

Crazy about
(OpenStreet)Mapping

Who am I?

- Pieter Vander Vennet
- Studied informatics
- Heavy OSM-contributor
- Working for a small company on mobility (with OSM)
- Bit crazy about mapping and OSM...
- ... I'll tell you why



What is OpenStreetMap?

BeCentral

Go



Search Results



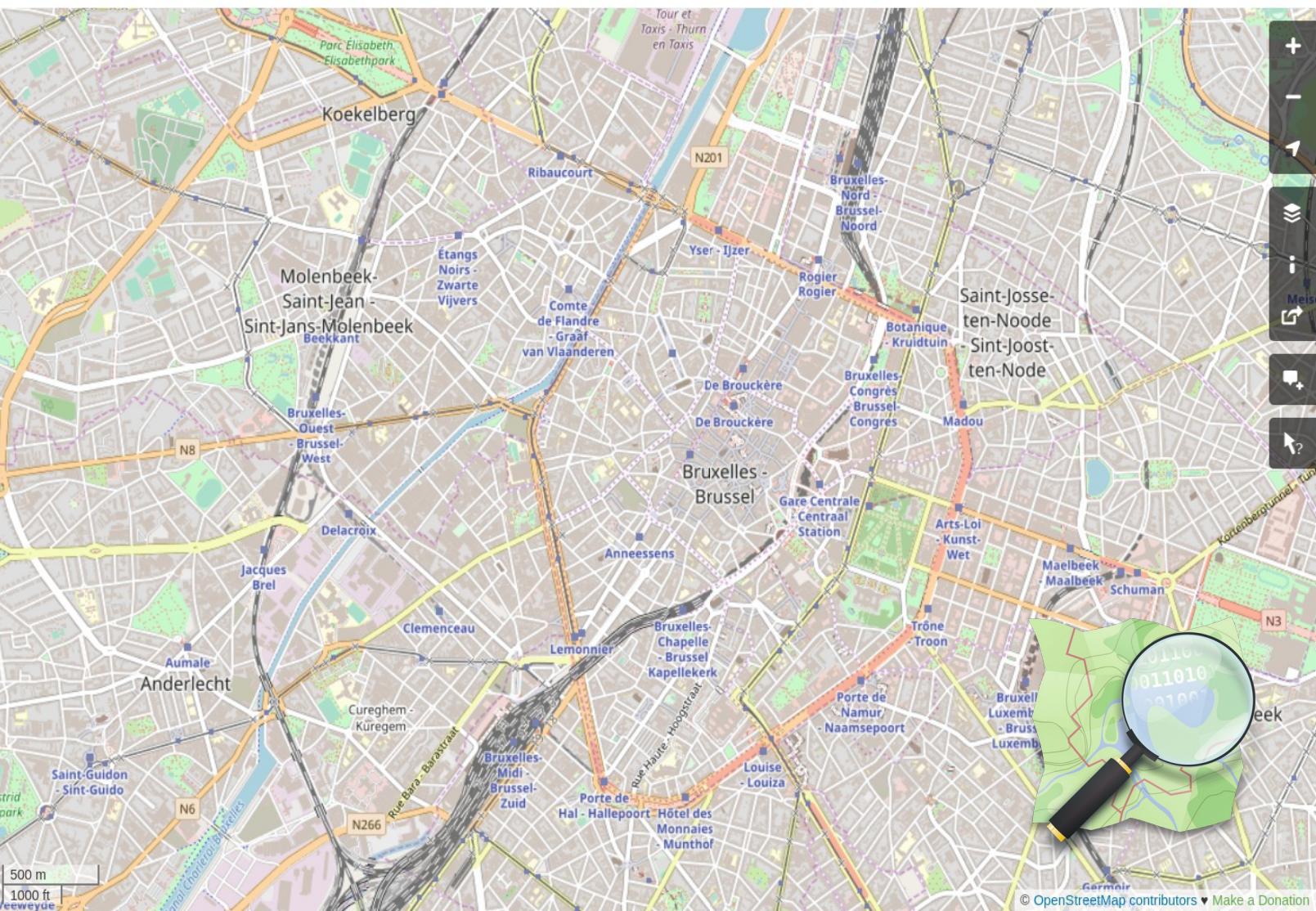
Results from OpenStreetMap Nominatim

Coworking space BeCentral, 10, Cantersteen - Kantersteen, Quartier du Centre - Centrumwijk, Brussels, Ville de Bruxelles - Stad Brussel, Brussels-Capital, 1000, Belgium

[More results](#)

Results from GeoNames

No results found



9, Elf-Julistraat, Brugge-Centrum, Brugge, Bru

Station Brugge, Stationsplein, Brugge-Centrum

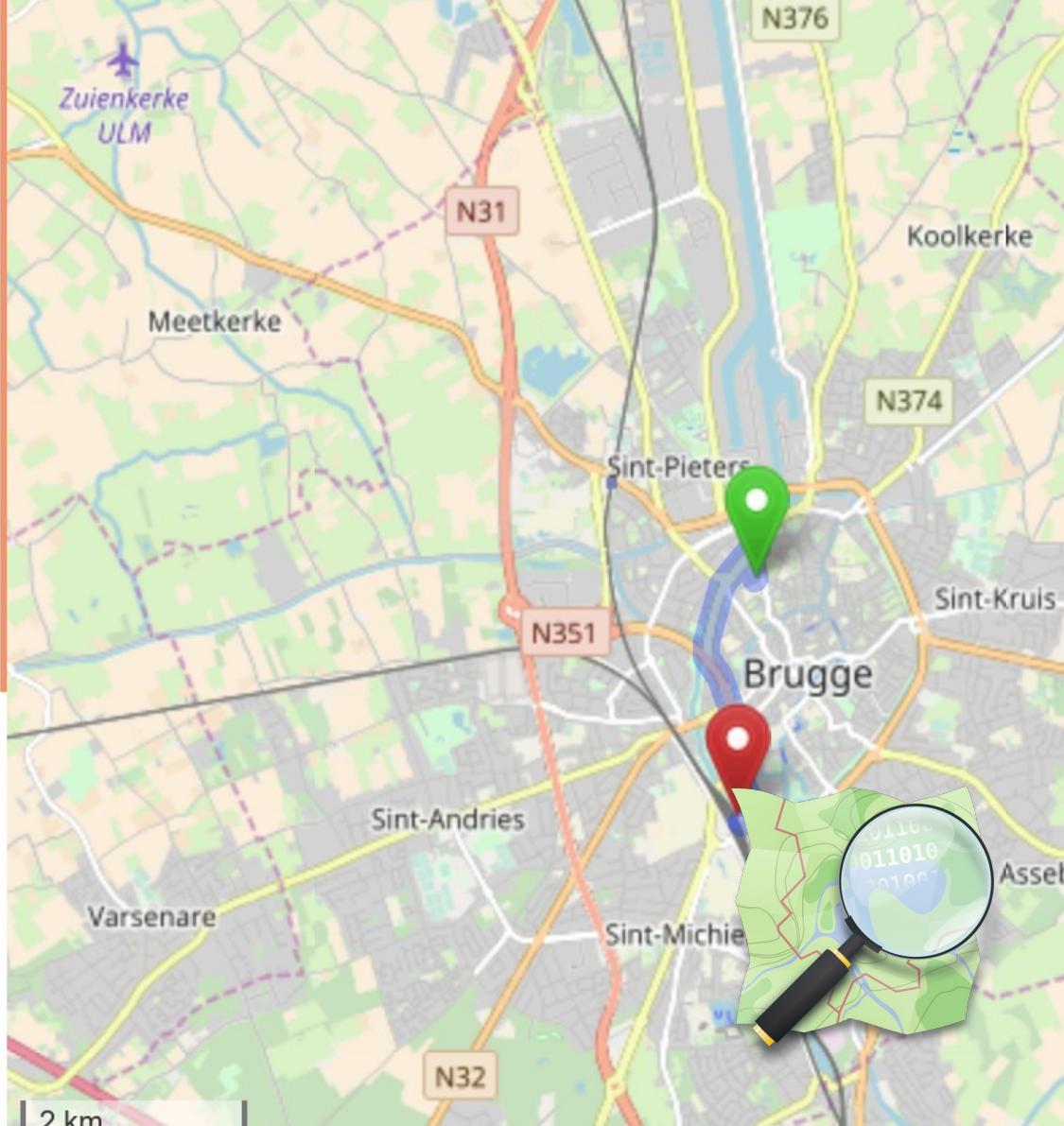
Car (OSRM)

[Reverse Directions](#)

Directions

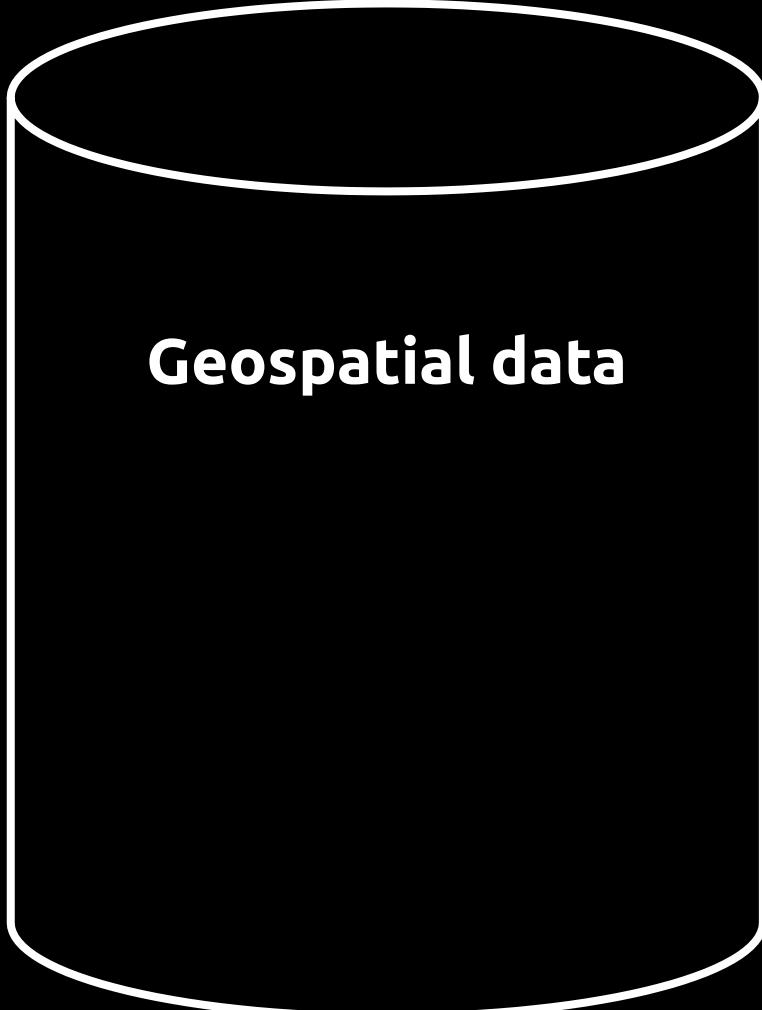
Distance: 3.1km. Time: 0:08.

