Street-Level Photos For Everyone

Mapillary

@kokoye2007 - Myanmar




















Mapillary is a service for crowdsourcing street-level photos

A new approach to street view

Mapillary creates street-level views by using computer vision to stitch together overlapping photos taken with any camera.

Street-Level Photos Mapillary

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 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. Together we're photo mapping the world to understand places better.

1,900,000 km mapped

86M+ photos collected in 180+ countries, fully automated processing.

Citizen engagement meets mobile mapping

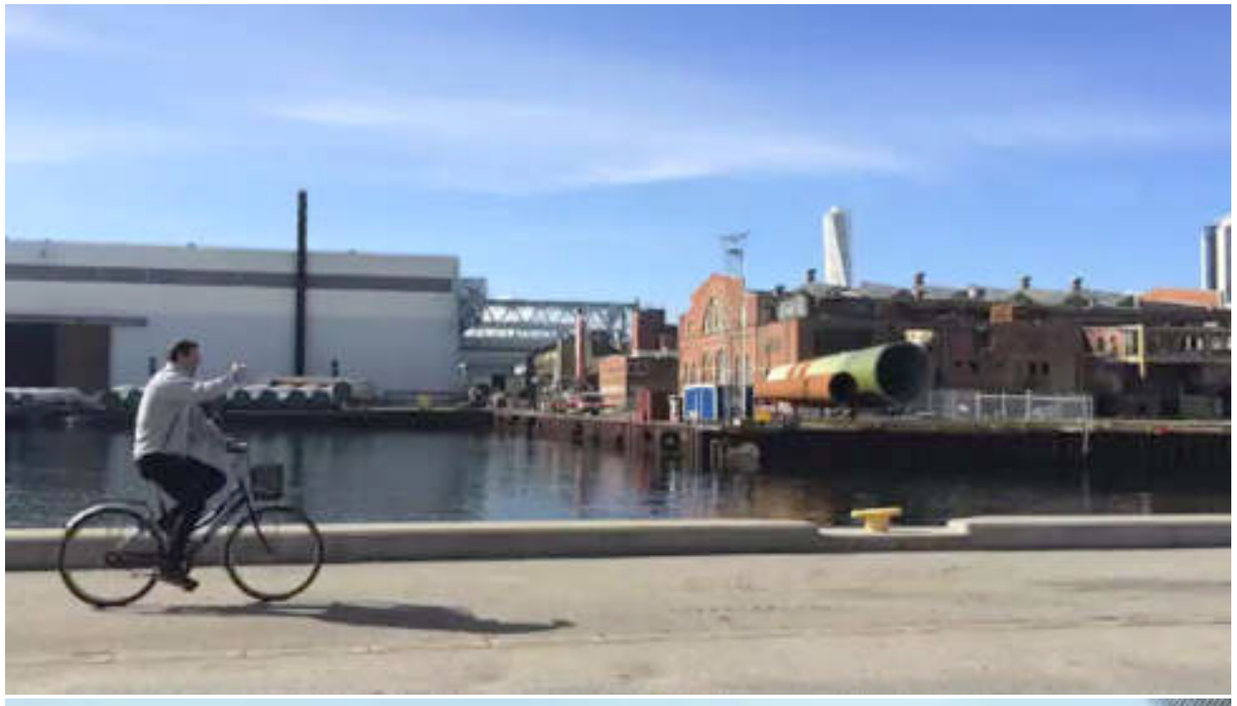
Mapillary's mission is to create a photo representation of the world – anyone with a mobile phone or camera can contribute.

