# Közösségi adatgyűjtés és térképezés **mobiltelefonnal**

Mapillary

Mapillary

# Mapping the world together

Fall 2015

mapillary.com

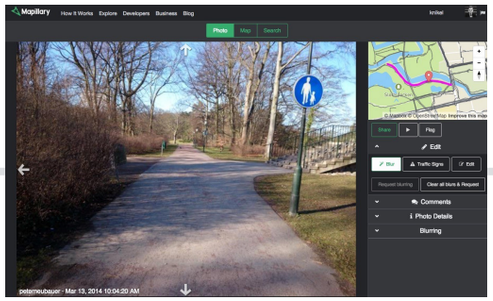
@kokoye2007 - Myanmar

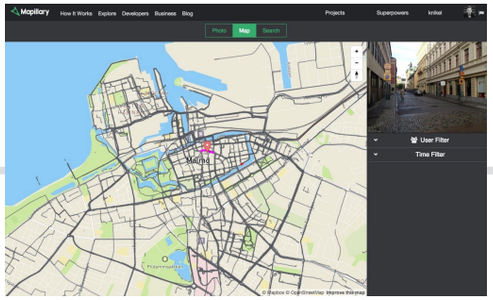
Mapillary is a service for crowdsourcing street level photos

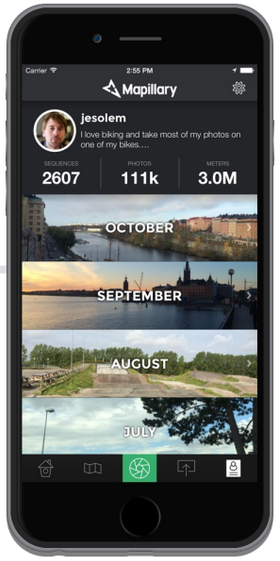
# 40M photos, 1M km

# Global community - Global coverage

# How it Works




## Capture

Use the free Mapillary app or an action camera to take photos of your neighborhood, your everyday hiking tour or your life adventure. Anyone can do it.

## Share

Upload the photos to Mapillary. They will be connected with others' and combined into a street level photo view.

## Explore

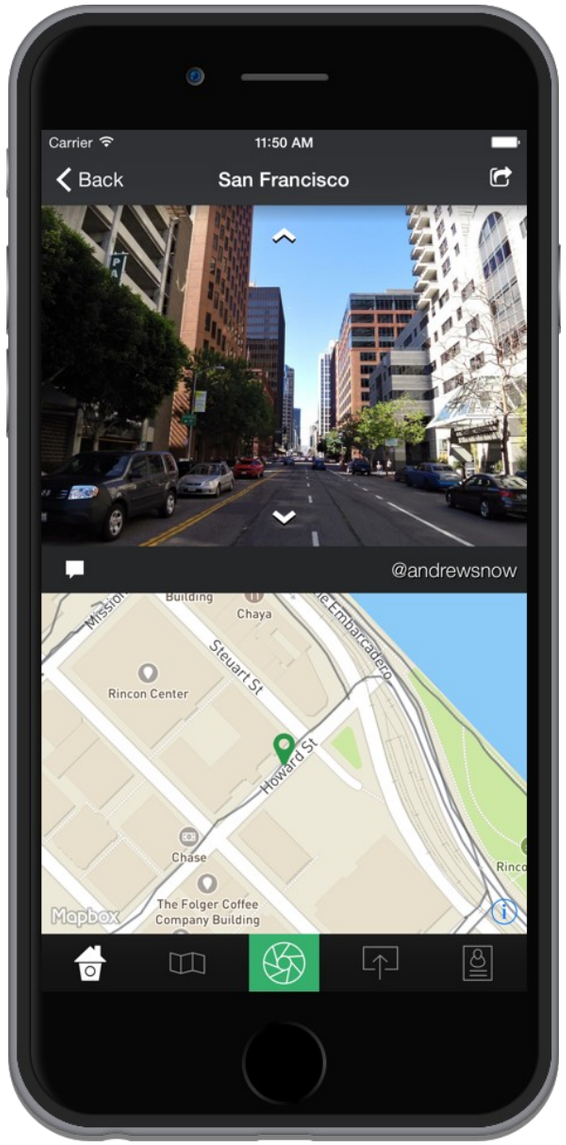
Use the map to find and look at places. We connect all photos for you to explore the world in a new way.

