 960, RLC D1 961, RLC D1 962, RLC D1 963, RLC D1 964, RLC D1 965, RLC D1 966, RLC D1 967, RLC D1 968, RLC D1 969, RLC D1 970, RLC D1 971, RLC D1 972, RLC D1 973, RLC D1 974, RLC D1 975, RLC D1 976, RLC D1 977, RLC D1 978, RLC D1 979, RLC D1 980, RLC D1 981, RLC D1 982, RLC D1 983, RLC D1 984, RLC D1 985, RLC D1 986, RLC D1 987, RLC D1 988, RLC D1 989, RLC D1 990, RLC D1 991, RLC D1 992, RLC D1 993, RLC D1 994, RLC D1 995, RLC D1 996, RLC D1 997, RLC D1 998, RLC D1 999, RLC D1 1000. The interface also features a search bar at the top right with the text 'Recherche...', a 'Changer de campus' dropdown, 'Surlignage', 'Légende', and 'login' links. At the bottom, there is a scale bar indicating 10 meters, a navigation bar with 'Orthophoto' and 'Plan' views, and a coordinate display showing '533216, 152245'. The 'Imprimer' (Print) button is located in the bottom left corner.



Mobile layout

- Same data source configuration as the desktop
- Geolocation



Multilingual

The image displays three screenshots of a web-based GIS application interface, demonstrating its multilingual capabilities. Each screenshot shows a map of a mountainous region with various layers and settings visible.

- Top Left (Italian):** The interface is in Italian. The language menu shows "Italiano" selected. The map shows a region with labels like "Fims Dorf", "Domat/Ems", "Chur", "Klosters", "Davos Platz", "Arosa", "Lenzerheide/Lai", "Filisur", "Tiefencastel", "Bergun/Bravuogn", "Savognin", "Splügen", "Hinterhein", "St. Moritz", "Mesocco", "Lombardia", "Ticino", "Rossa", "Sfondrio". The legend on the left includes "Namen", "Ortschaften", and "Seen".
- Top Right (Romansch):** The interface is in Romansh. The language menu shows "Rumantsch" selected. The map shows a region with labels like "Schwyz", "Uri", "Glarus", "Landquart", "Schiers", "Klosters", "Davos Platz", "Savognin", "St. Moritz", "Zernez", "St. Maria V.M.", "Poschiavo", "Lombardia". The legend on the left includes "Namen", "Ortschaften", and "Seen".
- Bottom (German):** The interface is in German. The language menu shows "Deutsch" selected. The map shows a region with labels like "Schwyz", "Uri", "Glarus", "Landquart", "Schiers", "Klosters", "Davos Platz", "Savognin", "St. Moritz", "Zernez", "St. Maria V.M.", "Poschiavo", "Lombardia", "Ticino", "Mesocco", "Roveredo", "Hintergrund". The legend on the left includes "Namen", "Ortschaften", and "Seen".

Arrows point from the language labels "Italianisch", "Deutsch", and "Romanisch" to the corresponding language menu items in the screenshots.



GUI Administration

Index des modèles

- [Couches](#)
- [Utilisateurs](#)
- [Rôles](#)
- [Aires de restriction](#)
- [Thèmes](#)
- [Groups de couches](#)
- [Fonctionnalités](#)

RestrictionArea restriction_area4

name
restriction_area4

description
Pully


layers

- Cadastre
- WA
 - wa_strangv1_line
 - wa_hydrant_mg_point
 - wa_schieber_qgis_point
- batiments hs
- batiments ss
- parcelles
- testgrp

roles

- role_user
- role_admin
- role_paudex
- role_belmont
- role_pully

area



Map showing the restriction area around Pully, Lausanne, and Belmont-sur-Lausanne. The area is highlighted in orange. The map includes labels for various locations: Epalinges, La Claille-aux-Moines, Savigny, Fore, Belmont-sur-Lausanne, Corsy, Pully, Faudex, Lutry, and Villetta (Lavaux). The map is overlaid on a satellite view of the region.



Geodata Edit

1

2

3

4

Save changes

Object #	
localite	Mon Lieux
npa	1234
npa_comp	12

Object #	
nom_point	Test
lien	http://www.
validation	false
date_validation	
lien_email	
lien_telephone	
saaisie_utilisateur	
saaisie_date	
type_id	

Mai 2012						
L	M	M	J	V	S	D
30	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	1	2	3
4	5	6	7	8	9	10



Routing

Routing

From:

To:

Travel by:

Route Description

Total Distance: 5.8 km
Total Time: 8m 4s

Directions:

	DIRECTION_10	19 m
	DIRECTION_1	15 m
	DIRECTION_1	16 m
	DIRECTION_1	16 m
	DIRECTION_3	189 m
	DIRECTION_11-1	84 m
	DIRECTION_1	15 m
	DIRECTION_11-3	304 m
	DIRECTION_11-2	199 m
	DIRECTION_11-1	904 m
	DIRECTION_11-1	1.5 km
	DIRECTION_11-2	1.2 km

Map labels: Bussigny-près-Lausanne, Crissier, Jouxens-Mézery, Prilly, Renens, Ecublens, Saint-Sulpice, Lausanne, Université de Lausanne (UNIL), Avenue d'Origny, CGN, Forêt de Sauvabel, Le Mo.

Map controls: 1000 m scale bar, Aerial Map / OSM Map toggle, coordinates 735081, 5864210.



JS API for map integration in CMS

Présentation

Partenaires

Données

Visualiseur cartographique standard

Visualiseur cartographique simplifié

Formulaire de recherche

La nappe en direct



Visualiseur
cartographique

SIMPLIFIÉ

STANDARD



Recherche
thématique

ACCÉDER



La nappe
en direct

Accueil / Observatoire de l'eau / Données / La nappe en direct



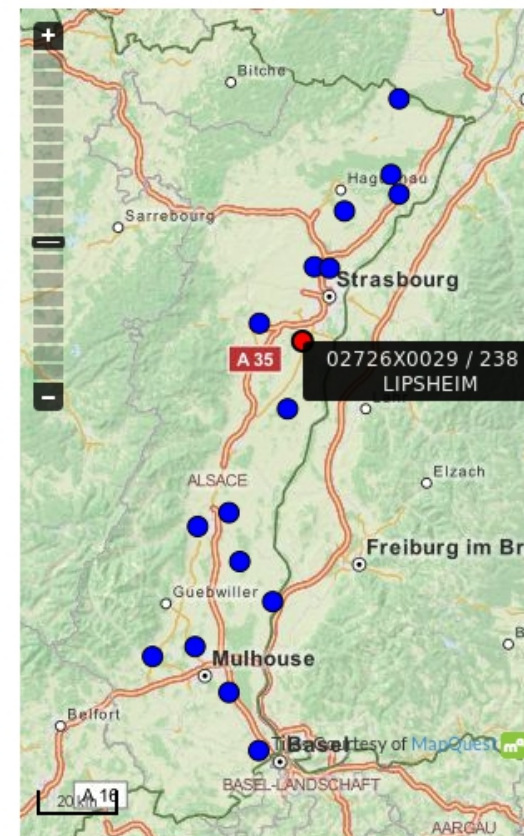
La nappe en direct

Suivi en direct du niveau de la nappe pour 17 points du réseau APRONA :