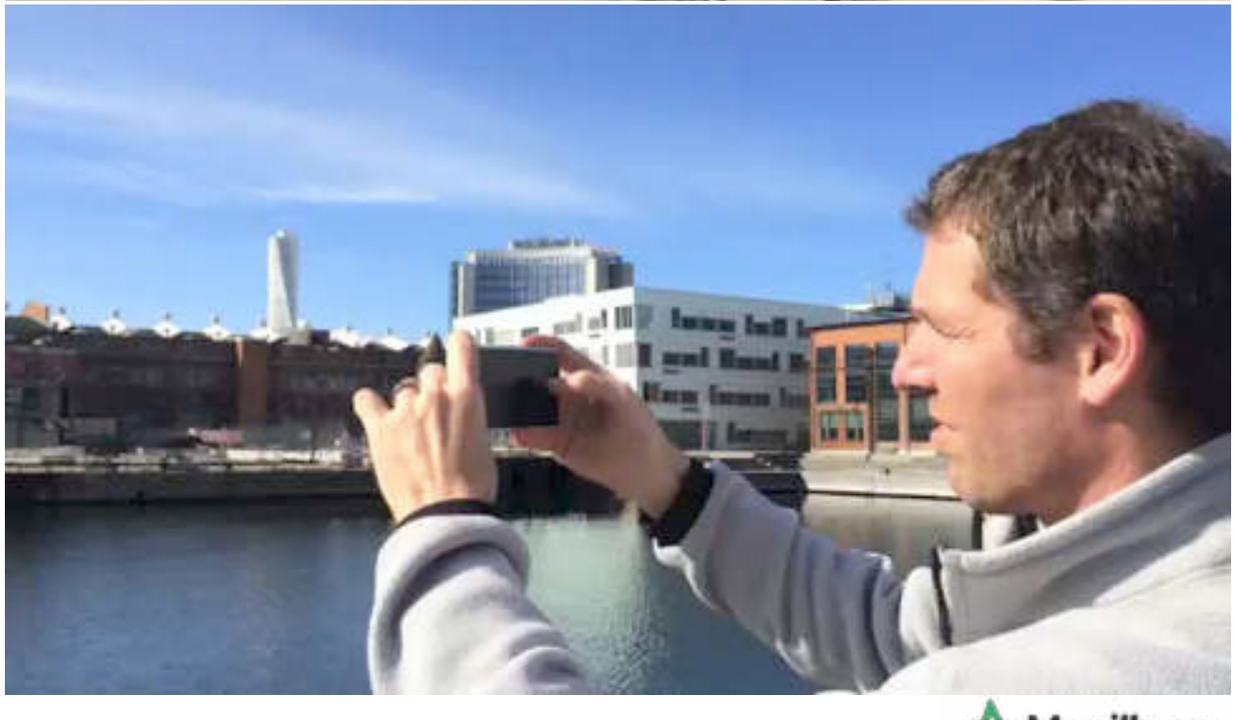
Mobile & Web

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

Street-Level Photos Mapillary

Capturing



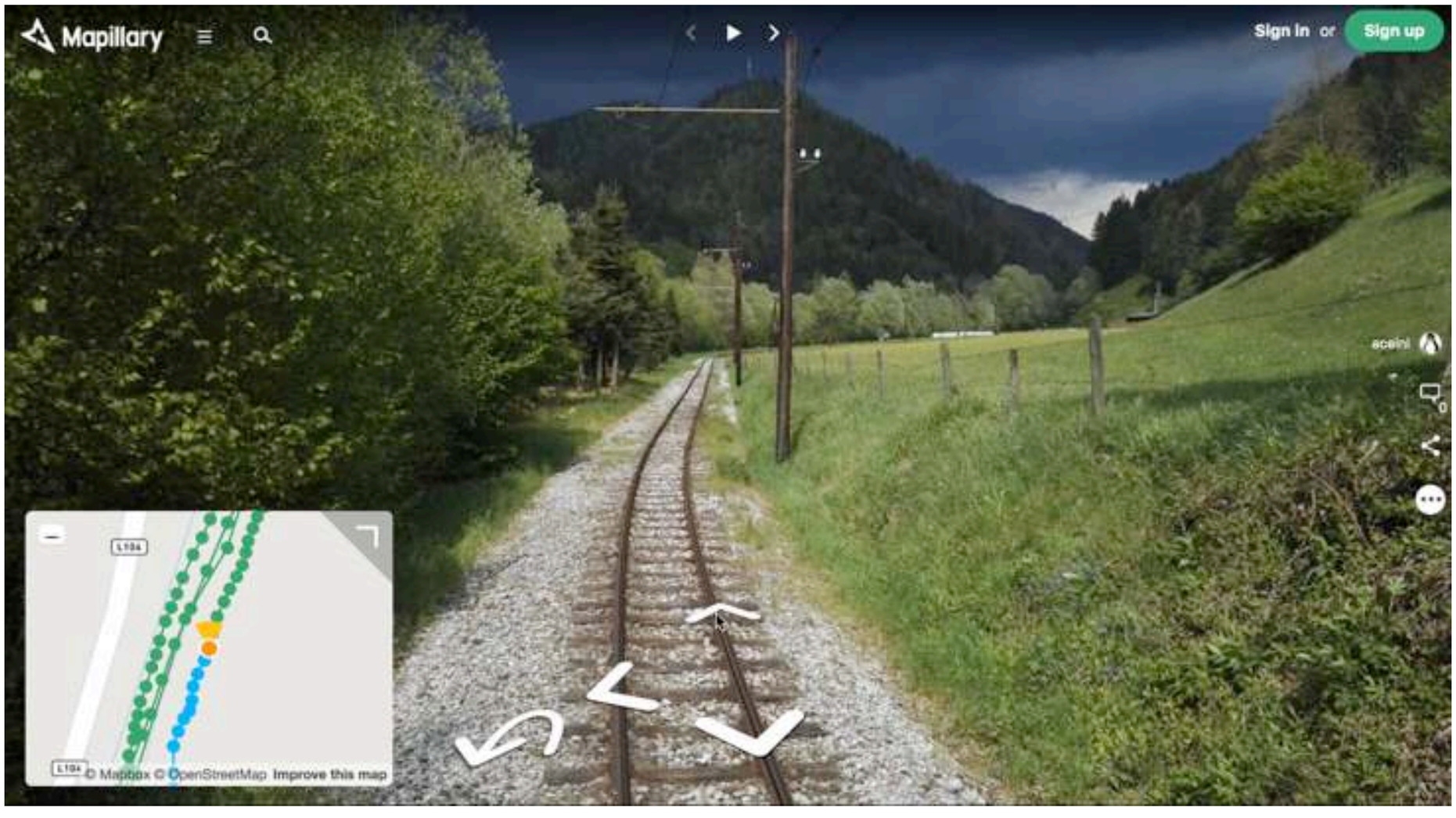


Better reach, fresher content

Street-Level Photos Mapillary

Greater Reach

People can go where Street View cars cannot – foot trails, bike paths, train tracks, waterways, and remote locations.