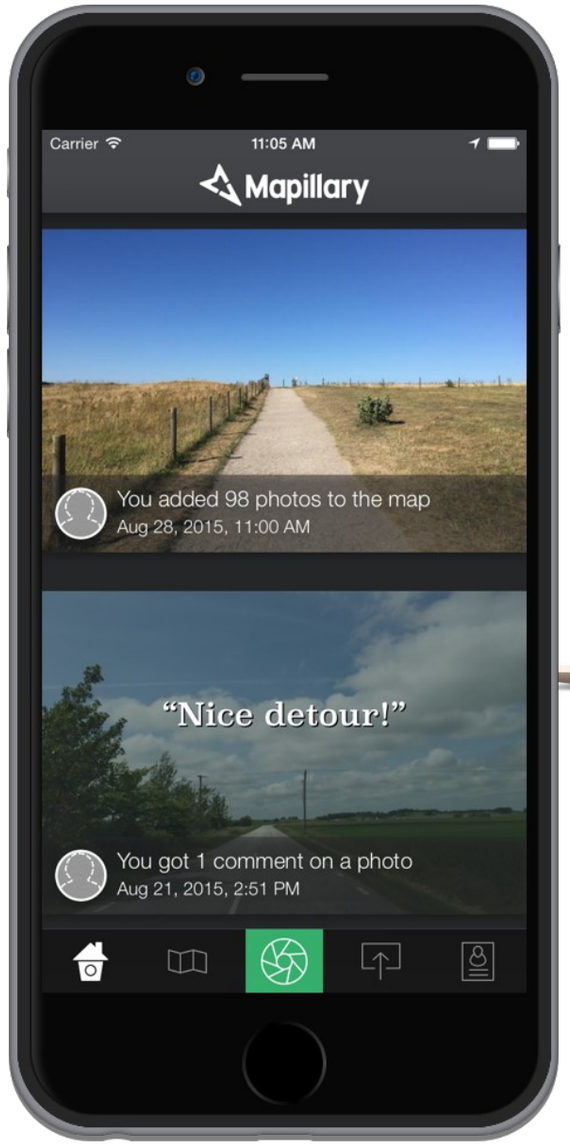
## Community

Photos are captured by people like you. Collectively we are visualizing the world with simple tools and little effort.

# Mobile & Web

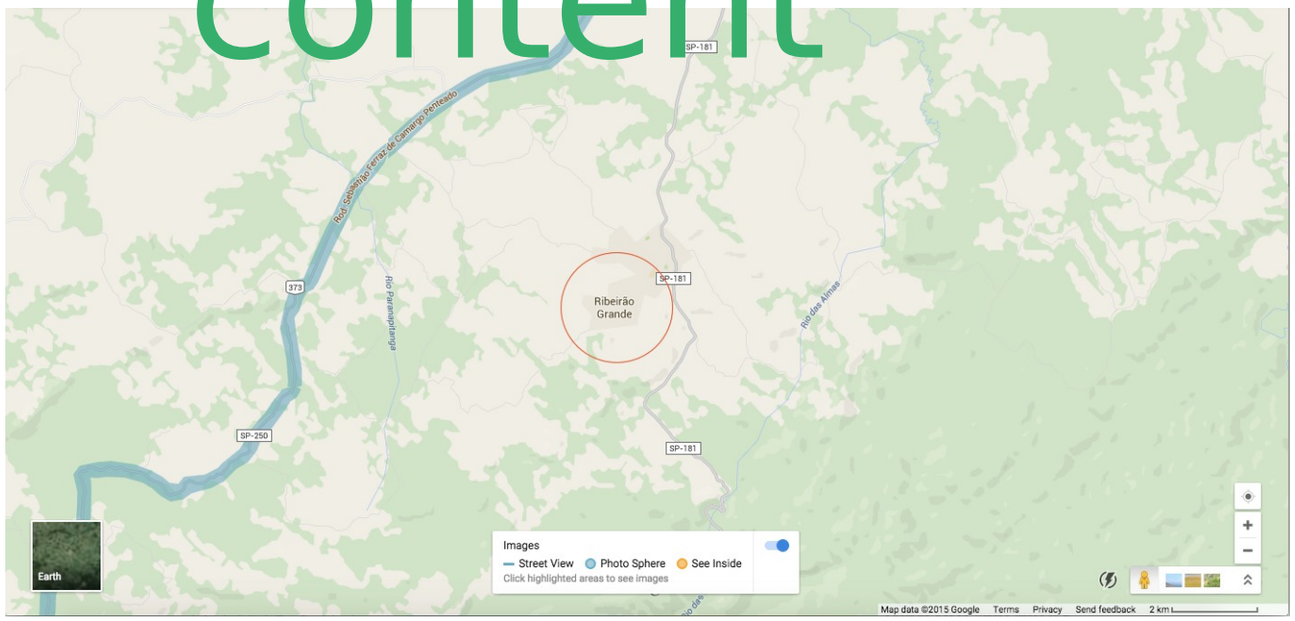
## App Store, Google Play, Windows Store, and Amazon Store

