OPEN GEO GROEP

Heron Mapping Client

An Overview

Coöperatieve Vereniging OpenGeoGroep U.A. - www.opengeogroep.nl

Just van den Broecke - www.justobjects.nl

Geonovum Dec 17, 2013

OPEN GEO GROEP

Agenda

- Nutshell
- Examples
- Concepts
- Q&A

OPEN GEO GROEP

What is Heron?

JavaScript **framework**
to **quickly** develop
geo-apps for
the **browser**

OPEN GEO GROEP

What Heron is not

not a viewer app

not even an app

not a client/server suite

OPEN GEO GROEP

Heron provides **building blocks** to create your own app

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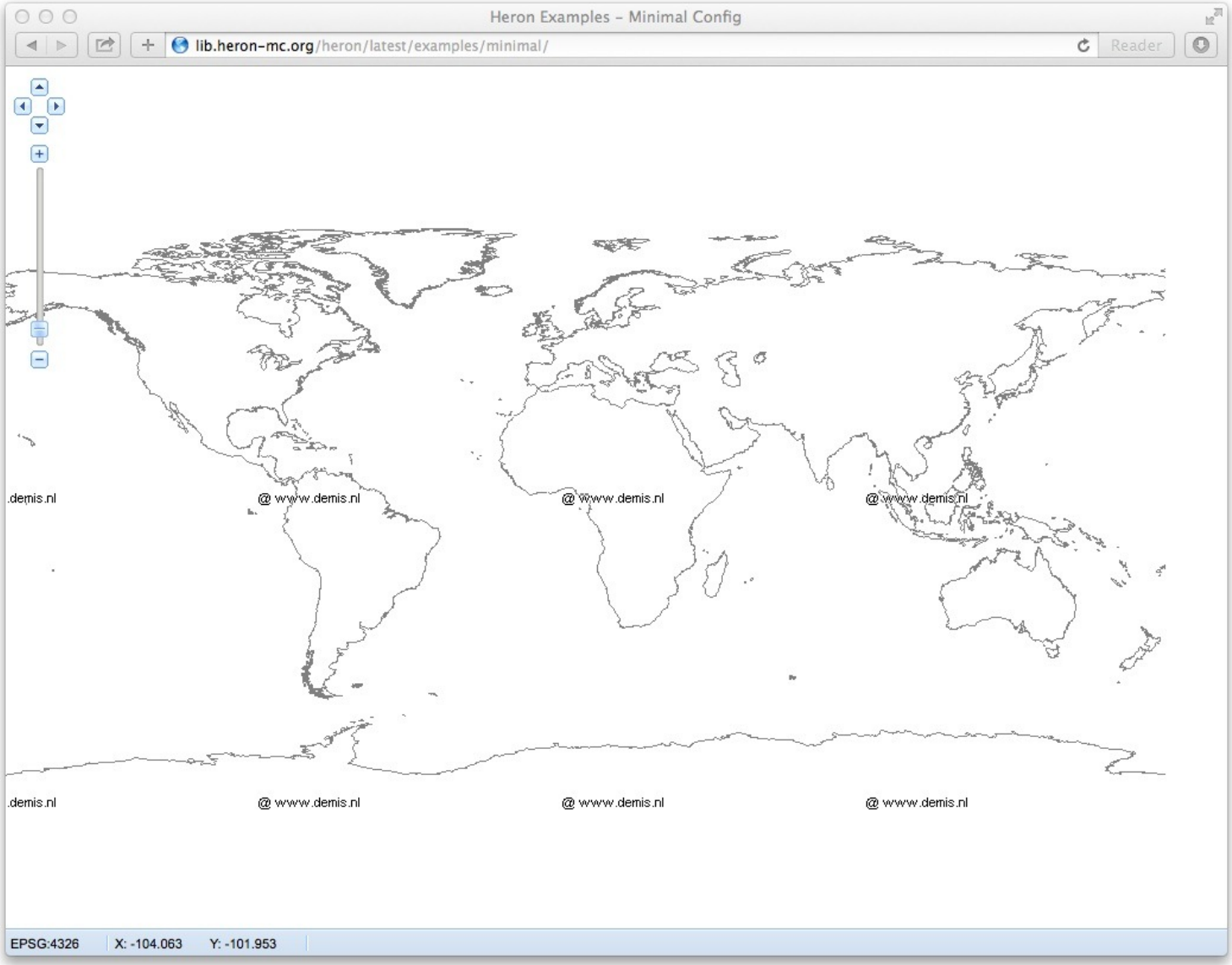
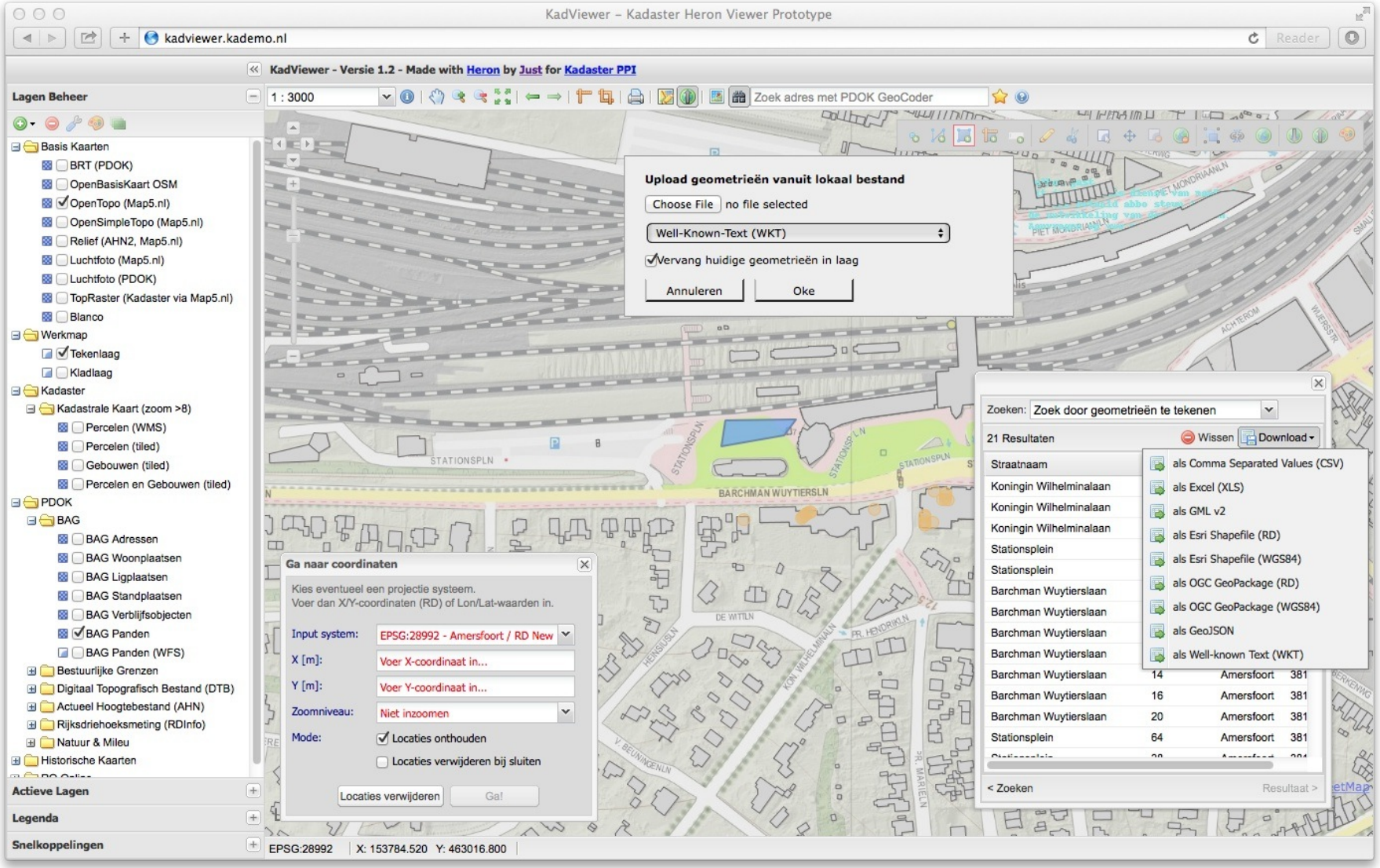
From a minimal map viewer



OPEN GEO GROEP

To more complex apps



OPEN GEO GROEP

Heron Embraces Standards and Code Reuse

server: OGC services

==> WMS, WFS, OpenLS, CSW, *WPS*, *SOS*

data: standard formats

==> GML, GeoJSON, CSV, Shape,...