- 01695X0131 / F - WISSEMBOURG
- 01995X0012 / 342B - SESSENHEIM
- 01995X0103 / 338B1 - HAGUENAU
- 02346X0139 / 313A - LAMPERTHEIM
- 02347X0022 / 314 - REICHSTETT
- 02714X0219 / PZ - ALTORF
- 02726X0029 / 238 - LIPSHEIM
- 03081X0025 / 223 - ROSSFELD
- 03427X0027 / 92 - HOLTZWIHR
- 03795X0093 / PZ-N2 - FESSENHEIM
- 04458X0023 / S3 - HESINGUE
- 02343X0003 / 561 - WEITBRUCH
- 03426X0226 / PZ3 - WINTZENHEIM
- 03783X0046 / 71 - HETTENSCHLAG
- 04124X0105 / P16 - CERNAY
- 04132X0086 / PP6 - WITTENHEIM
- 04137X0018 / 15 - HABSHEIM

Pour chaque station, un graphique présente l'évolution des niveaux de la nappe sur les 15 derniers jours et un second sur les 12 derniers mois.

Les données sont actualisées toutes les 12 heures, à 8h30 et 20h30. Les mesures sont mises en ligne automatiquement sans procédure de contrôle.



Simple Viewer



Formulaire de recherche | Visualiseur simplifié | Visualiseur standard | Retour au site

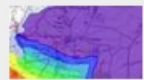
THEMES :



Suivi des niveaux de nappe(s)