- ↑ 1. Start on **Elf-Julistraat** 180m
- ↗ 2. Turn right onto **Koningin Elisabethlaan (R30)** 130m
- ↙ 3. U-turn along **Koningin Elisabethlaan** 400m
- ↑ 4. Continue on **Gulden-Vlieslaan (R30)** 700m

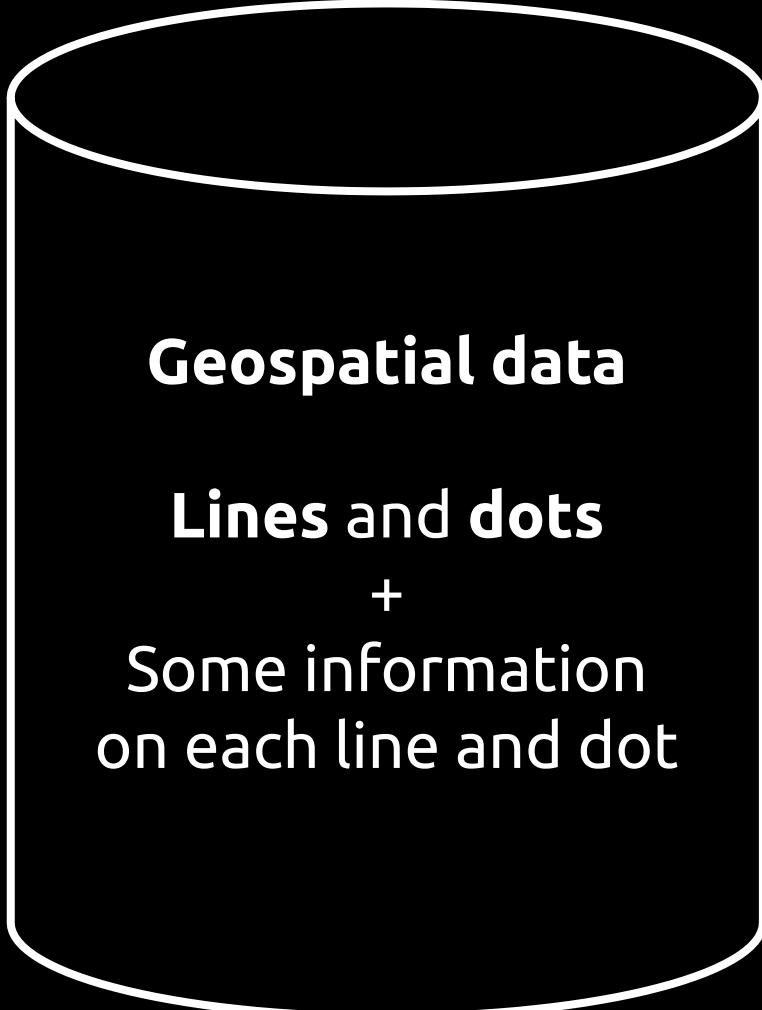




What is OpenStreetMap?



Geospatial data



Geospatial data

Lines and dots

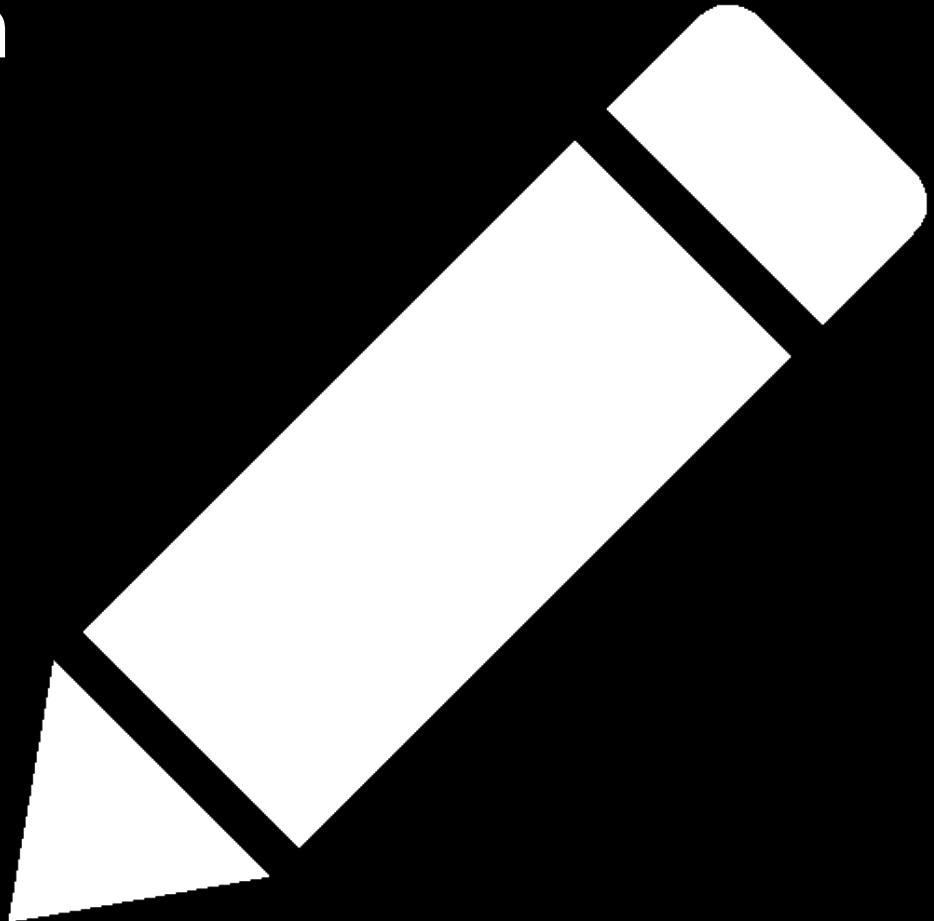
+

Some information
on each line and dot



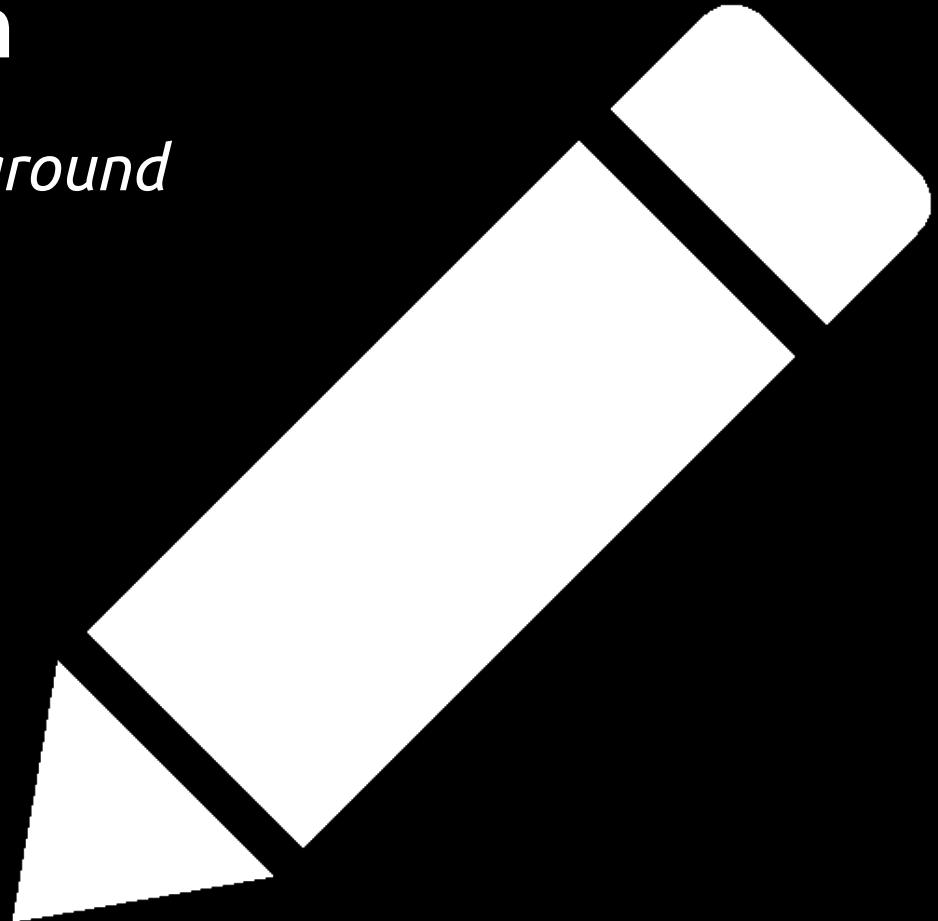
What is OpenStreetMap?

Freedom to add data



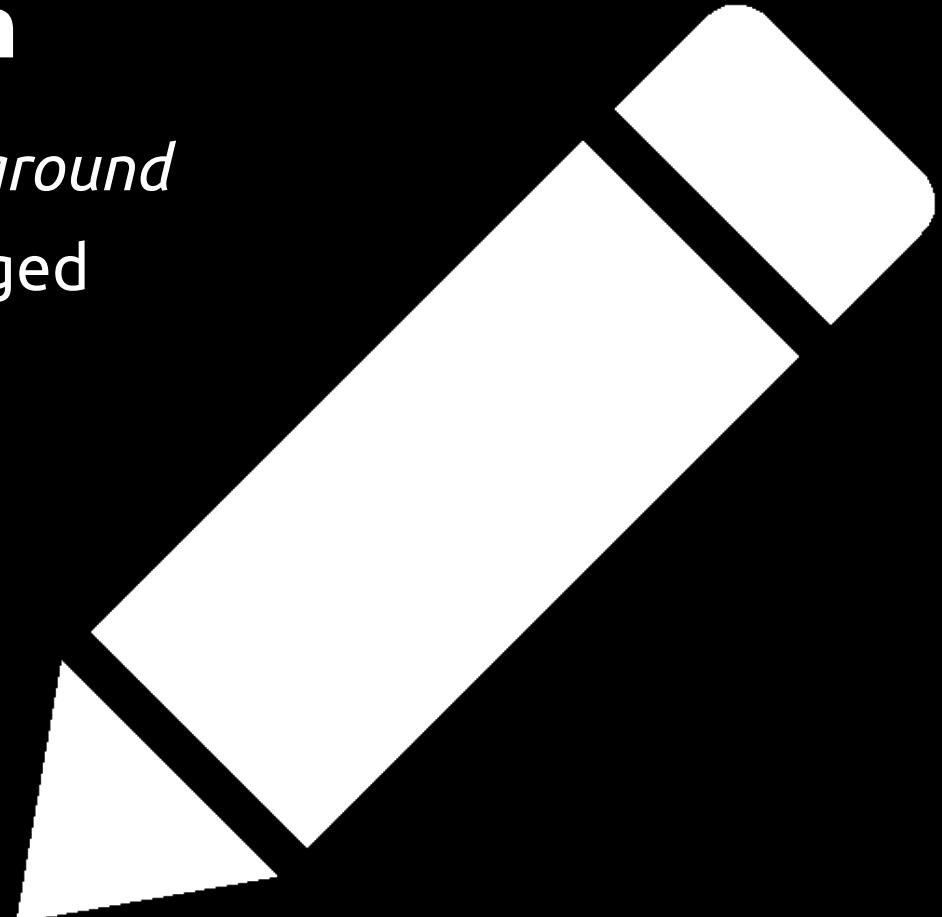
Freedom to add data

- As long as it is *verifiable on the ground*



Freedom to add data

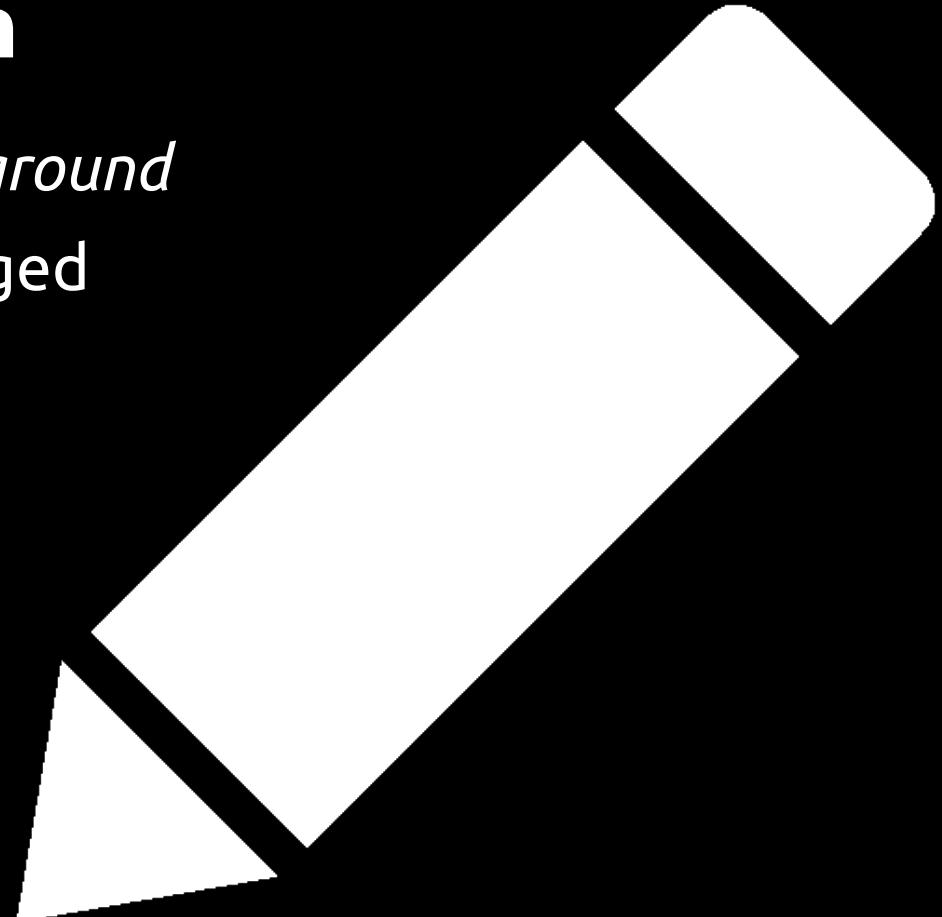
- As long as it is *verifiable on the ground*
- As long as no *copyright* is infringed