code: existing libraries

==> GeoExt, OpenLayers, ExtJS

OPEN GEO GROEP

And more

Free and Open Source

==> GNU GPL v3 License

In The Cloud

==> public repository, no barriers

Community

==> small but growing, customers and devs

OPEN GEO GROEP

Main entry

www.heron-mc.org

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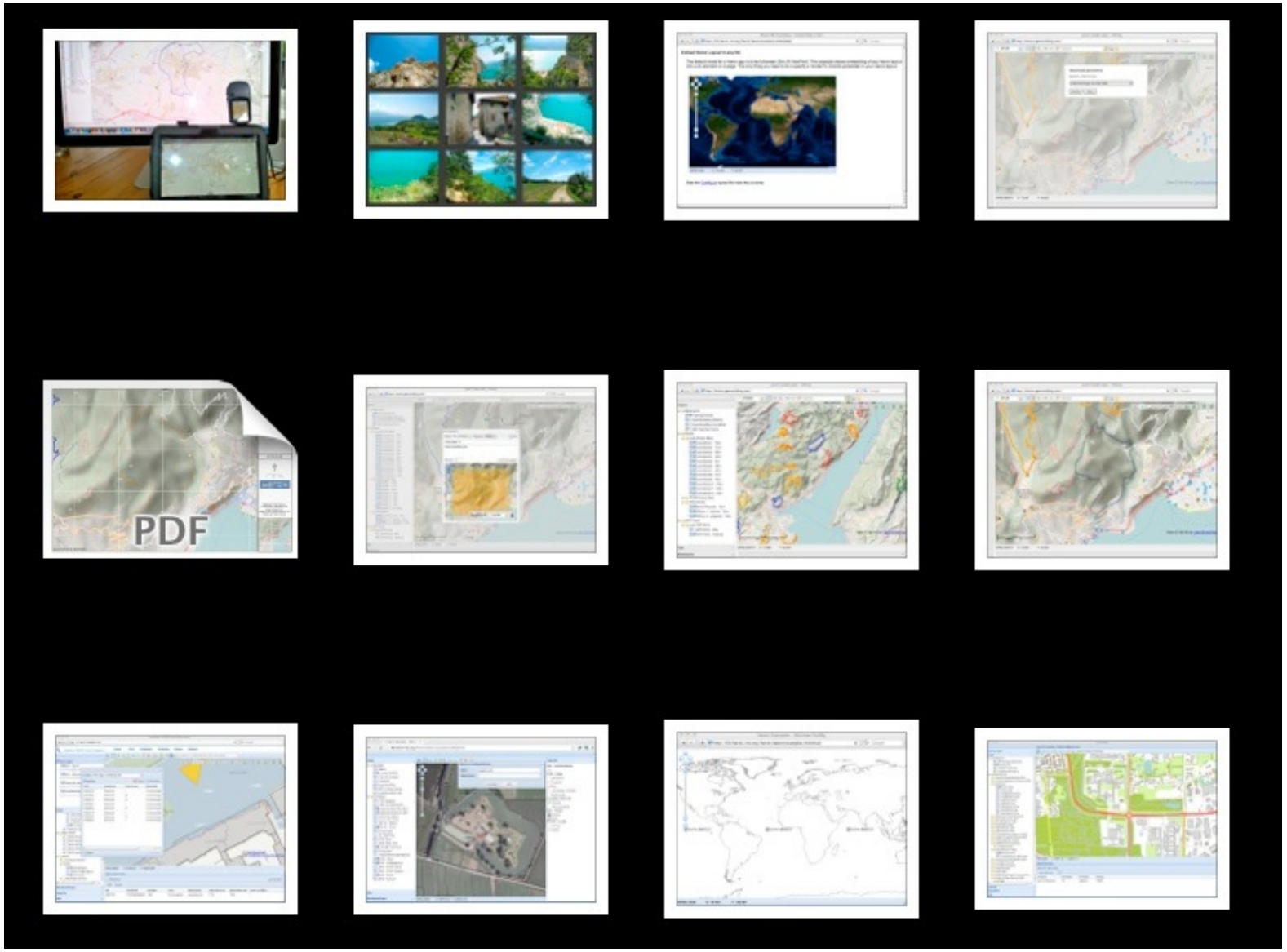
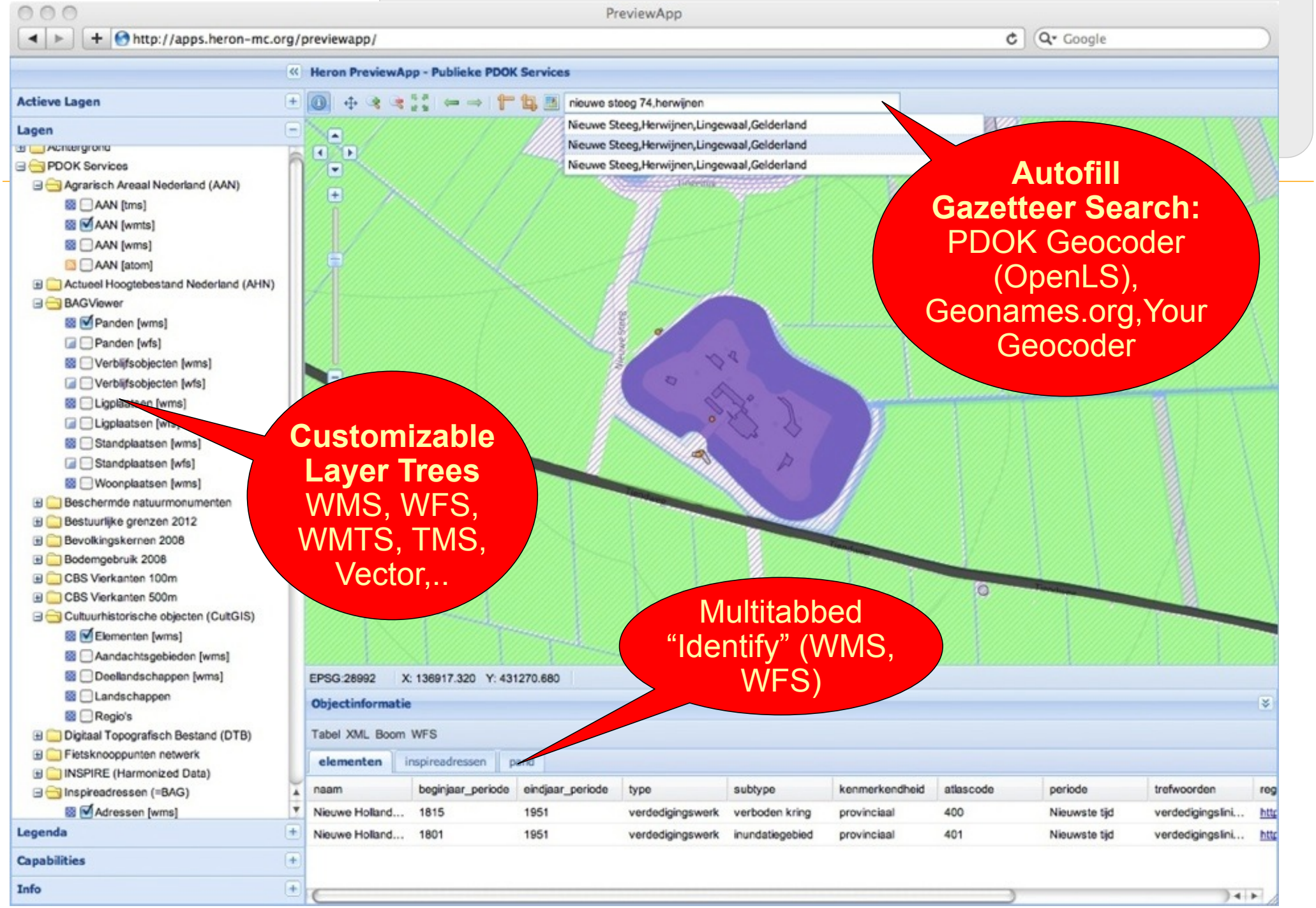
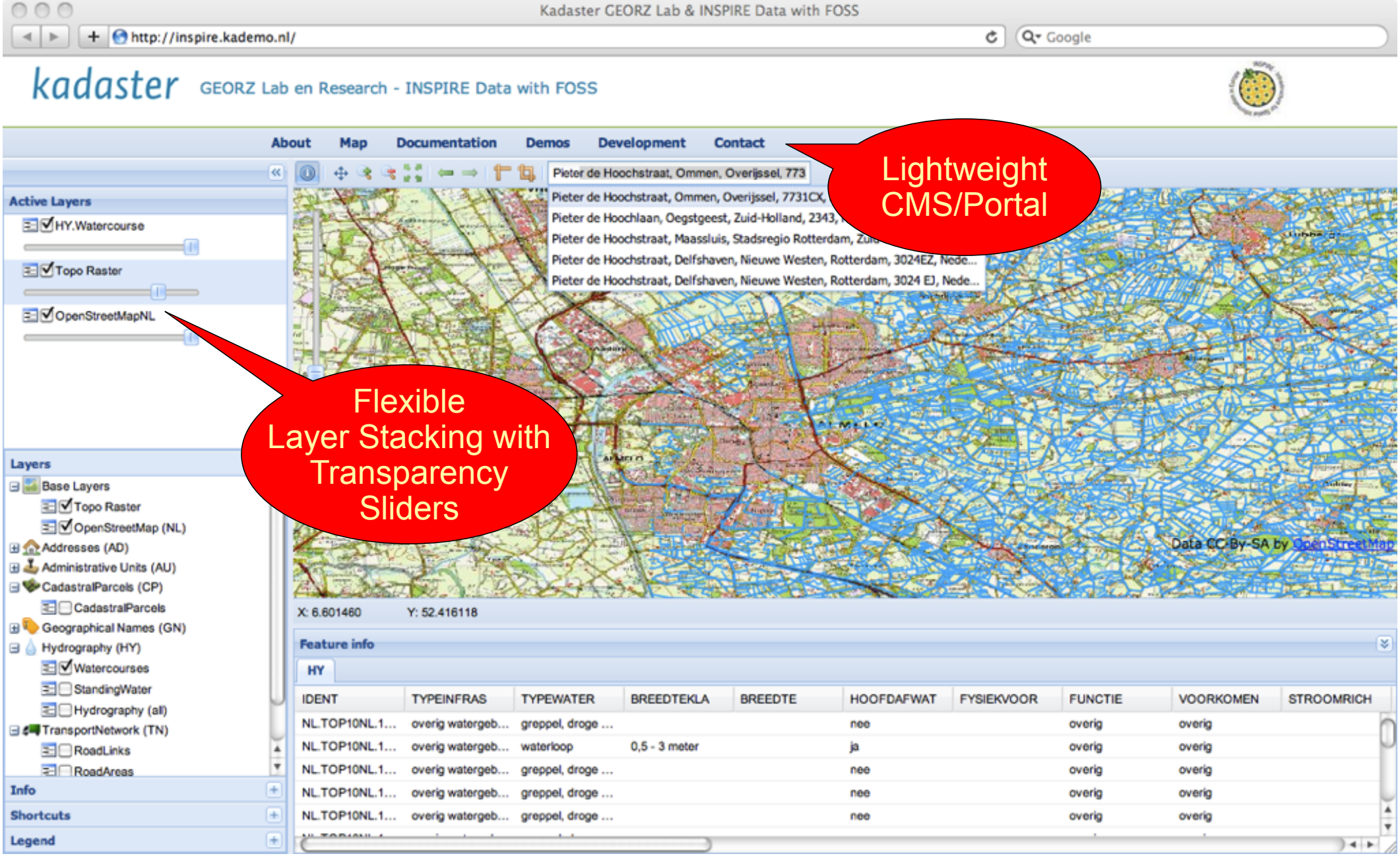
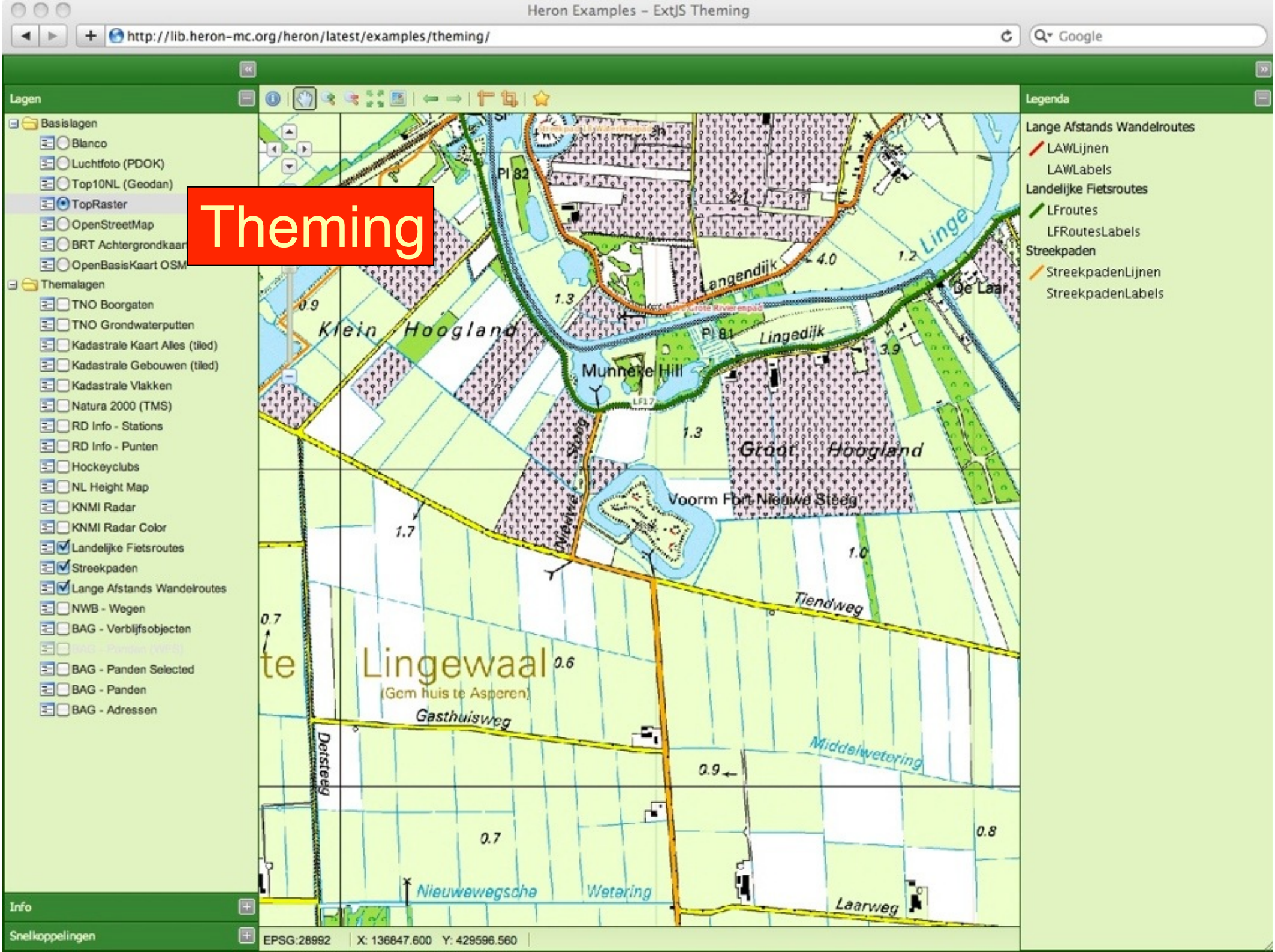
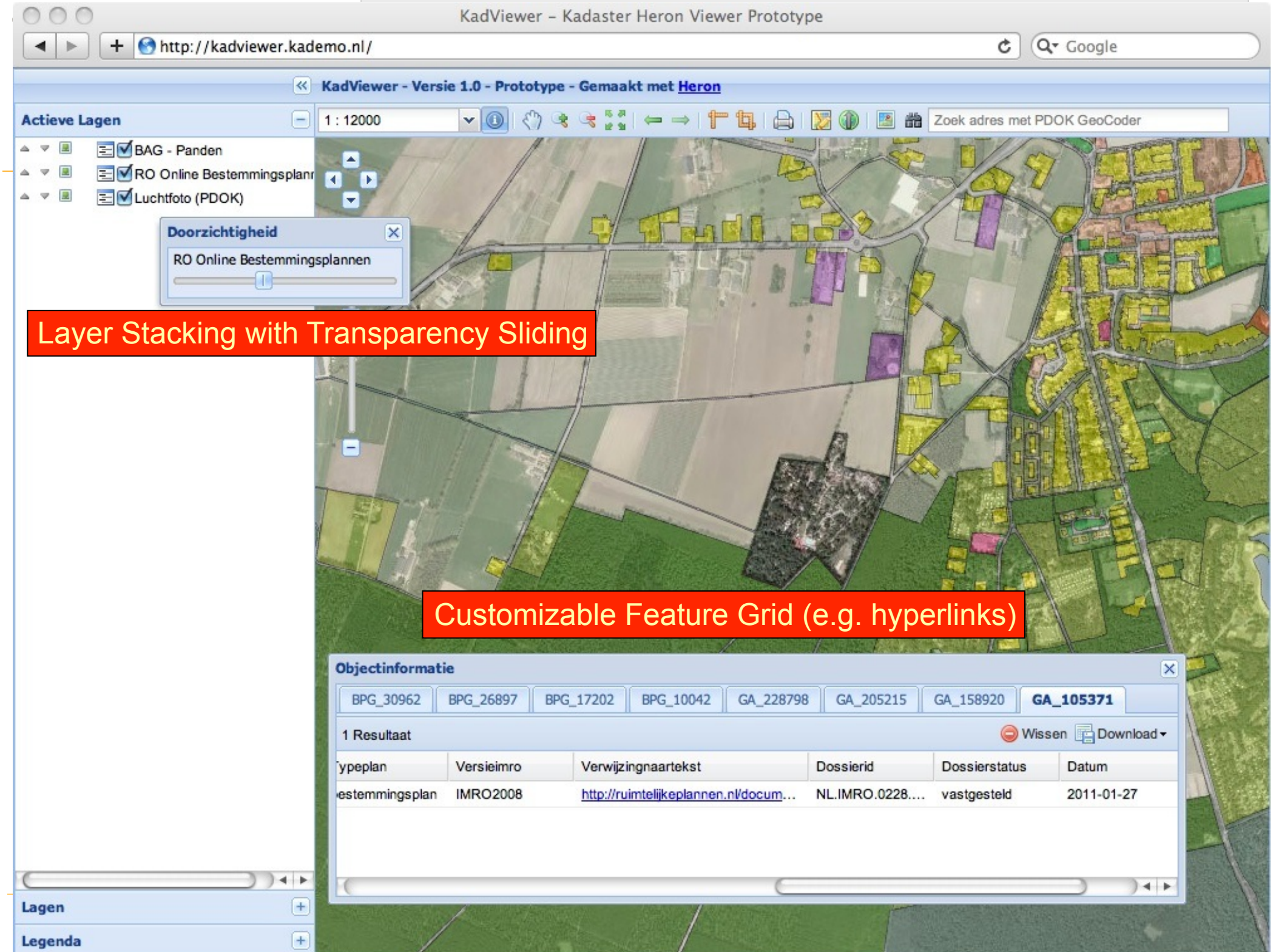
Functions by Example

