

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



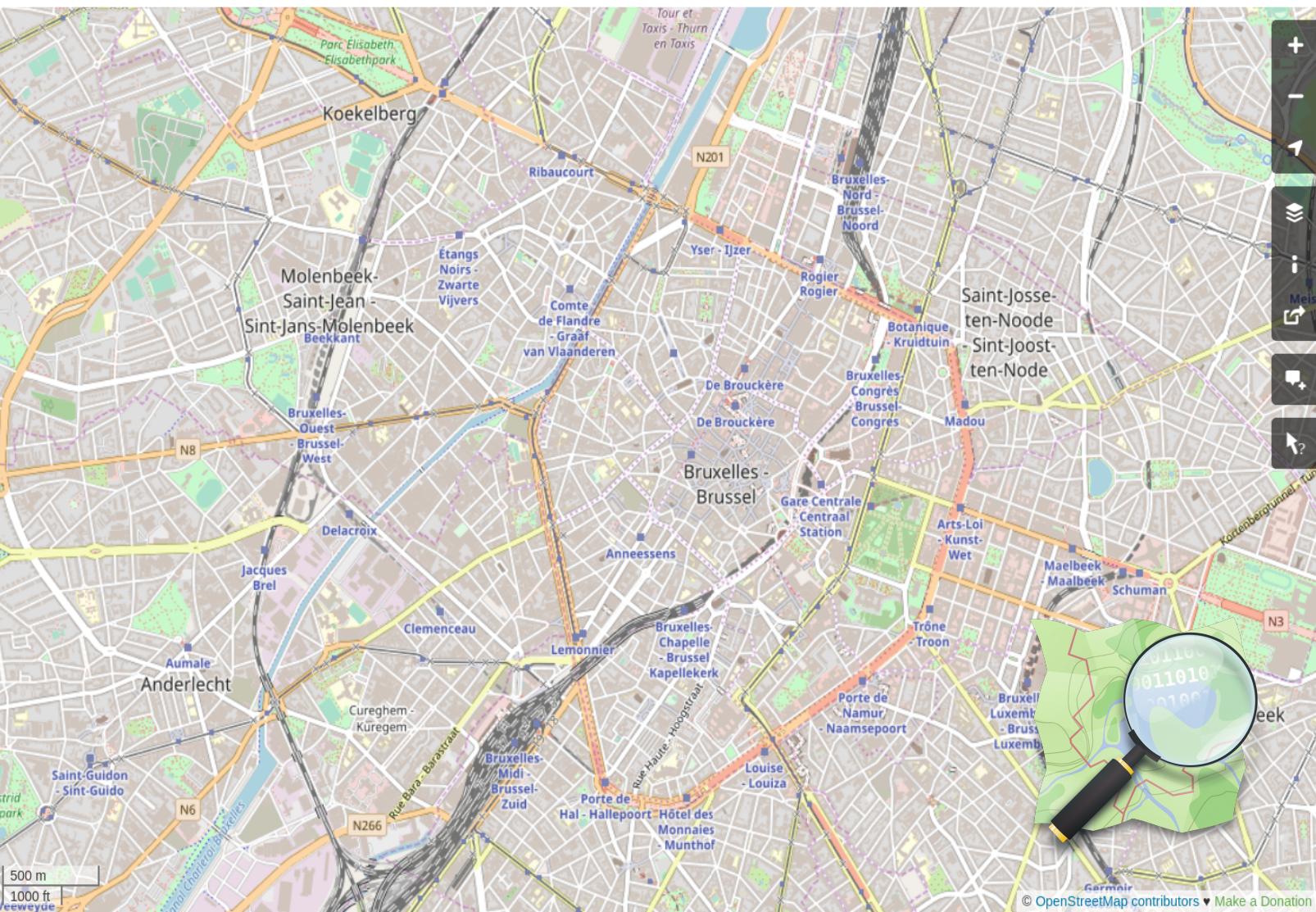
Results from OpenStreetMap Nominatim

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-Centru

Car (OSRM)

Go

[Reverse Directions](#)

Directions

Distance: 3.1km. Time: 0:08.

↑ 1. Start on **Elf-Julistraat**

180m

↗ 2. Turn right onto **Koningin Elisabethlaan**
(R30)

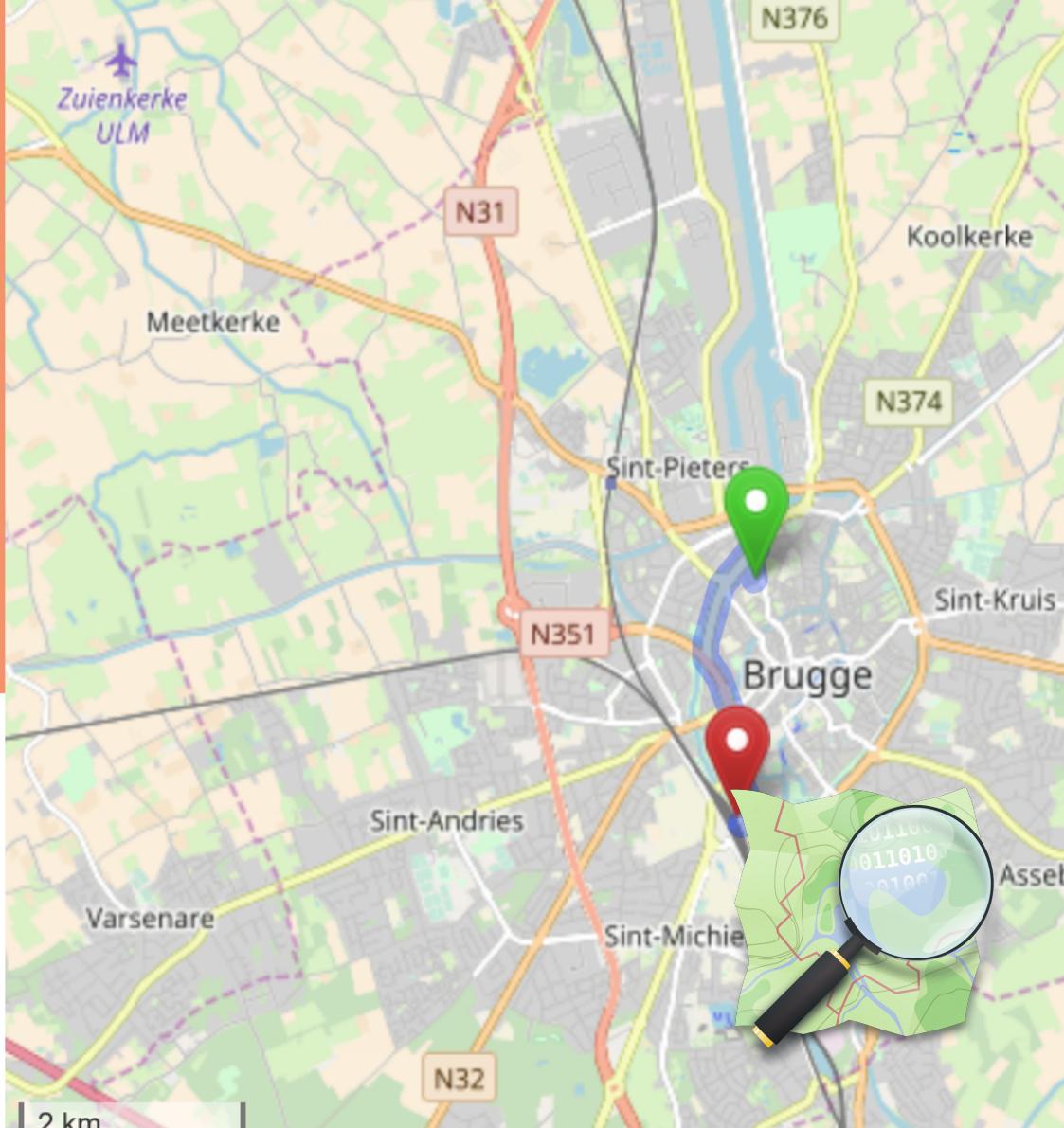
130m

↙ 3. U-turn along **Koningin Elisabethlaan**

400m

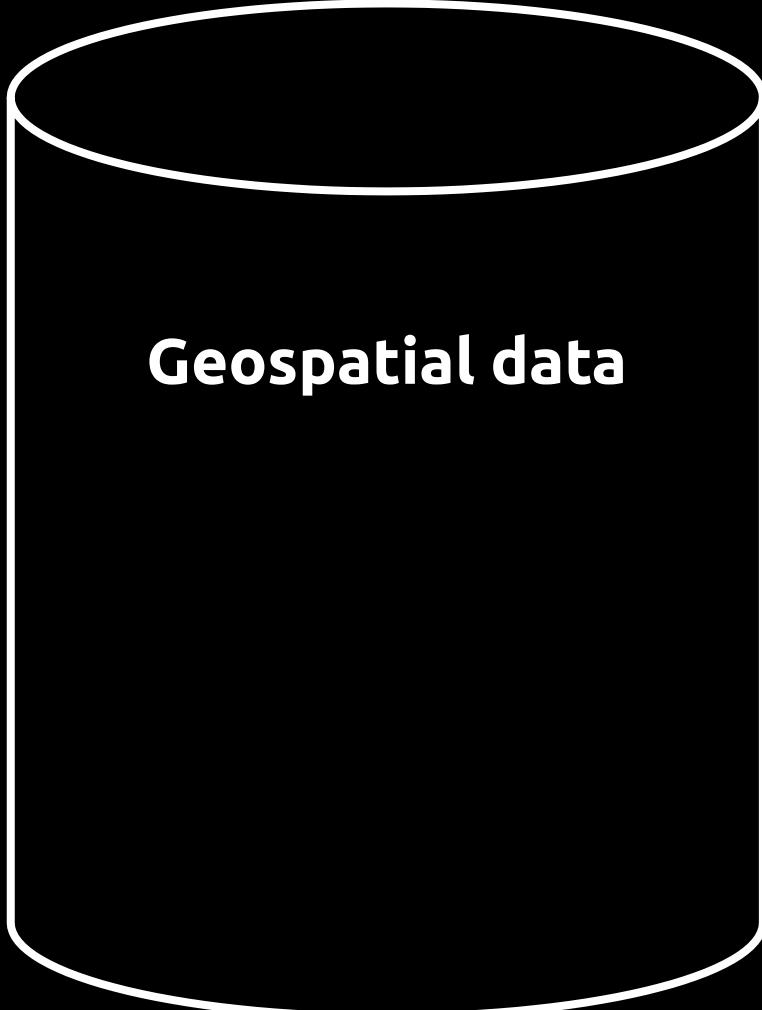
↑ 4. Continue on **Gulden-Vlieslaan (R30)**