Ecoulements dans la nappe rhénane



Epaisseur de la nappe



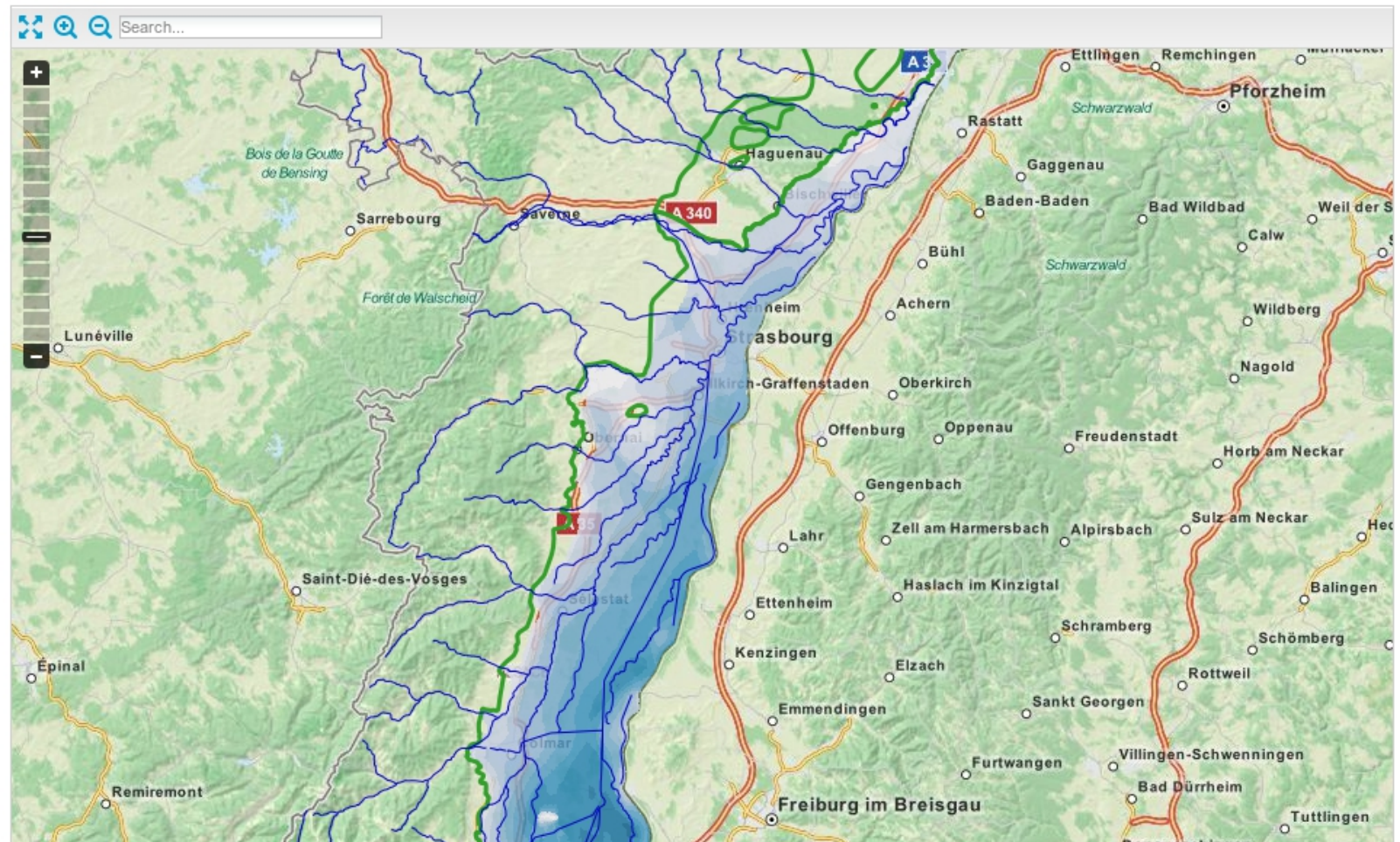
Suivi "qualité" des eaux souterraines



Teneurs en nitrates - 2009



carto.aprona.net/main/wsgi/apiviewer/#



Standard Viewer

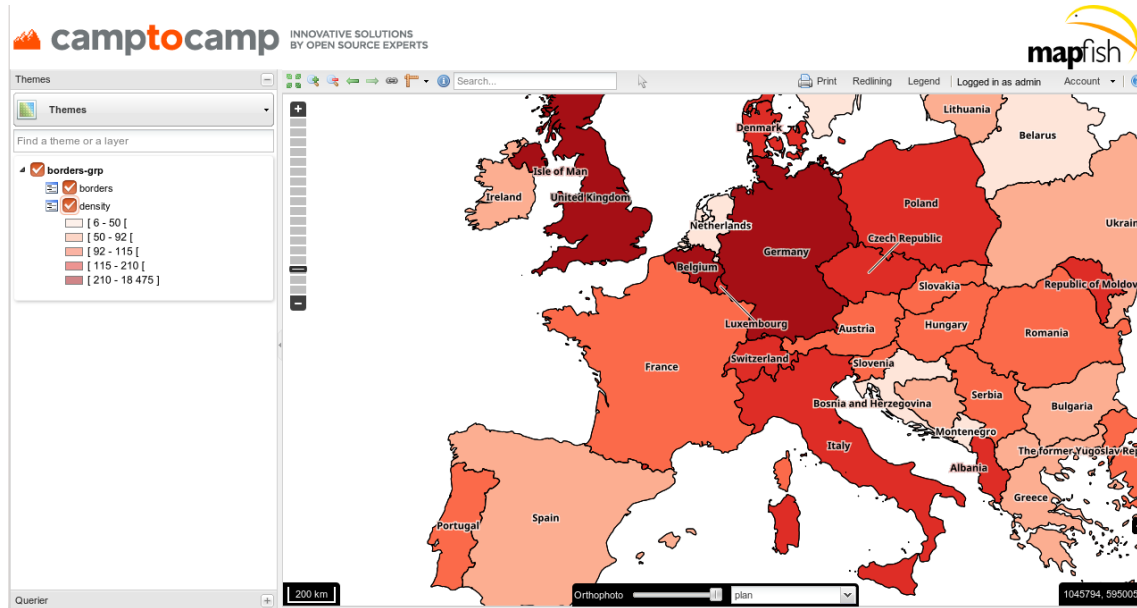


[Formulaire de recherche](#) | [Visualiseur simplifié](#) | **Visualiseur standard** | [Retour au site](#)

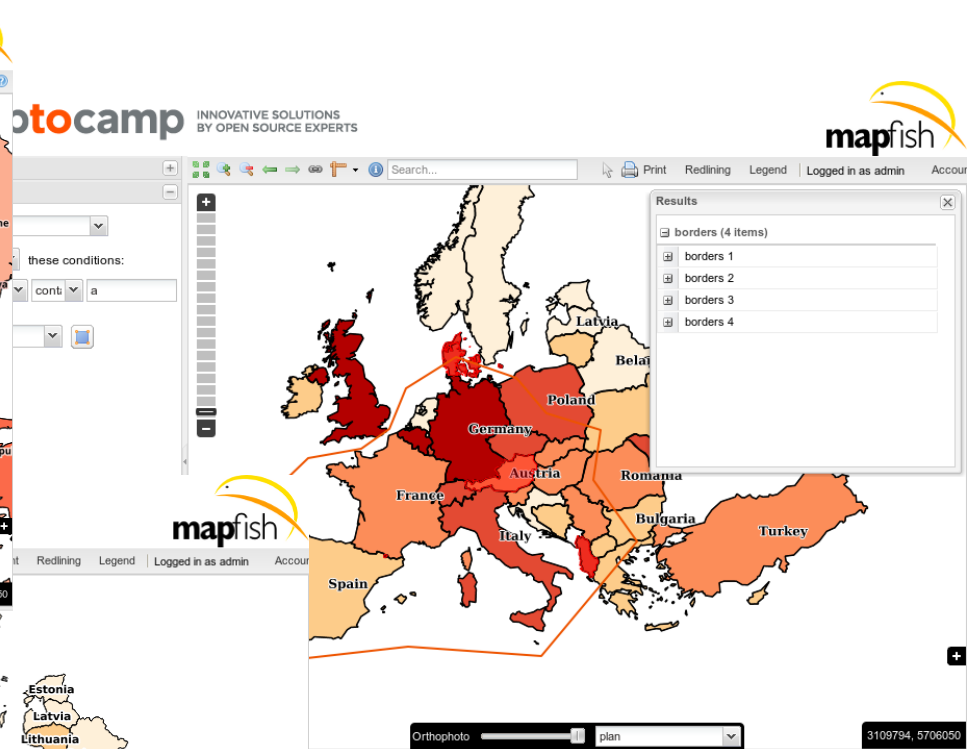
The screenshot shows the APRONA Standard Viewer interface. On the left, a 'Themes' sidebar is visible with a search bar and a list of themes: 'Piézométrie', 'Qualité Eaux souterraines (ESOU)', 'Hydrométrie', and 'Qualité Eaux superficielles (ESU)'. The main map area displays a topographic map of the Alsace region, centered on Freiburg im Breisgau. The map is overlaid with a dense cluster of green circular markers, primarily concentrated in the central and western parts of the region. The map includes various geographical features like roads (A5, B294, B31a, B3, B31, E35), towns (Herbolzheim, Kenzingen, Emmendingen, Waldkirch, Breisach am Rhein, Hartheim, Bad Krozingen, Staufen im Breisgau, Sulzburg, Müllheim), and a scale bar indicating 10 km. The bottom of the interface shows a 'Querier' (query) tool, a copyright notice for 'Géodonnées : Aprona, Géoportail, CIGAL, OpenStreetMap', and a zoom level of 1:270'000.