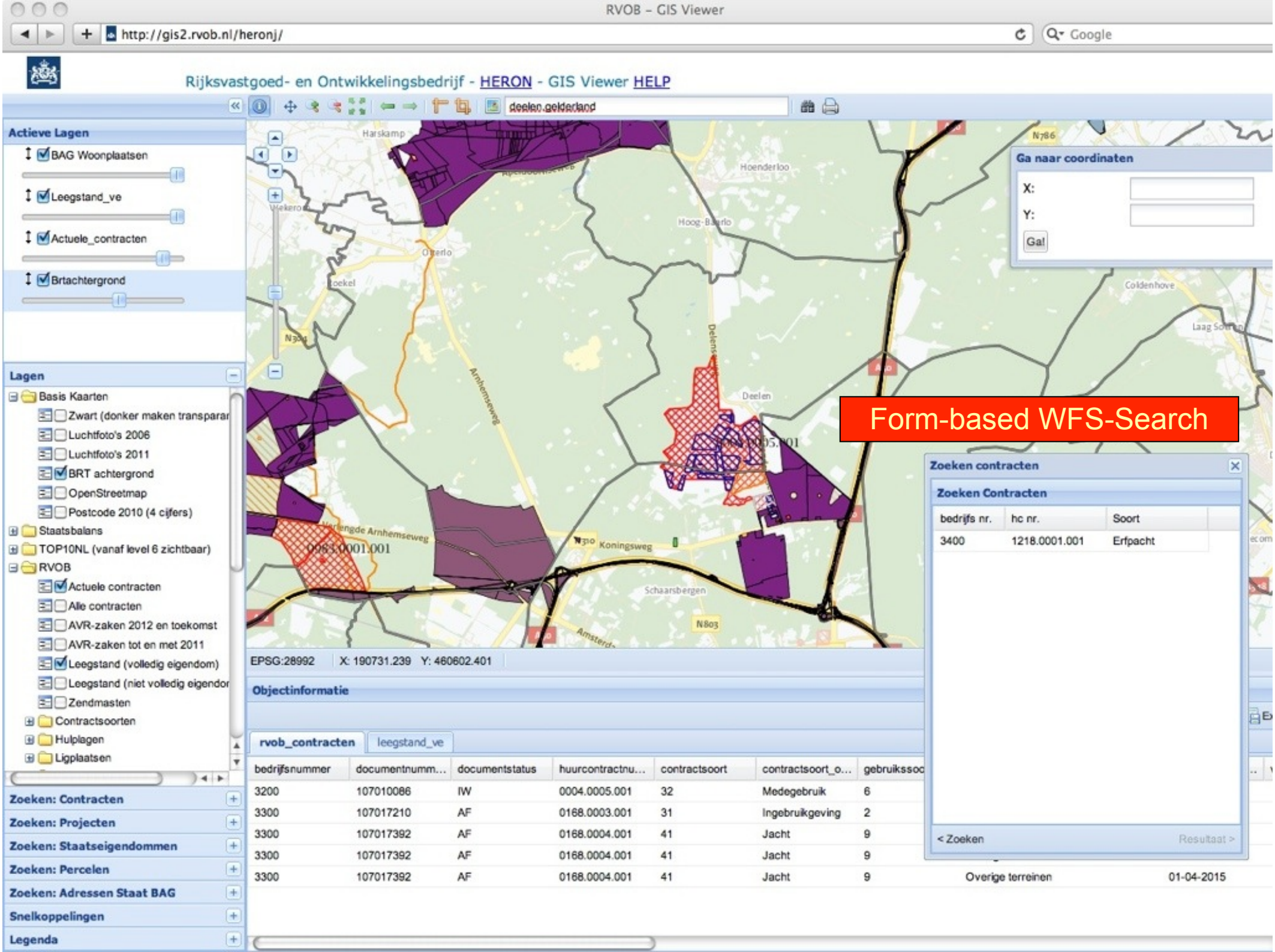


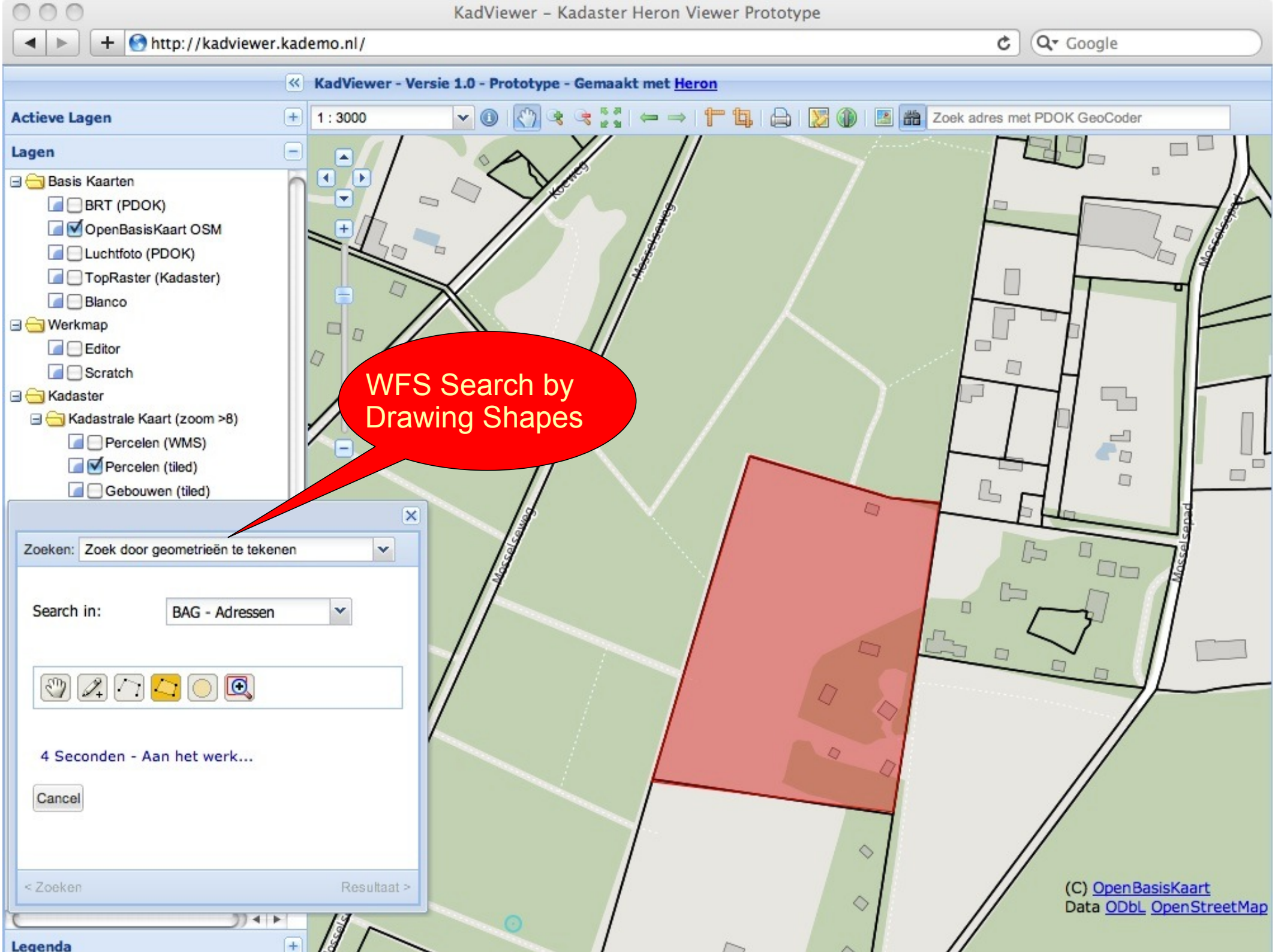

PreviewApp
http://apps.heron-mc.org/previewapp/
Google
Heron PreviewApp - Publieke PDOK Services
Actieve Lagen
Lagen
PDOK Services
Agrarisch Areaal Nederland (AAN)
AAN [tms]
AAN [wmts]
AAN [wms]
AAN [atom]
Actueel Hoogtebestand Nederland (AHN)
BAGViewer
Panden [wms]
Panden [wfs]
Verblijfsobjecten [wms]
Verblijfsobjecten [wfs]
Standplaatsen [wms]
Standplaatsen [wfs]
Woonplaatsen [wms]
Beschermde natuurmonumenten
Bestuurlijke grenzen 2012
Bevolkingskernen 2008
Bodemgebruik 2008
CBS Vierkanten 100m
CBS Vierkanten 500m
Cultuurhistorische objecten (CultGIS)
Elementen [wms]
Aandachtsgebieden [wms]
Deellandschappen [wms]
Landschappen
Regio's
Digitaal Topografisch Bestand (DTB)
Fietsknooppunten netwerk
INSPIRE (Harmonized Data)
Inspireadressen (=BAG)
Adressen [wms]
Legenda
Capabilities
Info
nieuwe steeg 74,herwijnen
Nieuwe Steeg,Herwijnen,Lingewaal,Gelderland
Nieuwe Steeg,Herwijnen,Lingewaal,Gelderland
Nieuwe Steeg,Herwijnen,Lingewaal,Gelderland
Autofill Gazetteer Search: PDOK Geocoder (OpenLS), Geonames.org,Your Geocoder
Customizable Layer Trees WMS, WFS, WMTS, TMS, Vector,..
Multitabbed "Identify" (WMS, WFS)
EPSG:28992 X: 136917.320 Y: 431270.680
Objectinformatie
Tabel XML Boom WFS
elementen
inspireadressen
naam beginjaar_periode eindjaar_periode type subtype kenmerkendheid atlascode periode trefwoorden
Nieuwe Holland... 1815 1951 verdedigingswerk verboden kring provinciaal 400 Nieuwste tijd verdedigingslini...
Nieuwe Holland... 1801 1951 verdedigingswerk inundatiegebied provinciaal 401 Nieuwste tijd verdedigingslini...

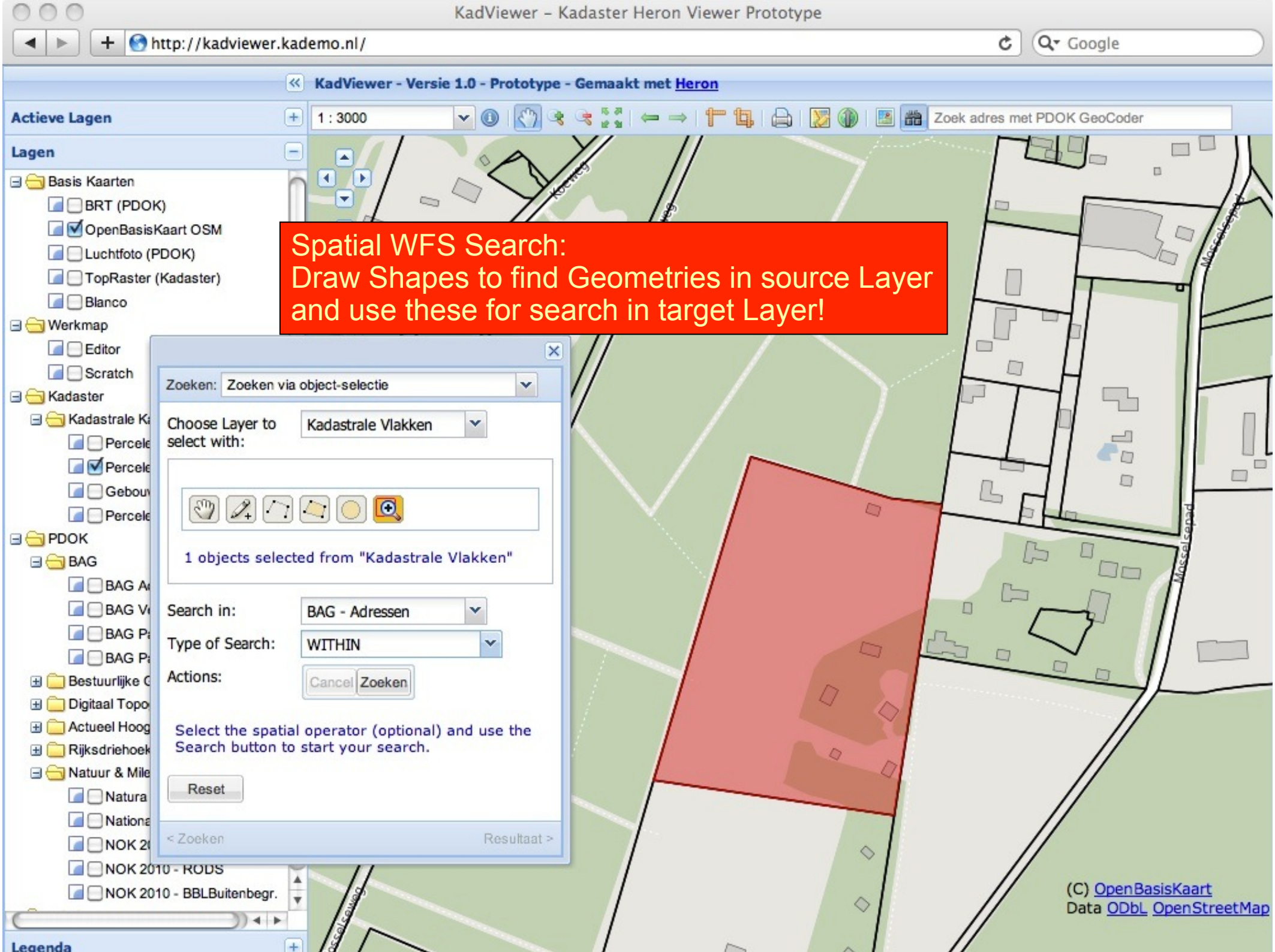

Kadaster GEORZ Lab & INSPIRE Data with FOSS
http://inspire.kademo.nl/
Google
kadaster
GEORZ Lab en Research - INSPIRE Data with FOSS
About
Map
Documentation
Demos
Development
Contact
Lightweight CMS/Portal
Active Layers
HY.Watercourse
Topo Raster
OpenStreetMapNL
Flexible Layer Stacking with Transparency Sliders
Pieter de Hoochstraat, Ommen, Overijssel, 773
Pieter de Hoochstraat, Ommen, Overijssel, 7731CX,
Pieter de Hoochlaan, Oegstgeest, Zuid-Holland, 2343,
Pieter de Hoochstraat, Maassluis, Stadsregio Rotterdam,
Pieter de Hoochstraat, Delfshaven, Nieuwe Westen, Rotterdam, 3024EZ, Nede...
Pieter de Hoochstraat, Delfshaven, Nieuwe Westen, Rotterdam, 3024 EJ, Nede...
Data CC-By-SA by OpenStreetMap
X: 6.601460
Y: 52.416118
Layers
Base Layers
Topo Raster
OpenStreetMap (NL)
Addresses (AD)
Administrative Units (AU)
CadastralParcels (CP)
CadastralParcels
Geographical Names (GN)
Hydrography (HY)
Watercourses
StandingWater
Hydrography (all)
TransportNetwork (TN)
RoadLinks
RoadAreas
Info
Shortcuts
Legend
Feature info
HY
IDENT
TYPEINFRAS
TYPEWATER
BREEDTEKLA
BREEDTE
HOOFDAFWAT
FYSIEKVOOR
FUNCTIE
VOORKOMEN
STROOMRICH
NL.TOP10NL.1...
overig watergeb...
greppel, droge ...
nee
overig
waterloop
0,5 - 3 meter
ja


Heron Examples - ExtJS Theming
http://lib.heron-mc.org/heron/latest/examples/theming/
Google
Lagen
Basislagen
Blanco
Luchtfoto (PDOK)
Top10NL (Geodan)
TopRaster
OpenStreetMap
BRT Achtergrondkaart
OpenBasisKaart OSM
Themalagen
TNO Boorgaten
TNO Grondwaterputten
Kadastrale Kaart Alles (tiled)
Kadastrale Gebouwen (tiled)
Kadastrale Vlakken
Natura 2000 (TMS)
RD Info - Stations
RD Info - Punten
Hockeyclubs
NL Height Map
KNMI Radar
KNMI Radar Color
Landelijke Fietsroutes
Streekpaden
Lange Afstands Wandelroutes
NWB - Wegen
BAG - Verblijfsobjecten
BAG - Panden Selected
BAG - Panden
BAG - Adressen
Info
Snelkoppelingen
Theming
Legenda
Lange Afstands Wandelroutes
LAWLijnen
LAWLabels
Landelijke Fietsroutes
LFroutes
LFRoutesLabels
Streekpaden
StreekpadenLijnen
StreekpadenLabels
Klein Hoogland
Langendijk
Lingedijk
Munnekehil
Groot Hoogland
Voorm Fon Nieuwe Steeg
Tiendweg
te Lingewaal
(Gem huis te Asperen)
Gasthuisweg
Middelwetering
Nieuwewegsche Wetering
Laarweg
De Laar
Linge
EPSG:28992
X: 136847.600 Y: 429596.560


KadViewer – Kadaster Heron Viewer Prototype
http://kadviewer.kademo.nl/
Google
KadViewer - Versie 1.0 - Prototype - Gemaakt met Heron
Actieve Lagen
1 : 12000
Zoek adres met PDOK GeoCoder
BAG - Panden
RO Online Bestemmingsplann
Luchtfoto (PDOK)
Doorzichtigheid
RO Online Bestemmingsplannen
Layer Stacking with Transparency Sliding
Customizable Feature Grid (e.g. hyperlinks)
Objectinformatie
BPG_30962
BPG_26897
BPG_17202
BPG_10042
GA_228798
GA_205215
GA_158920
GA_105371
1 Resultaat
Wissen
Download
Typeplan
Versieimro
Verwijzingnaartekst
Dossierid
Dossierstatus
Datum
estemmingsplan
IMRO2008
http://ruimtelijkeplannen.nl/docum...
NL.IMRO.0228....
vastgesteld
2011-01-27
Lagen
Legenda