700m

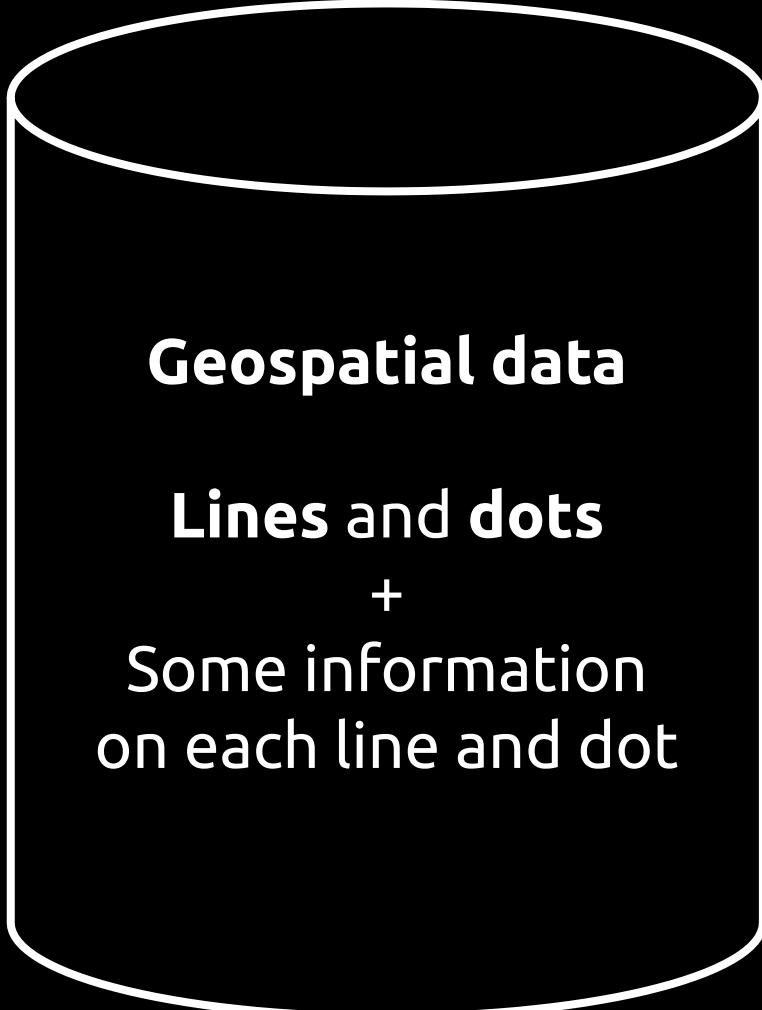




What is OpenStreetMap?



Geospatial data



Geospatial data

Lines and dots

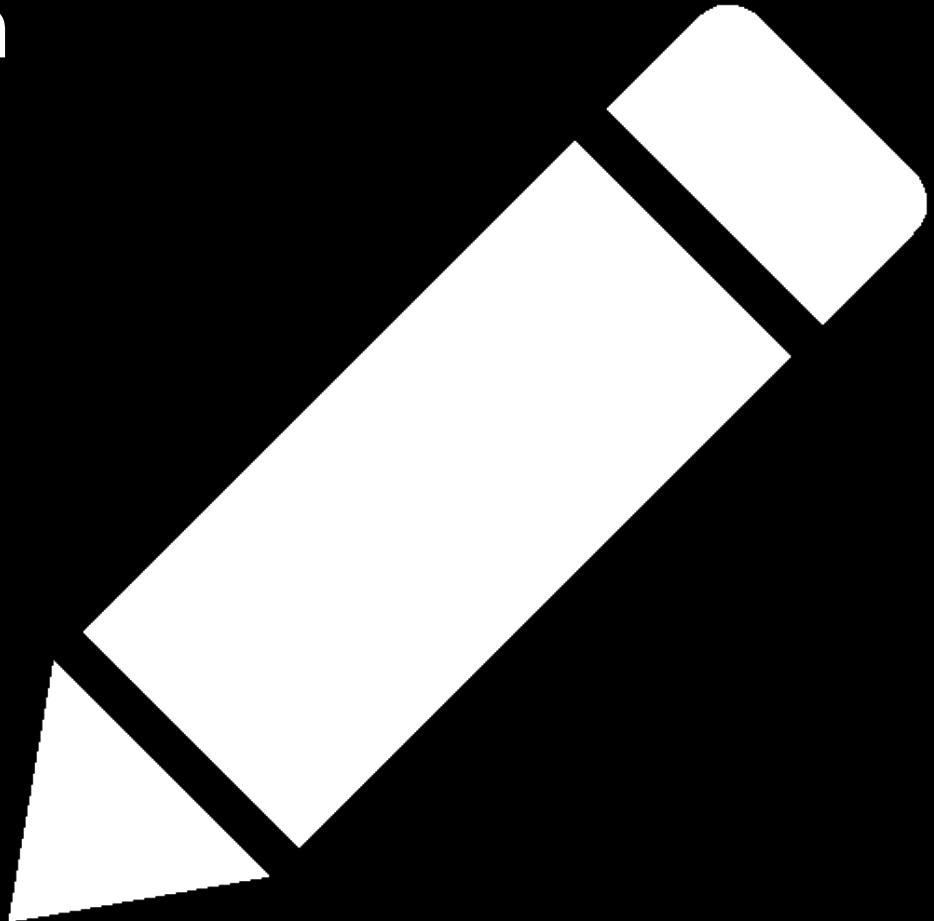
+

Some information
on each line and dot



What is OpenStreetMap?

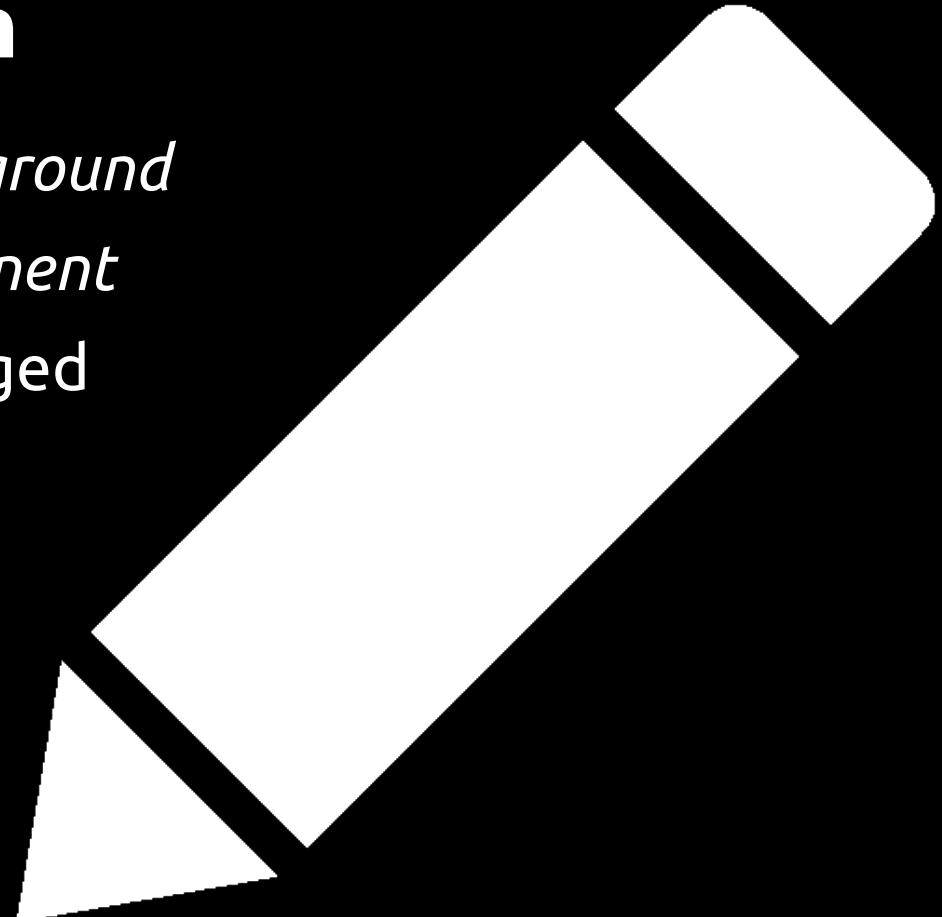
Freedom to add data



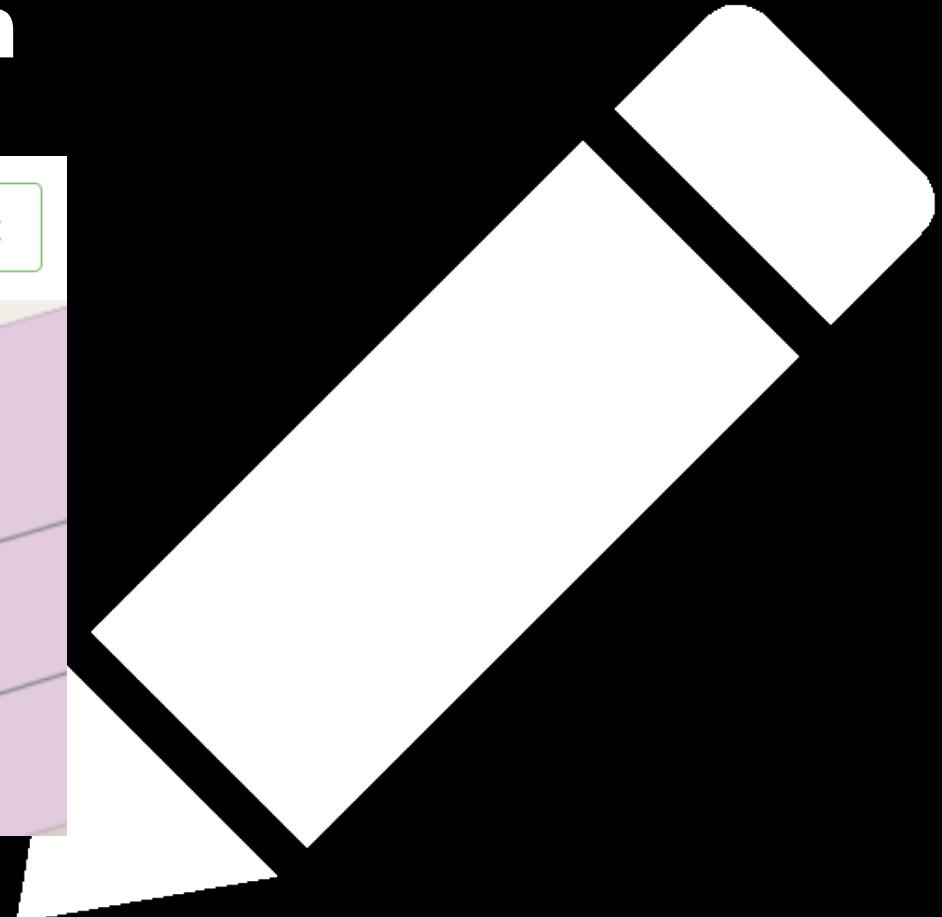
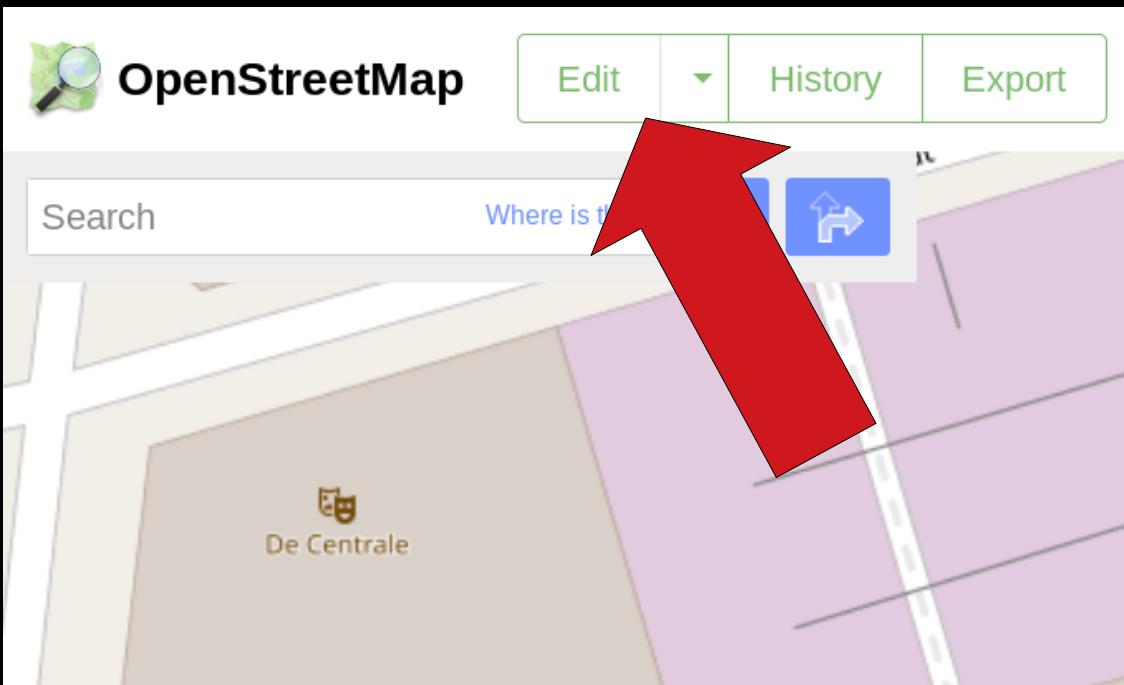
Freedom to add data