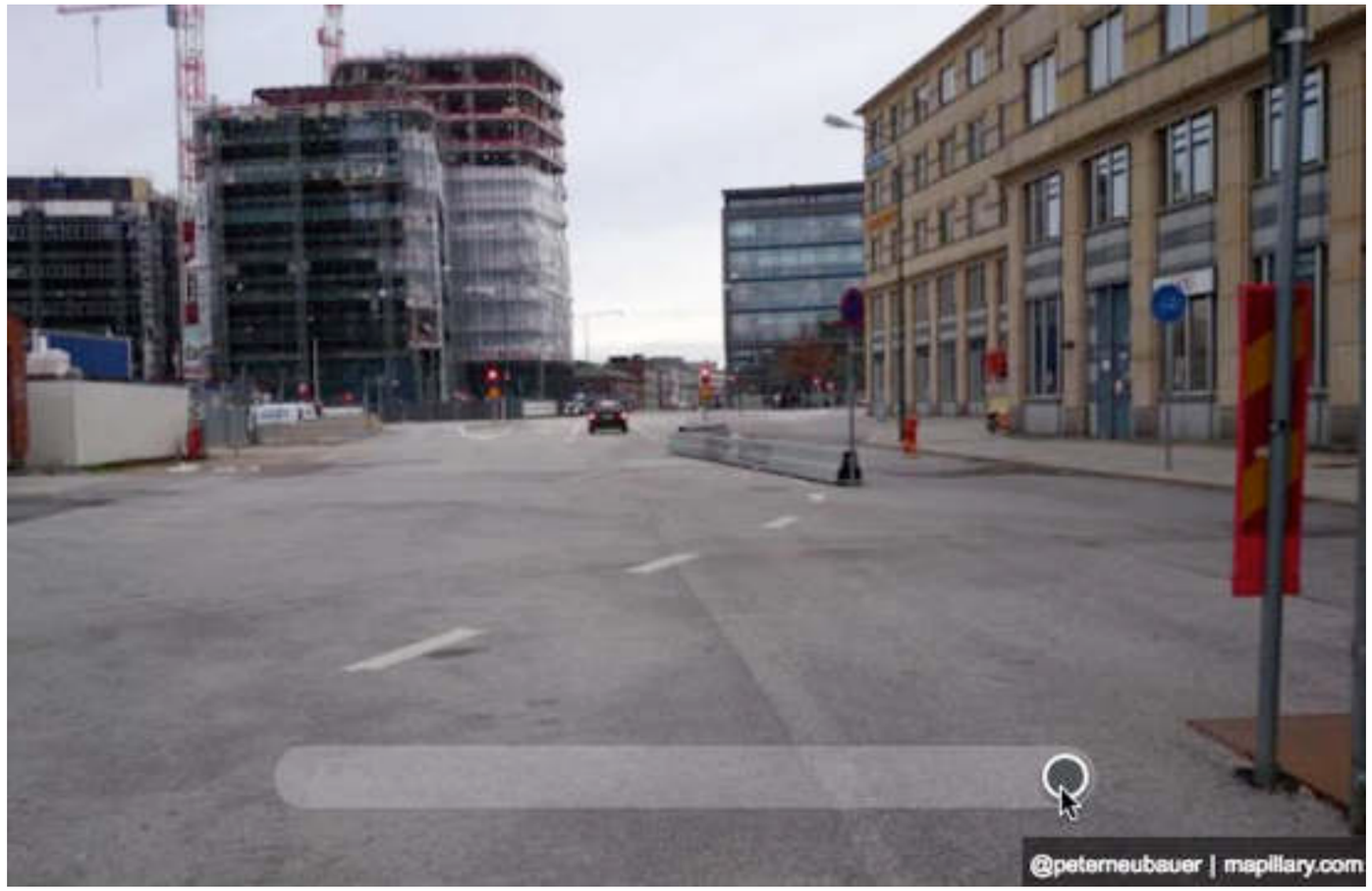


Quick turnaround

New photos are available on the map and stitched together with existing photos within hours – not months – of upload

Freshness Content

Photos can be captured as recently and as often as needed to track changes at a location.



Behind the scenes

Image Processing

Upon upload, photos are processed immediately to blur faces and license plates, and to detect features.

Street-Level Photos Mapillary

Image Matching

Photos are positioned based on their GPS information and match common points across photos.

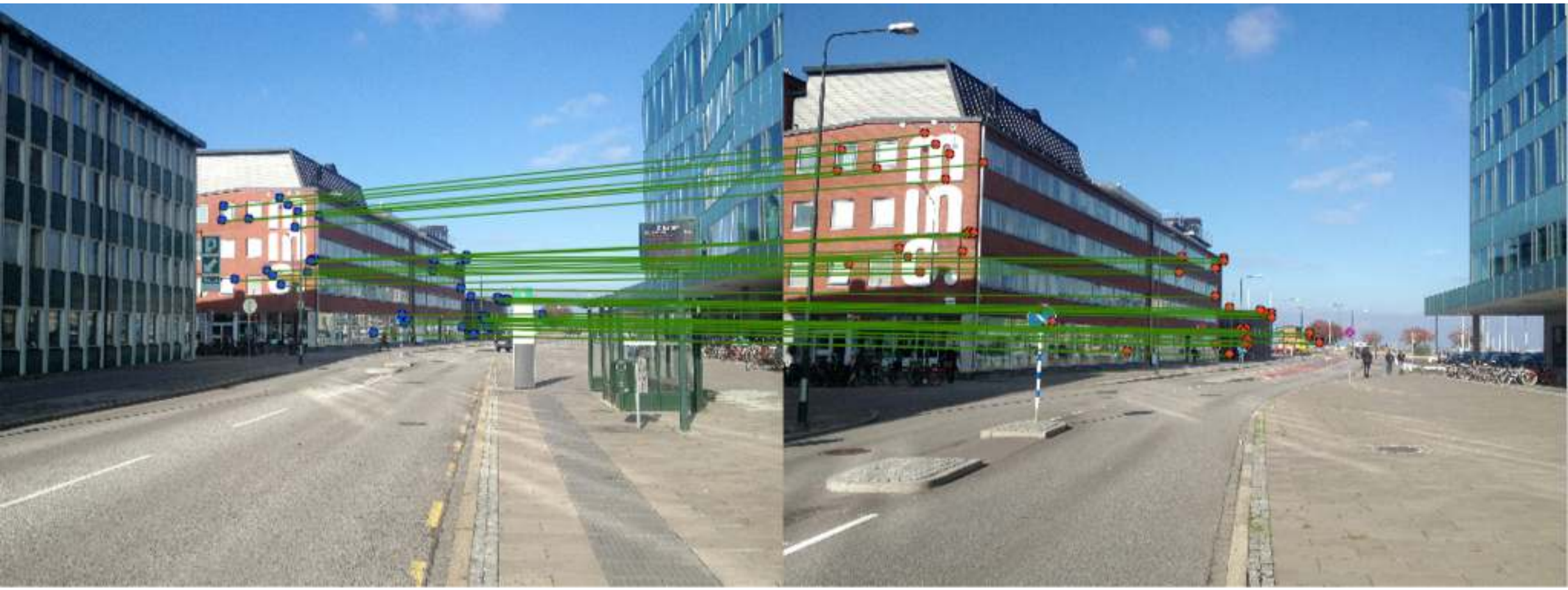
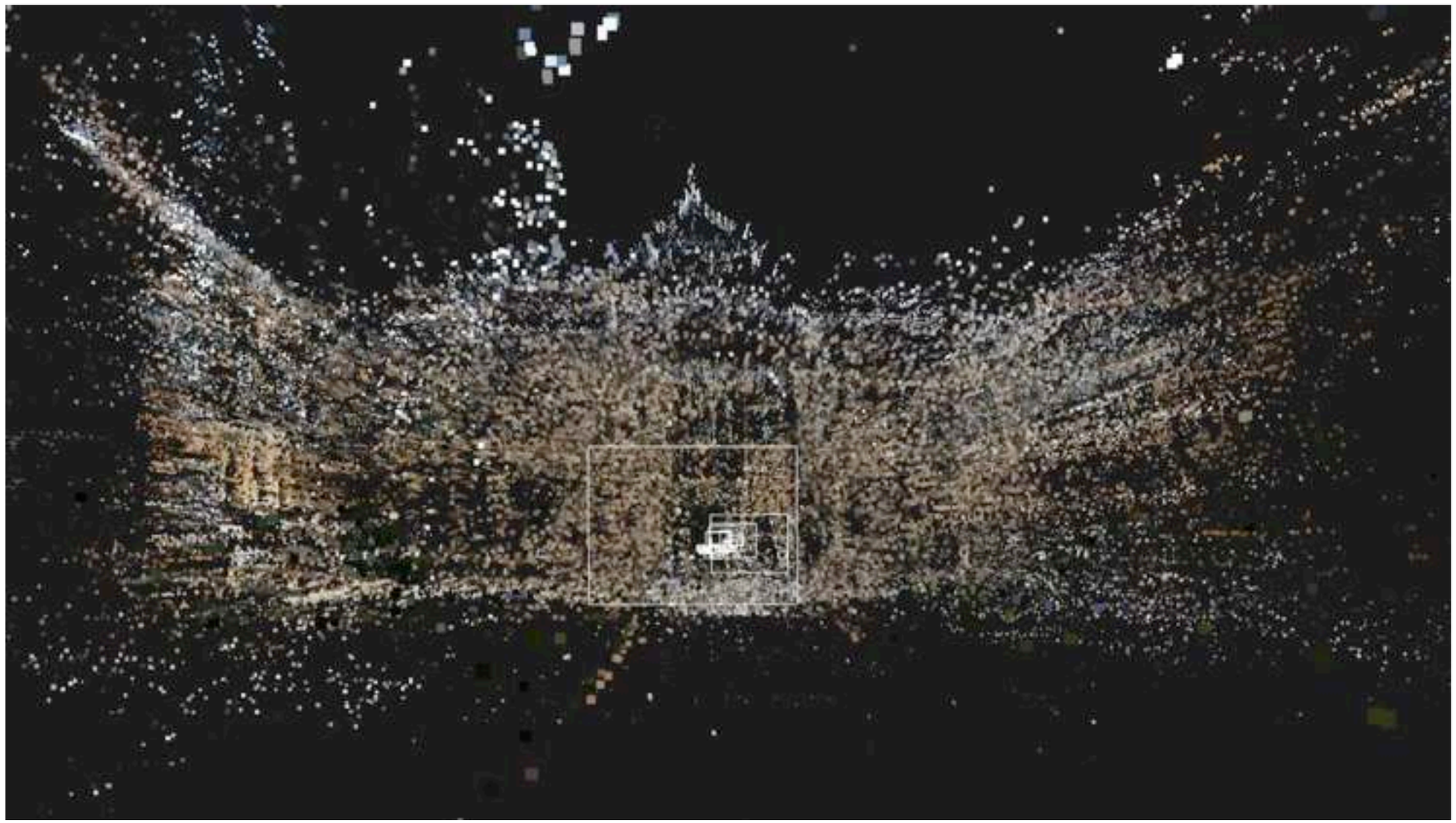