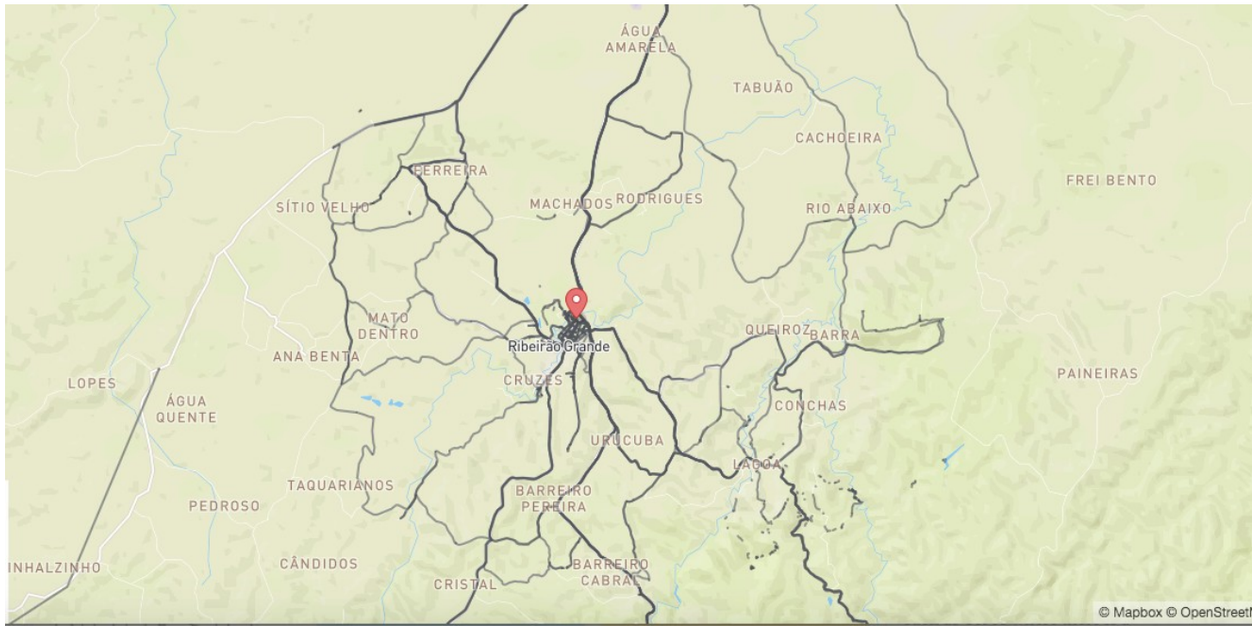


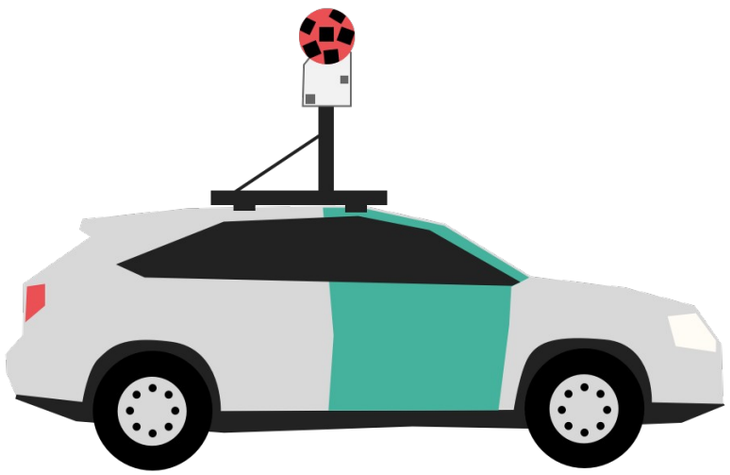



Crowdsourced street level photos Mapillary

# Better reach, fresher content



Crowdsourced street level photos

Mapillary

Mapillary

Photo Map Search

BETA

Södra Skeppsbron, Gävle
peterneubauer, Oct 1, 2014

Share Edit

Blur

Related Photos

Comments

Photo Details

The feature you're looking at is currently under development and might be rough around the edges. Feedback is always welcome.
Report Problem.