RVOB – GIS Viewer
http://gis2.rvob.nl/heronj/
Google
Rijksvastgoed- en Ontwikkelingsbedrijf - HERON - GIS Viewer HELP
deelen gelderland
Actieve Lagen
BAG Woonplaatsen
Leegstand_ve
Actuele_contracten
Brtachtergrond
Lagen
Basis Kaarten
Zwart (donker maken transparar
Luchtfoto's 2006
Luchtfoto's 2011
BRT achtergrond
OpenStreetmap
Postcode 2010 (4 cijfers)
Staatsbalans
TOP10NL (vanaf level 6 zichtbaar)
RVOB
Actuele contracten
Alle contracten
AVR-zaken 2012 en toekomst
AVR-zaken tot en met 2011
Leegstand (volledig eigendom)
Leegstand (niet volledig eigendor
Zendmasten
Contractsoorten
Hulplagen
Ligplaatsen
Zoeken: Contracten
Zoeken: Projecten
Zoeken: Staatseigendommen
Zoeken: Percelen
Zoeken: Adressen Staat BAG
Snelkoppelingen
Legenda
Ga naar coordinaten
X:
Y:
Ga!
Form-based WFS-Search
Zoeken contracten
Zoeken Contracten
bedrijfs nr.
hc nr.
Soort
3400
1218.0001.001
Erfpacht
< Zoeken
Resultaat >
EPSG:28992
X: 190731.239
Y: 460602.401
Objectinformatie
rvob_contracten
leegstand_ve
bedrijfsnummer
documentnumm...
documentstatus
huurcontractnu...
contractsoort
contractsoort_o...
gebruikssoo
3200 107010086 IW 0004.0005.001 32 Medegebruik 6
3300 107017210 AF 0168.0003.001 31 Ingebruikgeving 2
3300 107017392 AF 0168.0004.001 41 Jacht 9
3300 107017392 AF 0168.0004.001 41 Jacht 9
3300 107017392 AF 0168.0004.001 41 Jacht 9 Overige terreinen 01-04-2015


KadViewer – Kadaster Heron Viewer Prototype
http://kadviewer.kademo.nl/
Google
KadViewer - Versie 1.0 - Prototype - Gemaakt met Heron
Actieve Lagen
Lagen
1 : 3000
Zoek adres met PDOK GeoCoder
Basis Kaarten
BRT (PDOK)
OpenBasisKaart OSM
Luchtfoto (PDOK)
TopRaster (Kadaster)
Blanco
Werkmap
Editor
Scratch
Kadaster
Kadastrale Kaart (zoom >8)
Percelen (WMS)
Percelen (tiled)
Gebouwen (tiled)
WFS Search by Drawing Shapes
Zoeken:
Zoek door geometrieën te tekenen
Search in:
BAG - Adressen
4 Seconden - Aan het werk...
Cancel
< Zoeken
Resultaat >
Legenda
(C) OpenBasisKaart
Data ODbL OpenStreetMap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OpenBasisKaart OSM
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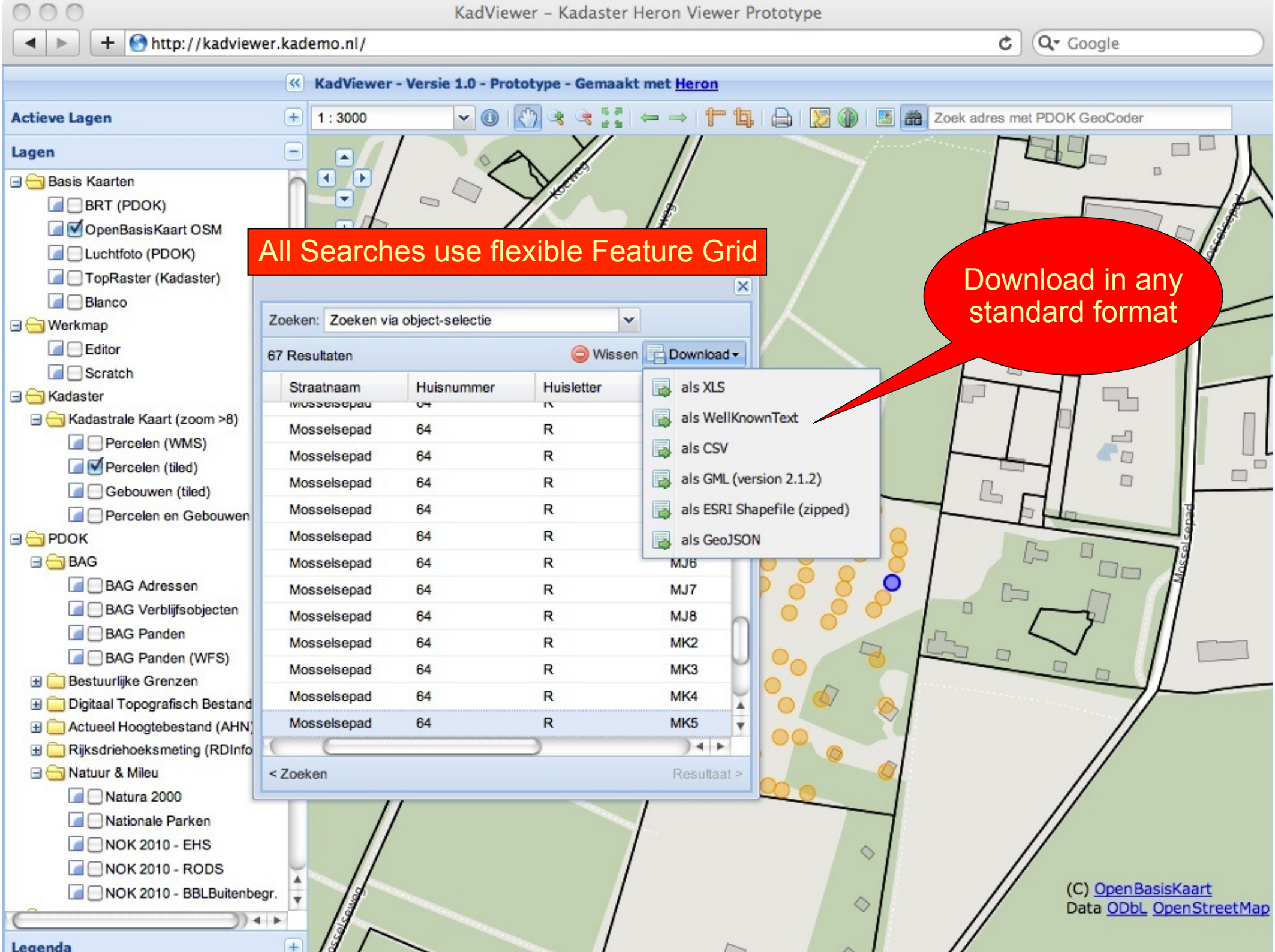
TopRaster (Kadaster)
Blanco
Werkmap
Editor
Scratch
Kadaster
PDOK
BAG
Bestuurlijke
Digitaal Topo
Actueel Hoog
Rijksdriehoek
Natuur & Mil
NOK 2010 - RODS
NOK 2010 - BBLBuitenbegr.
Legenda
Spatial WFS Search:
Draw Shapes to find Geometries in source Layer
and use these for search in target Layer!
Zoeken: Zoeken via object-selectie
Choose Layer to select with:
Kadastrale Vlakken
1 objects selected from "Kadastrale Vlakken"
Search in:
BAG - Adressen
Type of Search:
WITHIN
Actions:
Cancel
Zoeken
Select the spatial operator (optional) and use the Search button to start your search.
Reset
< Zoeken
Resultaat >
(C) OpenBasisKaart
Data ODbL OpenStreetMap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Google
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Actieve Lagen
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Basis Kaarten
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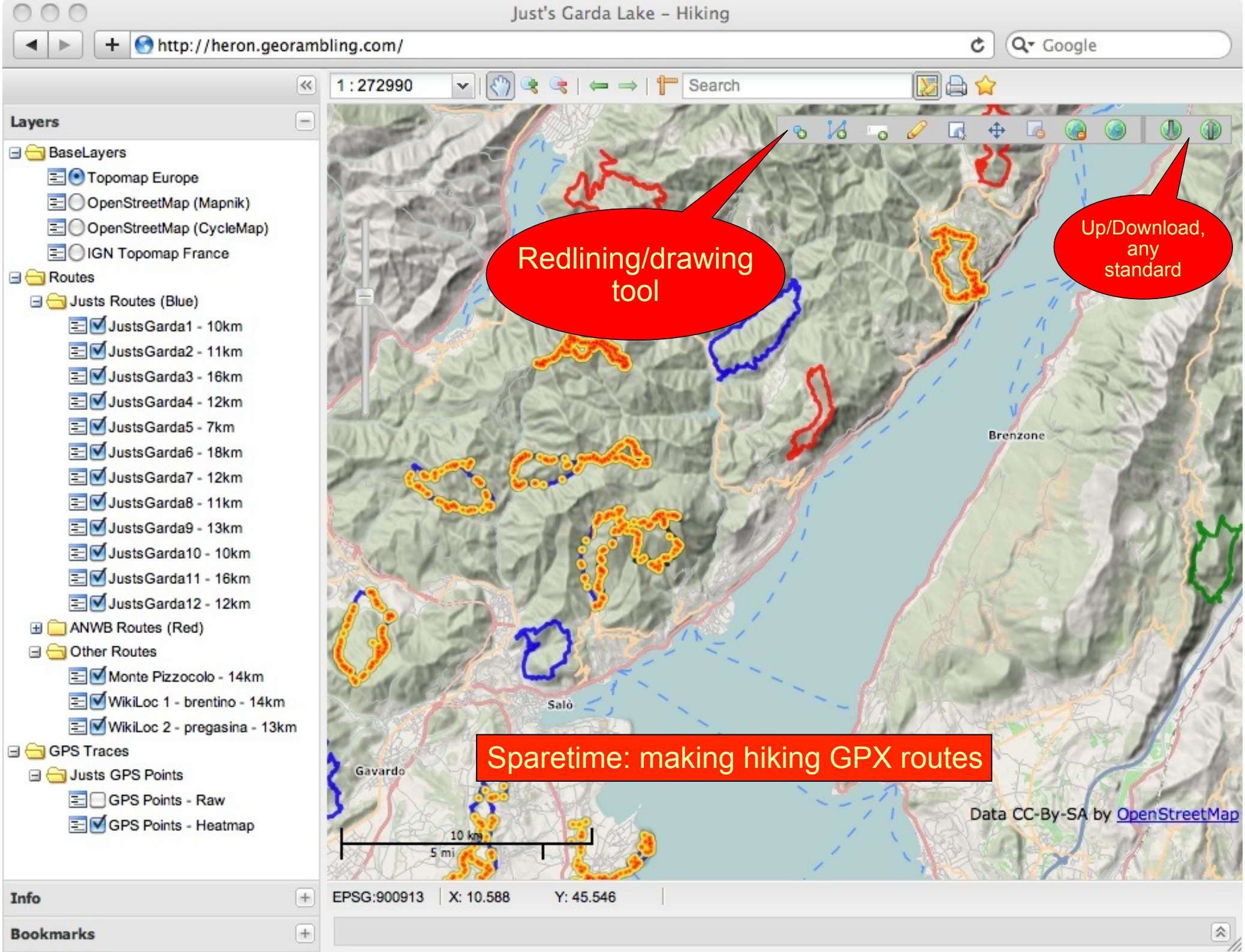
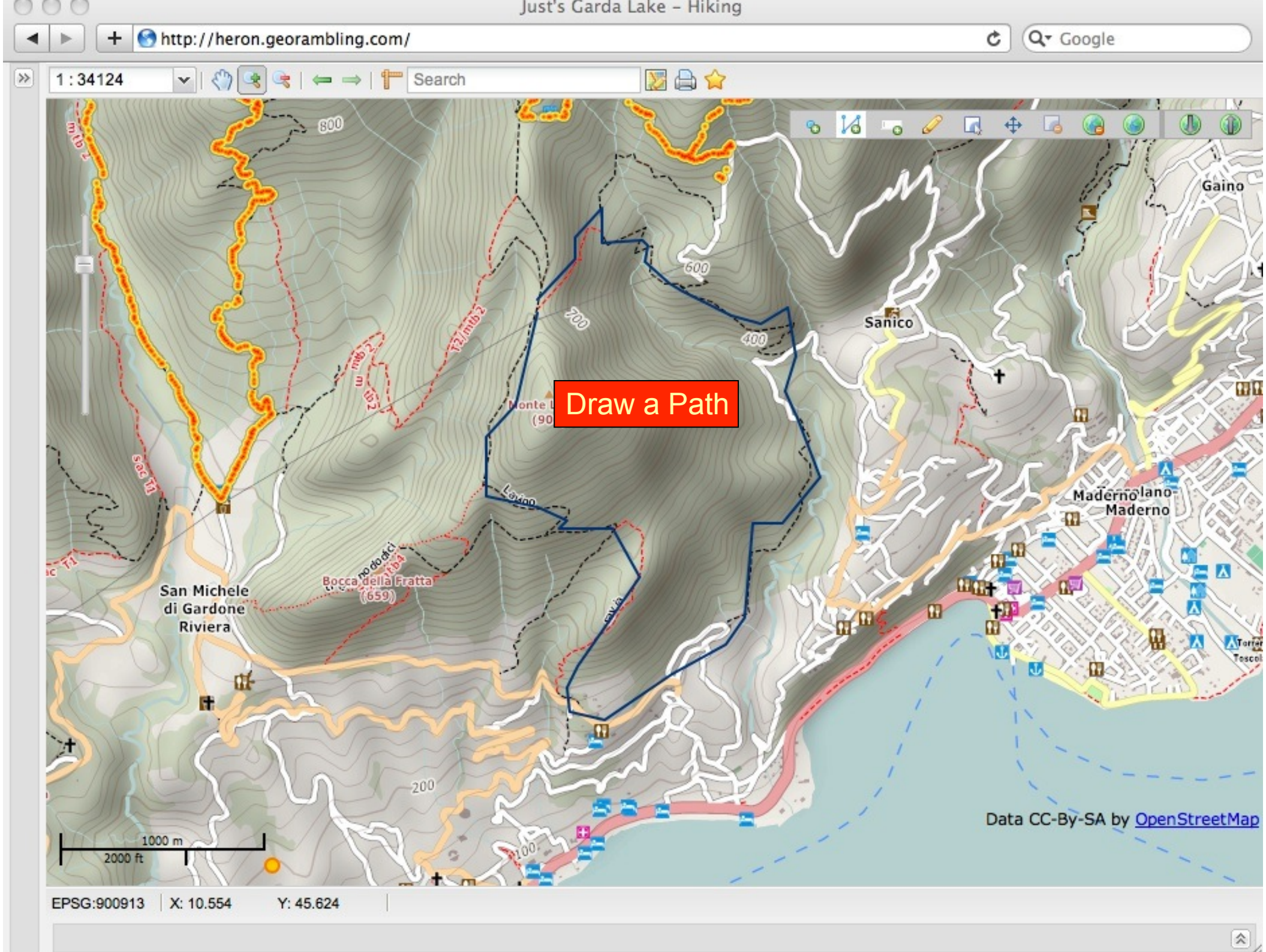
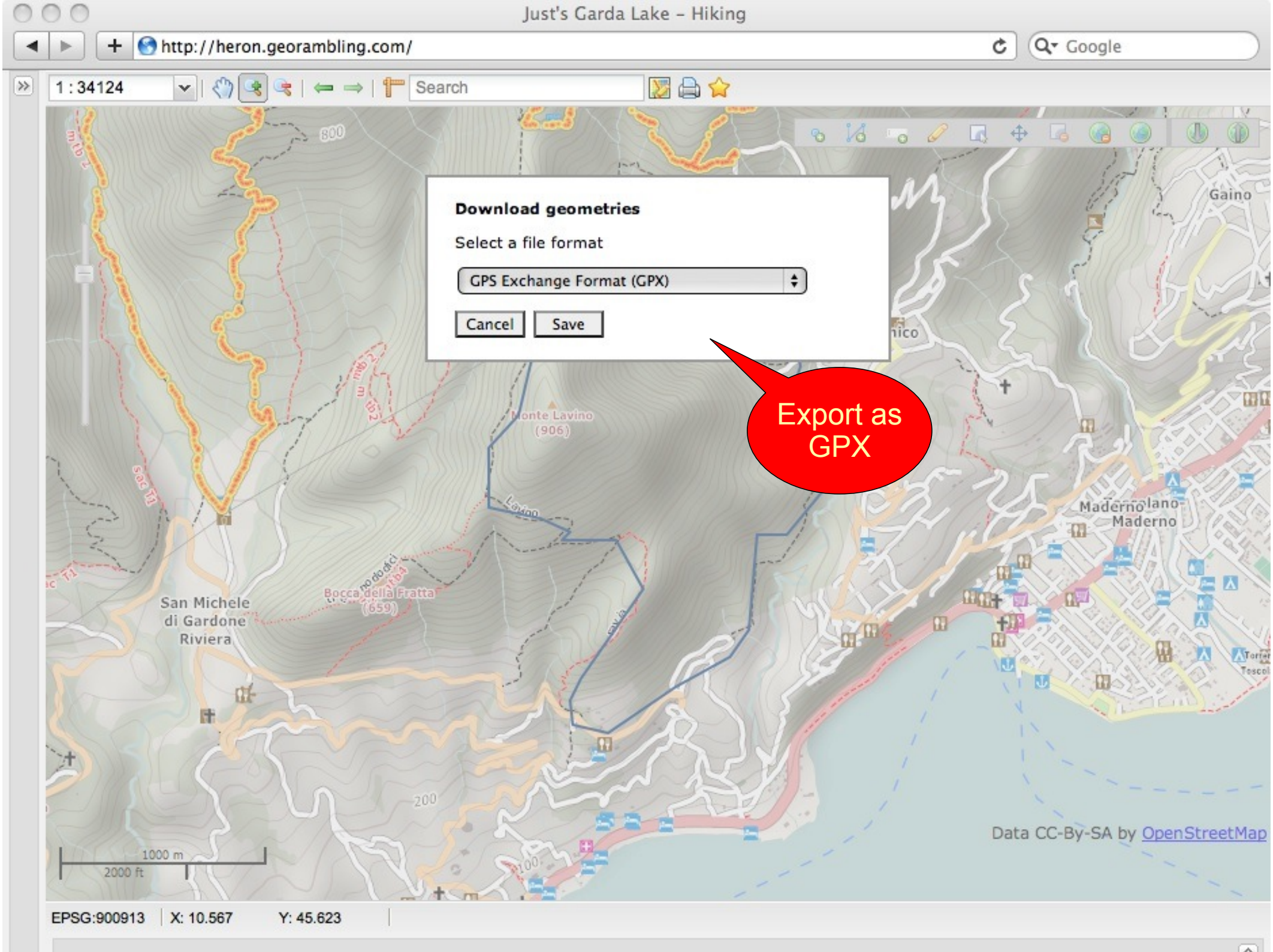
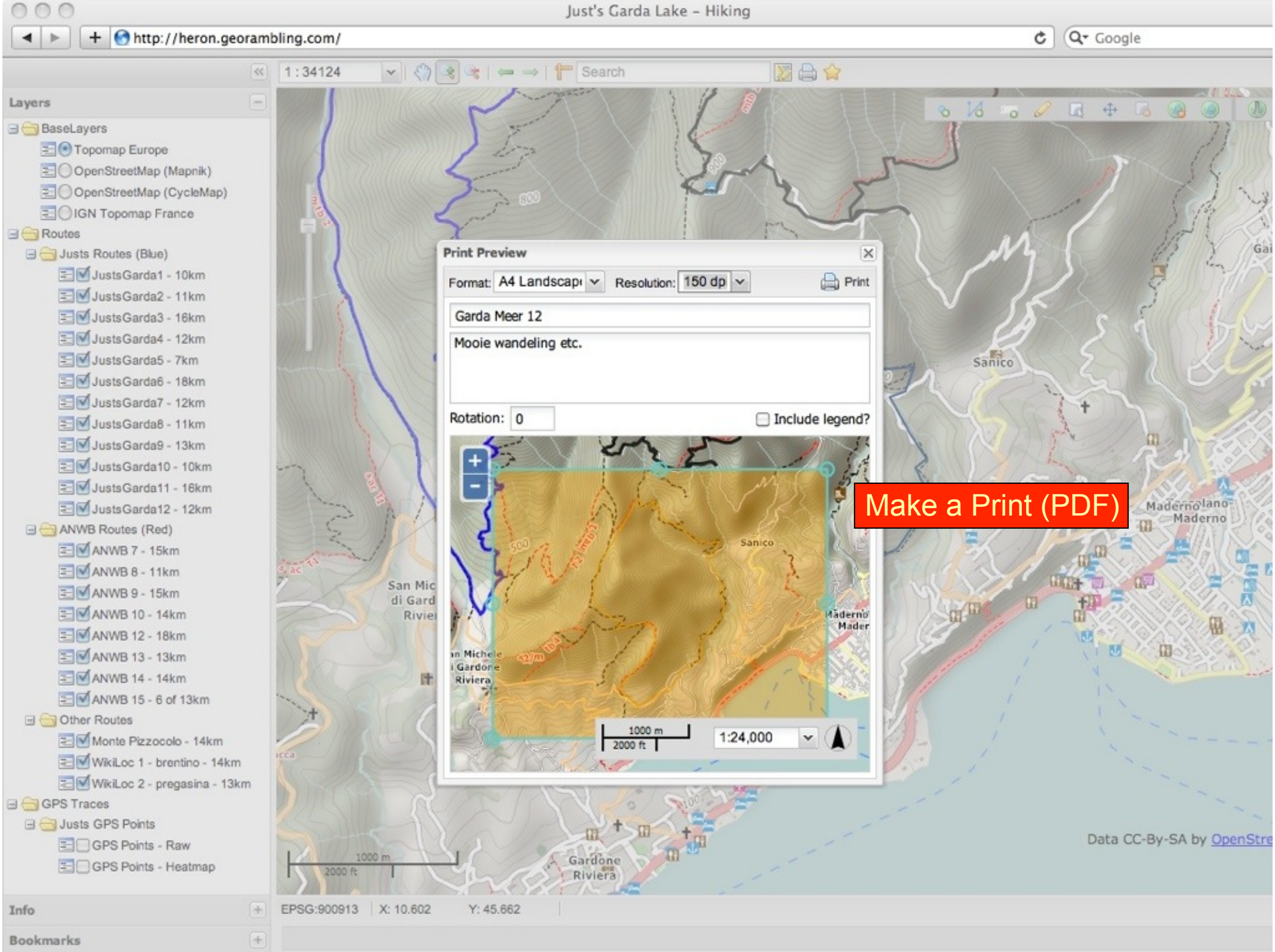
OpenBasisKaart OSM
Luchtfoto (PDOK)
TopRaster (Kadaster)
Blanco
Werkmap
Editor
Scratch
Kadaster
Kadastrale Kaart (zoom >8)
Percelen (WMS)
Percelen (tiled)
Gebouwen (tiled)
Percelen en Gebouwen
PDOK
BAG
BAG Adressen
BAG Verblijfsobjecten
BAG Panden
BAG Panden (WFS)
Bestuurlijke Grenzen
Digitaal Topografisch Bestand
Actueel Hoogtebestand (AHN)
Rijksdriehoeksmeting (RDInfo
Natuur & Mileu
Natura 2000
Nationale Parken
NOK 2010 - EHS
NOK 2010 - RODS
NOK 2010 - BBLBuitenbegr.
Legenda
All Searches use flexible Feature Grid
Download in any standard format
Zoeken: Zoeken via object-selectie
67 Resultaten
Wissen
Download
Straatnaam
Huisnummer
Huisletter
Mosselsepad 64 R
Mosselsepad 64 R MJ6
Mosselsepad 64 R MJ7
Mosselsepad 64 R MJ8
Mosselsepad 64 R MK2
Mosselsepad 64 R MK3
Mosselsepad 64 R MK4
Mosselsepad 64 R MK5
< Zoeken
Resultaat >
als XLS
als WellKnownText
als CSV
als GML (version 2.1.2)
als ESRI Shapefile (zipped)
als GeoJSON
(C) OpenBasisKaart
Data ODbL OpenStreetMap