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

Go add your specific needs!



Freedom to add data





What is OpenStreetMap?

Crowdsourced

BeCentral

Go



Search Results



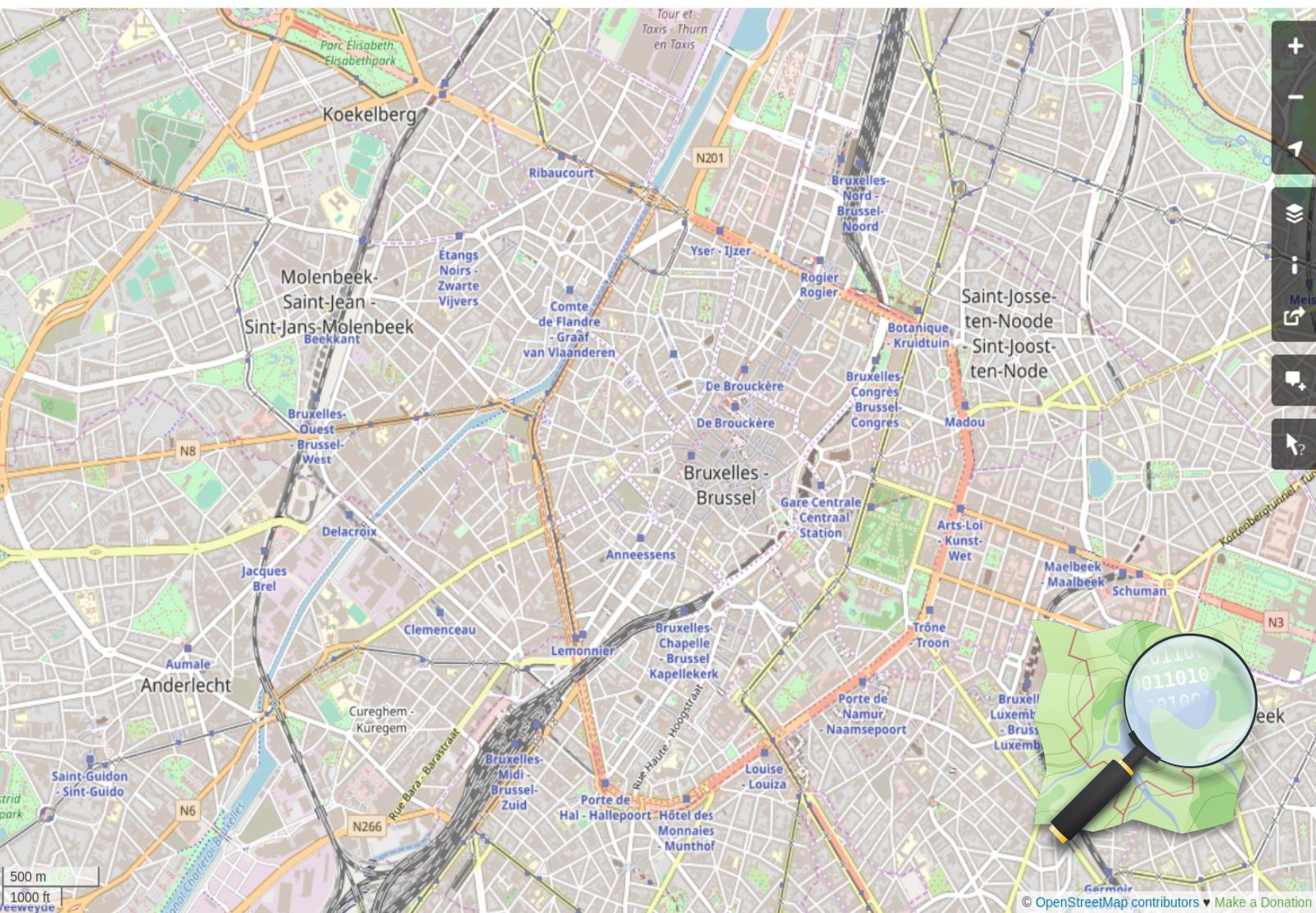
Results from OpenStreetMap Nominatim

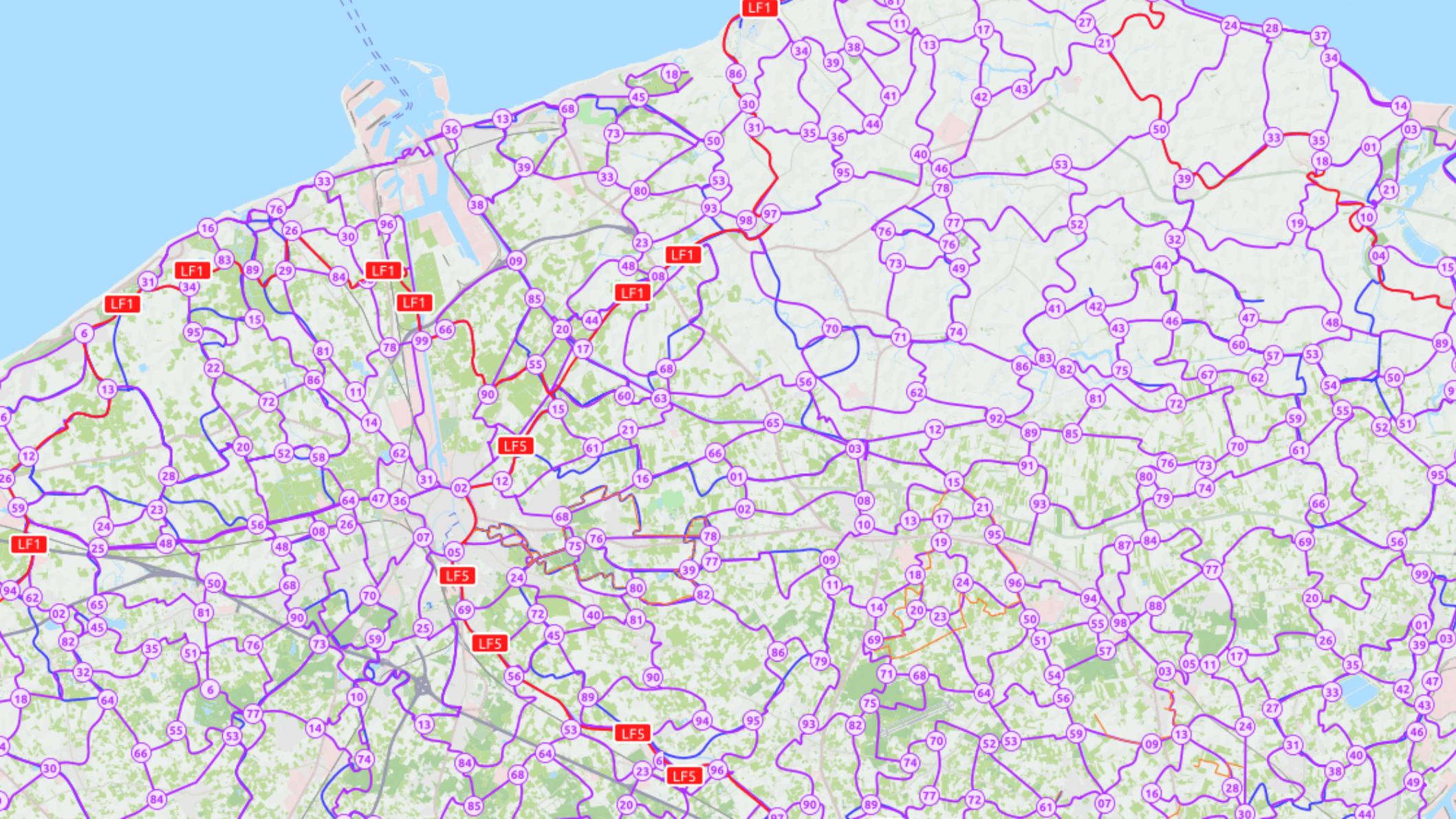
Coworking space BeCentral, 10, Cantersteen - Kantersteen, Quartier du Centre - Centrumwijk, Brussels, Ville de Bruxelles - Stad Brussel, Brussels-Capital, 1000, Belgium

[More results](#)