# Image Processing

Blur license plates

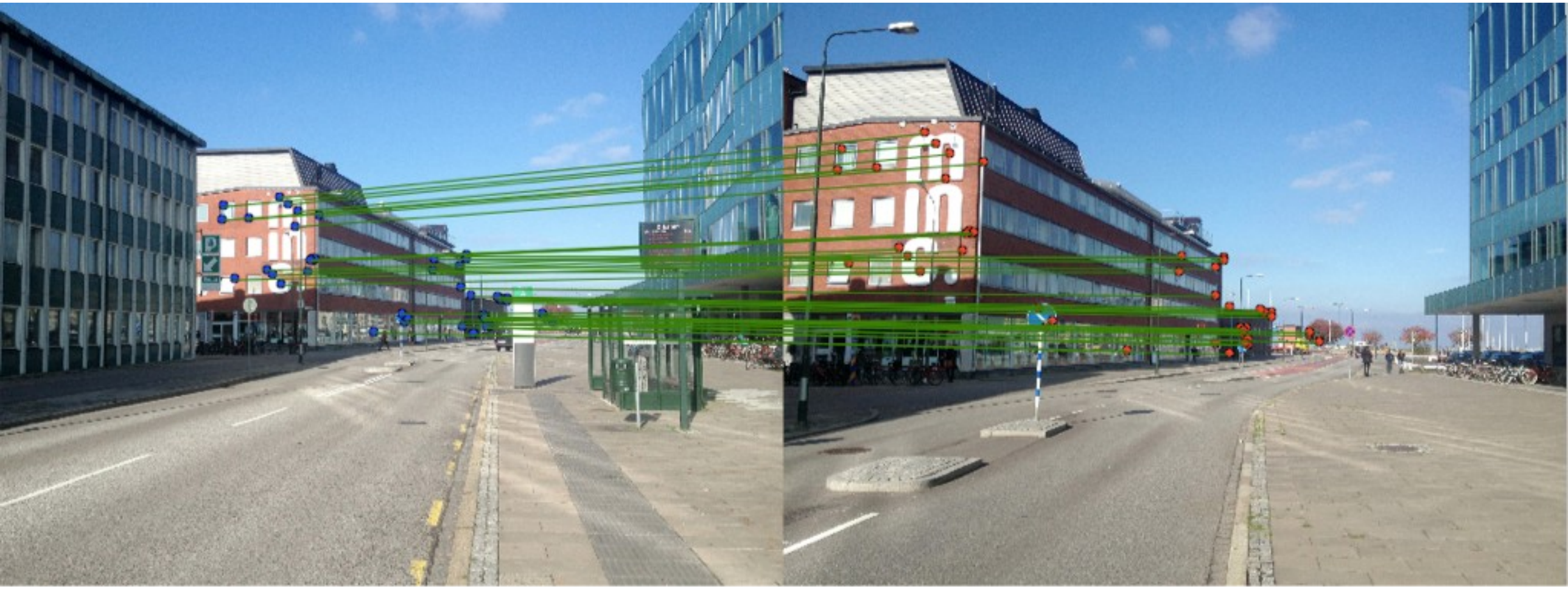
Blur faces

Detect traffic signs

Crowdsourced street level photos

Mapillary

# Image Matching



**OpenSFM**
https://github.com/mapillary/OpenSfM

Crowdsourced street level photos

Mapillary

mapillary/OpenSfM - Mozilla Firefox

mapillary/OpenSfM

GitHub, Inc. (US) https://github.com/mapill

Keresés

This repository Search

Pull requests Issues Gist

mapillary / OpenSfM

Watch 38 Star 136 Fork 25

Code Issues 9 Pull requests 2 Wiki Pulse Graphs

Open Source Structure from Motion pipeline

907 commits 8 branches 1 release 12 contributors

Branch: master New pull request New file Find file HTTPS https://github.com/mapillar Download ZIP

paulinus Update export_pmvs.md Latest commit f355b76 21 hours ago

| | | |
|---|---|---|
| bin | Update export_pmvs.md | 21 hours ago |
| data | Remove testing code | 21 days ago |
| opensfm | Add option to match only n consecutive images | 10 days ago |
| viewer | Dispose geometry and material | 29 days ago |
| .dockerignore | Add Dockerfile | 3 months ago |
| .gitignore | Rename tests for py.test | 22 days ago |
| .travis.yml | Add OpenCV 3 detection | 21 days ago |
| Dockerfile | Add dependencies | 17 days ago |
| LICENSE | Simplified BSD license. | a year ago |
| README.md | Merge remote-tracking branch 'origin/master' | 16 days ago |
| config.yaml | Add option to match only n consecutive images | 10 days ago |