Just's Garda Lake – Hiking
http://heron.georambling.com/
Google
1 : 272990
Search
Layers
BaseLayers
Topomap Europe
OpenStreetMap (Mapnik)
OpenStreetMap (CycleMap)
IGN Topomap France
Routes
Justs Routes (Blue)
JustsGarda1 - 10km
JustsGarda2 - 11km
JustsGarda3 - 16km
JustsGarda4 - 12km
JustsGarda5 - 7km
JustsGarda6 - 18km
JustsGarda7 - 12km
JustsGarda8 - 11km
JustsGarda9 - 13km
JustsGarda10 - 10km
JustsGarda11 - 16km
JustsGarda12 - 12km
ANWB Routes (Red)
Other Routes
Monte Pizzocolo - 14km
WikiLoc 1 - brentino - 14km
WikiLoc 2 - pregasina - 13km
GPS Traces
Justs GPS Points
GPS Points - Raw
GPS Points - Heatmap
Info
Bookmarks
Redlining/drawing tool
Up/Download, any standard
Brenzone
Salò
Gavardo
Sparetime: making hiking GPX routes
10 km
5 mi
Data CC-By-SA by OpenStreetMap
EPSG:900913
X: 10.588
Y: 45.546


Just's Garda Lake – Hiking
http://heron.georambling.com/
Google
1 : 34124
Search
Draw a Path
Gaino
Sanico
Maderno
San Michele
di Gardone
Riviera
Bocca della Fratta
(659)
800
600
700
400
200
1000 m
2000 ft
Data CC-By-SA by OpenStreetMap
EPSG:900913
X: 10.554
Y: 45.624


Just's Garda Lake – Hiking
http://heron.georambling.com/
Google
1 : 34124
Search
Download geometries
Select a file format
GPS Exchange Format (GPX)
Cancel
Save
Export as GPX
Monte Lavino (906)
Lavino
Bocca della Fratta (659)
San Michele di Gardone Riviera
Gaino
Maderno
1000 m
2000 ft
Data CC-By-SA by OpenStreetMap
EPSG:900913
X: 10.567
Y: 45.623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Google
1 : 34124
Search
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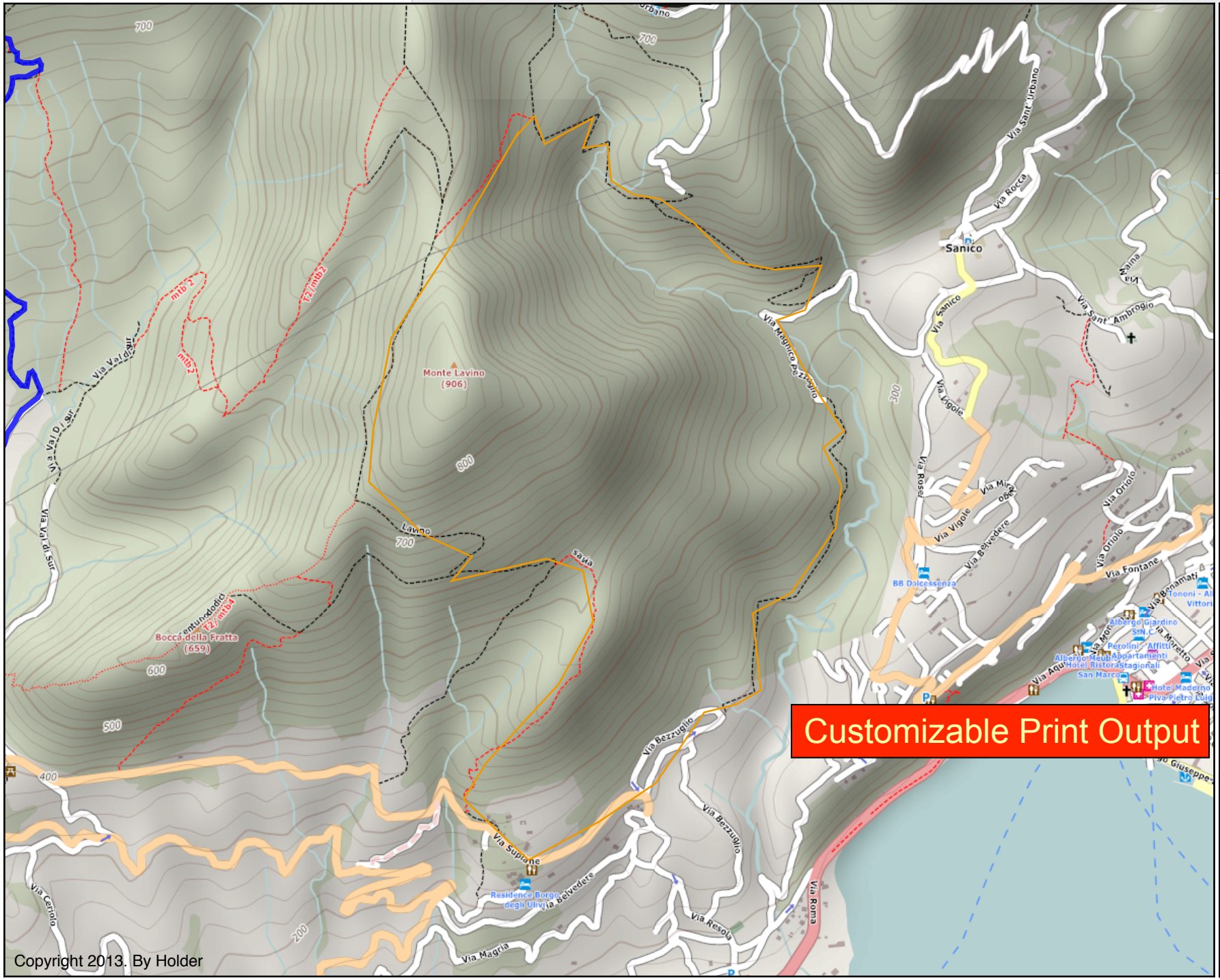
OpenStreetMap (Mapnik)
OpenStreetMap (CycleMap)
IGN Topomap France
Routes
Justs Routes (Blue)
JustsGarda1 - 10km
JustsGarda2 - 11km
JustsGarda3 - 16km
JustsGarda4 - 12km
JustsGarda5 - 7km
JustsGarda6 - 18km
JustsGarda7 - 12km
JustsGarda8 - 11km
JustsGarda9 - 13km
JustsGarda10 - 10km
JustsGarda11 - 16km
JustsGarda12 - 12km
ANWB Routes (Red)
ANWB 7 - 15km
ANWB 8 - 11km
ANWB 9 - 15km
ANWB 10 - 14km
ANWB 12 - 18km
ANWB 13 - 13km
ANWB 14 - 14km
ANWB 15 - 6 of 13km
Other Routes
Monte Pizzocolo - 14km
WikiLoc 1 - brentino - 14km
WikiLoc 2 - pregasina - 13km
GPS Traces
Justs GPS Points
GPS Points - Raw
GPS Points - Heatmap
Print Preview
Format: A4 Landscap
Resolution: 150 dp
Print
Garda Meer 12
Mooie wandeling etc.
Rotation: 0
Include legend?
Sanico
1000 m
2000 ft
1:24,000
Make a Print (PDF)
Sanico
Maderno
Gardone Riviera
1000 m
2000 ft
Data CC-By-SA by OpenStre
Info
Bookmarks
EPSG:900913
X: 10.602
Y: 45.662



Garda Meer 12

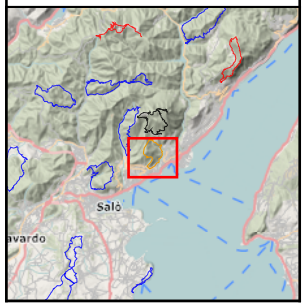
Mooie wandeling etc.