Results from GeoNames

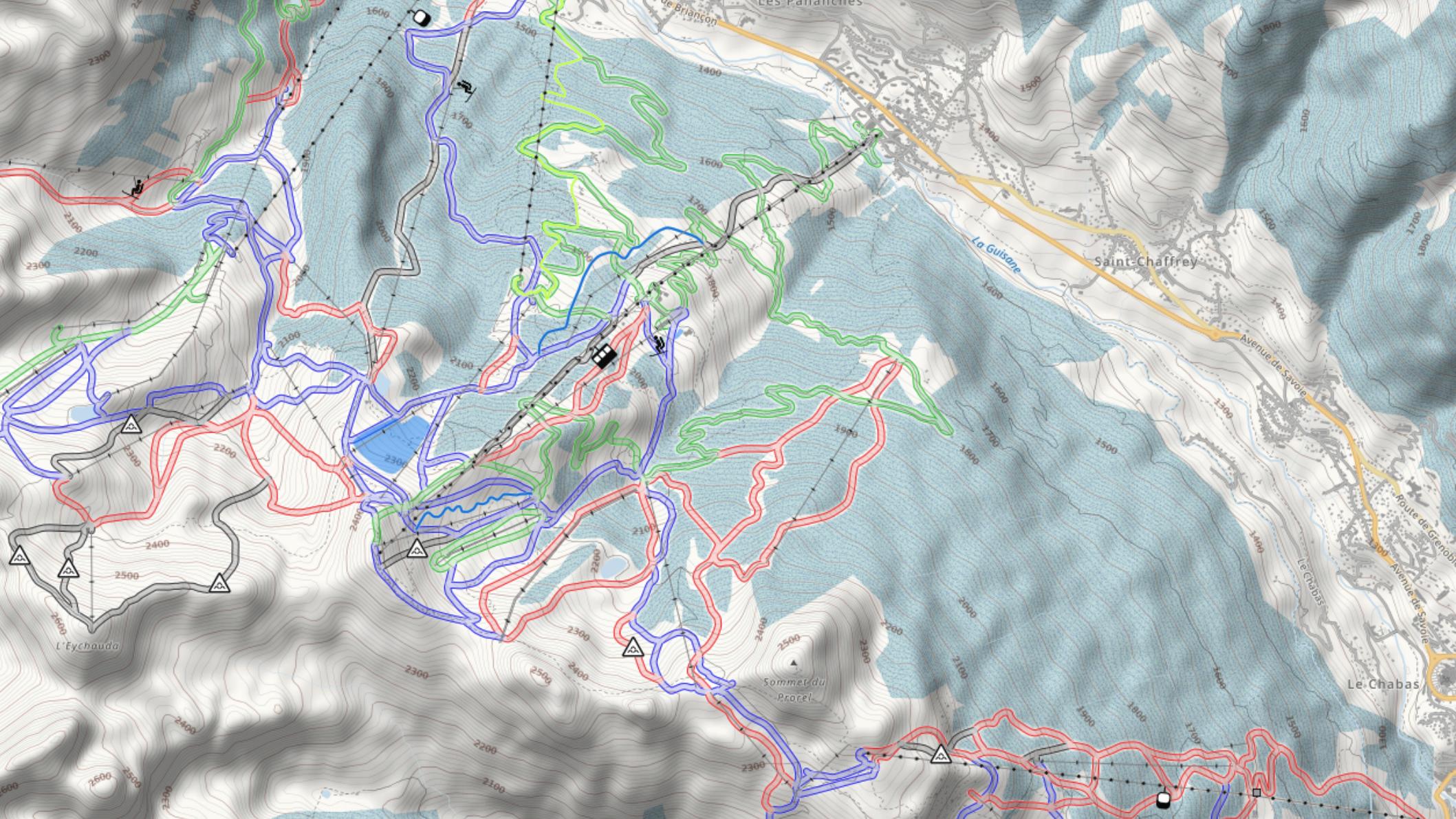
No results found











Search:

Brugge

Isola Bella

Ende.