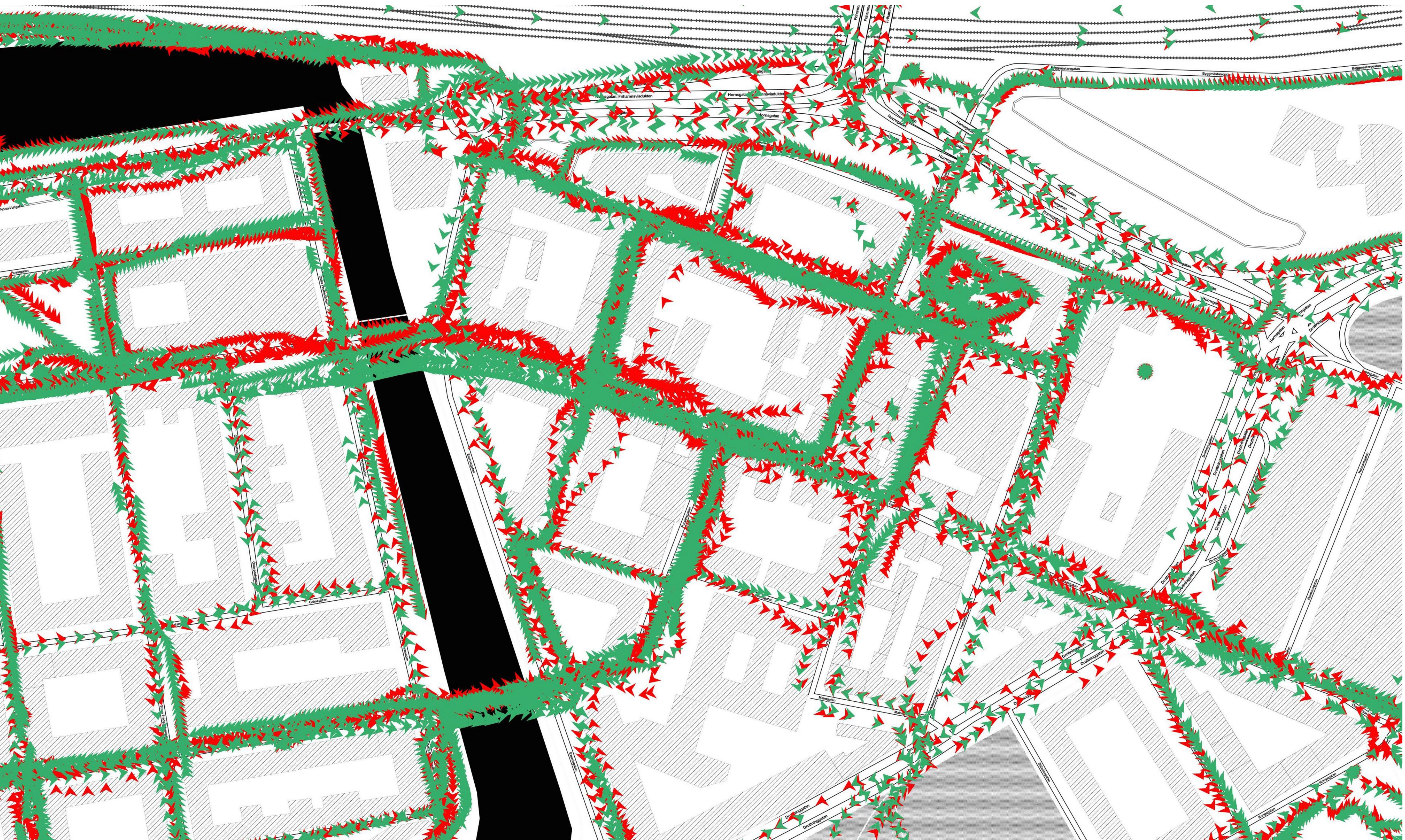
Crowdsourced street level photos

Mapillary

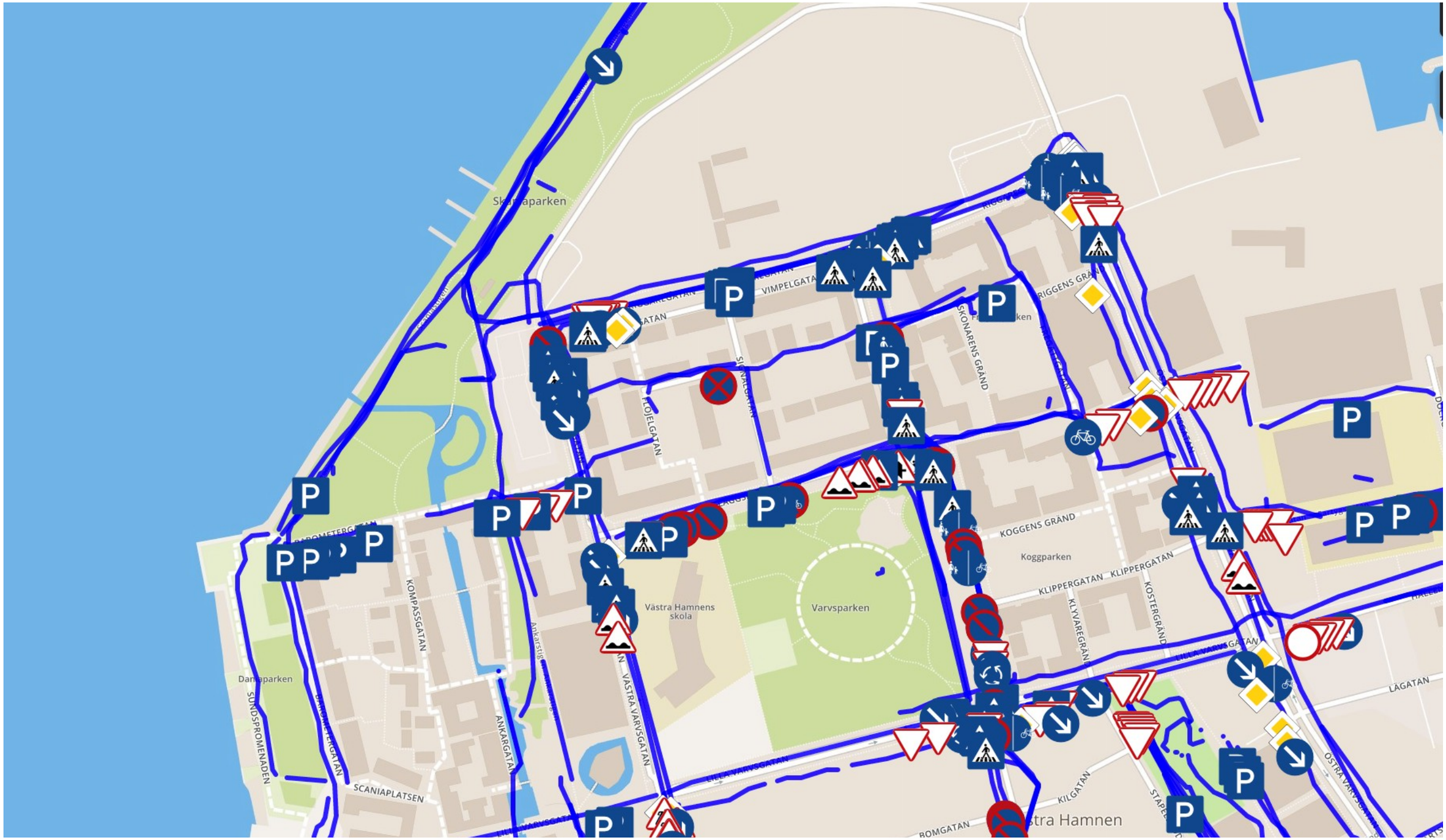
Started to 3D map cities using OpenSfM

https://github.com/mapillary/OpenSfM