2013-09-03

0 200 400m

HERON

MapFish Print Server
at Kadaster GEORZ Lab
www.kademo.nl
YAML core Warwickshire CC
YAML by Heron Devs



Use GPX on any other Device

Be surprised how it looks in real!

OPEN GEO GROEP

Heron - Goals

- Make web mapping easy
- Not just a map: provide for a complete web app
- Reuse the power of existing web mapping libs
- Reusable widgets and components
- Server back-end:
  - Minimal weight
  - Open Standards: OGC (W*S, CSW), TMS etc
- Focus on “The Data behind the Map”

OPEN GEO GROEP

Heron - Concepts

- Declarative Programming
  - “what” not “how”
  - via config
  - ***“look ma, no programming!”***
- Component Based
- Complete Webapp
- Build on GeoExt
  (=ExtJS+OpenLayers) and others like GXP

OPEN GEO GROEP

Heron - Slogan

the configuration is the app
the app is the configuration

OPEN GEO GROEP

Hello World

http://lib.heron-mc.org/heron/latest/examples/minimal

OPEN GEO GROEP

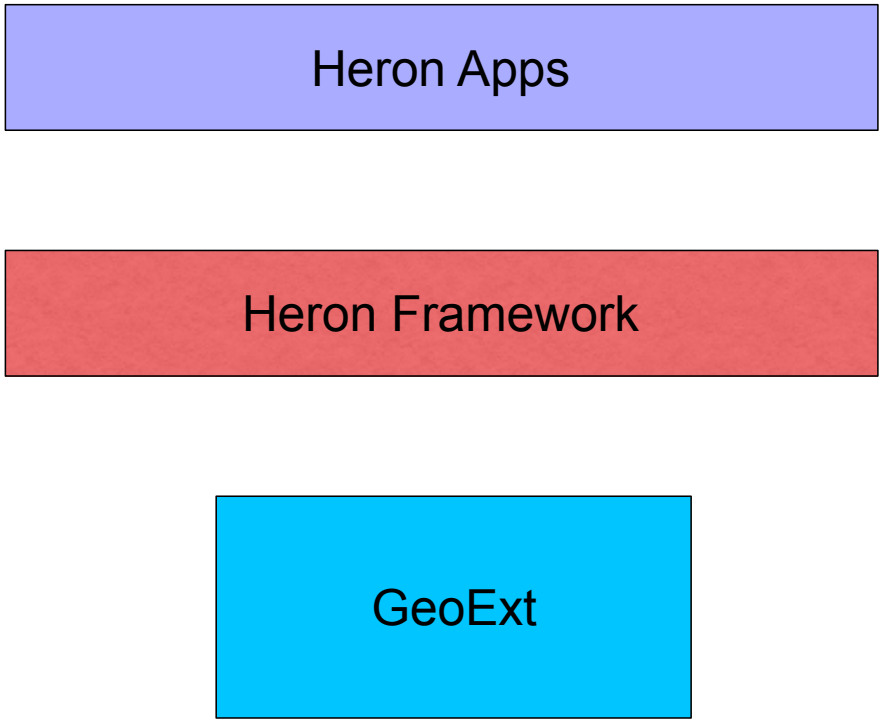
Hello World

```
Heron.layout = {
    xtype: 'hr_mappanel',
    hropts: {
      layers: [
        new OpenLayers.Layer.WMS("World Map",
          "http://www2.demis.nl/WMS/wms.asp?WMS=WorldMap",
            {layers: 'Coastlines', format: 'image/png'}
        )
      ]
    }
};
```

http://lib.heron-mc.org/heron/latest/examples/minimal

OPEN GEO GROEP

Architecture - That's a Wrap



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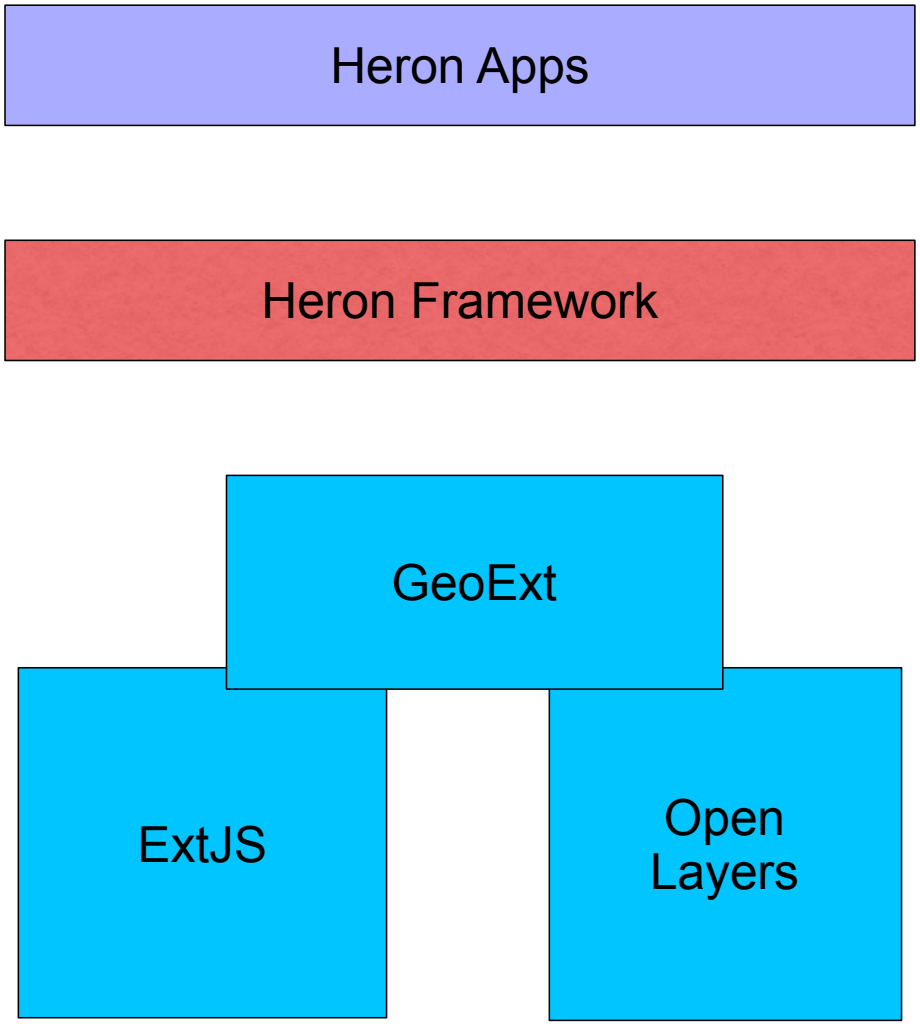
Architecture - Two-pillared GeoExt



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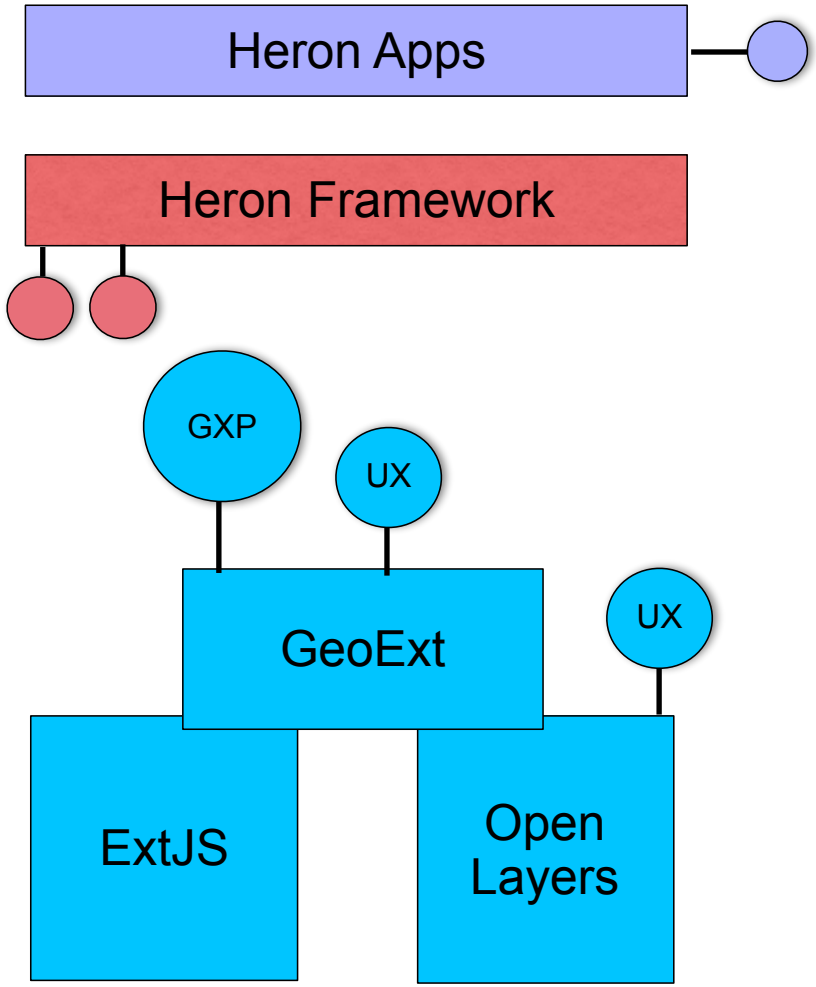
Architecture - Plugins and User Extensions (UX)



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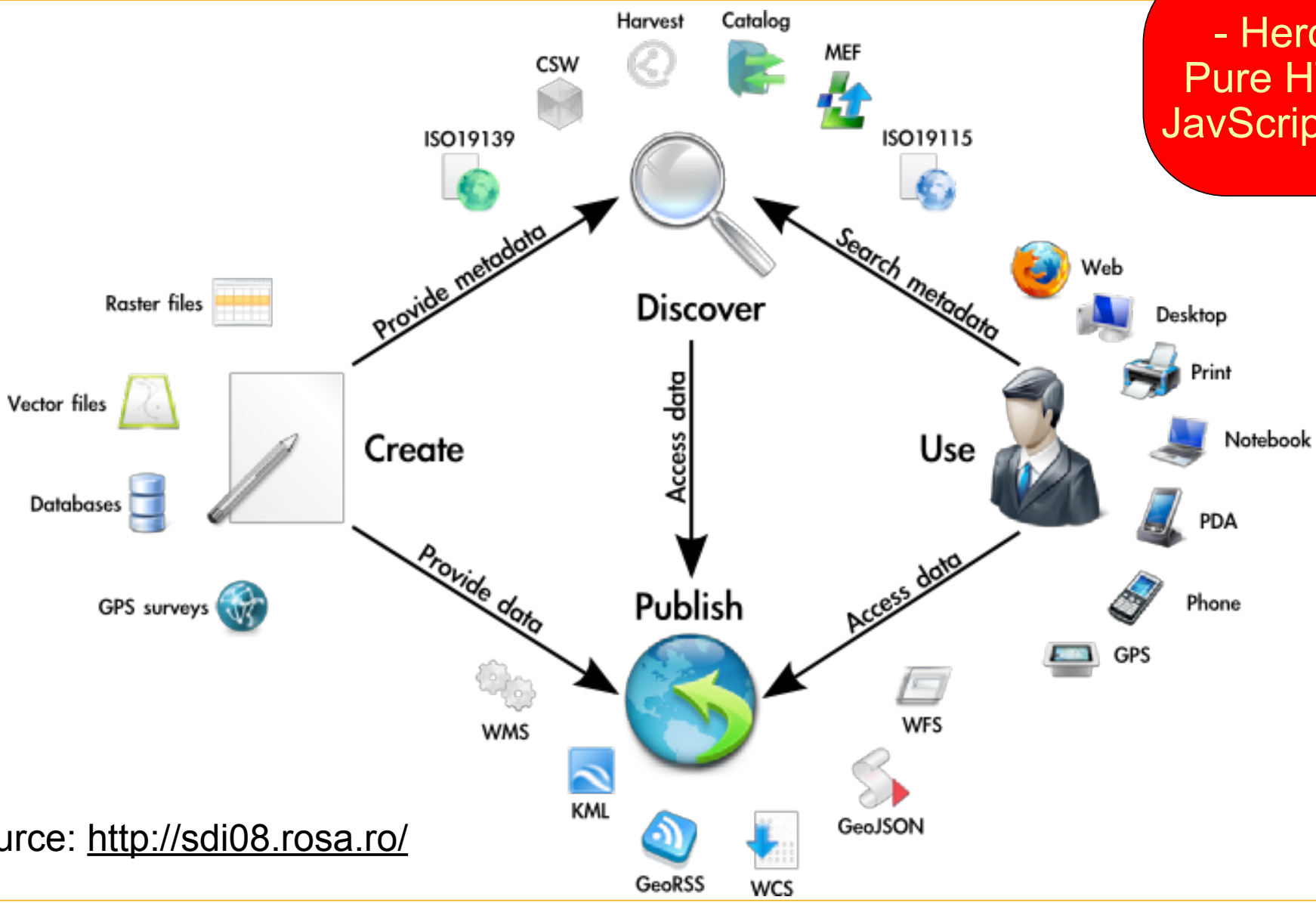
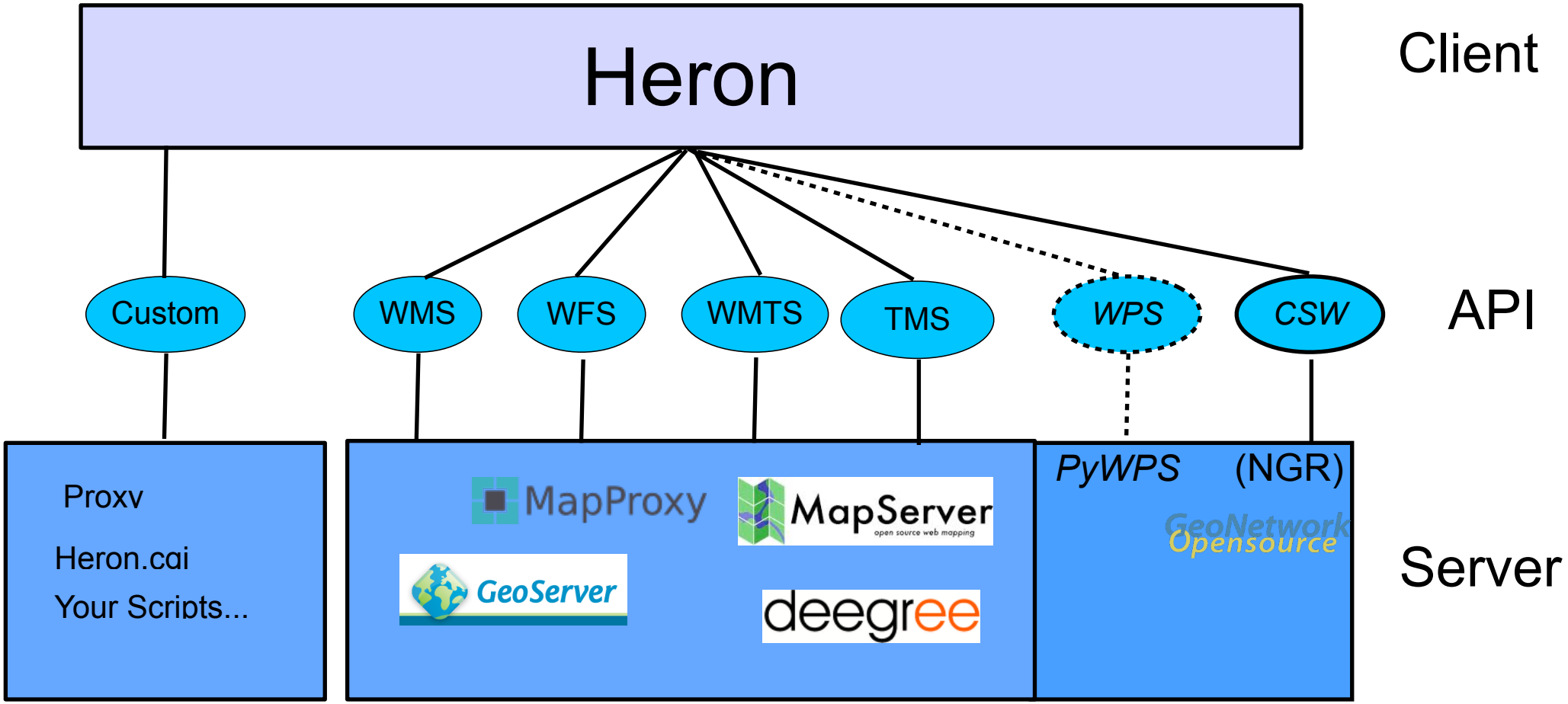
Architecture - Heron in SDI