49

500 ft

Kapelstraat

verstraat

卷之三

10

15

1

Snaggas

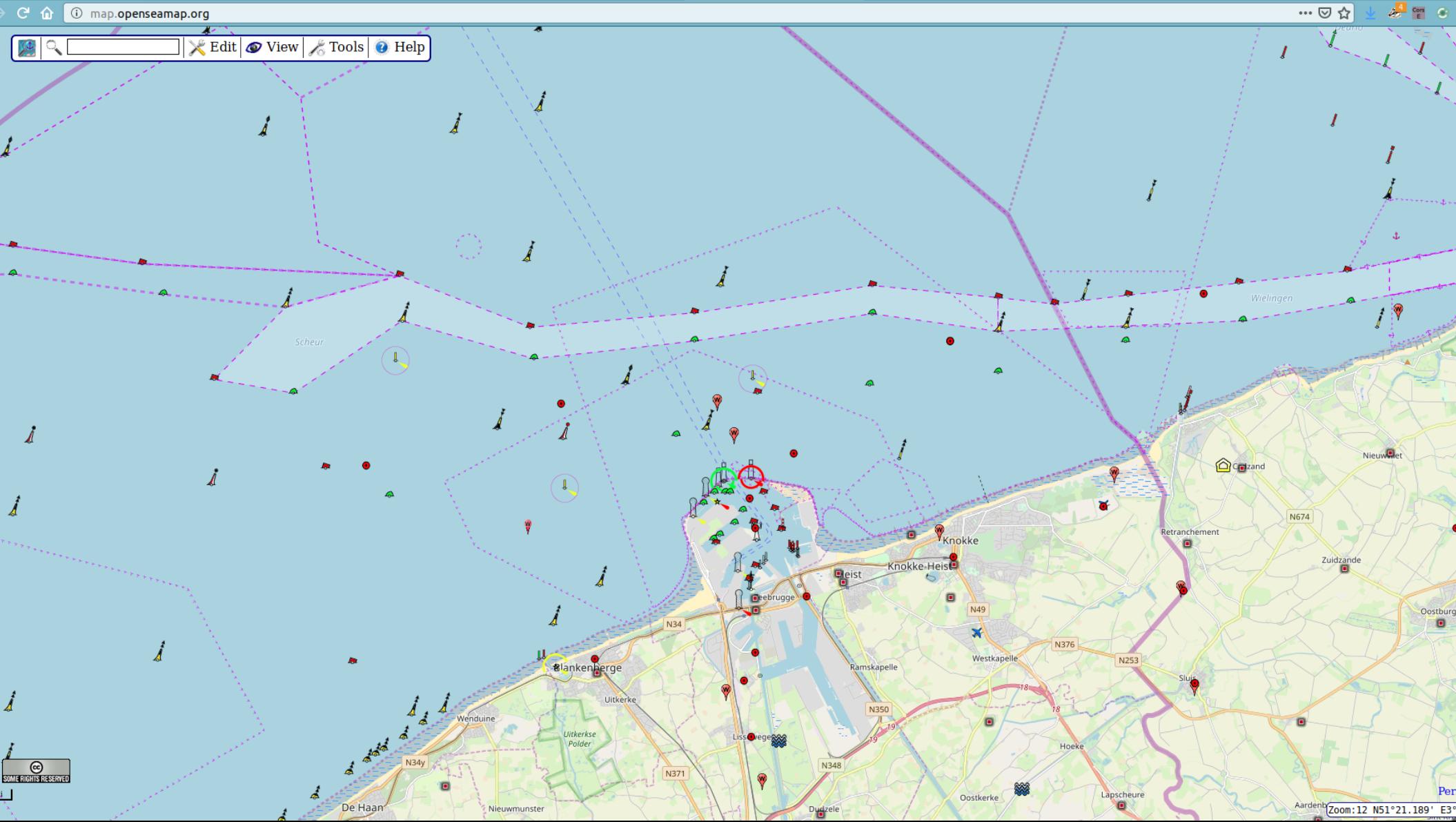
Z16 3.24410

5

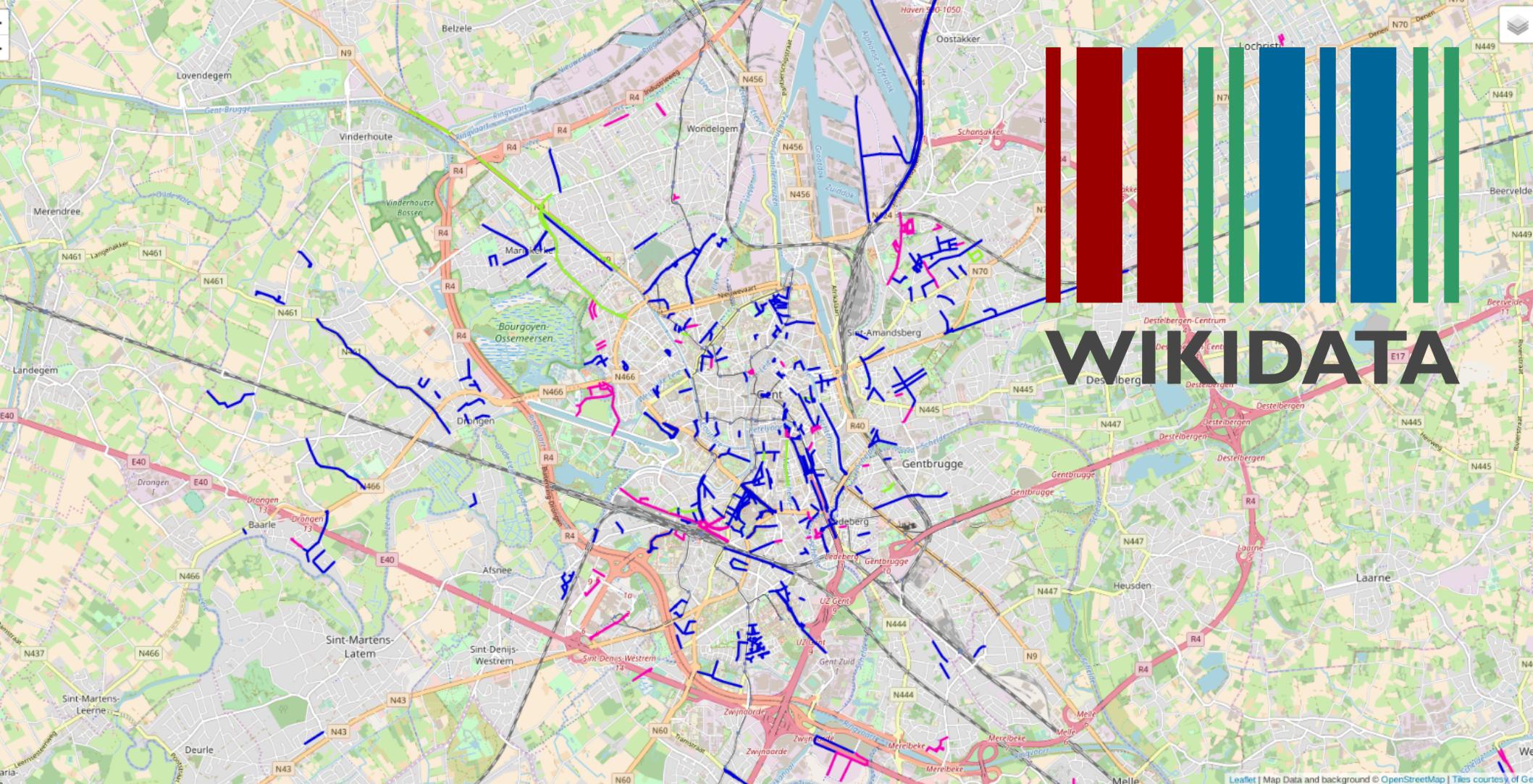
1

15

Book



WIKIDATA







MEDECINS SANS FRONTIERES
DOCTORS WITHOUT BORDERS





Instructions

Entities to map

Buildings and Roads

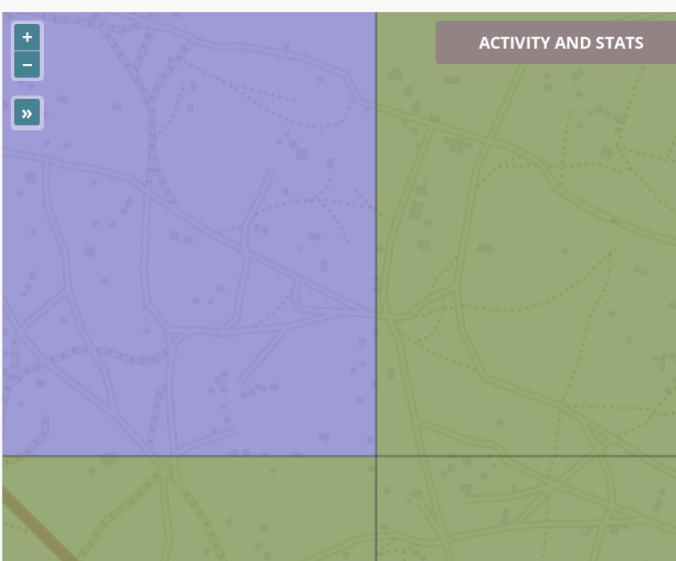
Changeset Comment

#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



Saving lives

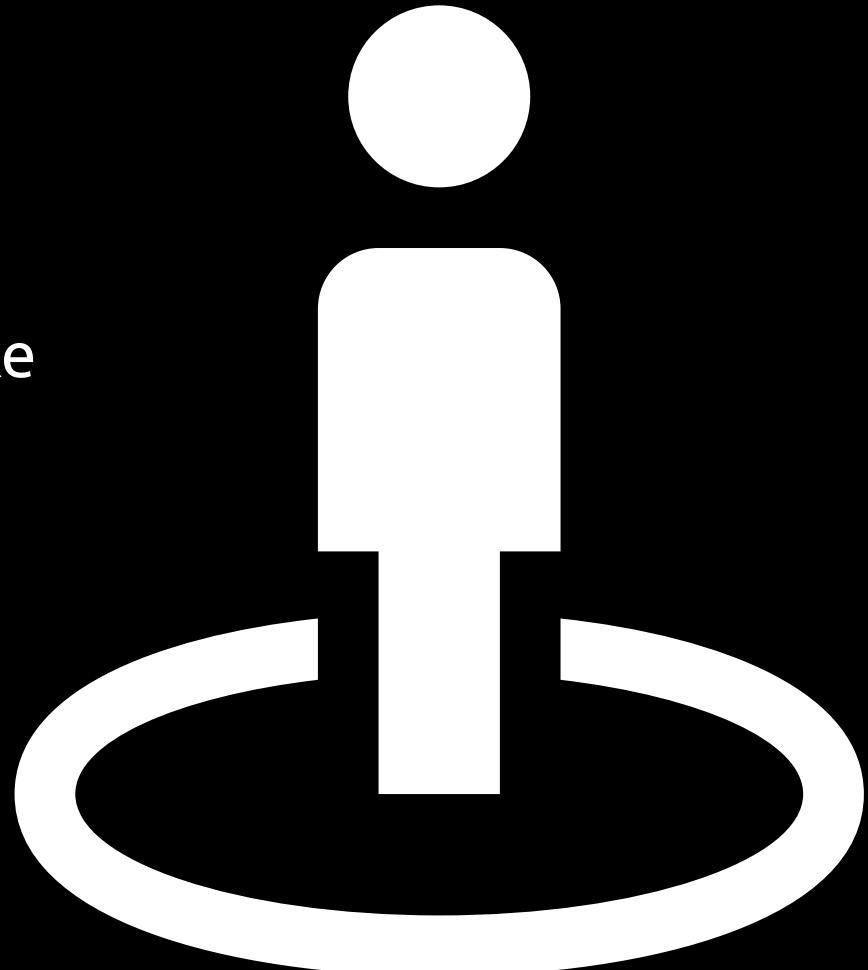


What is OpenStreetMap?

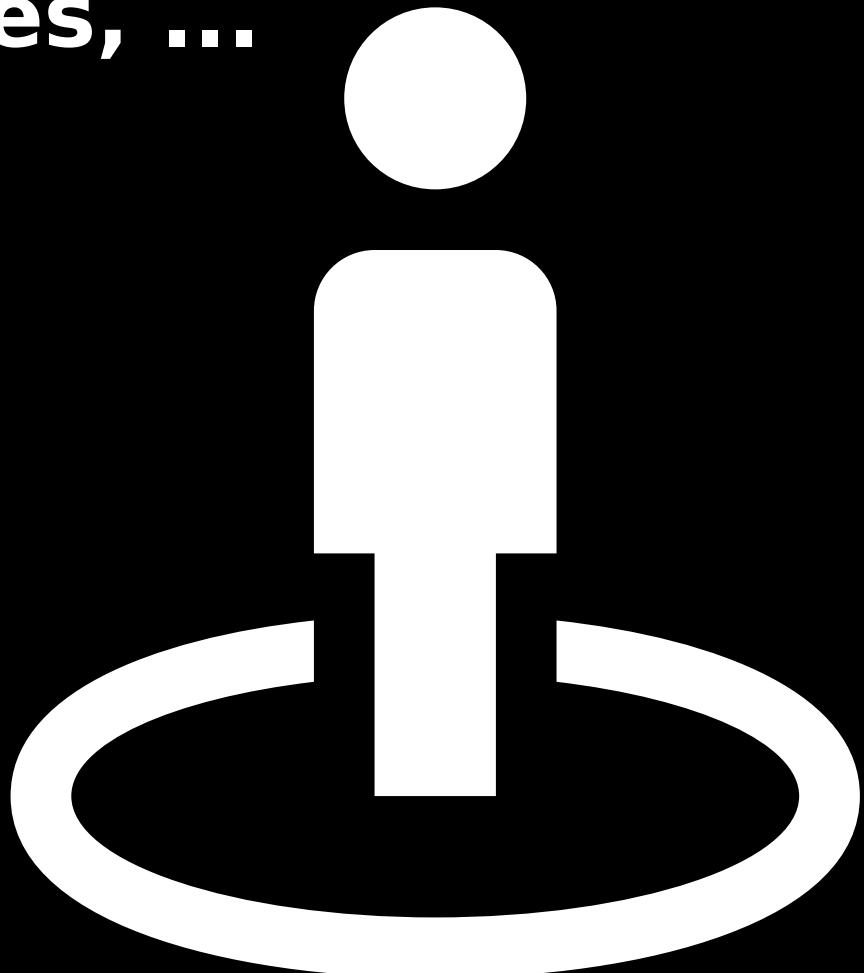
A license: ODbL

Open Database License

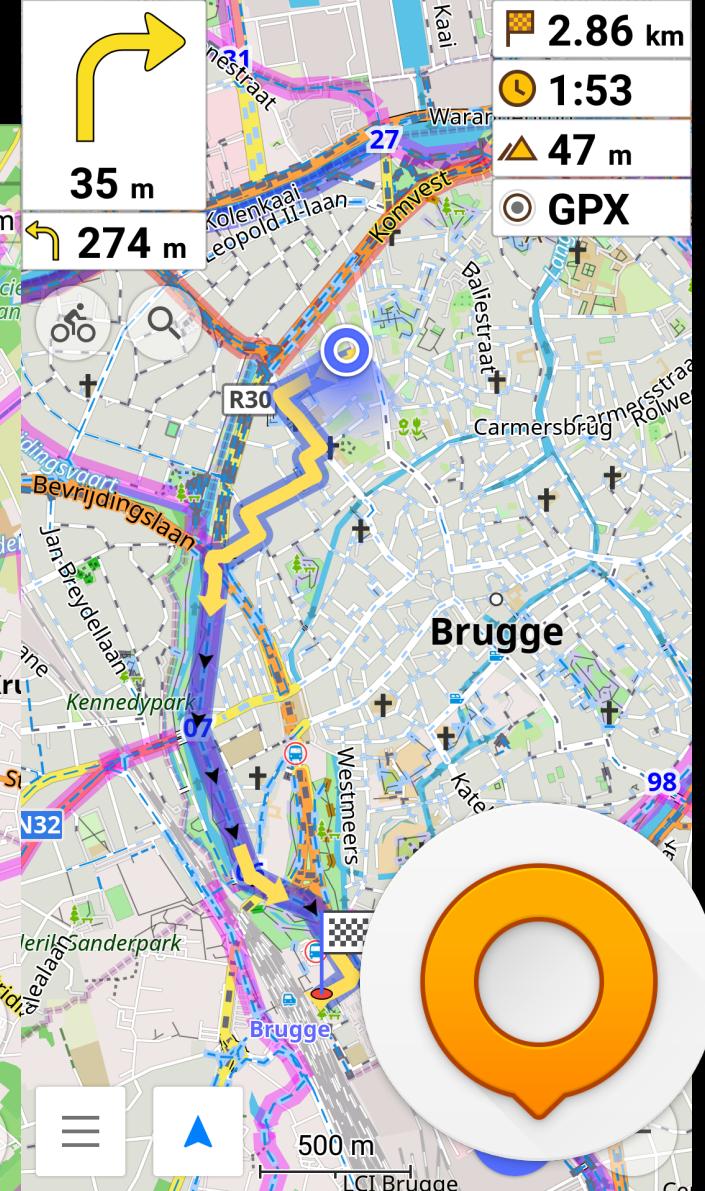
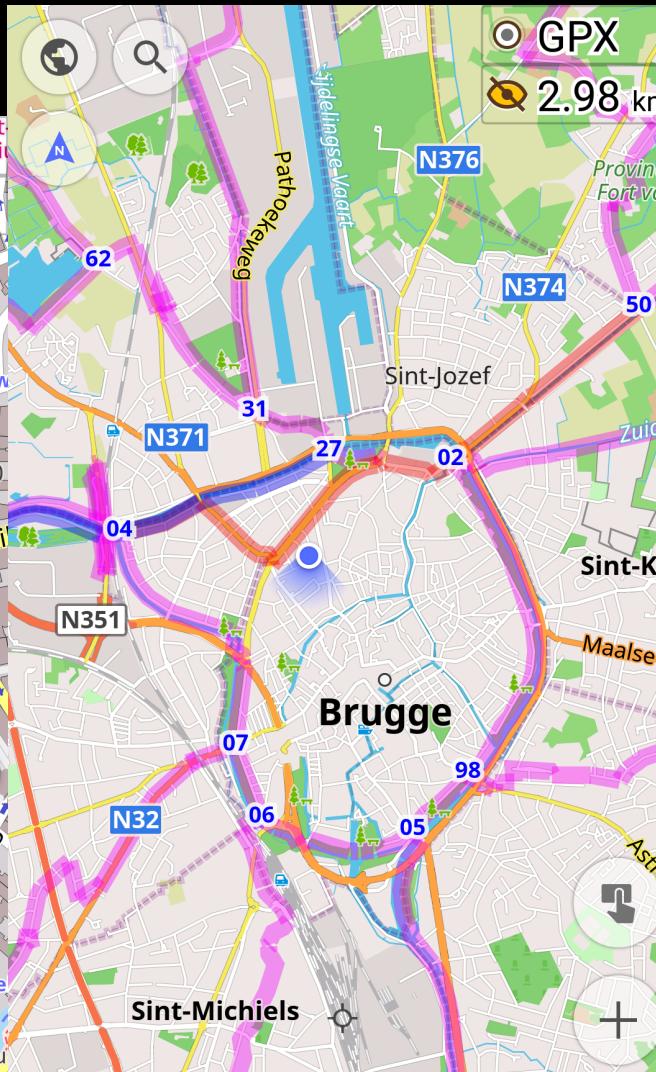
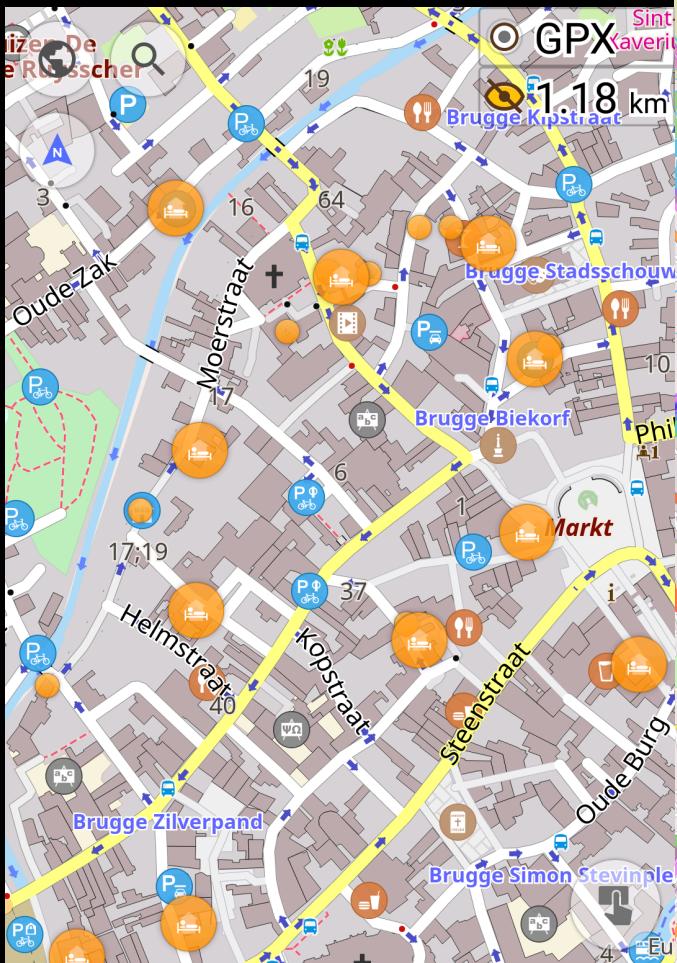
You can use the data how you like
as long as you give **attribution**
and keep the data open