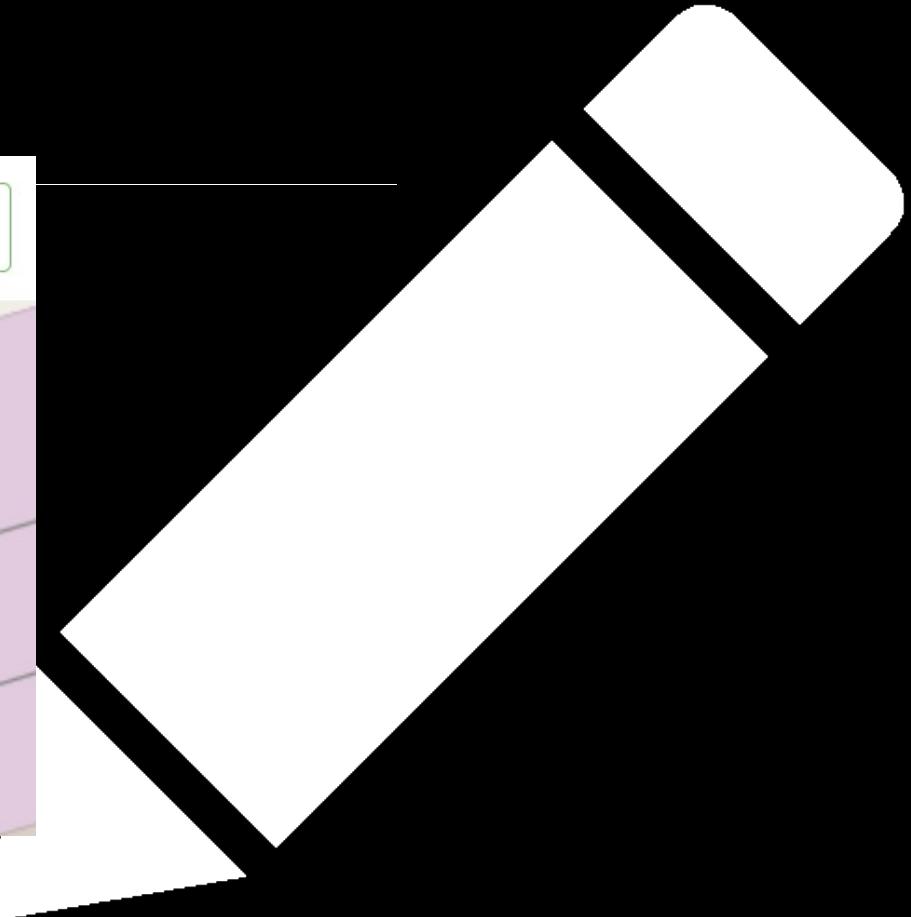
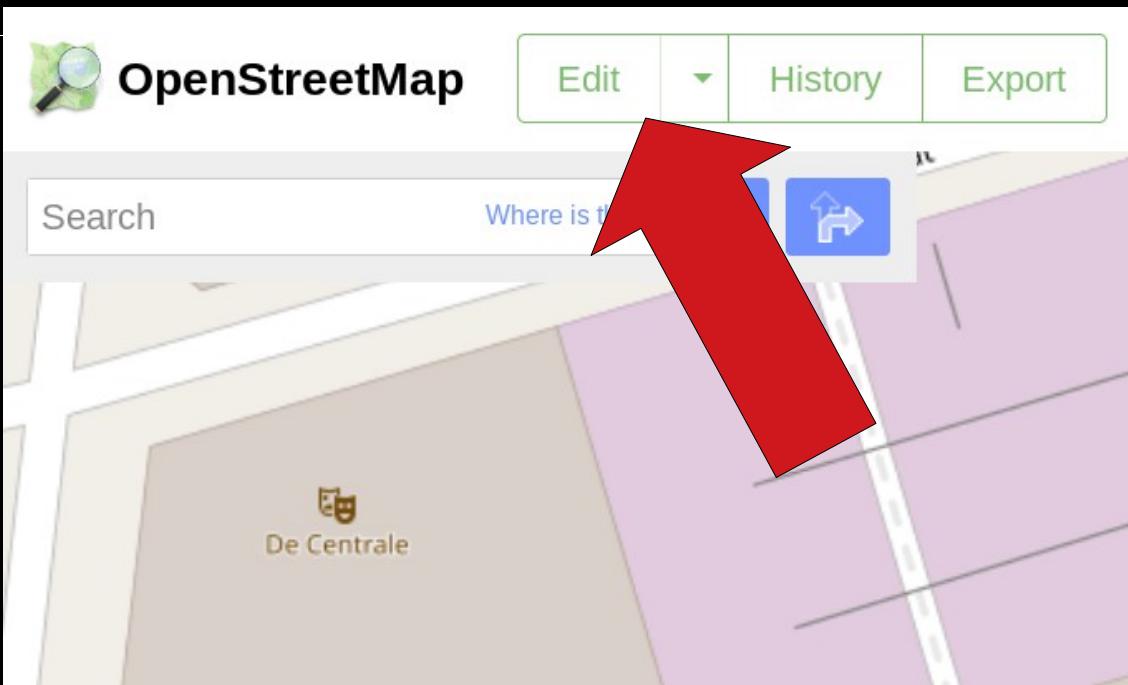
Freedom to add data

- As long as it is *verifiable on the ground*
- As long as no *copyright* is infringed

Go add your specific needs!



How can YOU edit?



How can YOU edit?

Login

Don't have an account? [Register now](#)

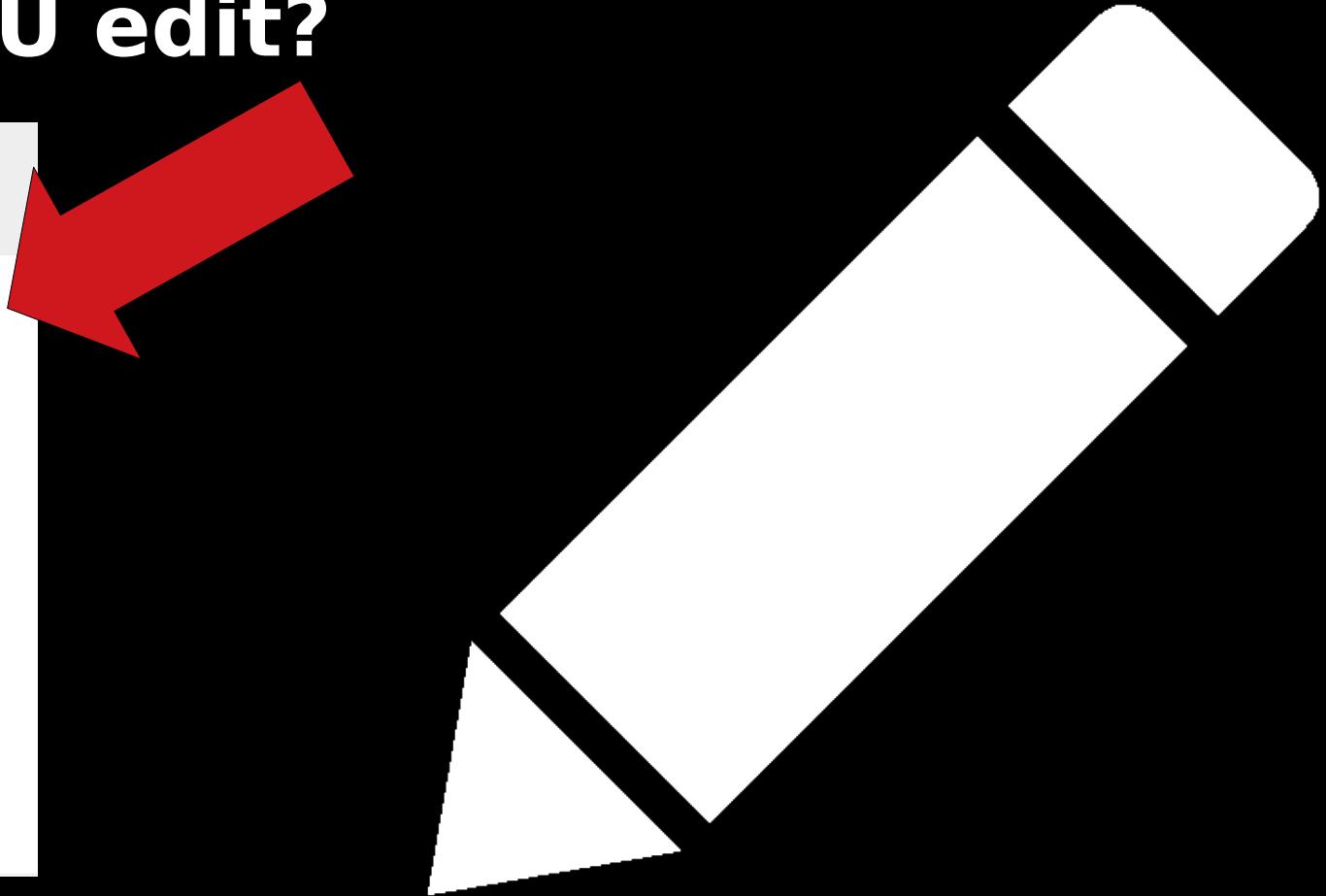
Email Address or Username:

Password:

[Lost your password?](#)

Remember me

Login



How can YOU edit?

Sign Up



Email Address:

Confirm Email Address:

Your address is not displayed publicly, see our [privacy policy](#) for more information

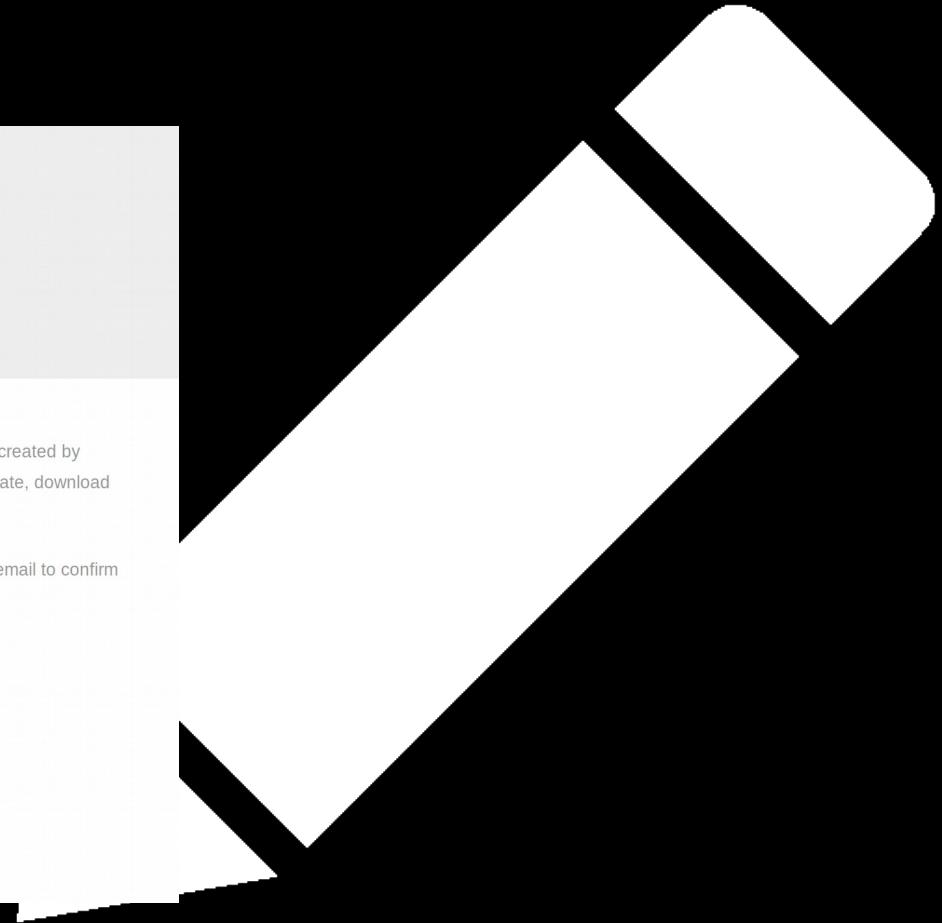
Display Name:

Your publicly displayed username. You can change this later in the preferences.