Source: http://sdi08.rosa.ro/

OPEN GEO GROEP

Architecture - Client/Server with mainly Open OGC Standards



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What is a Heron App

- Heron App === Configuration
  - defined as JSON/JavaScript object in config .js files
  - determines overall GUI-layout
  - includes components (widgets) and their properties
  - components from Heron, GeoExt, GXP and/or ExtJS
  - plus your own custom components
  - “Builder” Design Pattern (based on ExtJS ‘xtype’)

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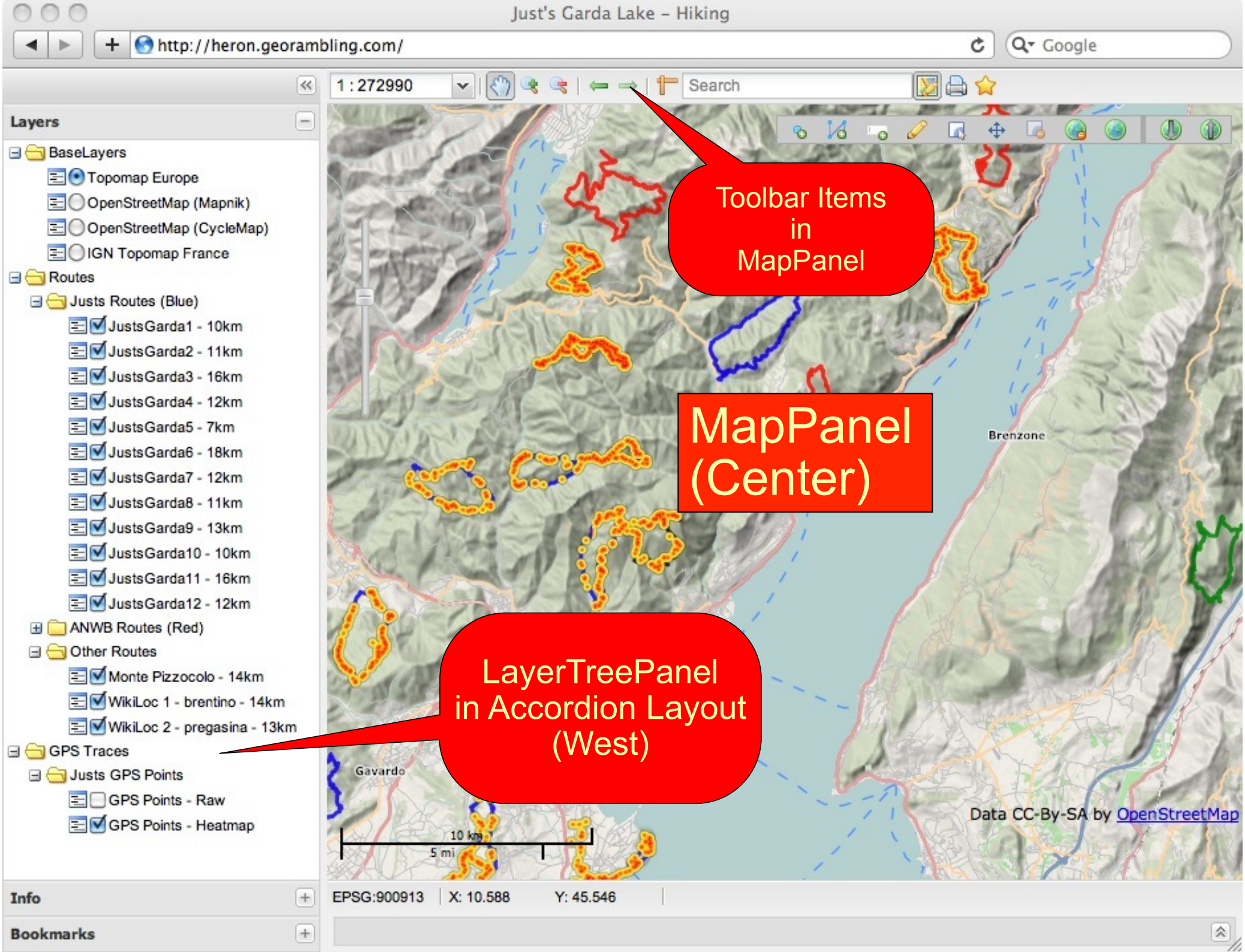
Example - Heron Config Snippet

```
Heron.layout = {
      xtype: 'panel',
      layout: 'border',
      items: [
    {
        xtype: 'panel',
        layout: 'accordion',
        region: "west",
        width: 240,
        collapsible: true,
        split: true,
        border: false,
        items: [
            {
                xtype: 'hr_layertreepanel'
                                .
                                .
                                .
    {
        xtype: 'hr_mappanel',
        layout: 'border',
        region: 'center',
        width: '100%',
        items: [
                                .
                                .
                                .
```


Just's Garda Lake - Hiking
http://heron.georambling.com/
Google
1 : 272990
Search
Layers
BaseLayers
Topomap Europe
OpenStreetMap (Mapnik)
OpenStreetMap (CycleMap)
IGN Topomap France
Routes
Justs Routes (Blue)
JustsGarda1 - 10km
JustsGarda2 - 11km
JustsGarda3 - 16km
JustsGarda4 - 12km
JustsGarda5 - 7km
JustsGarda6 - 18km
JustsGarda7 - 12km
JustsGarda8 - 11km
JustsGarda9 - 13km
JustsGarda10 - 10km
JustsGarda11 - 16km
JustsGarda12 - 12km
ANWB Routes (Red)
Other Routes
Monte Pizzocolo - 14km
WikiLoc 1 - brentino - 14km
WikiLoc 2 - pregasina - 13km
GPS Traces
Justs GPS Points
GPS Points - Raw
GPS Points - Heatmap
Info
Bookmarks
Toolbar Items in MapPanel
MapPanel (Center)
LayerTreePanel in Accordion Layout (West)
Brenzone
Gavardo
10 km
5 mi
Data CC-By-SA by OpenStreetMap
EPSG:900913
X: 10.588
Y: 45.546

OPEN GEO GROEP

The App: index.html with No Body

```
<html>
<head>
      <title>Kadaster GEORZ Lab &amp; INSPIRE Data with FOSS</title>
      <!-- External lib: ExtJS -->
      <link rel="stylesheet" type="text/css" href="http://extjs.cachefly.net/ext-3.4.1/resources/css/ext-all.css"/>
      <script type="text/javascript" src="http://extjs.cachefly.net/ext-3.4.1/adapter/ext/ext-base.js"></script>
      <script type="text/javascript" src="http://extjs.cachefly.net/ext-3.4.1/ext-all.js"></script>

      <!-- External lib: OpenLayers -->
      <script type="text/javascript" src="http://lib.heron-mc.org/openlayers/2.11/OpenLayers-min.js"></scri

      <!-- External lib: GeoExt -->
      <script type="text/javascript" src="http://lib.heron-mc.org/geoext/1.1/GeoExt-min.js"></script>

      <!-- External lib: Heron Mapping Client     -->
      <link rel="stylesheet" type="text/css" href="http://lib.heron-mc.org/heron/latest/resources/css/default.css"/>
      <script type="text/javascript" src="http://lib.heron-mc.org/heron/latest/script/Heron.js"></script>

      <!-- Specific JS/CSS for this site -->
      <link rel="stylesheet" type="text/css" href="resources/css/site.css"/>
      <script type="text/javascript" src="resources/js/options.js"></script>
      <script type="text/javascript" src="resources/js/layout.js"></script>

</head>
<body>
</body>
</html>
```

Supporting Libs

Your Config

the configuration is the app
the app is the configuration

OPEN GEO GROEP

Development

- Founding fathers
  Dutch Kadaster (Kademo Lab) and RVOB
- Initially developed with Geodan
  ESDIN INSPIRE Project
- Contributors from OpenGeoGroep.nl and internationally
  - OGG: Eddy Scheper, Anke Keuren, Milo van der Linden, Raymond Nijssen, Just van den Broecke e.v.a.
- Google Code project (GPLv3)
  - http://code.google.com/p/geoext-viewer - project
  - http://groups.google.com/group/geoext-viewer-devel - mailing list

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Positioning Heron

- Desktop GIS Replacement
  - migration from proprietary desktop apps (Arc*, MapInfo,..)
  - traditional (toolbar!) but productive (viz. spreadsheet)
  - many intranet/internal deployments
- “Users as Developers”
  - assembly (config) by customers’ GIS-specialists
- “Geospatial Asset Management”
  - see Cases next
- Not:
  - mobile apps (not now, but planned)

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Heron Cases with Assets Managed

- **RVOB**: Government-owned Properties
- **PDOK**: PreviewApp: testing PDOK services
- **Kadaster**: Cadastral Parcels and related assets
- **Kadaster Kademo Lab**: many prototyping apps
- ***Gasunie****: Gas Pipelines and -Installations*
- **Deutsche Bundesbahn**: Railways and related
- **Warwickshire (UK)**: county properties

OPEN GEO GROEP

Customer Development Model

- Co-development with Customers within Community
  - jointly determine new features; select which to add to Heron core
  - new features added to Heron public Tracker and Roadmap
  - communication on issues via public Heron tracker/mailing list
- Customer Benefits
  - maintain only a Heron configuration (=application!)
  - influence roadmap
  - simple online progress tracking
  - help from the community
  - long-term OGG-support contracts
  - minimal maintenance costs
  - new functions for free with Heron upgrades!
- Future: joint funding ?!

Web Mapping Made Easy — Heron MC v0.67

http://heron-mc.org/

Google

HERON

Search ...

Documentation | Examples | Download | Development

Web Mapping Made Easy

The Heron Mapping Client (MC) facilitates the creation of browser-based web mapping applications with the GeoExt JavaScript toolkit.

GeoExt is a powerful toolkit that combines the web mapping library OpenLayers with the user interface savvy of Ext JS to help build powerful desktop style GIS apps on the web with JavaScript. The Heron MC leverages these frameworks by providing high-level components and a convention to quickly assemble applications merely through configuration ("Look ma no programming").

Download

Current release: 0.67

Using Heron

See Heron in action.

```
Heron.layout = {
   xtype: 'window',
   title: "Hello Heron",
   height: 280, width: 450,

   items: [
    {
       xtype: "gx_mappanel",
       layers: [new OpenLayers.Layer.WMS("Global Imagery",
                                  "http://maps.opengeo.org/geowebcache/service/wms",
                {layers: "bluemarble"})],
       zoom: 1
    }
   ]
};
```

Run it!

This is a minimal Heron application. You can see that this app is completely defined through a configuration object starting with `Heron.layout`. Learn more about using Heron in your application by reading the documentation.

Heron is Free Source

Heron is available under the GNU GPL v3 license.

© Copyright 2011+, Heron MC Community.

geoext-viewer

Development for the Heron Mapping Client

Search projects

Project Information

+1 +5 Recommend this on Googl

Project feeds

Code license
GNU GPL v3

Labels
geoext, openlayers, extjs, webmapping, wms, wfs, INSPIRE, GIS, geospatial, mapping, ogcservices, javascript, FOSS4G, geoviewer

Members
jus...@gmail.com, georzlab...@gmail.com, milovand...@gmail.com, m...@dogodigi.net, rvob...@gmail.com, raynijs...@gmail.com
5 committers
1 contributor

Featured

Downloads
heron-0.67.zip
Show all »

Links

External links
heron-mc.org

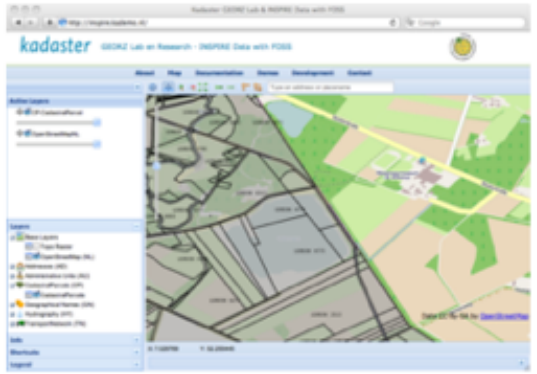
About

The Heron Mapping Client or Heron MC provides an extensible browser-based mapping client. The main goal of this project is to make it easy to create web mapping applications like viewers for maps and editors for geodata. Note: the project-name "geoext-viewer" is still here since the project started under that name. The official website for the Heron MC project is http://heron-mc.org. This Google Code site is related to all of the Heron MC project development.