Tons of apps, websites, ...



OsmAnd



2.86 km
1:53
47 m
GPX







Search a place...



3D



Discover our solutions

10m

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







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@vormingplusmzw

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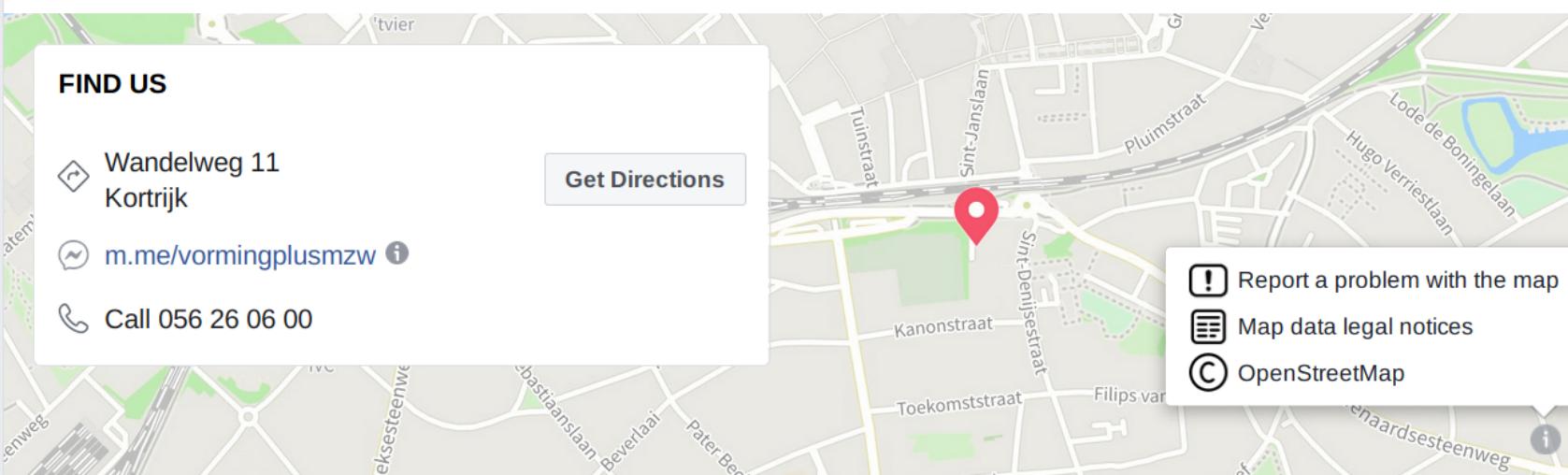
FIND US

Wandelweg 11
Kortrijk

Get Directions

m.me/vormingplusmzw i

Call 056 26 06 00



CULTUUR & MEDIA



OMBUDSMAN

Hoe kaartenmakers soms beslissen in de plaats van journalisten

Tim Pauwels
za 13 apr 2019 08:01



Enkele kijkers en lezers contacteerden me over de kaart van Israël die recent door VRT NWS werd gebruikt. "Zijn de Golanoogten nu ineens gewoon een deel van de staat Israël?"

Meest gelezen

CORONAVIRUS COVID-19

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>

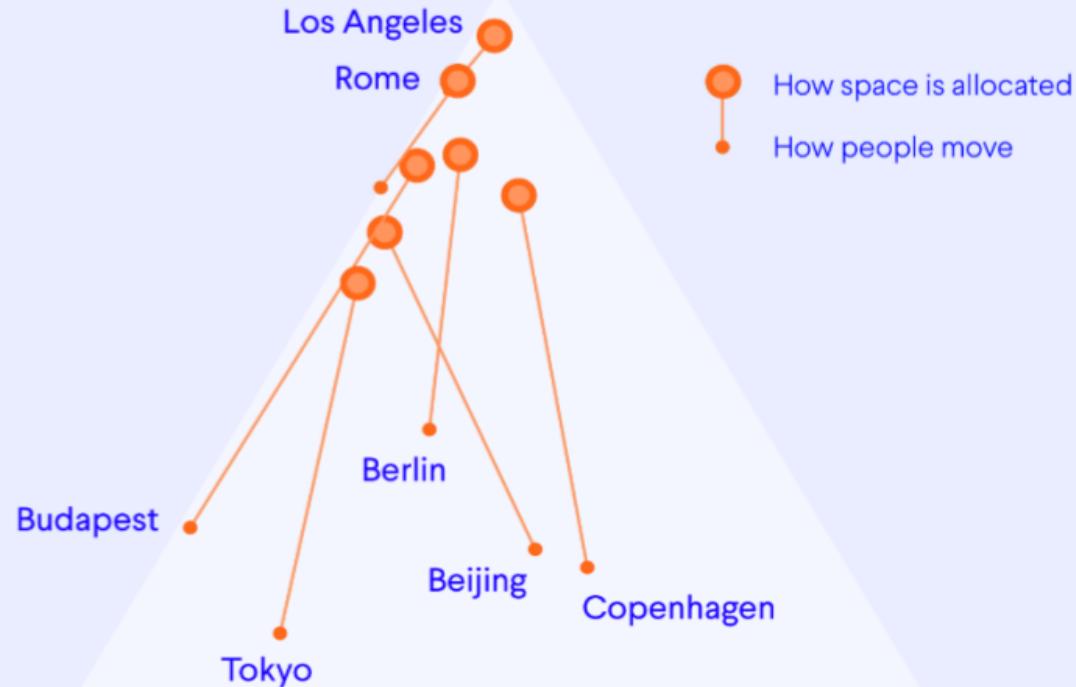
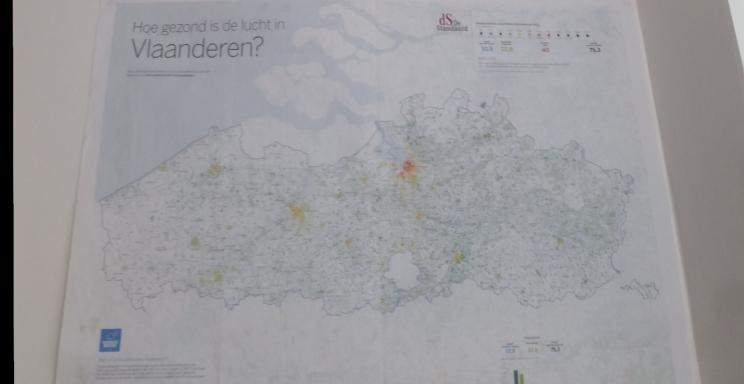


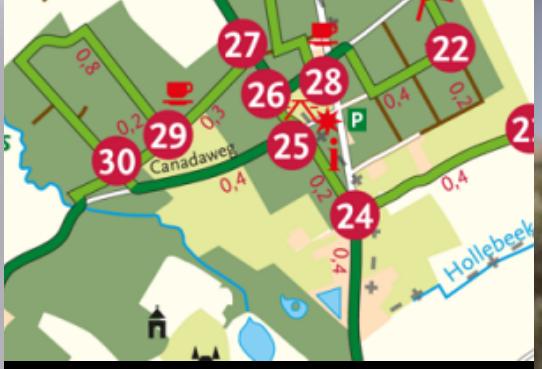
Figure 4. The mobility triangle expresses visually the discrepancy between mobility space distribution ("How space is allocated") and modal share ("How people move") as a connected pair of dots in a ternary plot, shown for seven selected cities.





Trage
wegeñ
vzw





Pretty damn cool



What is
OpenStreetMap
NOT?

When did you last use a map?