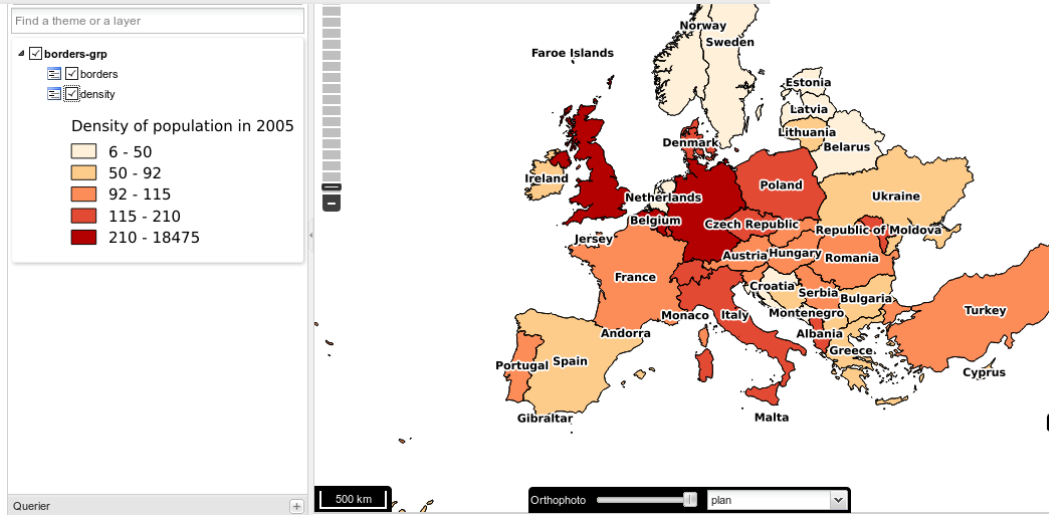
Different OGC Servers



MapServer



Geoserver



QGIS server



GeoMapfish 2.x



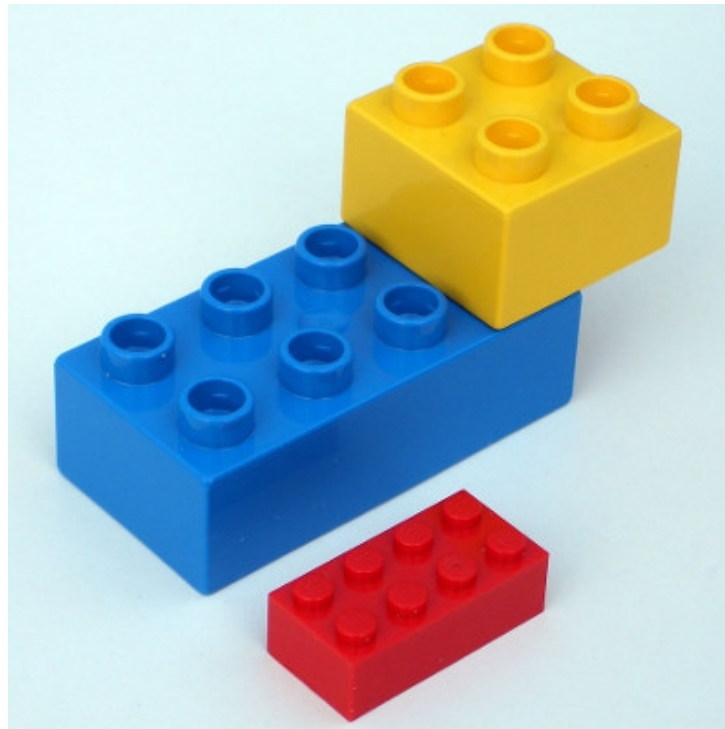
Software architecture libraries V2

- Client side
 - Openlayers 3
 - AngularJS
 - Ngeo: Library combining OpenLayers 3 and AngularJS
 - Bootstrap
- Server Side == Update GMF 1
 - MapFish protocol and OGC protocols
 - Pyramid (Pylons Framework)
 - Closure Compiler (advanced mode)
- A lot of Continuous Integration (CI) tests



Ngeo – Design principles

- Provide atomic components that can be combined in many different ways
- <https://github.com/camptocamp/ngeo>
- ngeo core
- ngeo contribs
 - contribs / gmf



New Layout – desktop

Put your logos or menus here

Theme: OSM -

- > Fonctions OSM
- > Couches
- > Groupe

Recherche...

Parcelles cadastrales (21) Adresses (3) Arbres (342)

Cadastre	N° de bien-fonds	Source	Type	Surface RF [m²]	Propriétaire
ROCHEFORT	DP61	parcellaire officiel	DP COMM	1353	Cliquer ici
ROCHEFORT	DP101	parcellaire officiel	DP CANT	2164	Cliquer ici
ROCHEFORT	2631	parcellaire officiel	PARCELLE	1141	Cliquer ici
ROCHEFORT	763	parcellaire officiel	PARCELLE	1536	Cliquer ici
ROCHEFORT	1168	parcellaire officiel	PARCELLE	223	Cliquer ici
ROCHEFORT	1270	parcellaire officiel	PARCELLE	599	Cliquer ici
ROCHEFORT	2475	parcellaire officiel	PARCELLE	1633	Cliquer ici