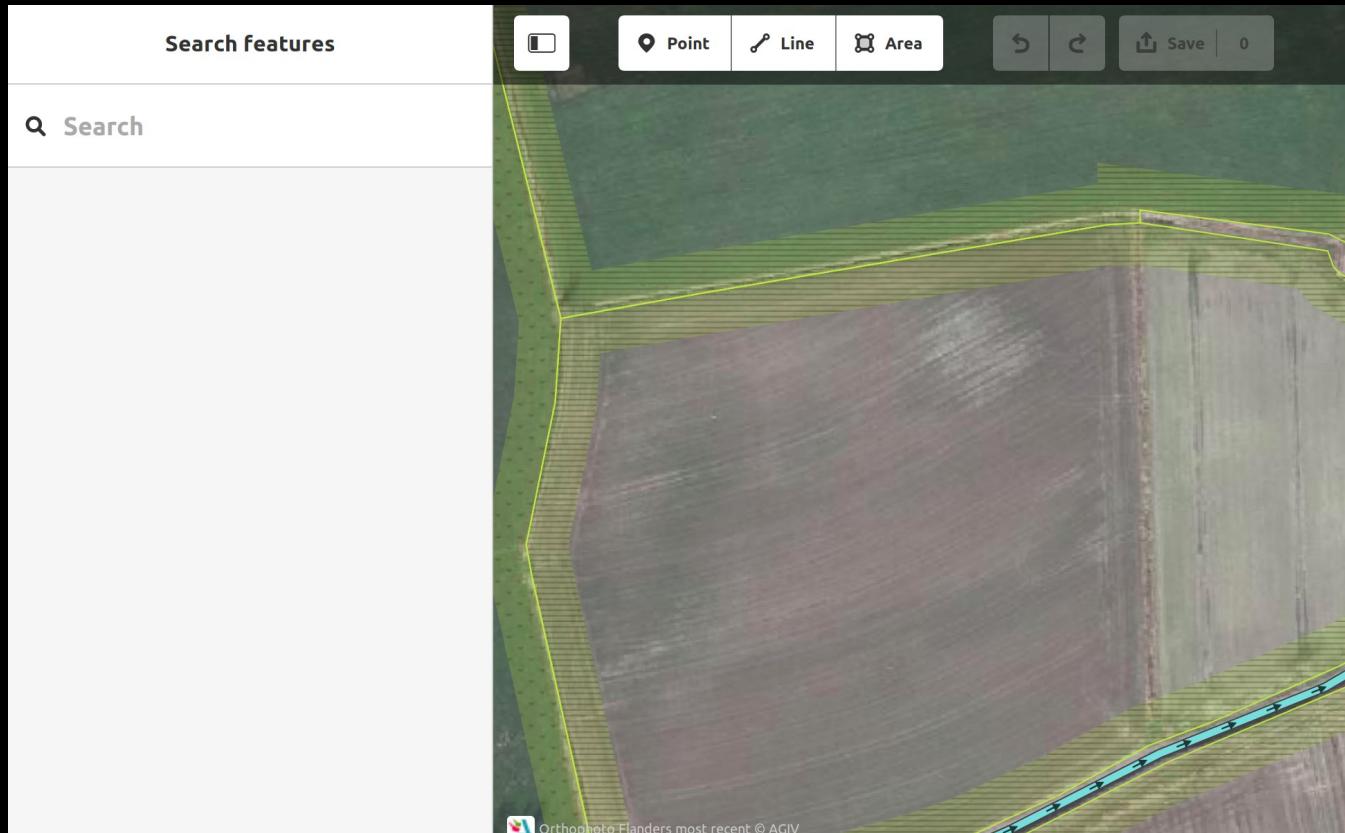
Password:

Free and editable
Unlike other maps, OpenStreetMap is completely created by people like you, and it's free for anyone to fix, update, download and use.

Sign up to get started contributing. We'll send an email to confirm your account.



How can YOU edit?





What is OpenStreetMap?

Crowdsourced

BeCentral

Go



Search Results



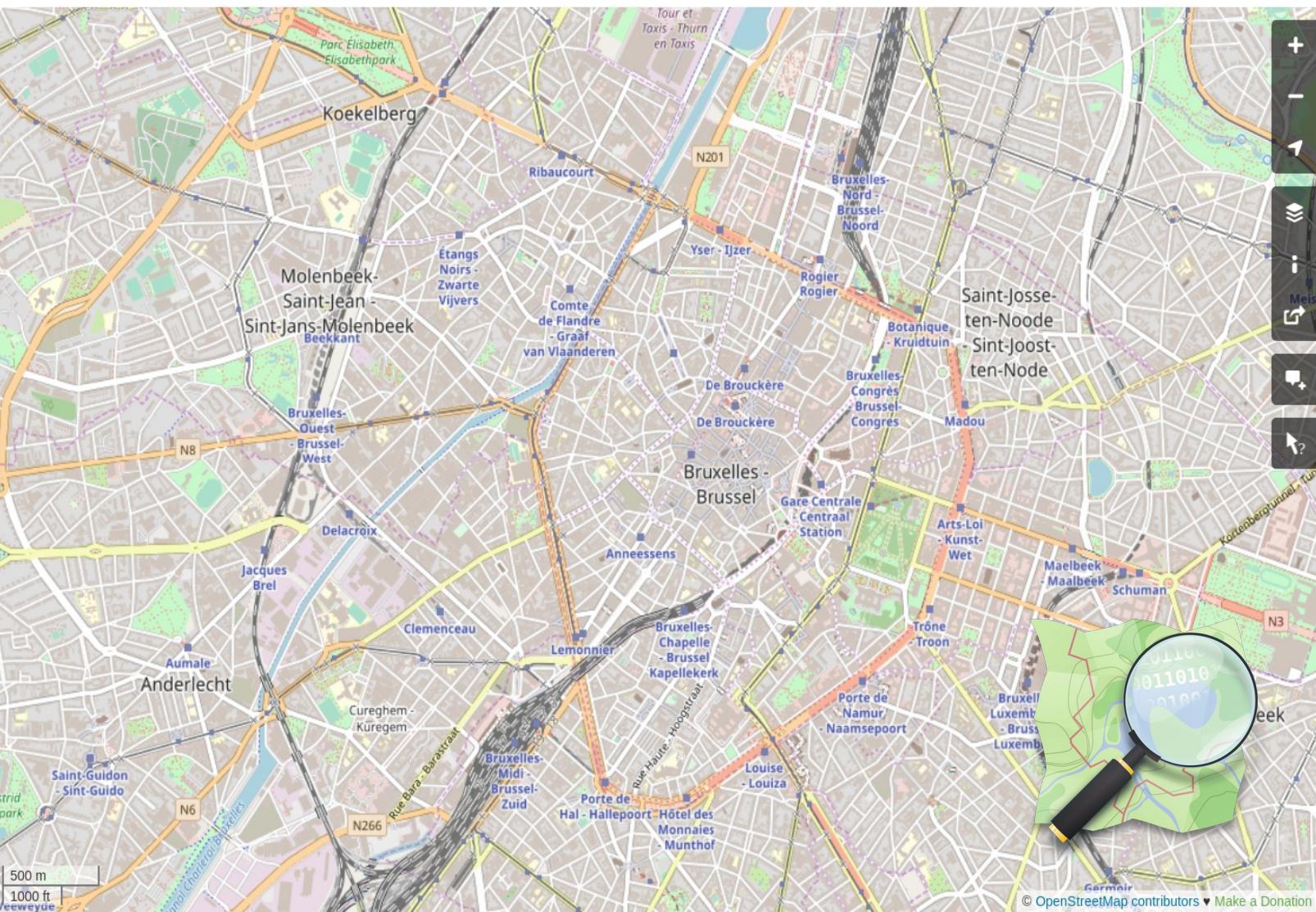
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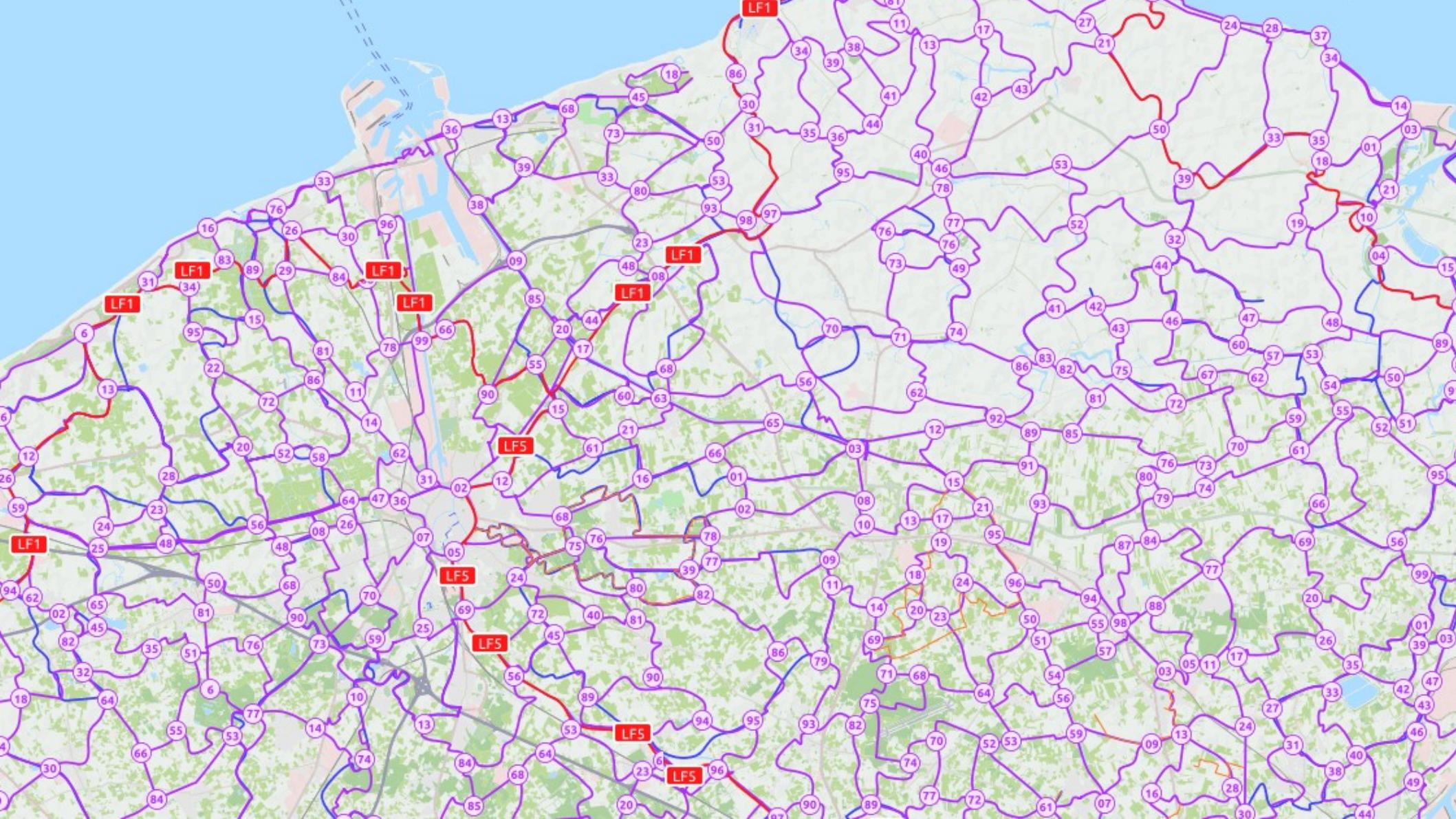
Coworking space BeCentral, 10, Cantersteen - Kantersteen, Quartier du Centre - Centrumwijk, Brussels, Ville de Bruxelles - Stad Brussel, Brussels-Capital, 1000, Belgium