See an introductory presentation of Heron MC at http://www.justobjects.nl/jo/assets/presentation/bolsena-2011-heron

PDOK (Dutch national SDI)
http://nieuwsinkaart.nl/pdok

Kadaster GEORZ Lab en Research
http://kademo.nl



INSPIRE Data with FOSS
http://inspire.kademo.nl

Features

- Browser-based mapping client
- Standards compliant, supporting Open Geospatial Consortium (OGC) standards
- Renders maps from Web Map Services (WMS), Web Feature Services (WFS), Google/Bing/Yahoo Maps
- Easy to use
- No browser plugins required
- Built on proven Javascript frameworks: GeoExt, OpenLayers and ExtJS.
- Works with most modern browsers
- Advanced map components

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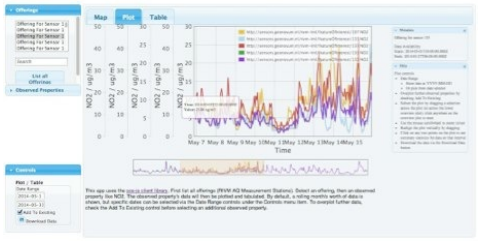
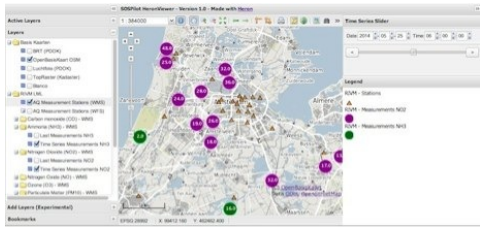
Links

www.heron-mc.org

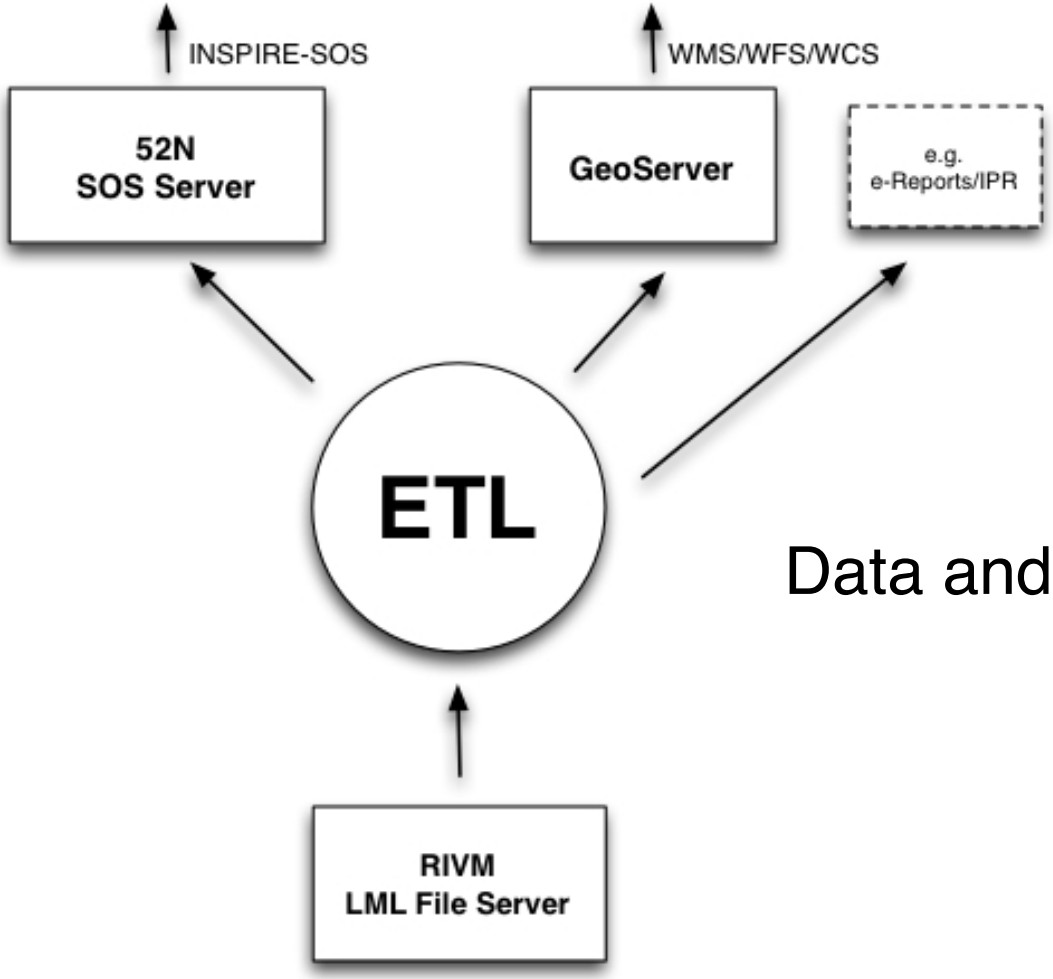
http://lib.heron-mc.org - hosted libs (also on CDNJS)
http://apps.heron-mc.org - ready apps

Geonovum SOS Platform





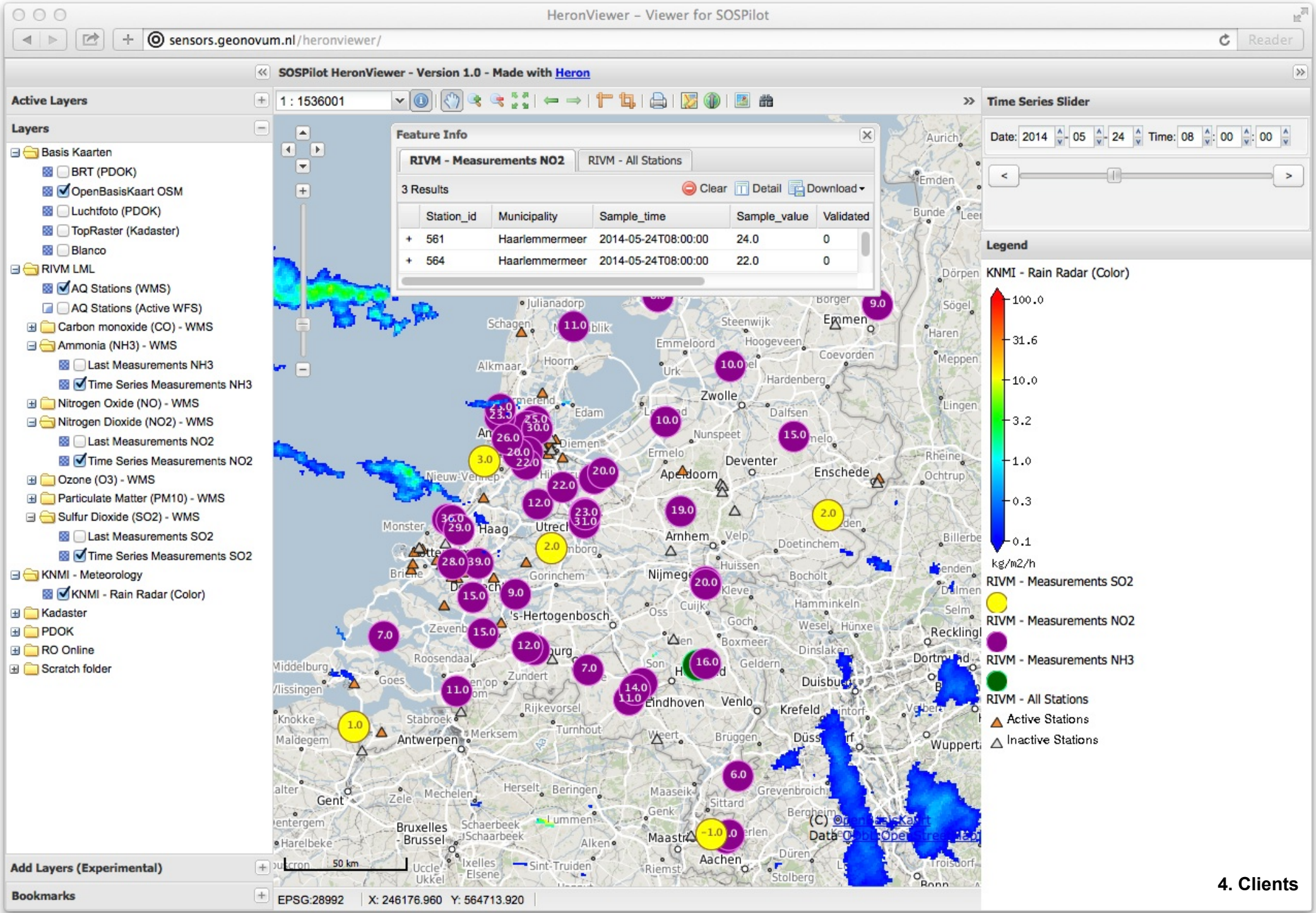
Clients



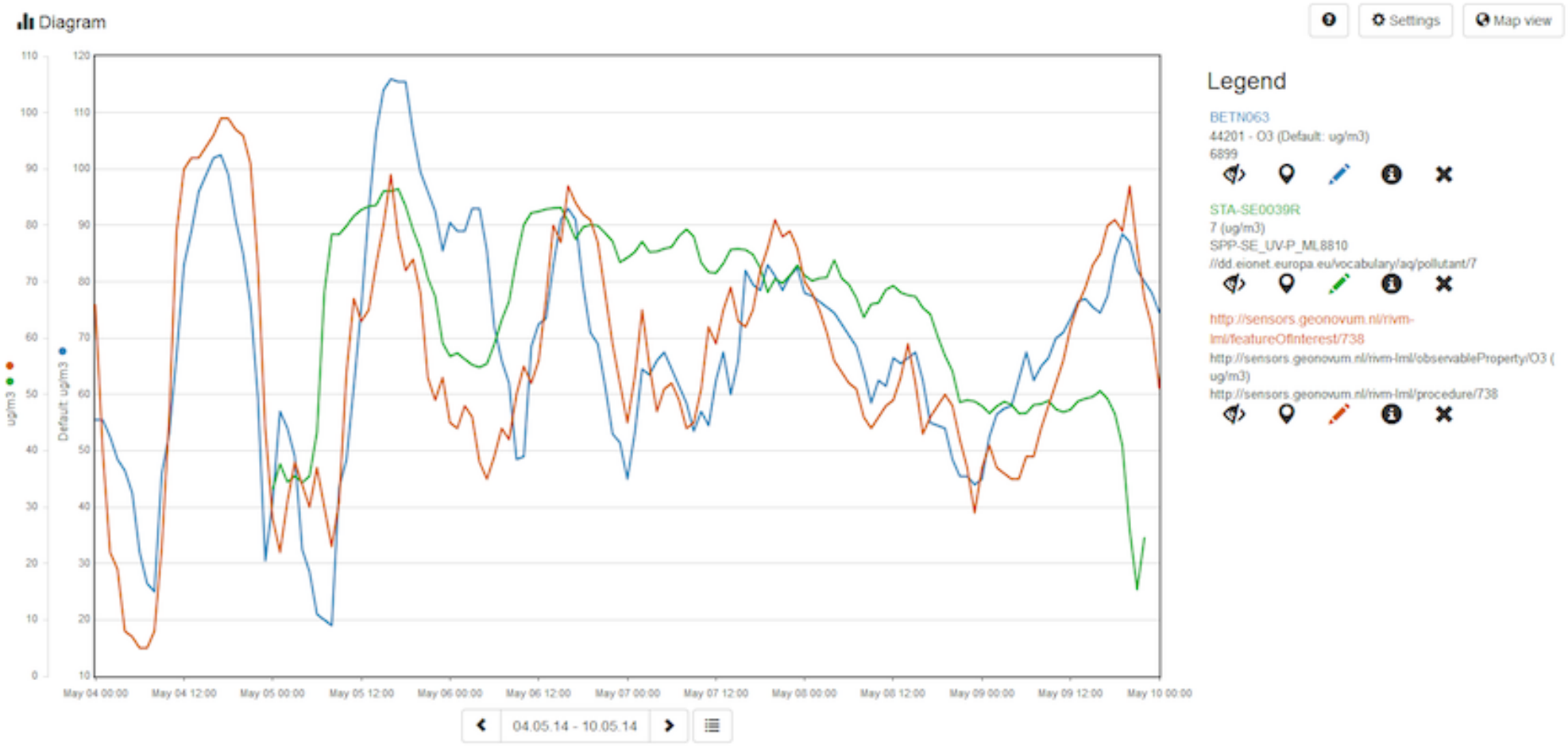
Services

Data and Transformations

Clients - WMS/WFS - HeronViewer


HeronViewer – Viewer for SOSPilot
sensors.geonovum.nl/heronviewer/
SOSPilot HeronViewer - Version 1.0 - Made with Heron
Active Layers
Layers
Basis Kaarten
BRT (PDOK)
OpenBasisKaart OSM
Luchtfoto (PDOK)
TopRaster (Kadaster)
Blanco
RIVM LML
AQ Stations (WMS)
AQ Stations (Active WFS)
Carbon monoxide (CO) - WMS
Ammonia (NH3) - WMS
Last Measurements NH3
Time Series Measurements NH3
Nitrogen Oxide (NO) - WMS
Nitrogen Dioxide (NO2) - WMS
Last Measurements NO2
Time Series Measurements NO2
Ozone (O3) - WMS
Particulate Matter (PM10) - WMS
Sulfur Dioxide (SO2) - WMS
Last Measurements SO2
Time Series Measurements SO2
KNMI - Meteorology
KNMI - Rain Radar (Color)
Kadaster
PDOK
RO Online
Scratch folder
Add Layers (Experimental)
Bookmarks
1 : 1536001
Feature Info
RIVM - Measurements NO2
RIVM - All Stations
3 Results
Clear
Detail
Download
Station_id
Municipality
Sample_time
Sample_value
Validated
561
Haarlemmermeer
2014-05-24T08:00:00
24.0
0
564
Haarlemmermeer
2014-05-24T08:00:00
22.0
0
Time Series Slider
Date: 2014 - 05 - 24 Time: 08 : 00 : 00
Legend
KNMI - Rain Radar (Color)
100.0
31.6
10.0
3.2
1.0
0.3
0.1
kg/m2/h
RIVM - Measurements SO2
RIVM - Measurements NO2
RIVM - Measurements NH3
RIVM - All Stations
Active Stations
Inactive Stations
Amsterdam
Rotterdam
Utrecht
Haag
Arnhem
Nijmegen
Eindhoven
Zwolle
Deventer
Enschede
Apeldoorn
Antwerpen
Gent
Bruxelles - Brussel
Aachen
Venlo
Krefeld
Duisburg
's-Hertogenbosch
Amersfoort
Leeuwarden
Groningen
Emmen
Assen
Meppen
Lingen
Rheine
Enschede
Almelo
Hengelo
Doetinchem
Arnhem
Nijmegen
Wageningen
Ede
Barneveld
Harderwijk
Lelystad
Almere
Hilversum
Gooi
Amersfoort
Zeist
Utrecht
Woerden
Gouda
Alphen aan den Rijn
Leiden
Haarlem
Zaandam
Alkmaar
Hoorn
Enkhuizen
Den Helder
Texel
Vlieland
Terschelling
Ameland
Schiermonnikoog
Harlingen
Sneek
Heerenveen
Drachten
Joure
Leeuwarden
Dokkum
Franeker
Bolsward
Workum
Stavoren
Hindeloopen
Makkum
Lemmer
Urk
Kampen
Zwolle
Steenwijk
Hoogeveen
Coevorden
Emmeloord
Dronten
Biddinghuizen
Zeewolde
Nijkerk
Barneveld
Ede
Wageningen
Rhenen
Veenendaal
Woudenberg
Scherpenzeel
Leusden
Amersfoort
Soest
Baarn
Hilversum
Gooi
Naarden
Bussum
Huizen
Blaricum
Laren
Eemnes
Bunschoten
Spakenburg
Nijkerk
Putten
Ermelo
Harderwijk
Elburg
Oldebroek
Hattem
Heerde
Epe
Vaassen
Apeldoorn
Deventer
Raalte
Lochem
Zutphen
Warnsveld
Eibergen
Ruurlo
Borculo
Neede
Winterswijk
Aalten
Oost Gelre
Doetinchem
Montferland
Bergh
Didam
Zevenaar
Duiven
Westervoort
Arnhem
Rozendaal
Velp
Rheden
Renkum
Wageningen
Ede
Barneveld

Clients - SOS - JSClient - 52N



Heron Workshop

we gebruiken vandaag:
http://sensors.geonovum.nl/heronviewer

meer voorbeelden:

http://heron-mc.org/examples.html

http://kadviewer.kademo.nl

Heron Workshop

- navigatie: pan, zoom, prev/next
- lagen beheer: lagen aan/uit zetten
- lagen toevoegen 1) uit catalogus 2) zoek in NGR (CSW)
- object informatie via WMS GetFeatureInfo
- ga naar plek op kaart: 1) adreszoeker 2) coordinaten
- WMS-Time: 1) huidige waarden 2) historie met tijdschuif
- spatial queries (WFS), download resultaten
- data laden, e.g. Shapefile (.zip)
- tekenen
- printen