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

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
1 billion dollar/year**

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

Buying and creating satellite and map data
Google Streetview costs \$200 'till \$1150/km
Google bought Waze for 1.1 billion dollar



Price of maintaining a map

Similar amounts for other services

Google bought Waze for 1.1 billion dollar

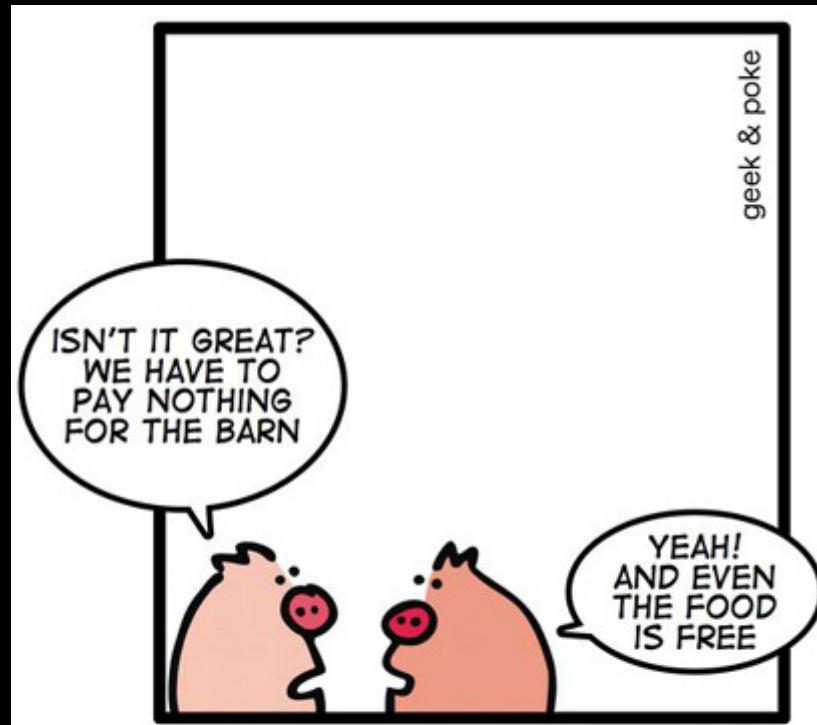
Nokia bought Navteq for 8 billion dollar
and 'burns' 1 billion a year

Apple maps burns around 1 billion dollar/year



How much did you pay?

There is no such thing as free lunch

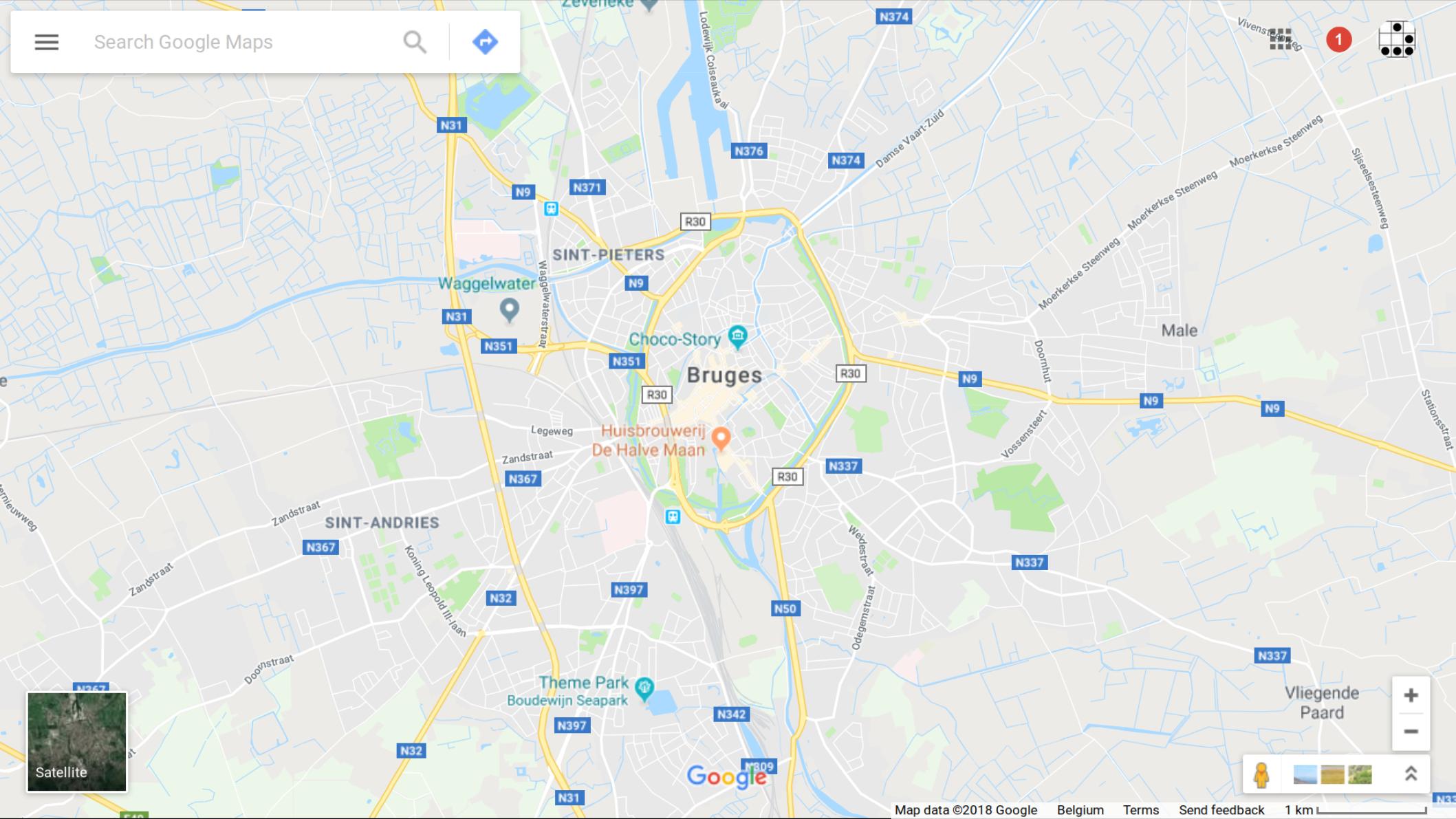




Search Google Maps



1



Satellite



Map data ©2018 Google

Belgium

Terms

Send feedback

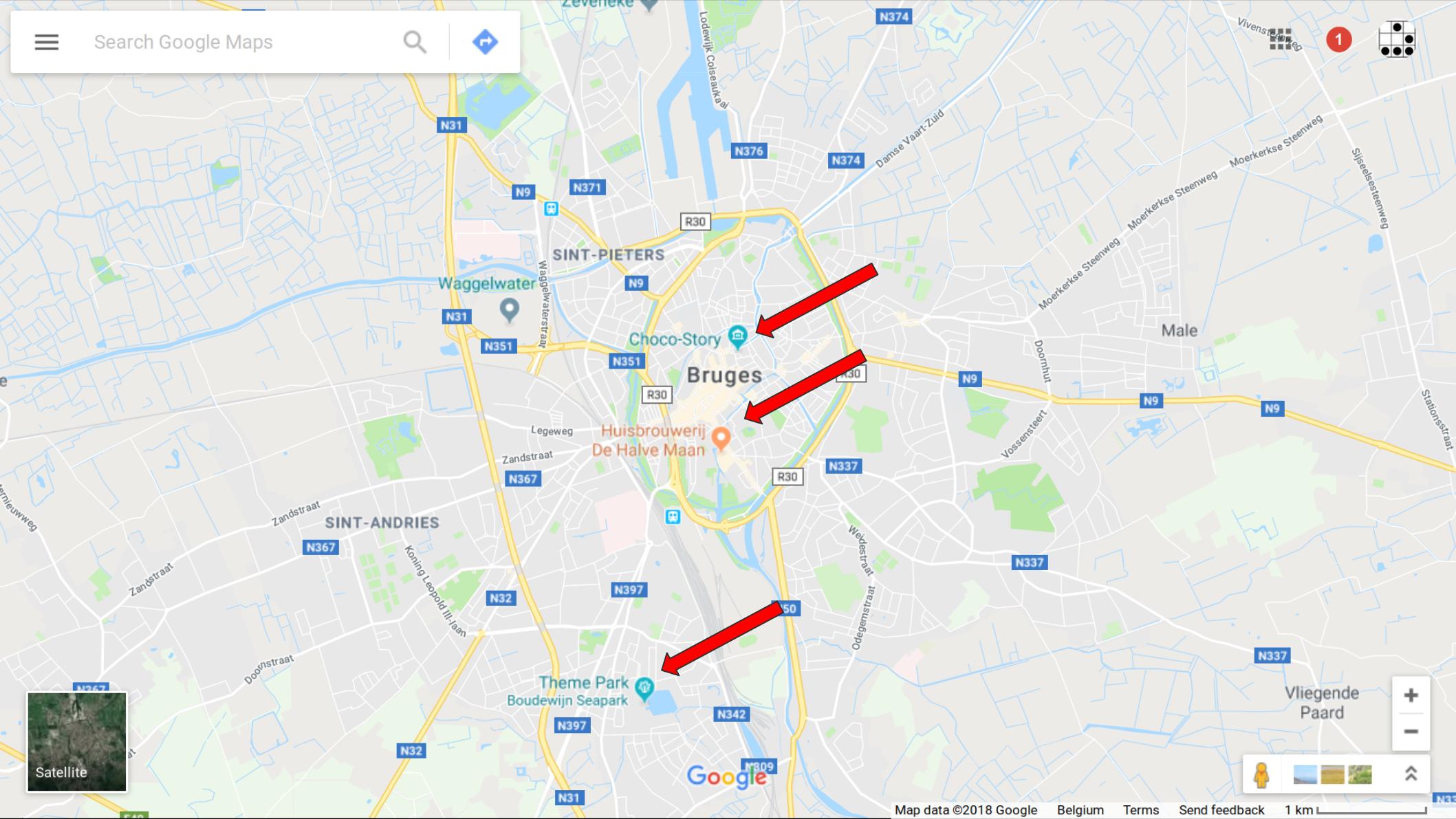
1 km



Search Google Maps



1



Satellite



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!