[More results](#)

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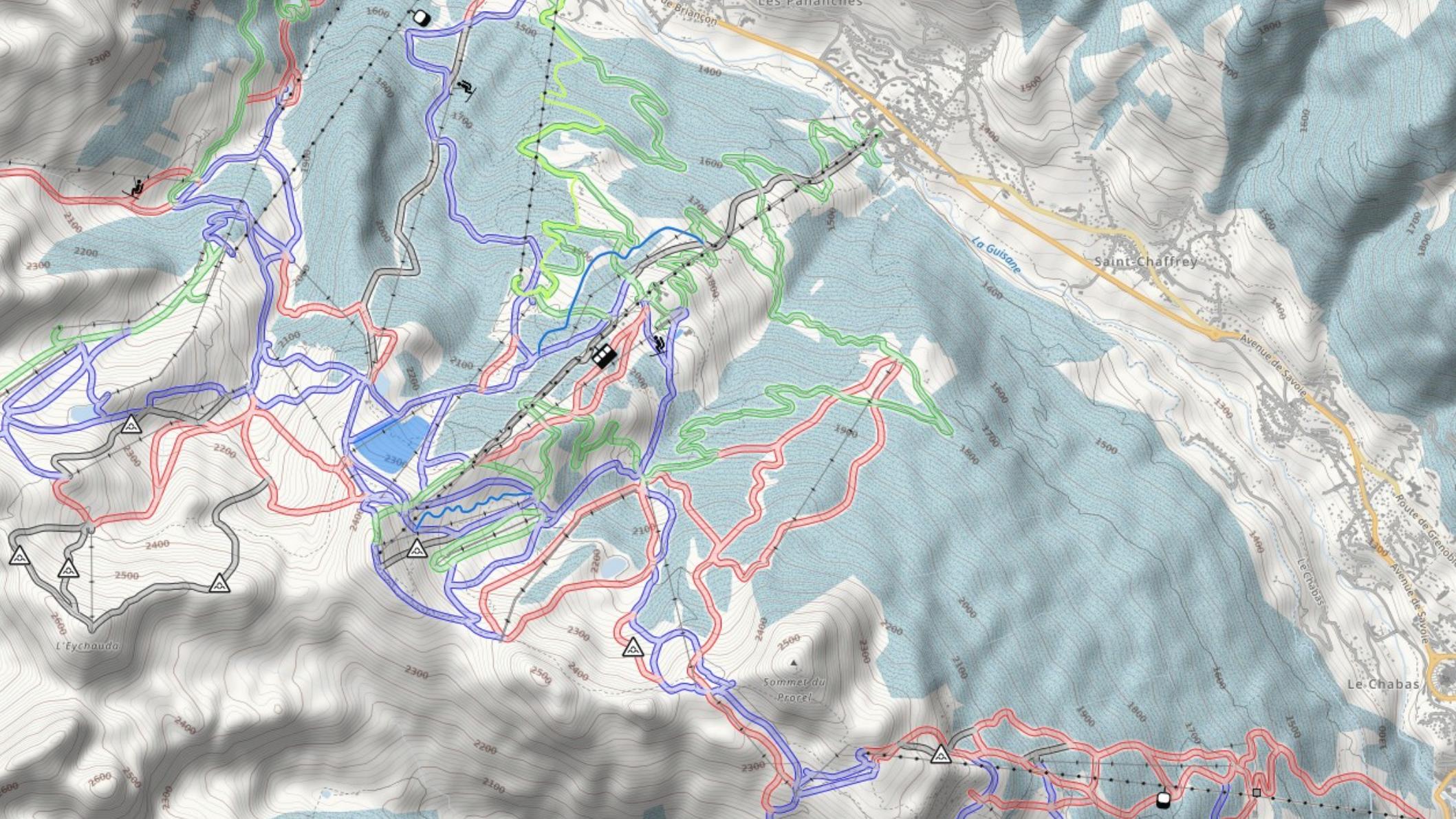


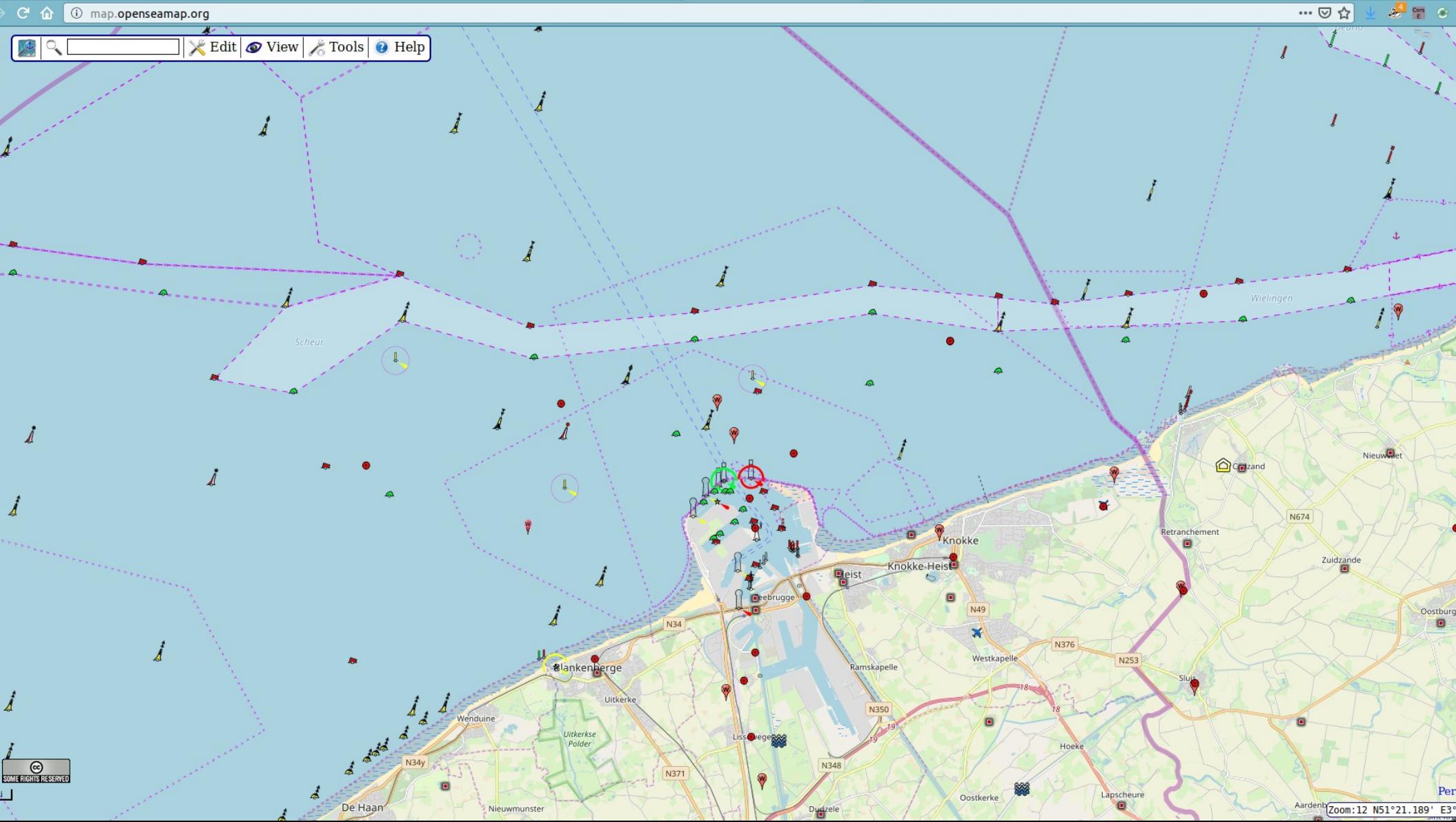


200 m

Centrum-Station

Leaflet © OpenStreetMap contributors Data:ODbL, Map:cc-by-sa









MEDECINS SANS FRONTIERES
DOCTORS WITHOUT BORDERS





Instructions

Entities to map

Buildings and Roads

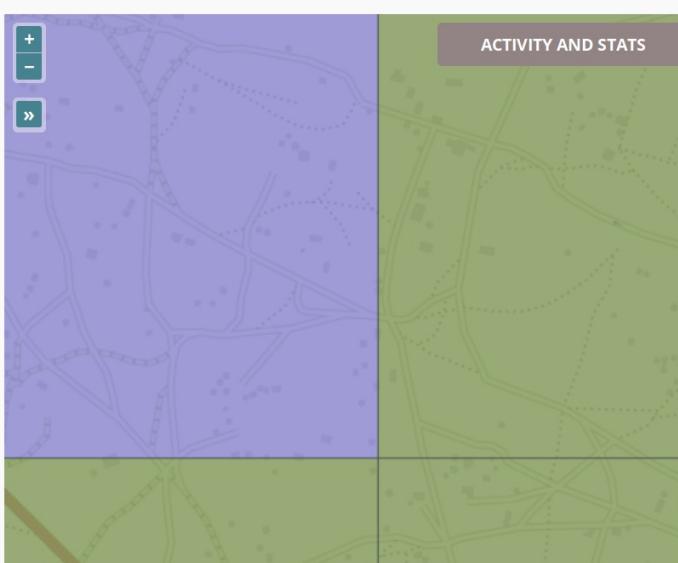
Changeset Comment

#hotosm-project-4341 #MissingMaps #EliminateMalaria #Botswana

Imagery Notes

- Please use Bing Aerial Imagery, which is the newest available imagery.
- Align buildings/infrastructure to the imagery in each task. In some cases, you may move mapped objects to match up other mapping done in the near by areas.

Project Specific Mapping Notes





What is OpenStreetMap?

Saving lives

Come to a mapathon

- Every now and then, we get together and map
- Next one: Rode Kruis, 7th may

Osm.be/calendar

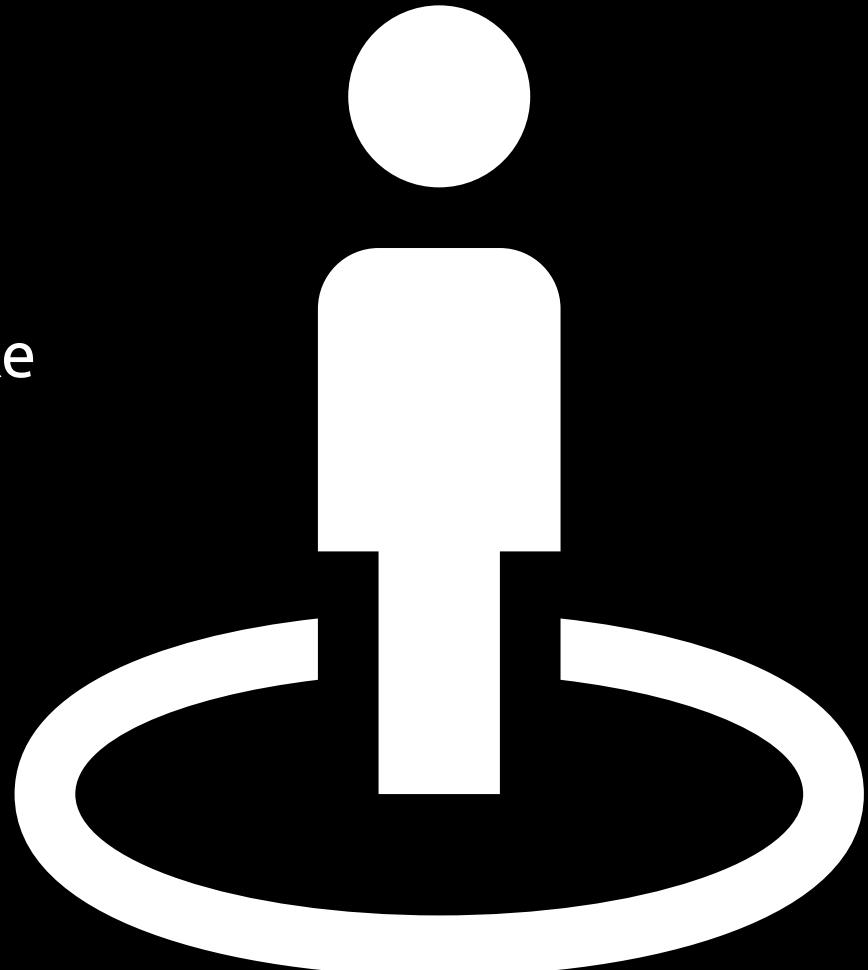


What is OpenStreetMap?

