



## Mozilla Location Services

Crowdsourcing GSM/Cell masten  
en Wifi-Access points

Gebruik van de Service



# Ik zei de gek

- Richard Duivenvoorde
- QGIS & Mozilla
- OpenSource Adept... en Geo-dude →

## Agenda:

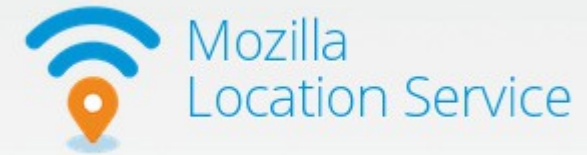
- Wat is Mozilla Location Services
- Hoe gebruik ik MLS

Bedrijf: Zuidt (<http://zuidt.nl>)





# Wat is MLS

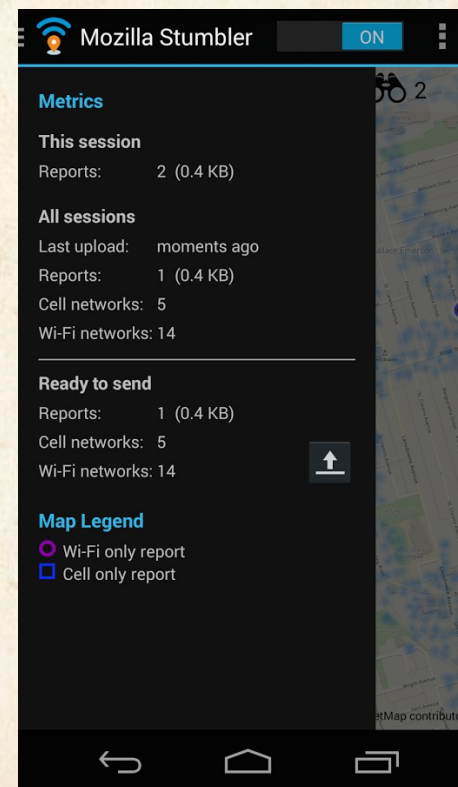
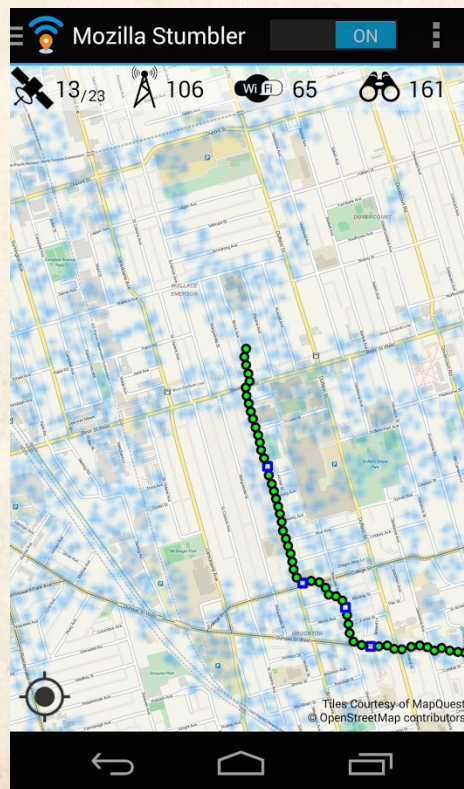


- Mozilla Location Services
- <https://location.services.mozilla.com/>
- “The Mozilla Location Service (MLS) is an open service which lets devices determine their location based on network infrastructure like WiFi access points and cell towers.”



# Crowdsourcing Cells en Wifi ap's

- Mozilla Stumbler (Google Play)
- FireFox OS: FxStumbler
- Cells/Masten & Wifi punten











# Mozilla Location Service

## Map

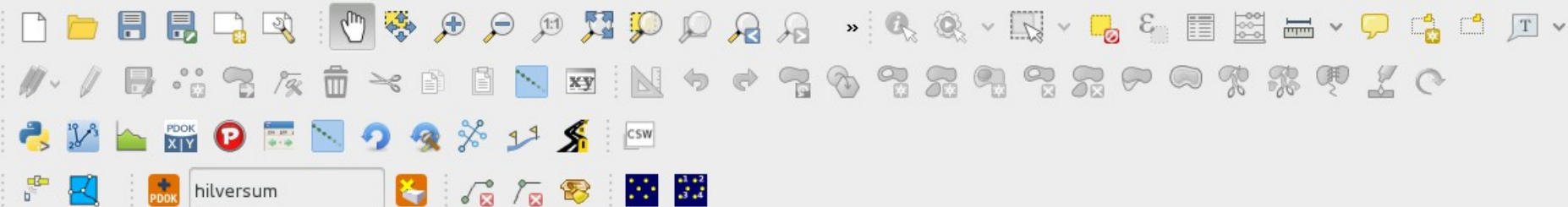
This map shows areas in which our stumbling community has collected data samples. The map is updated once a day, after midnight in UTC.

The map shows general areas in which we have data samples. It does not show the locations of cell towers or WiFi access points.