Image Stitching

Photos taken in a sequence are connected to each other, and to other sequences in the same location.

Point Clouds

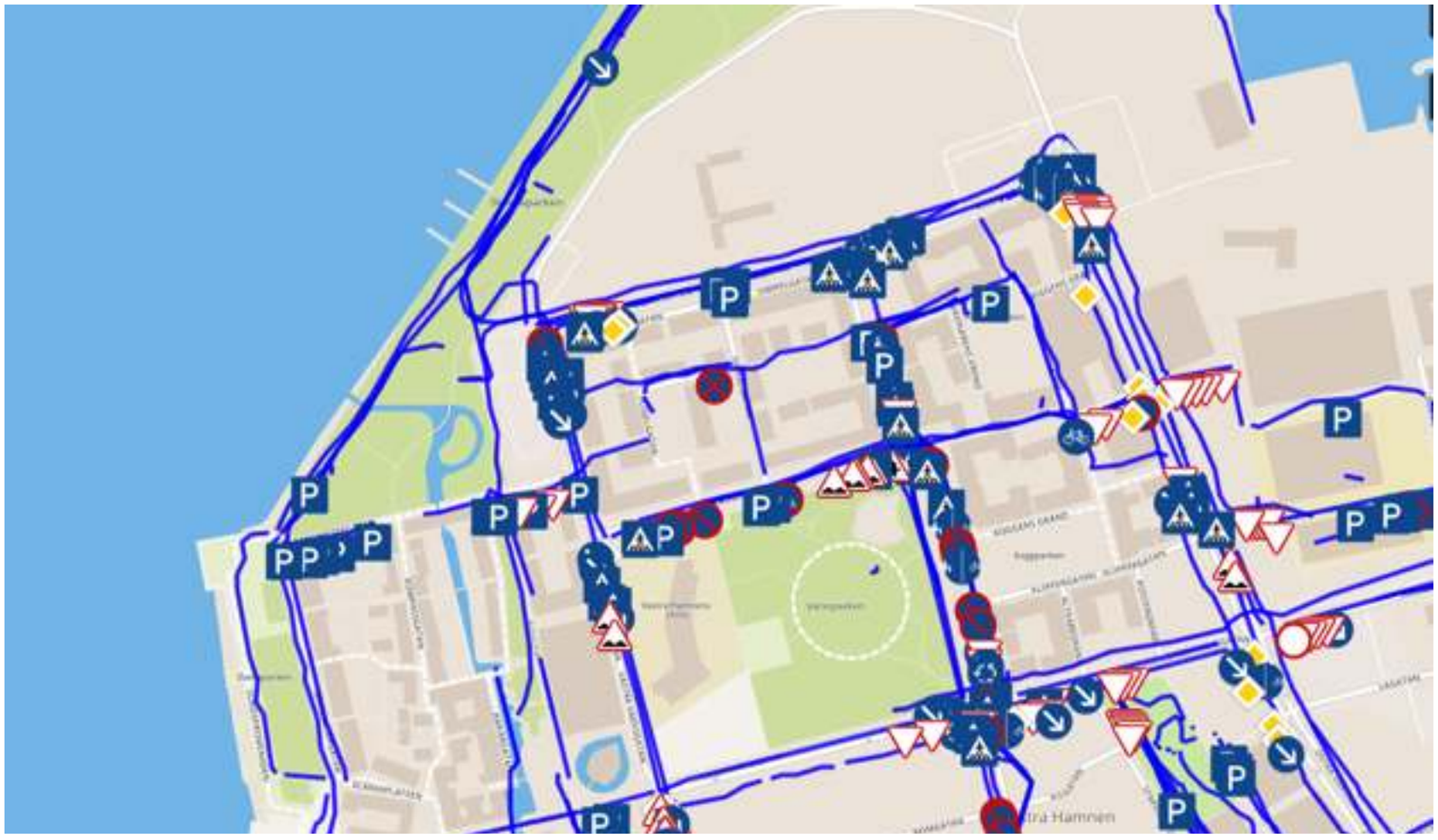
The resulting 3D models enable viewers to walk through virtual scenes and extract geospatial data