Select 3 selected elements Zoom to Export as CSV

Schlossmatten

- Vide
- ✓ Carte
- Carte N&B
- Othophoto

lego Widmar

Köniz Liebefeld / Neumatt

Lon/Lat

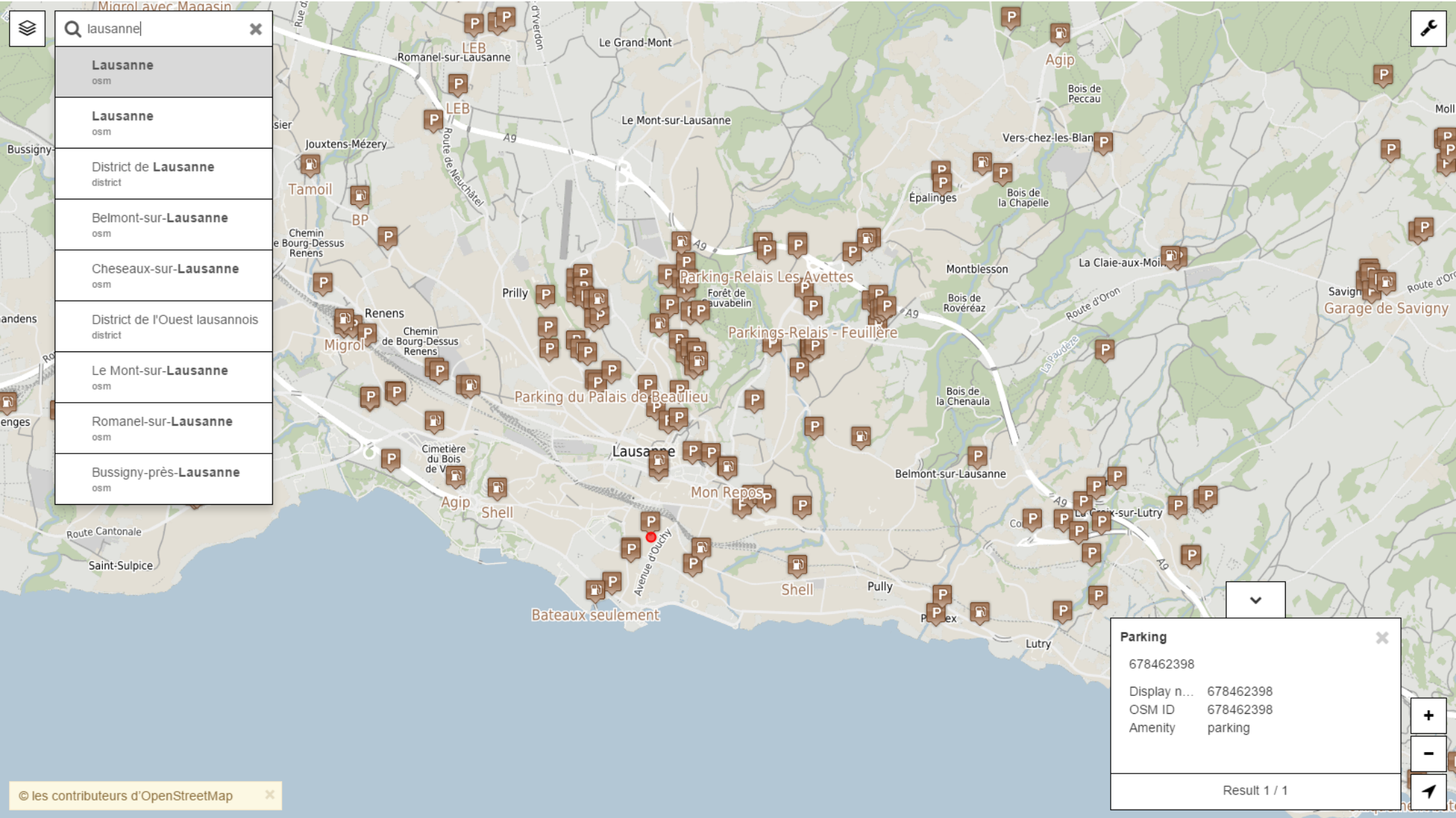
Lon/Lat DMS

✓ CH1903

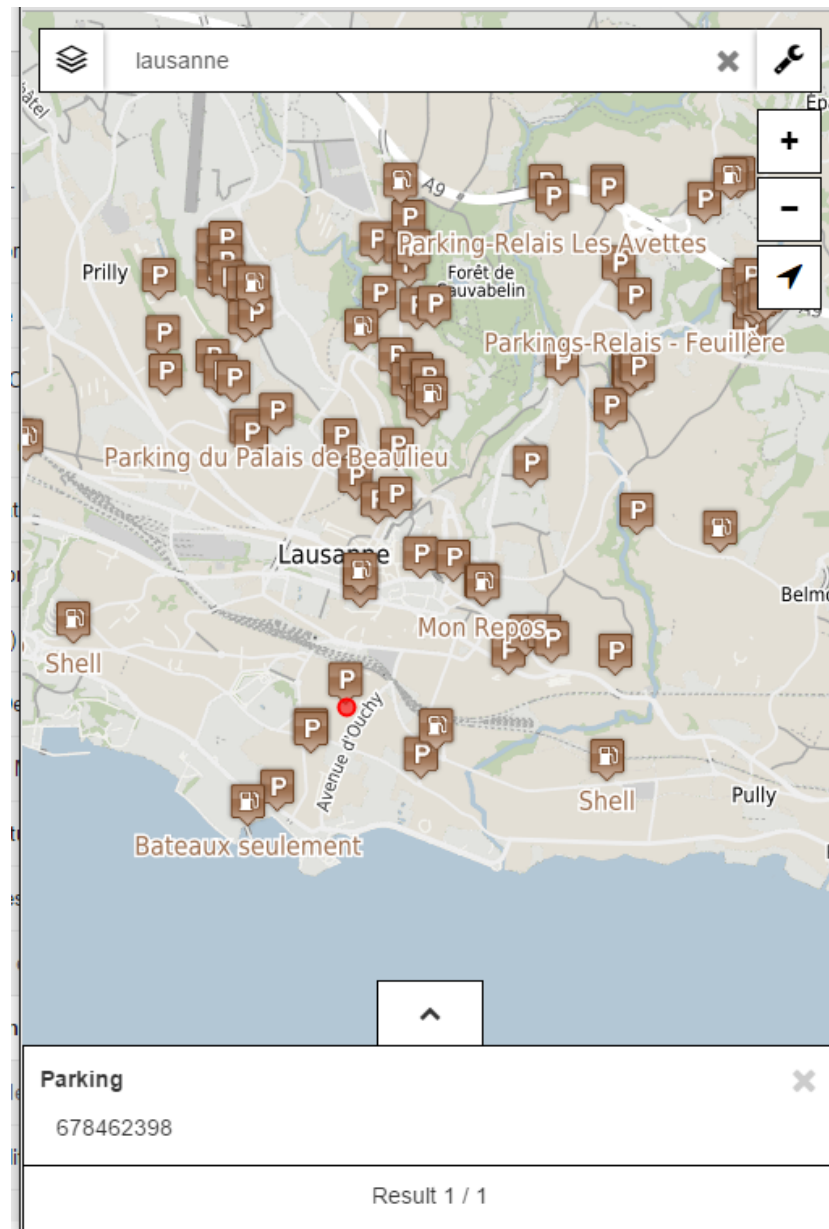
235m



Responsive – tablet



Responsive – smartphone



Layertree

Theme: **Cadastre**

- ▼ **Données générales**
 - Adresses
 - ∧ Communes
 - ∧ Distribution des plans
 - ∧ Distribution des plans
 - État de la mensuration officielle
- ▼ **Mensuration officielle**
 - ▼ Points cadastraux
 - ▲ Points fixes planimétriques PFP 1 et 2
 - Points fixes planimétriques PFA 1
 - ◎ Points fixes planimétriques PFP 3
 - ✓ Points fixes planimétriques PFP 4
 - > Objets divers
 - > Servitudes
 - > Biens-fonds