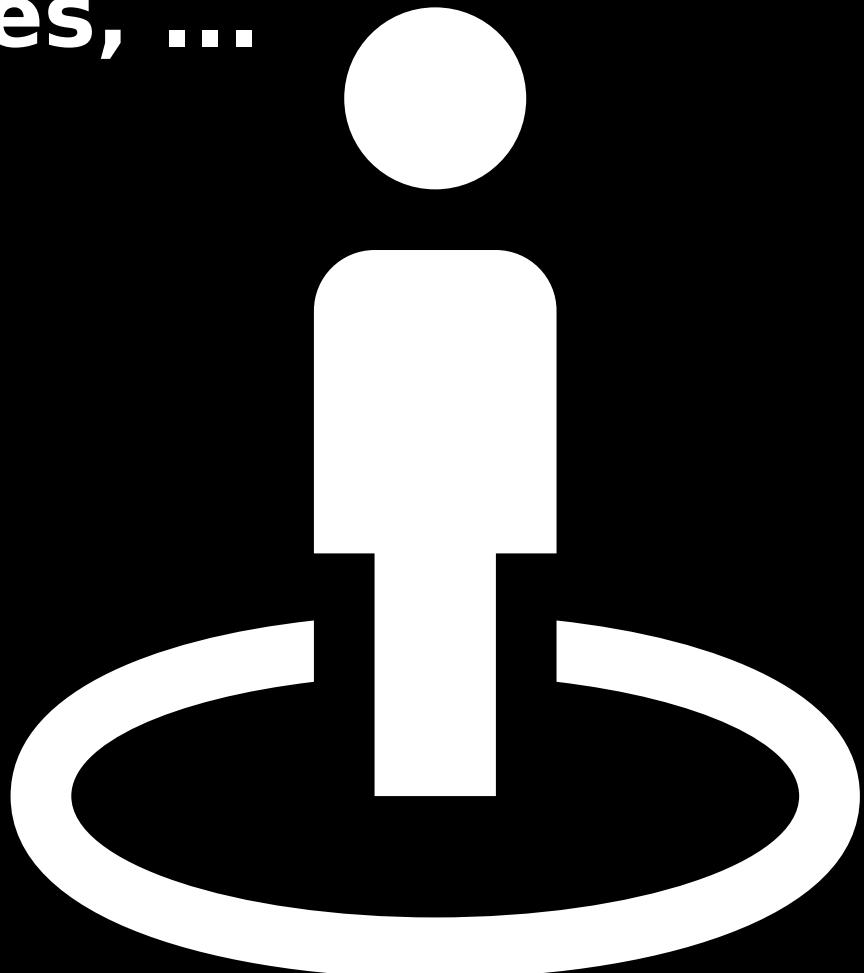
A license: ODbL

Open Database License

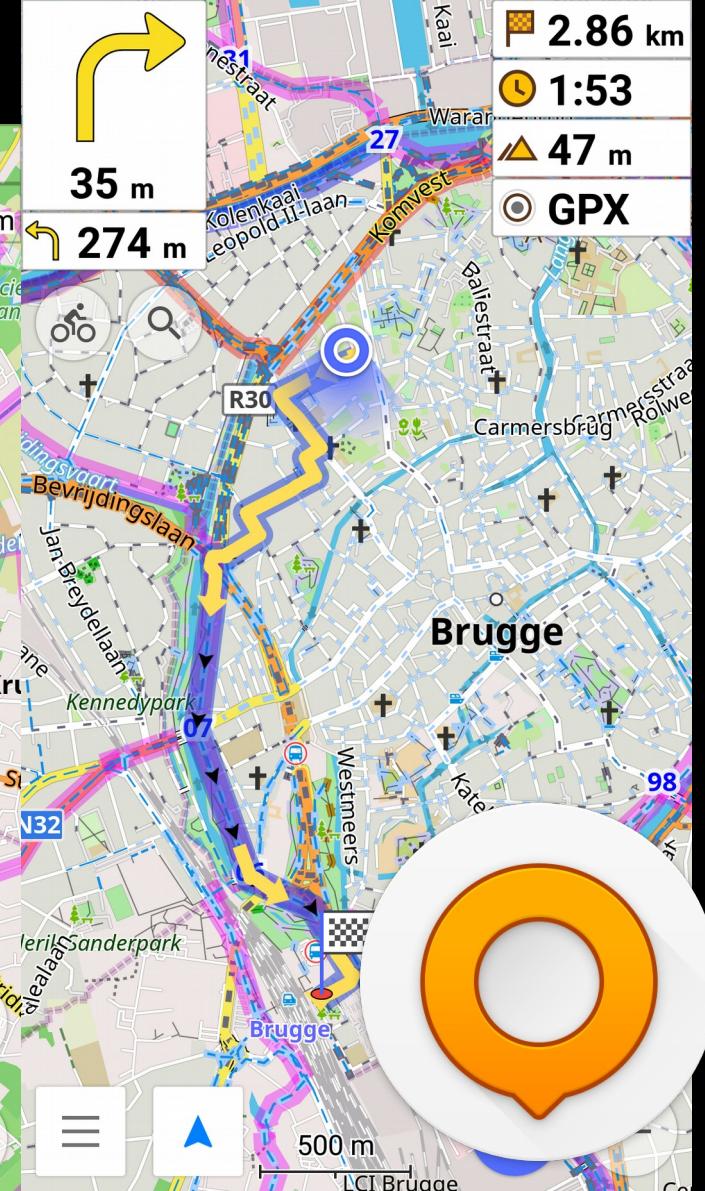
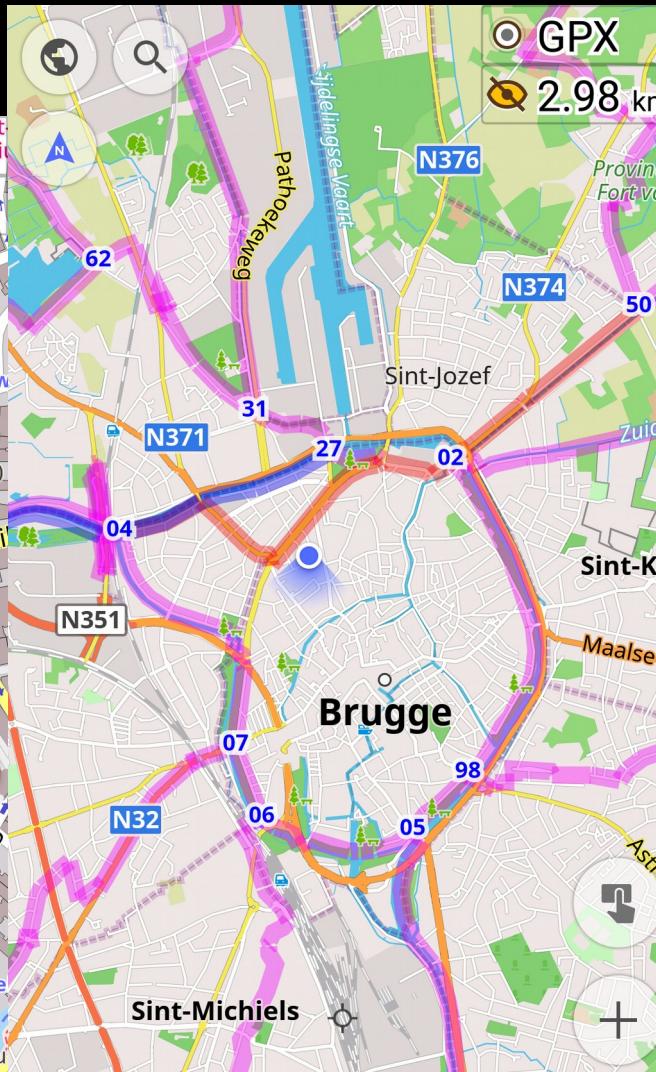
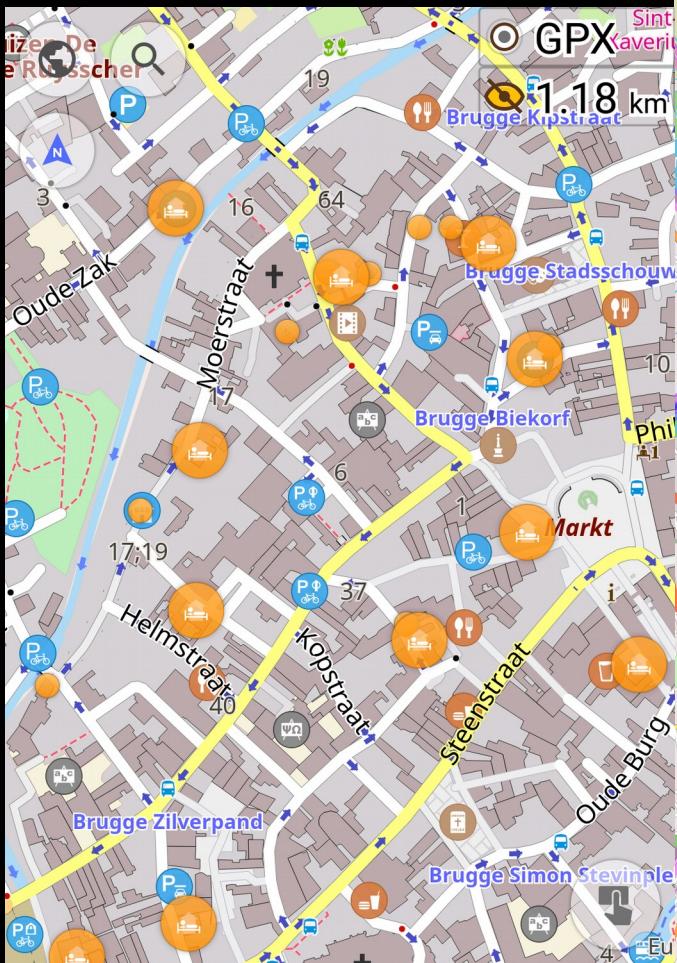
You can use the data how you like
as long as you give **attribution**
and keep the data open



Tons of apps, websites, ...



OsmAnd









Search a place...