Street -Level Photos Mapillary

Traffic Sign Recognition

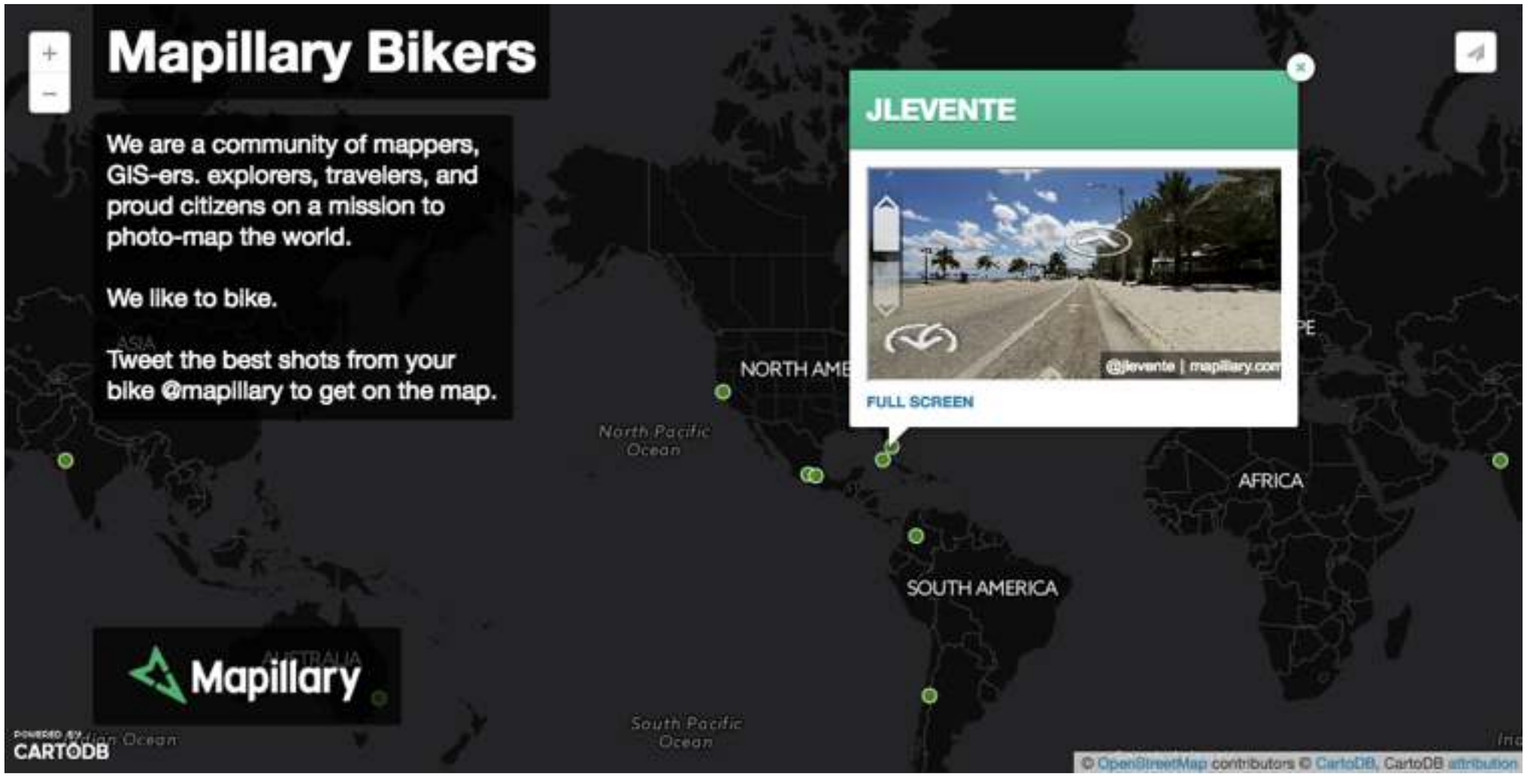
Mapillary detects and recognizes traffic signs in the U.S. and Europe based on training data from the Mapillary community.