Theme: **Cadastre**

- ▼ **Mensuration officielle**
 - ▼ Points cadastraux
 - ▲ Points fixes planimétriques PFP 1 et 2
 - Points fixes planimétriques PFA 1
 - ◎ Points fixes planimétriques PFP 3
 - ✓ Points fixes planimétriques PFP 4
 - > **Données générales**
 - > Servitudes
 - > Biens-fonds



Time slider

Theme: **Cadastre**

Photos aériennes historiques

- ✓ Centre des photos N&B
- ✓ Emprise des photos N&B
- ✓ Centre des photos couleur
- ✓ Emprise des photos couleur

Theme: **Cadastre**

Photos aériennes historiques

- ✓ Centre des photos N
- ✓ Emprise des photos N
- ✓ Centre des photos couleur
- ✓ Emprise des photos couleur

A "clock" symbol tells the user that the group is time-aware.

From: 15/02/2016 to: 15/02/2016

February 15, 2016

Su	Mo	Tu	We	Th	Fr	Sa
	1	2	3			
7	8	9	10			
14	15	16	17			
21	22	23	24			
28	29					

Alternative for dates range.



Search results

Parcelles cadastrales (21) Adresses (3)

Cadastré ▼ N° de l

Cadastré ▼	N° de bien-fonds	Source	Type	Surface RF [m²]	Propriétaire
ROCHEFORT	DP61	parcellaire officiel	DP COMM	1353	Cliquer ici
ROCHEFORT	DP101	parcellaire officiel	DP CANT	2164	Cliquer ici
ROCHEFORT	2631	parcellaire officiel	PARCELLE	1141	Cliquer ici
ROCHEFORT	763	parcellaire officiel	PARCELLE	1536	Cliquer ici
ROCHEFORT	1168	parcellaire officiel	PARCELLE	223	Cliquer ici
ROCHEFORT	1270	parcellaire officiel	PARCELLE	599	Cliquer ici
ROCHEFORT	2475	parcellaire officiel	PARCELLE	1633	Cliquer ici

Select ▲ 3 selected elements 🔍 Zoom to 📄 Export as CSV

ICI

- All
- None
- Reverse selection

Select ▲



Print

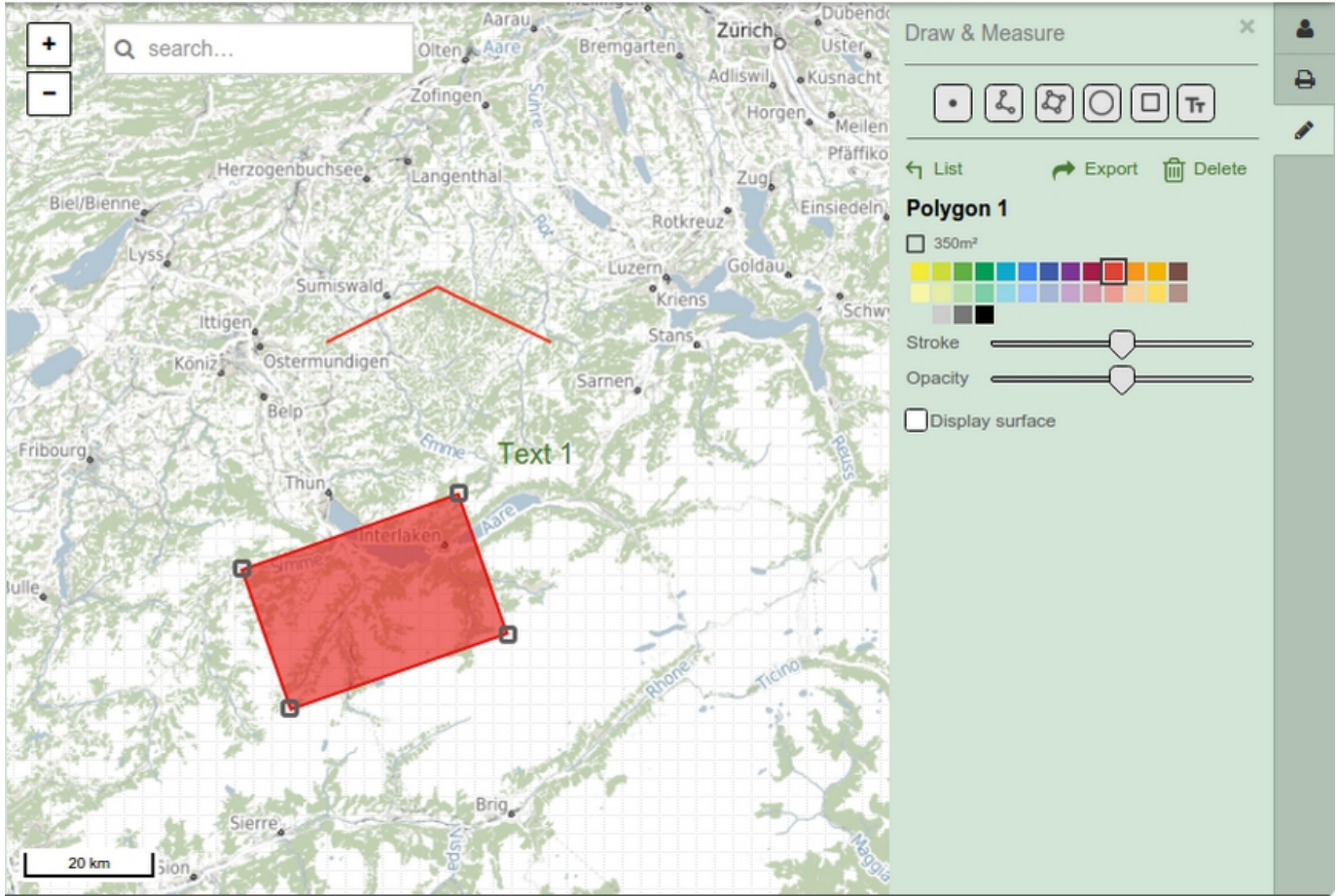
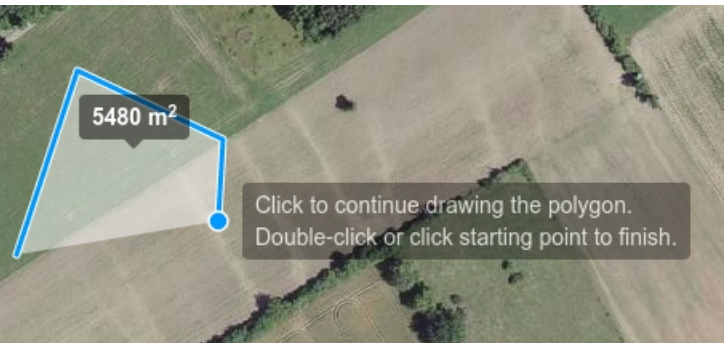
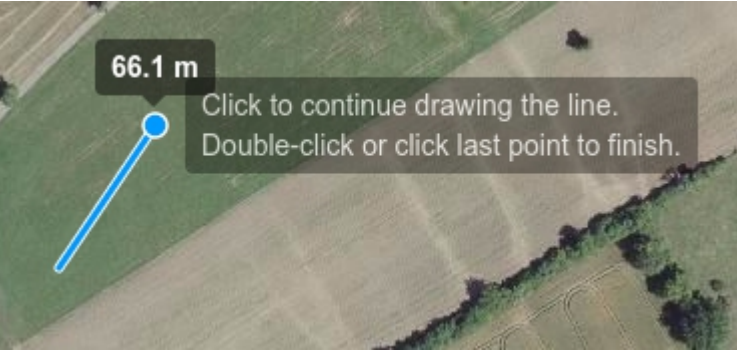
The screenshot shows a map application interface. On the left, there is a search bar with a magnifying glass icon and the text "Search...". Below the search bar are zoom in (+) and zoom out (-) buttons. The main map area displays a street map of a city with a grid overlay. A central area of the map is highlighted in a lighter shade, showing a cluster of red dots representing points of interest. Labels on the map include "Bahnhof Süd", "Kunstmuseum", "Landhaus", "Alpenblick", and "Bären". A scale bar at the bottom left indicates "1000 m".