3D



Discover our solutions

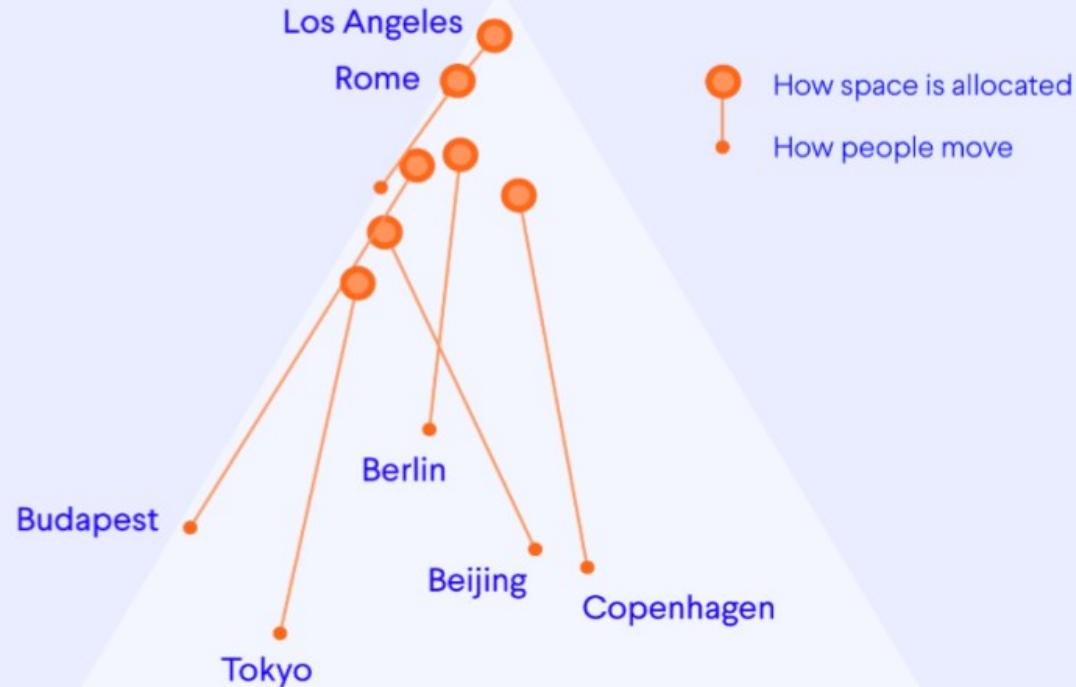
10m

F4map © F4 Map data © OpenStreetMap contributors (updated 2 minutes ago) Credits





Szell, M. (2018). Crowdsourced Quantification and Visualization of Urban Mobility Space Inequality. *Urban Planning*, 3(1), 1-20. doi: <http://dx.doi.org/10.17645/up.v3i1.1209>



How space is allocated
How people move



Figure 4. The mobility triangle expresses visually the discrepancy between mobility space distribution ("How space is allocated") and modal share ("How people move") as a connected pair of dots in a ternary plot, shown for seven selected cities.





Trage
wegeñ
vzw





When did you last use a map?

- Which map was it?
- Why?
- How much did you pay to use it?



What is
OpenStreetMap
NOT?

What is OSM not?

- Profit-oriented
- Expensive
- Privacy-violating



Price of maintaining a map

Google Maps costs around
??? dollar/year



Price of maintaining a map

Google Maps costs around
1 '000'000'000 dollar/year

(This number is a rumor, no official sources exist)



Price of maintaining a map

Google Maps costs around
1 billion dollar/year

(This number is a rumor, no official sources exist)



Price of maintaining a map

**Google Maps costs around
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(This number is a rumor, no official sources exist)

Buying and creating satellite and map data

Google Streetview costs between \$200 and \$1150/km

Google bought Waze for 1.1 billion dollar

Nokia bought Navteq for 8 billion dollar and 'burns' 1 bil

Apple burns around 1 billion dollar/year as well



Price of maintaining a map

Similar amounts for other services

Google bought Waze for 1.1 billion dollar

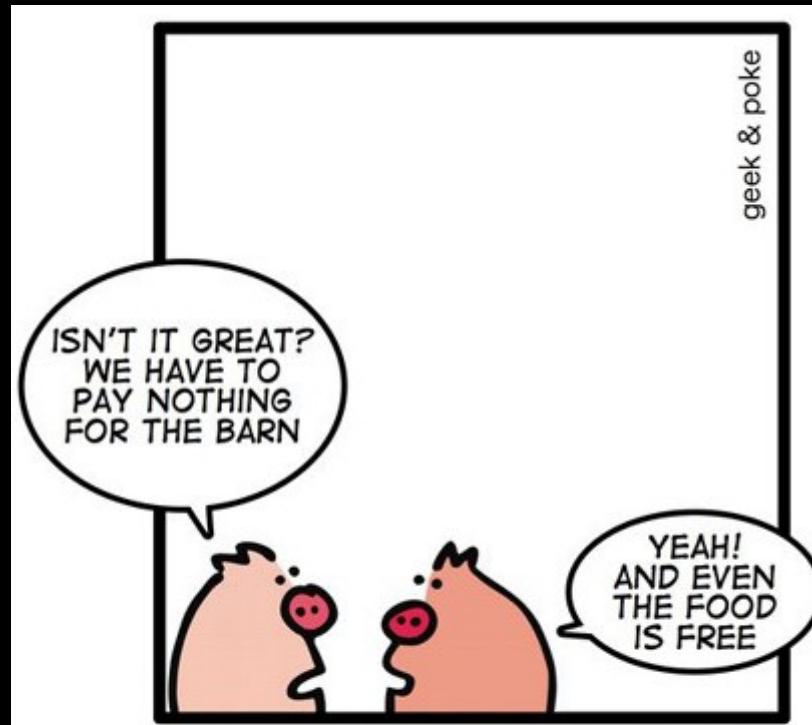
Nokia bought Navteq for 8 billion dollar
and 'burns' 1 billion a year

Apple maps burns around 1 billion dollar/year



How much did you pay?

There is no such thing as free lunch

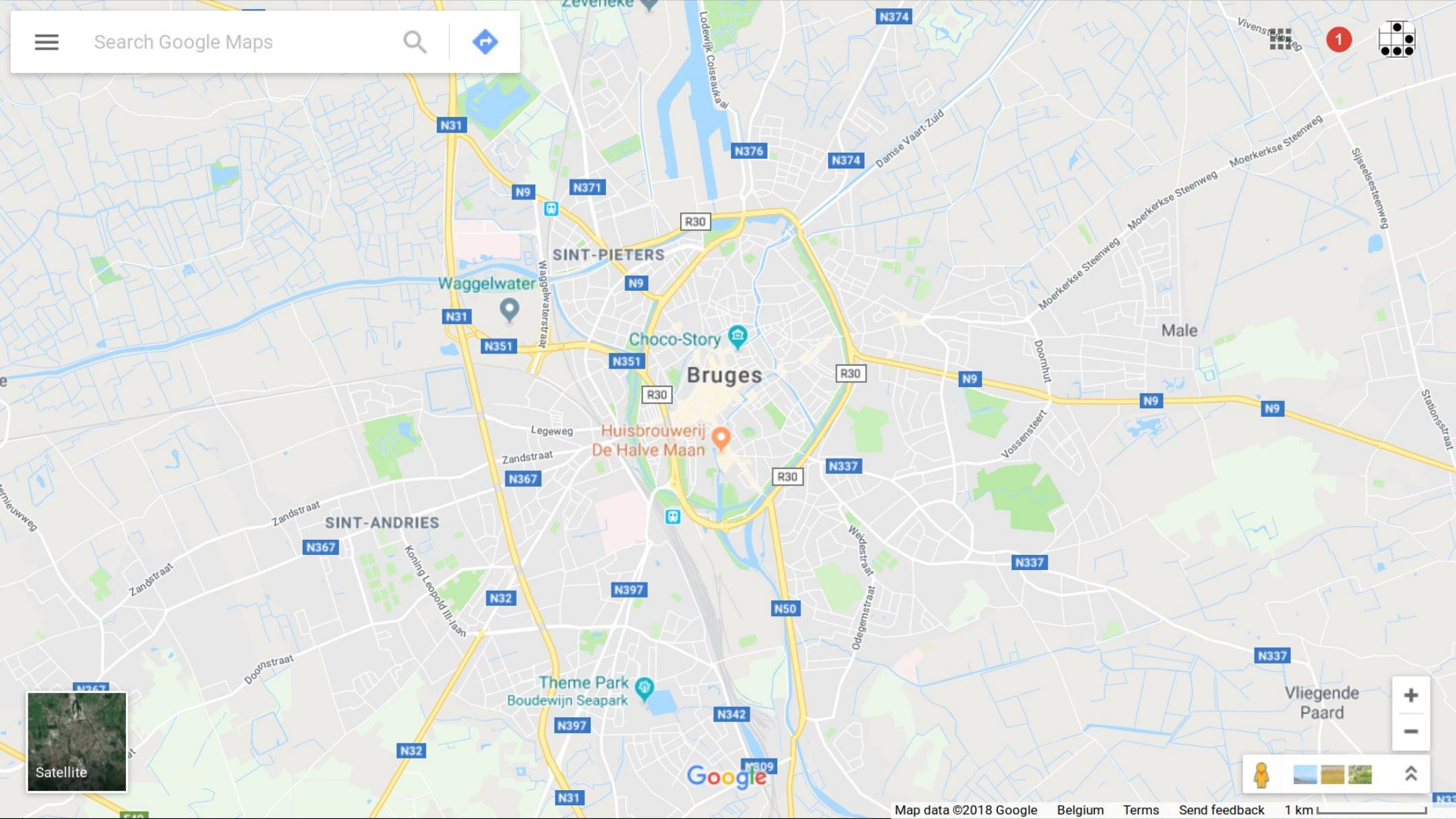




Search Google Maps



1



Satellite



Map data ©2018 Google

Belgium

Terms

Send feedback

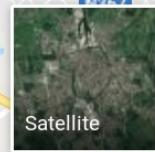
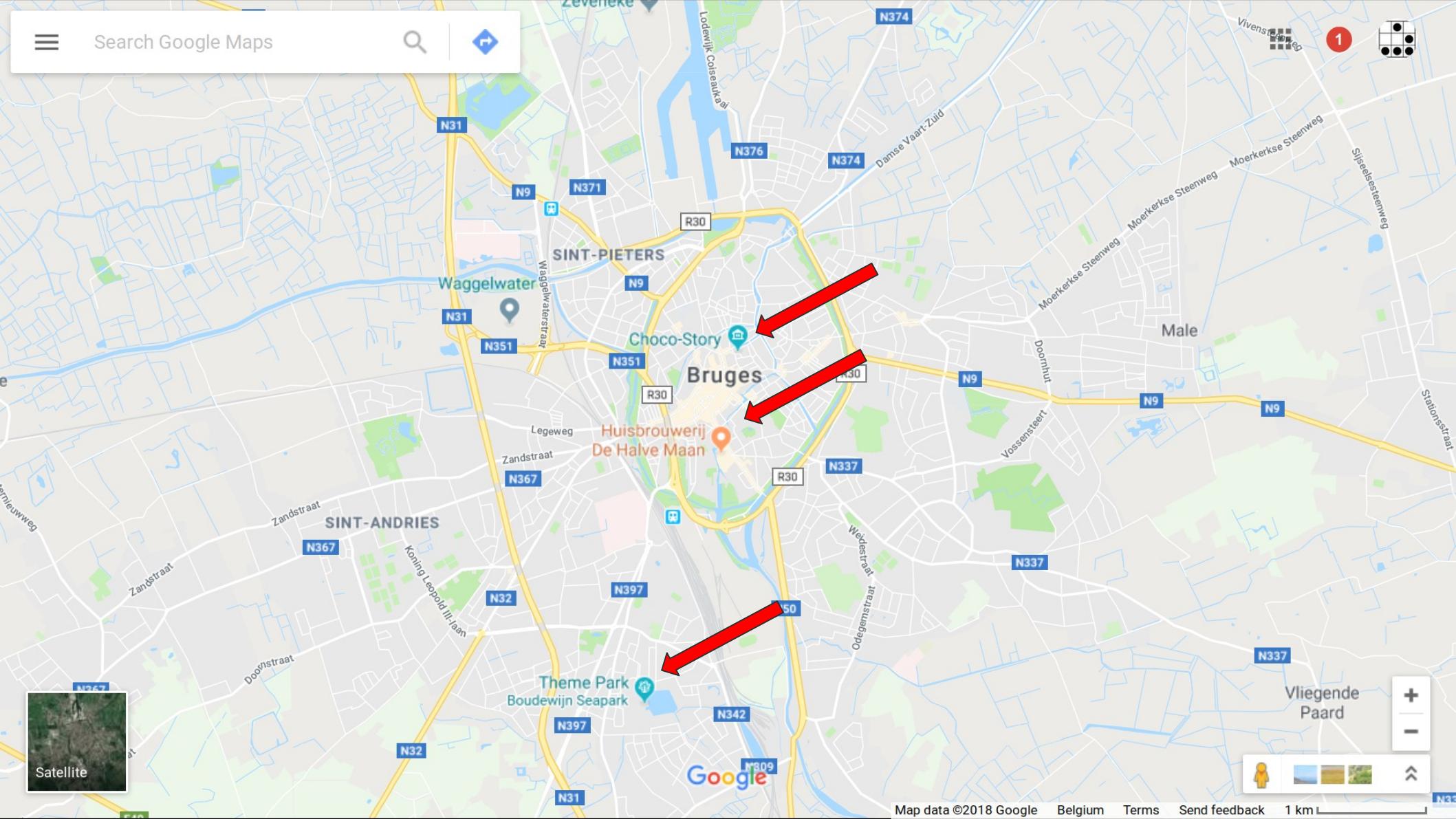
1 km



Search Google Maps



1



Satellite



Google

Map data ©2018 Google

Belgium

Terms

Send feedback

1 km

Google Maps is advertising

Google makes money by

- placing ads on the map
- giving some venues more priority in search

No incentive to map poor countries

“Google Maps only works within 100 miles of a starbucks”

Google Maps is tracking

Google tracks your searches and location through maps,
under the guise of features

“Share your location”, “Find my phone”, “Where am I?”