Street -Level Photos

Mapillary standalone viewer

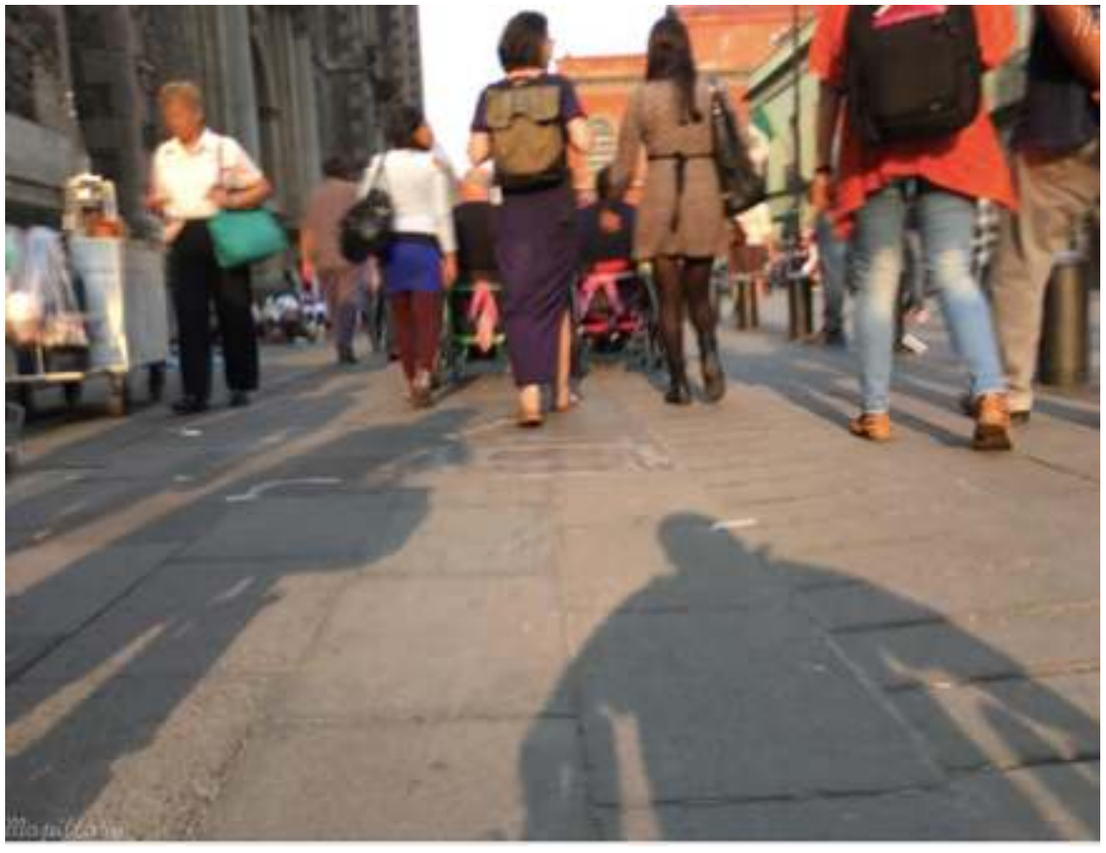
Mapillary can now be embedded in any software or service using a simple JavaScript Library



Community Stories

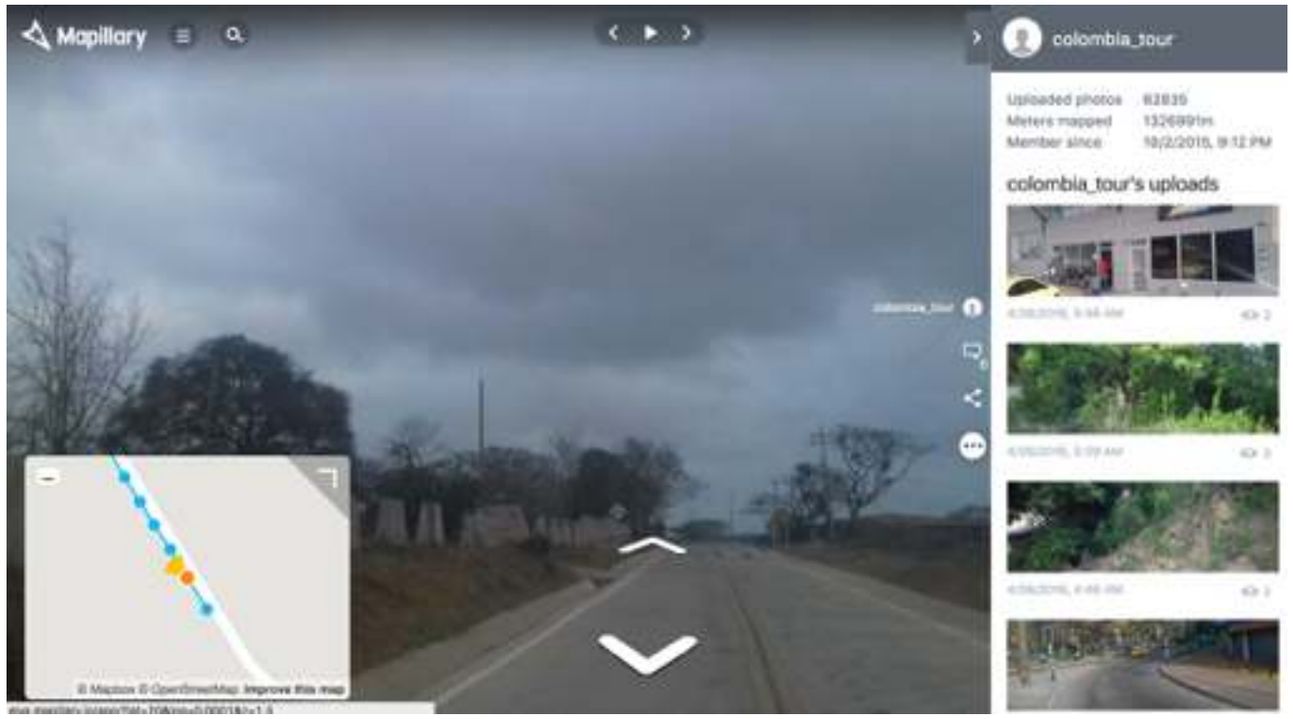
Citizen engagement

Challenged citizens to identify disabled access issues through a Pedestrian Walk event in Mexico City



Humanitarian mapping

Collect geographical data that can provide enough information to make decisions around basic sanitation and water for the community.