On the right side, a "Print" dialog box is open. It features a close button (X) and a user profile icon. The dialog contains the following elements:

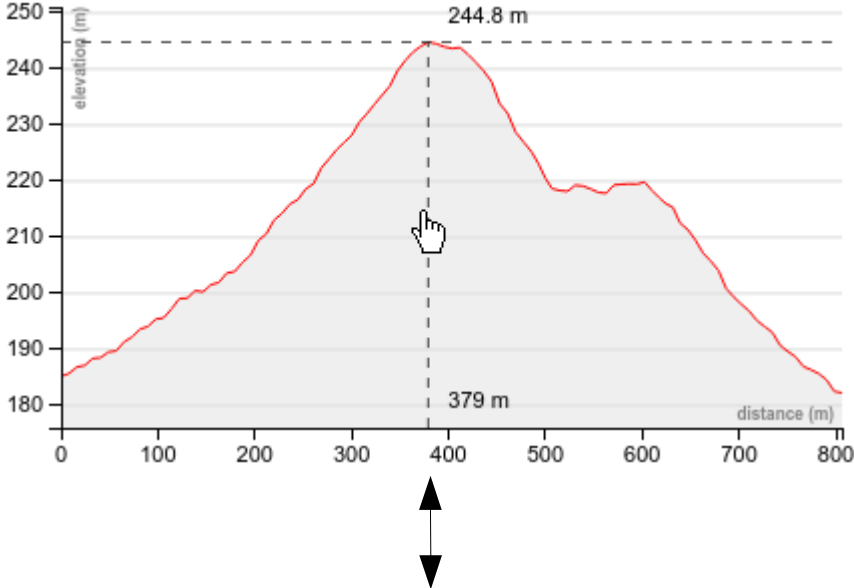
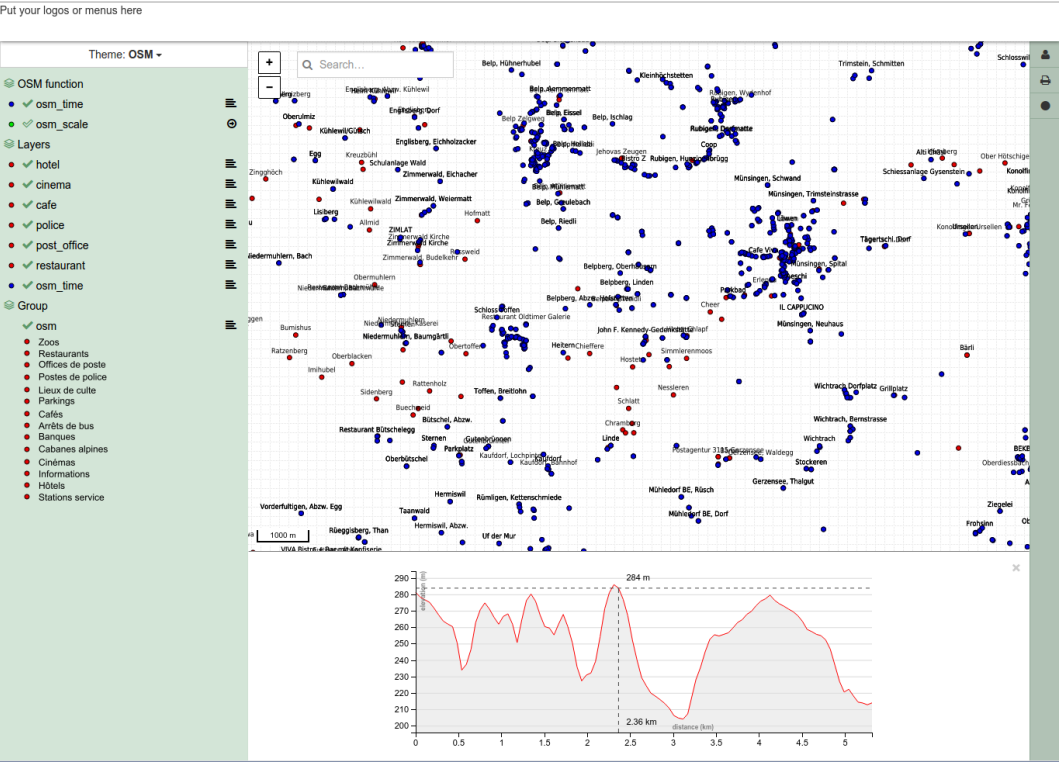
- A "Title" input field.
- A "Comment" input field.
- A "Legend" checkbox, which is currently unchecked.
- A "Format" dropdown menu set to "A4 portrait".
- A "Scale" dropdown menu set to "1 : 100,000".
- A "DPI" dropdown menu set to "300".
- A "Rotation" slider set to "45".
- Buttons for "Abort", "Image", and "PDF".