# Localizing with 3D



# Traffic Sign Recognition



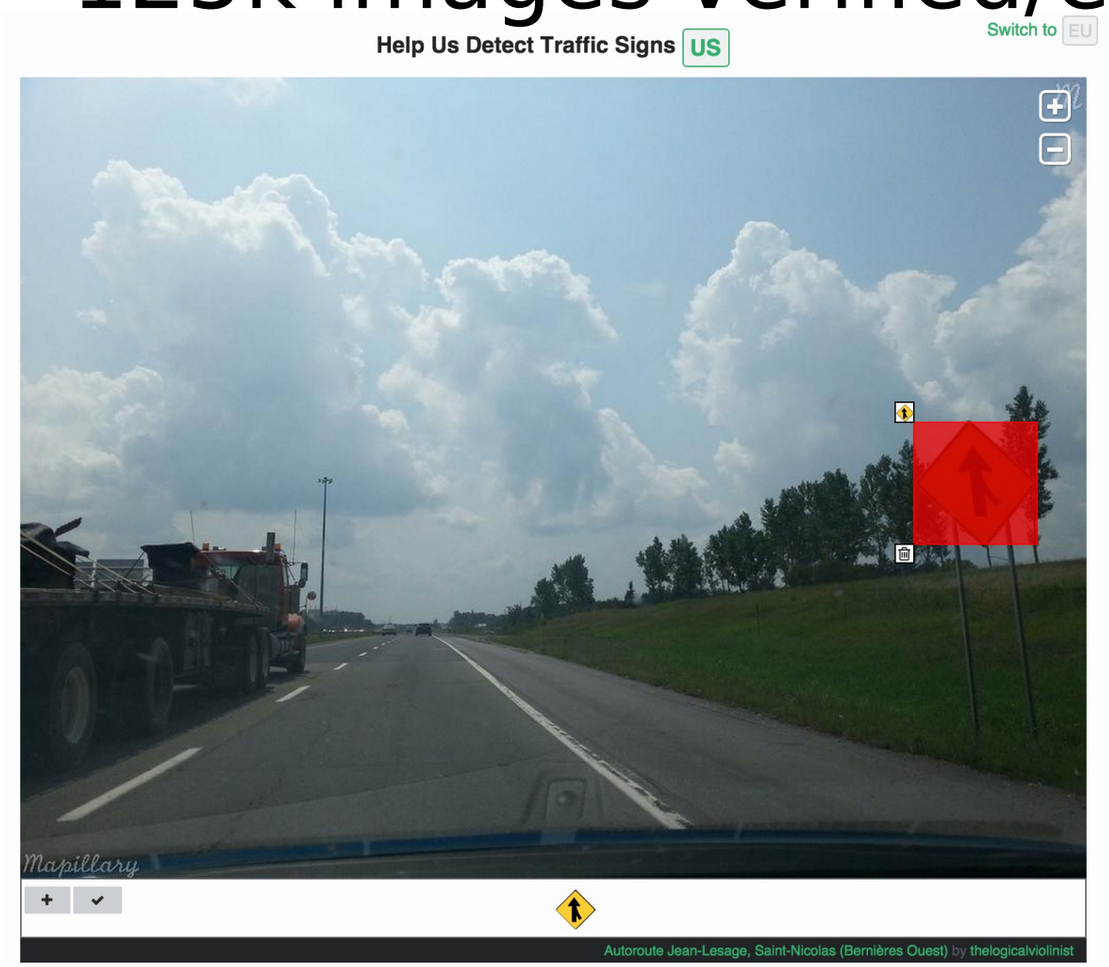

Crowdsourced street level photos

Mapillary

# Traffic Sign Game

6M signs detected
EU (3.6 M), AU(1.5M), US (610K), ...

125k images verified/edited using the game



Crowdsourced street level photos

Mapillary

# Mapillary ♡ OpenStreetMap

Derive data from Mapillary photos
*(street numbers, signs, objects, road details)*