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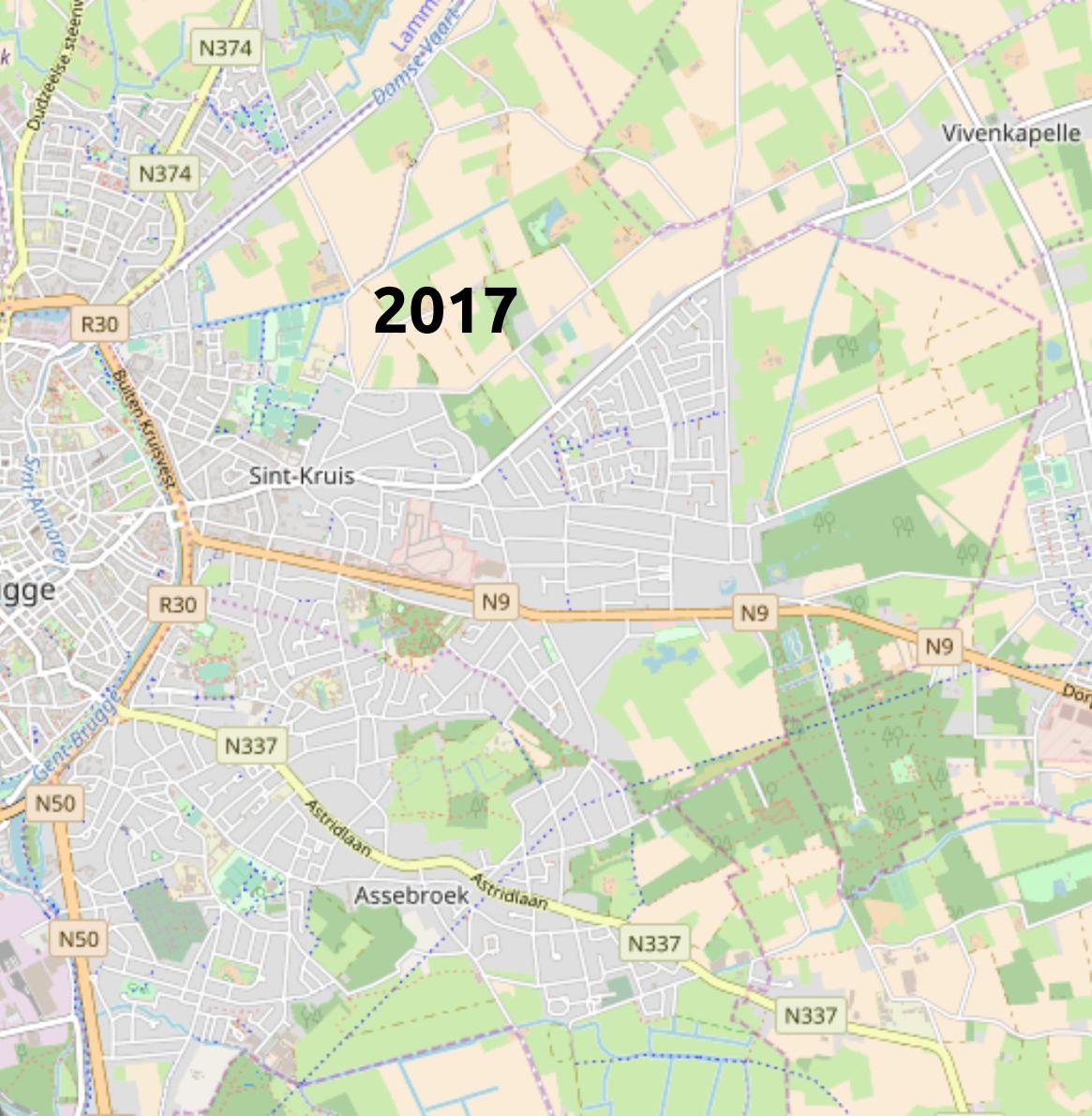


OSM is catching up!

2007



2017



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

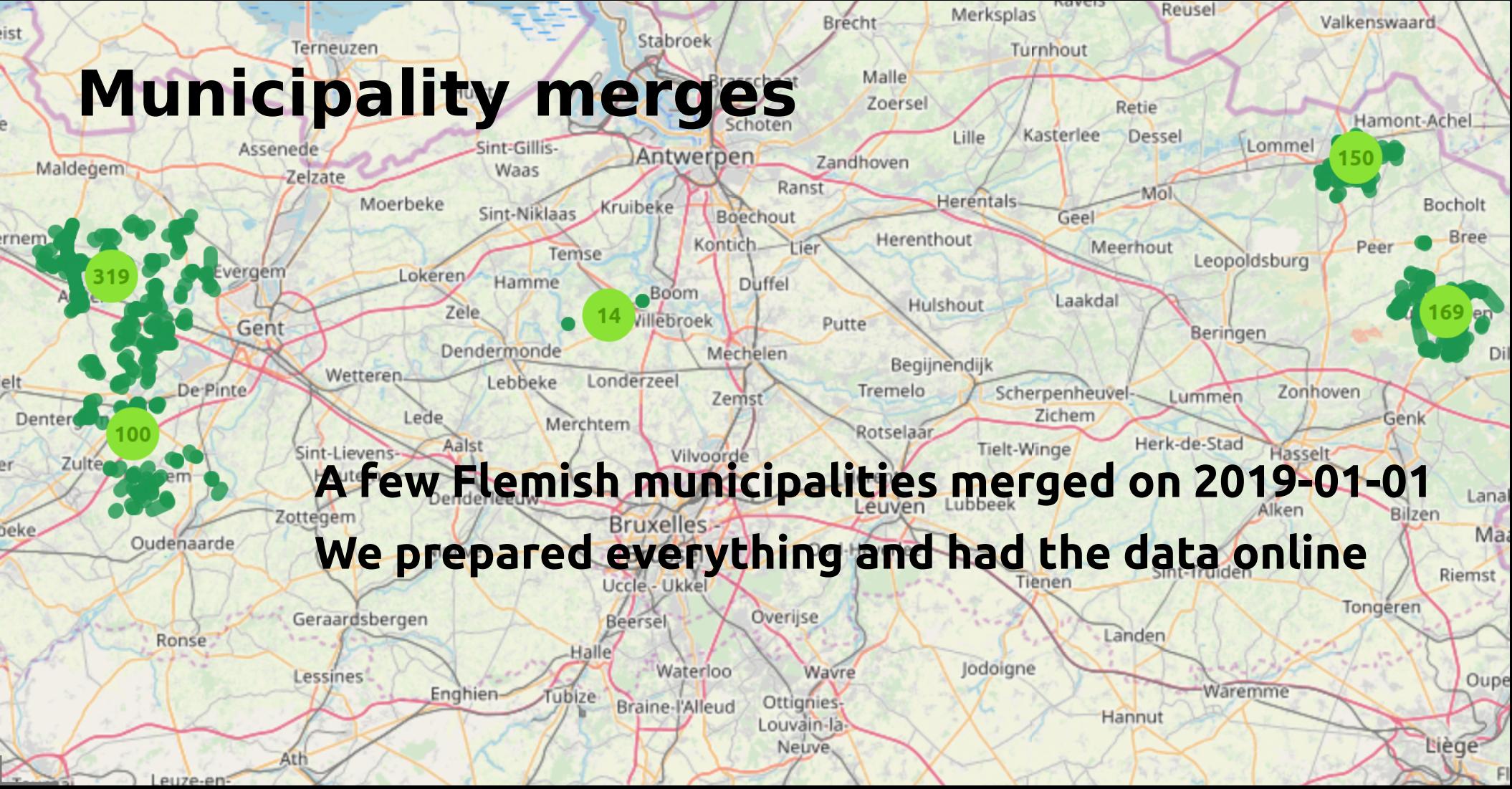


Road completion

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?

Benamingen gebieden

Edited about 1 month ago by AndriesP

Version #1 · Changeset #79296051

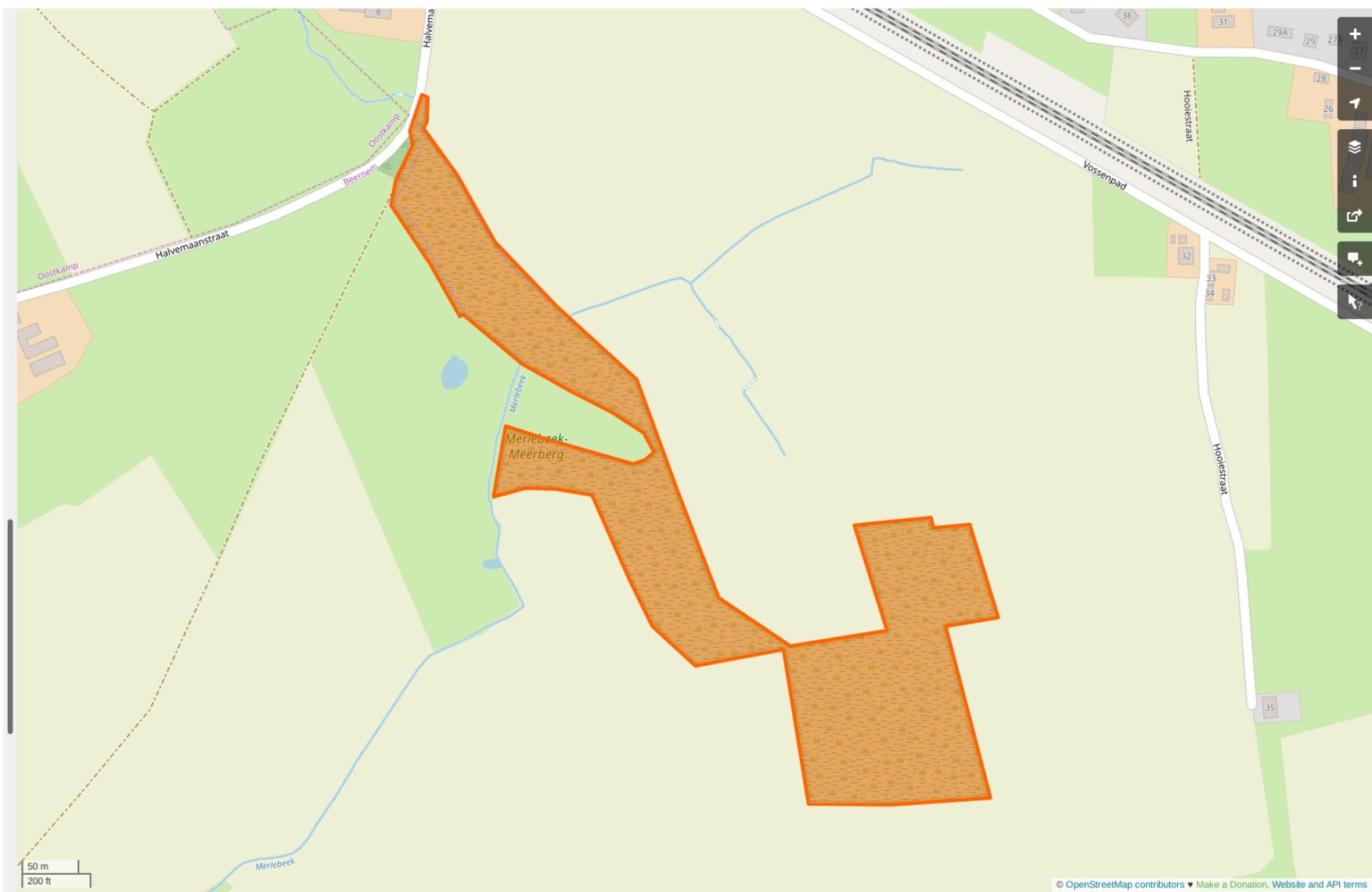
Tags

leisure	nature_reserve
name	Merlebeek-Meerberg

Nodes

- 7114502201 (part of way 311420181)
- 7114502203 (part of way 311420181)
- 7114502200 (part of way 311420181)
- 7114502202 (part of way 311420181)
- 3170562439 (part of way 311420181)
- 3170562437 (part of way 311420181)
- 3170562431 (part of way 311420181)
- 7114502240 (part of way 311420181)
- 7114502211 (part of way 311420181)
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- 7114502217 (part of way 311420181)
- 7114502224 (part of way 311420181)
- 3170562392 (part of ways 311420208)

and 311420181)



Working together

Working together

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

Working together

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

and I'm crazy about it