Street-Level Photos

Mapillary

High traffic routes

Supported efforts by bike activists to document high-traffic routes in Mexico City for transit and parking planning

Green Cities

Showcased urban parks at the 70-acre Sundar Nursery in the middle of New Delhi

Street-Level Photos

Explore the nature

Photo mapping national parks in the US

Mapillary

Filter your view

User

Date

From

To

Traffic signs

Show detected traffic signs

Filter for individual traffic sign

Reset filters

Map Data Automatically Generated

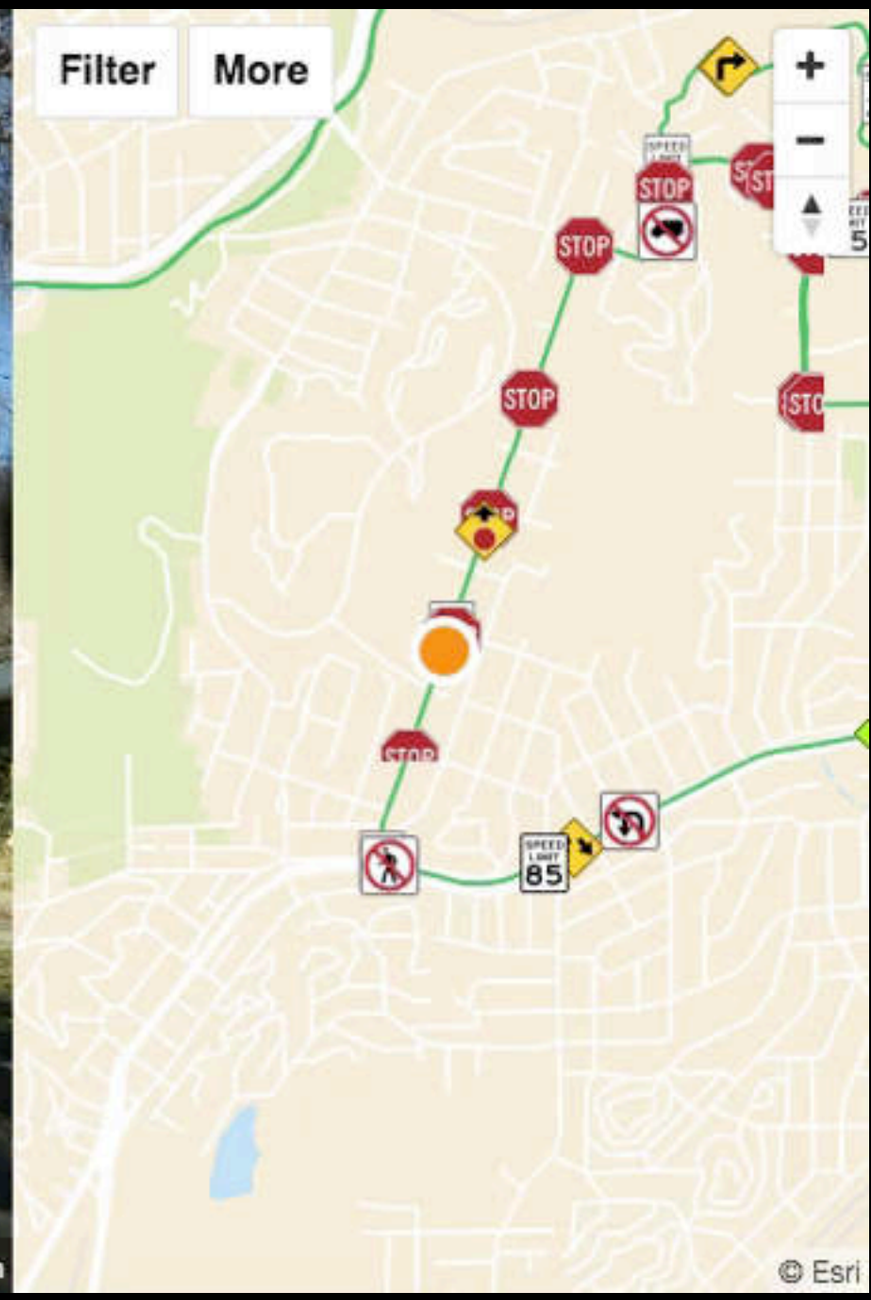
Labelling, Recognition, & Reconstruction

Semantic Segmentation

3D Reconstruction

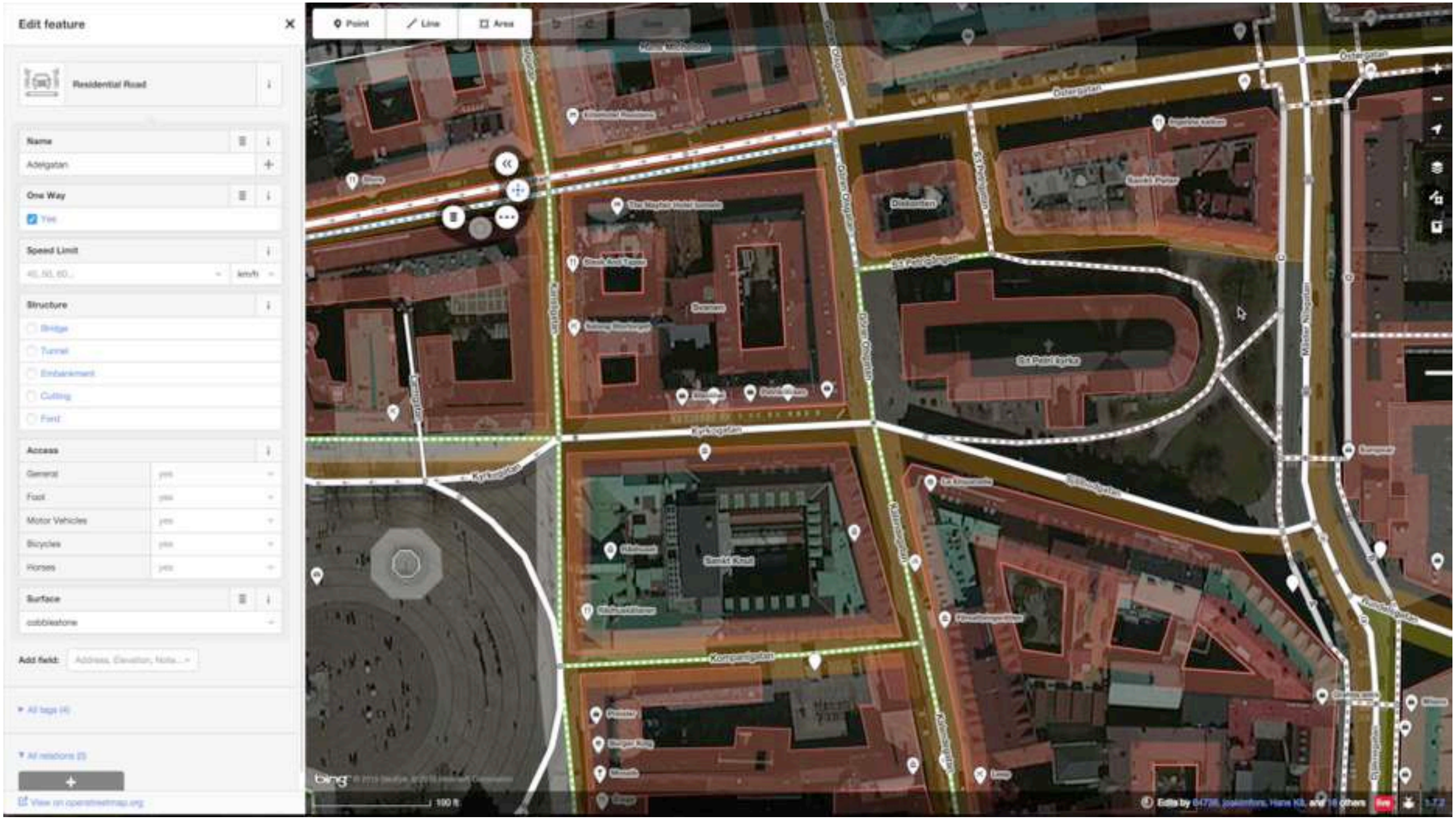
To position objects detected in photos/video