Use data extracted from photos
*(traffic signs, etc)*

Use GPS traces from photo sequences

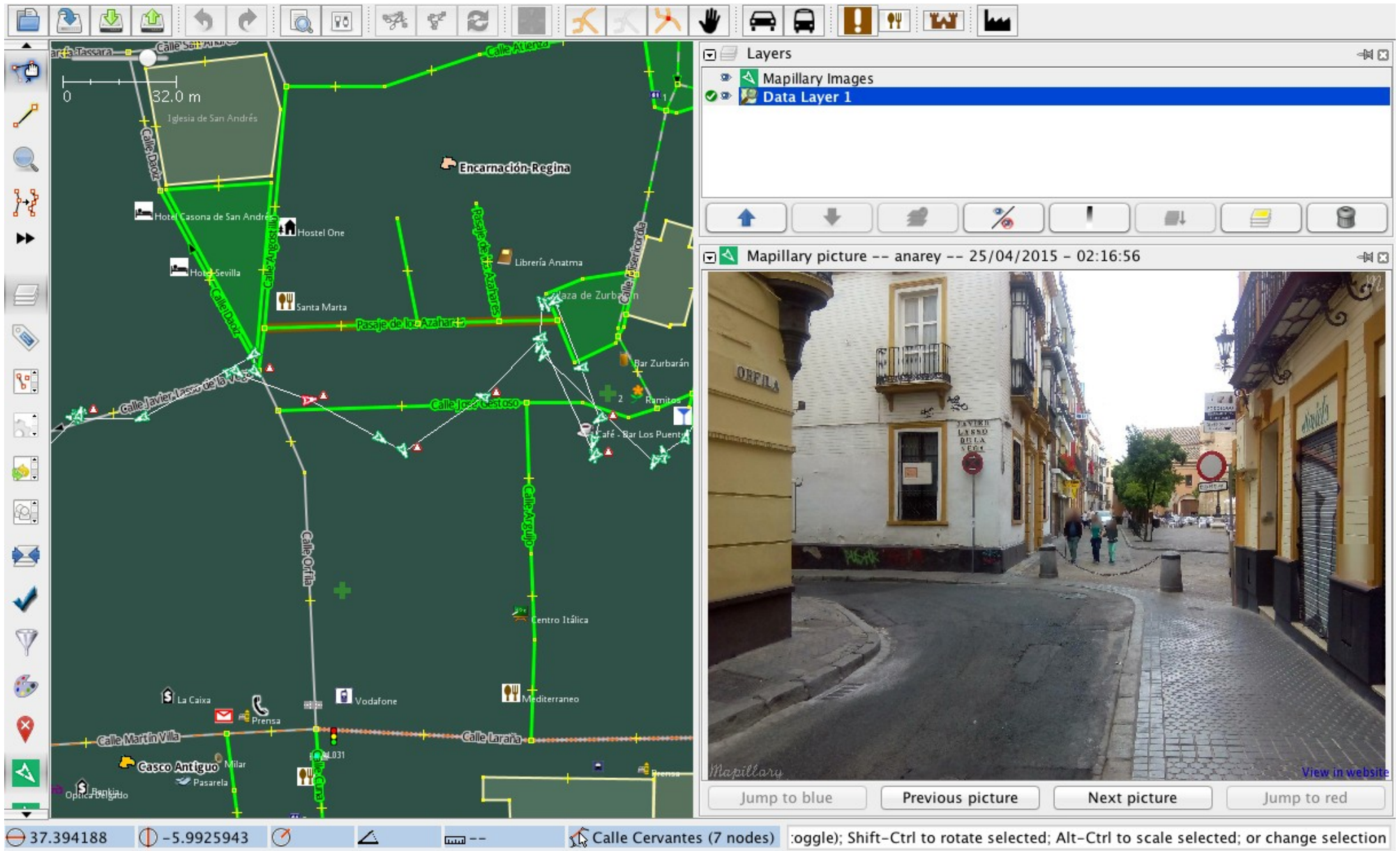
All photos are available under the Creative Commons Attribution-ShareAlike 4.0. (CC BY-SA 4.0)

Examples and details
https://www.mapillary.com/osm.html

# JOSM Integration

by **Jorge López (Nokutu)** with mentor **Polyglot**

http://wiki.openstreetmap.org/wiki/Google_Summer_of_Code/2015/Mapillary_plugin_for_JOSM




Crowdsourced street level photos

Mapillary

# Humanitarian OpenStreetMap

Humanitarian OpenStreetMap Team

MISSING MAPS

Crowdsourced street level photos Mapillary

# Map with us!

hello@mapillary, @mapillary

# személyes tapasztalataim

tükröződés
jármű orra
Mapillary

gyors félmegoldás
fekete kendővel
Mapillary

tisztítsd meg
a fényképezőgép lencséjét
Mapillary

mosd meg a szélvédőt
Mapillary

autofocus-bug
Mapillary

eső
Mapillary

sötétedés
Mapillary

szembe sütő nap
Mapillary

tárhely
Mapillary

energia
Mapillary

TESCO
TESCO
ne felejts el tankolni
Mapillary

nehogy úgy járj, mint én
Mapillary

térj le
a megszokott
útvonalakról
Mapillary

fényképezz
vasúton is
Mapillary

ha nem tudsz
előre vagy hátra,
akkor oldalra
Mapillary

biciklivel is
Mapillary

földúton is
Mapillary

kézzel készített fotók is feltölthetők
az alkalmazás is tud feltölteni, de az törli helyben
érdemes felülvizsgálni a képeket feltöltés előtt
Mapillary

# személyes adatok

köszönöm a figyelmet!

**Kolesár András**
kolesar@openstreetmap.hu

Mapillary