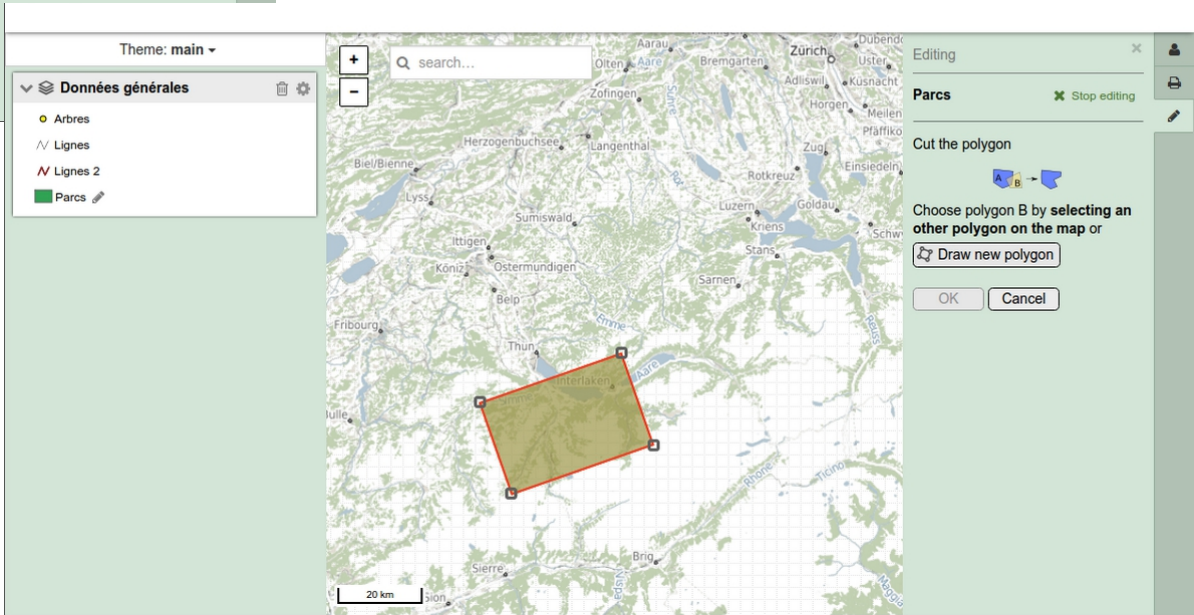
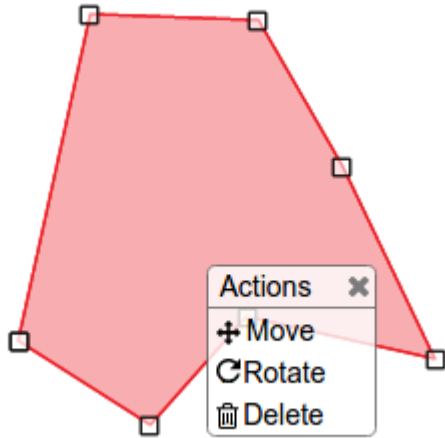
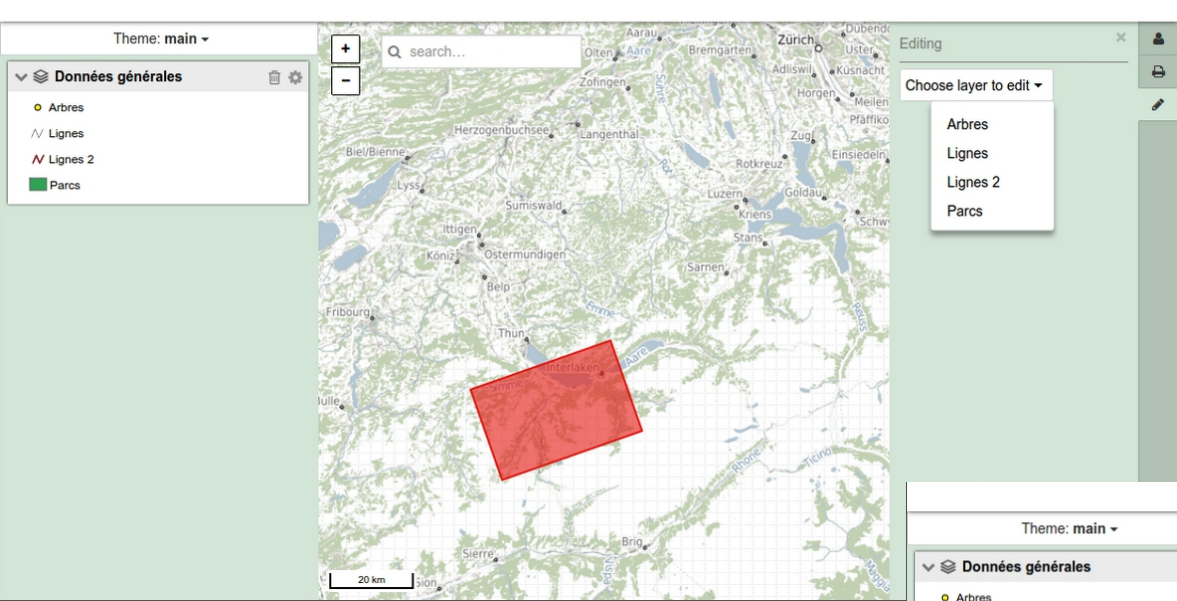
Measure and redlining



Elevation and LiDAR profiles



Edit, Snap, Update



Roadmap

■ Perspectives

- Add 3D views (Cesium)
- Extended editing features
- Tighter integration with QGIS and QGIS Server
- Iframe integration features
- ...



More information

- GeoMapfish : <http://geomapfish.org/>
 - Demo
 - Online WebGIS Links
 - Source Code (github)

- Visit our stand for more information

- www.camptocamp.com



to camp 

camp **to** camp

INNOVATIVE SOLUTIONS
BY OPEN SOURCE EXPERTS