Project Edit View Layer Settings Plugins Vector Raster Database Web Processing Help



Layers

- ☒ MLSstumber
- ☒ ArcgisWorldTopo
- ☐ brtachtergrondkaart



Browser Layers



Coordinate:

987761,7046522

Scale

2,870,852

Rotation:

0.0

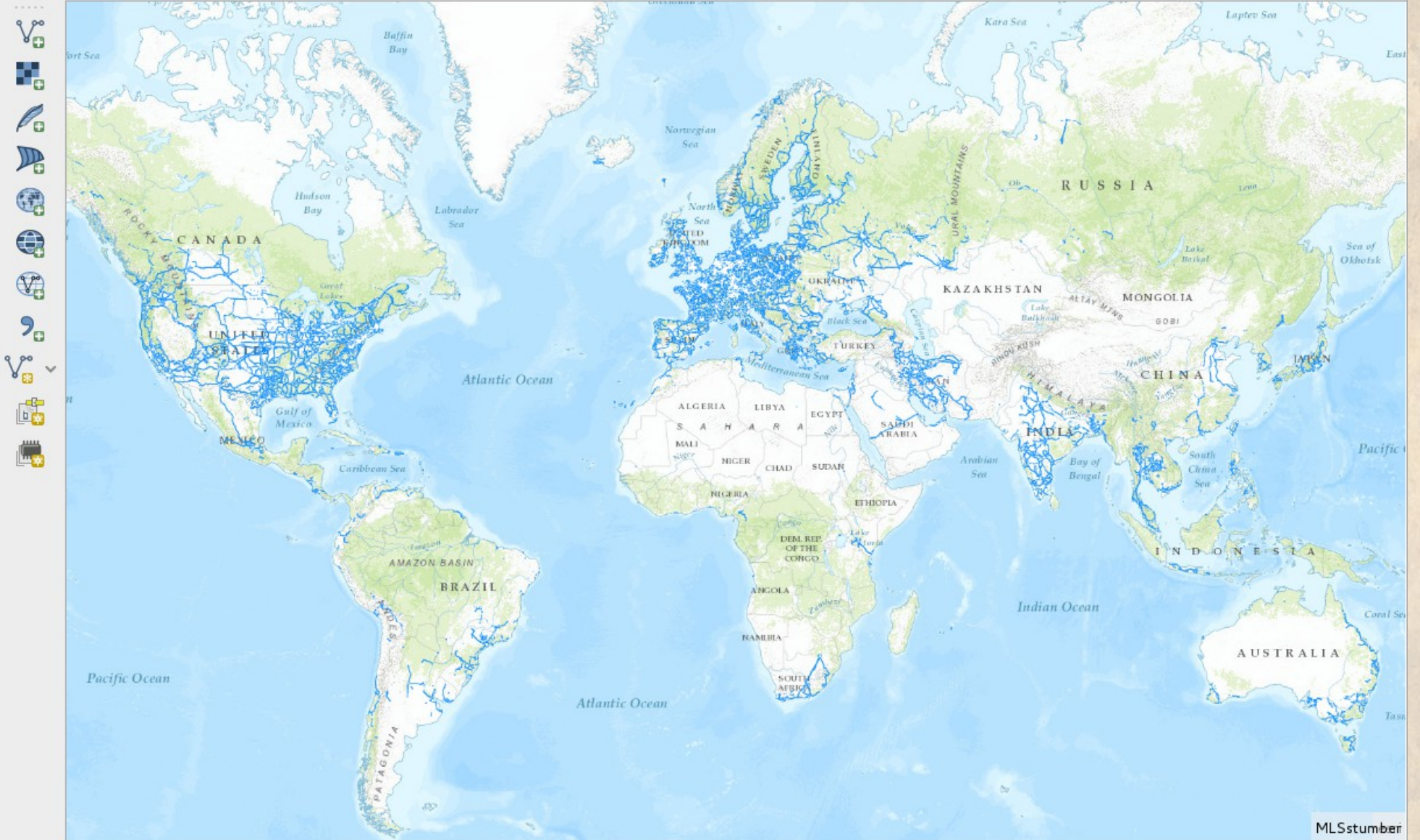
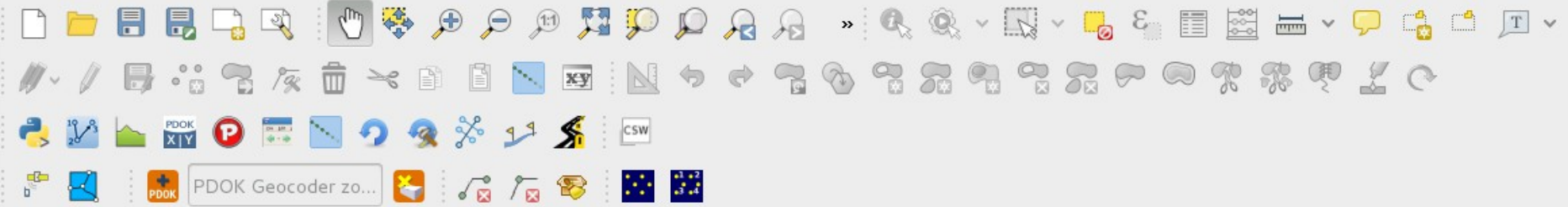
☒ Render

EPSG:3857 (OTF)

Messages



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# API / Gebruik

- 1) Zelfde als Google's (\$) 'Geolocation service'
  - POST JSON met wifi/cell gegevens (>3)
  - LatLon in JSON terug
- 2) Browser (geolocation url in Firefox is in te stellen) voor html5 geolocation api



# Demo

- `sudo iwlist wlan0 scan`
- `sudo iwlist wlan0 scan | python wifi.py`



# Links

- <https://location.services.mozilla.com/>
- [http://zuidt.nl/blog/html/2014/07/04/tinkering\\_with\\_mozilla\\_location\\_services.html](http://zuidt.nl/blog/html/2014/07/04/tinkering_with_mozilla_location_services.html)
- <http://www.qgis.nl/2014/12/08/mozilla-stumbler-laag-tms-and-xyz-lagen-laden-in-qgis/>

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# Vragen?

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