Very valuable information

- Better ads
- How effective is an ad pin?
- ...

Google Maps is a monopoly

- Little incentive for other companies to provide cartography services, cause 'google maps is free anyways' - the consumer
- You can look to it, but not reuse anything
- Google Maps uses lock-in-tricks
 - Sudden price hike for devs (1th may 2018)
 - Death by a thousand papercuts



... but

- Google Maps *does* have more information on shops and businesses because everyone searches them there

(It's even worse – a shop *not* on Google "does not exist")

but this is changing!



... but

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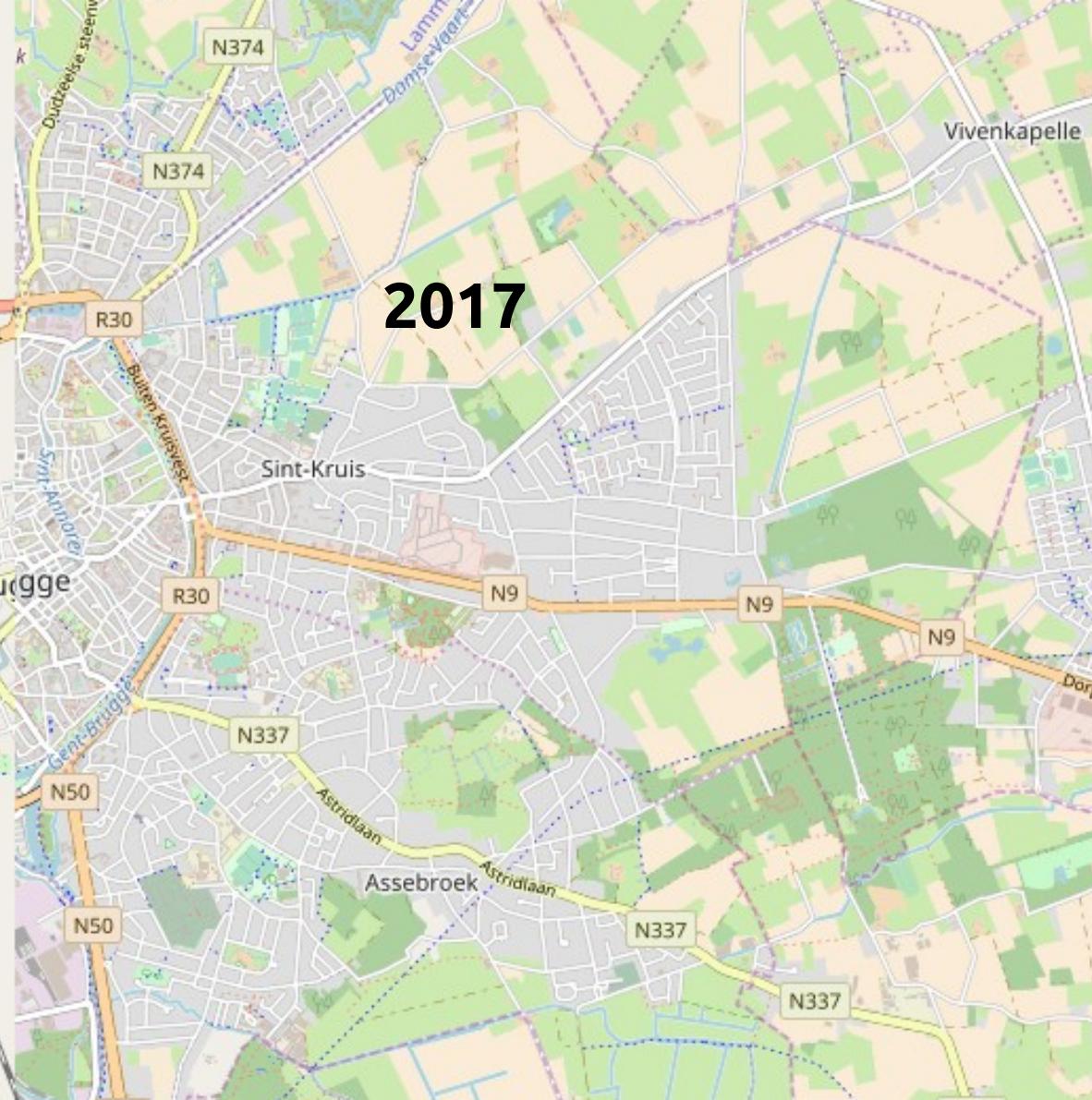
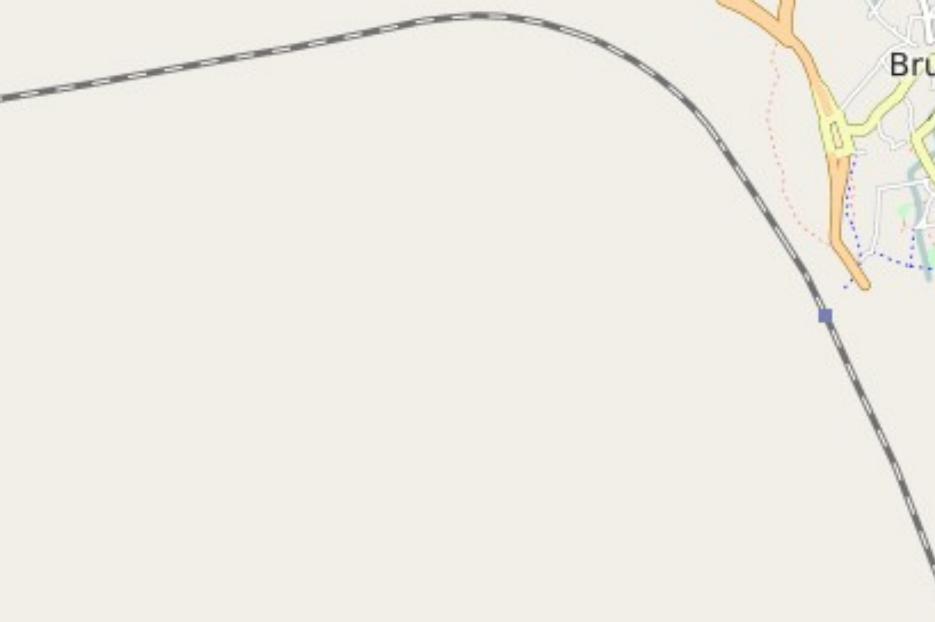
(It's even worse – a shop *not* on Google "does not exist")

but this is changing!



OSM is catching up!

2007



OSM is truly free

Free as in beer*

Free as in freedom

However, if you can afford it, donate back

- Money for the server
- Data – contribute yourself
- Love – use it on the road and in your projects
- Users – spread the word

*There are commercial, paid solutions too for heavy map users

However, as there are multiple players, it is affordable





What is OpenStreetMap?



Community

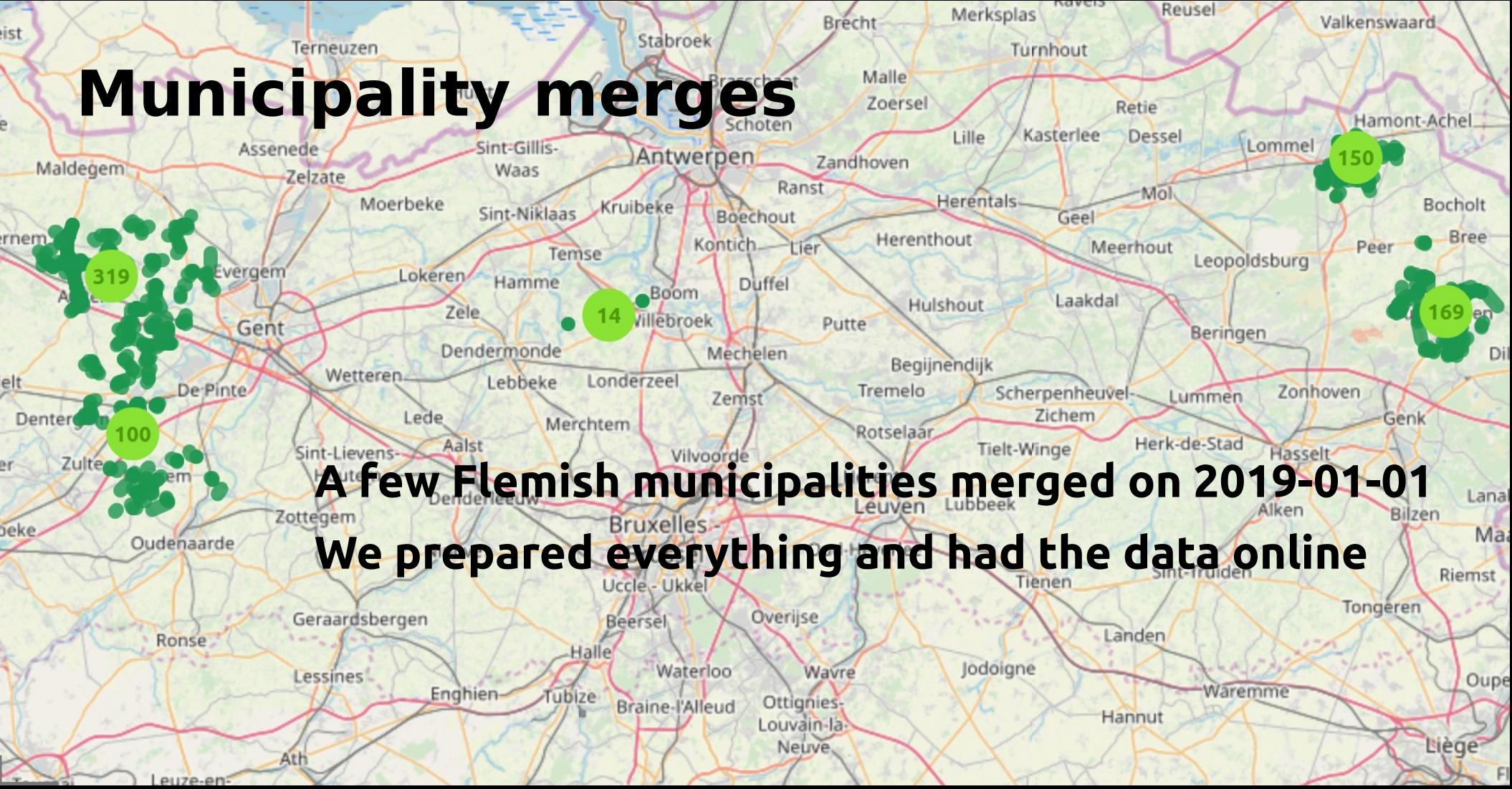


Road completion

Are all the roads listed by the government on our map?

Yes

Municipality merges



The Belgian community does stuff

- Find us on [meetup.com](#)
- Talk to us on [riot.im](#) (OSMBE - community)
- Donate so we can buy 360° camera's, stickers, vests, servers, ...
- Help our projects (map historical data, public bookcases, ...)

Osm.be





What is OpenStreetMap?



© Westtoer, 2016
Basemap: NGI



Working together

Working together

**on the most accurate,
most up-to-date,
and most open world map**

Working together

**on the
most accurate,
most detailed
most up-to-date and
most open global map**

and I'm crazy about it