Object Recognition



Automatic detection and positioning of signs

iD Editor integration

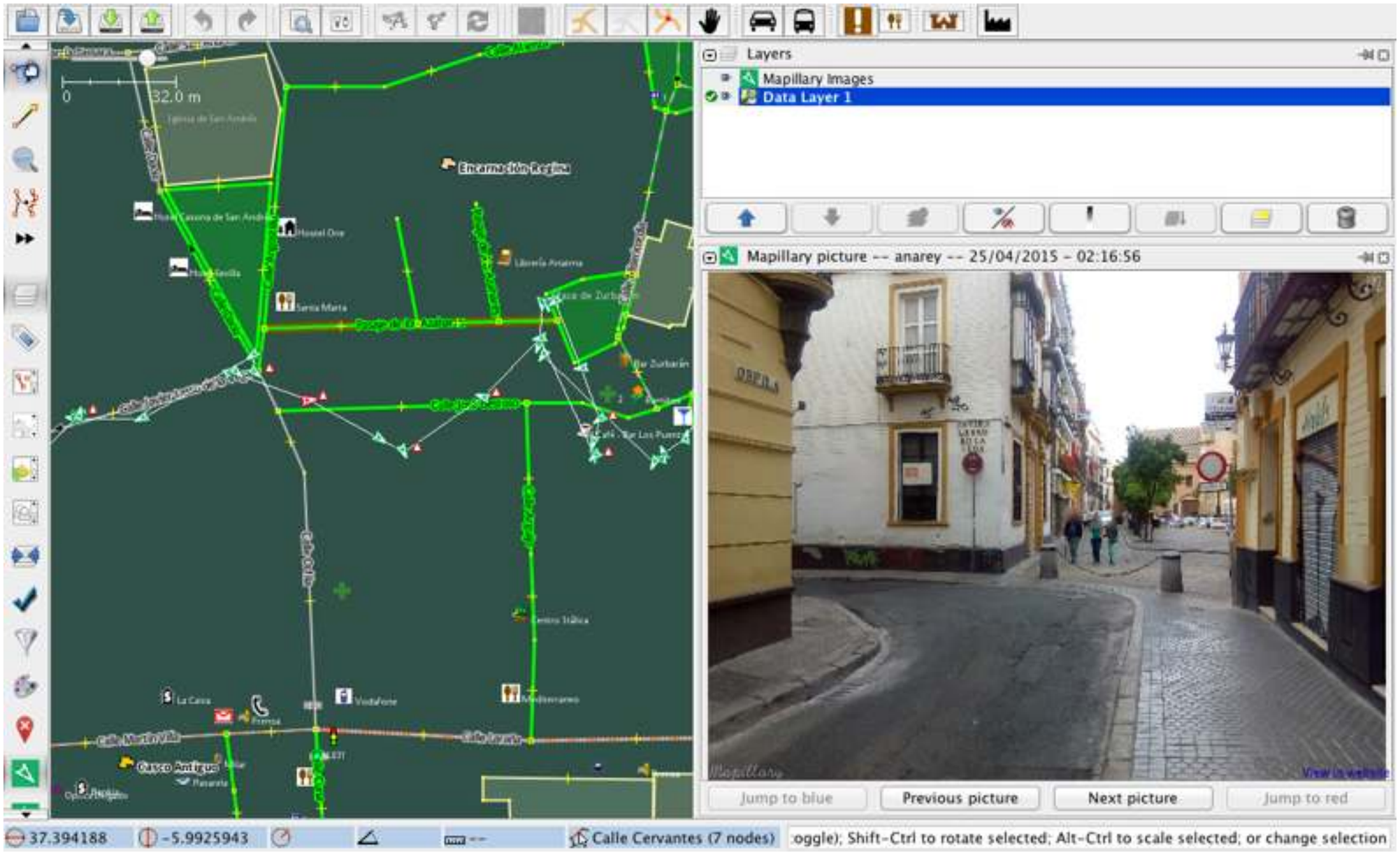


Street Level Photos Mapillary

JOSM Integration

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

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



Street Level Photos

Humanitarian OpenStreetMap

Humanitarian OpenStreetMap Team

MISSING MAPS

Street Level Photos Mapillary

Other uses

- Road surface condition
- Wheel-chair accessibility (wheelmap.org)
- Bike routing
- Asset management (street signs, fire hydrants, construction signs)
- Historical imagery
- Parks management

Map with us!

@eneerhut

ed@mapillary.com

@mapillary

@mapillary

hello@mapillary.com