OpenStreetMap

Guest appearance from Noise-Planet

Presentation for the Spatial Literacy User Group

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crowdsourcing

/ˈkraʊdˌsɔːsɪŋ/

noun

1. the practice of obtaining information or input into a task or project by enlisting the services of a large number of people, either paid or unpaid, typically via the internet:

   "organizations are increasingly turning to volunteers to spark innovation through crowdsourcing"

https://languages.oup.com/

OpenStreetMap

openstreetmap.org/#map=2/-41.2/-6.6

OpenStreetMap | Edit | History | Export | GPS Traces | User Diaries | Copyright | Help | About | Log In | Sign Up

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Welcome to OpenStreetMap!

OpenStreetMap is a map of the world, created by people like you and free to use under an open license.

Hosting is supported by UCL, Fastly, Bytemark Hosting, and other partners.

Learn More | Start Mapping

How to contribute

How to contribute - Other languages
Purge · Help
català · čeština · **English** · español · français · galego · italiano · magyar · Nederlands · norsk · polski · português · Türkçe · Ελληνικά · русский · українська · فارسی · 한국어 · 中文（简体） · 中文（繁體） · 日本語 ·
Other languages · Translate

Get help | About OpenStreetMap | Browsing | **How to contribute** | Contribute map data | Editors | Glossary | Beginners' guide

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*Find out about how **you** can get involved in the OpenStreetMap project!*

Getting started

- Read our introduction: Getting involved

Contribute map data

Develop software

Report issues

Maintain this wiki

- Wiki guidelines

Support

- Help users and developers looking for answers at the help desk or through one of the other contact channels.

Join and organise

- your local user group
- your local chapter
- a mapping party, see Mapping Weekend Howto and Micro Mapping Party
- a conference
- Check existing events
- Join the OpenStreetMap Foundation

Translate

- map data
- the OpenStreetMap website
- this wiki
- editors or other related software

Promote OpenStreetMap

Donate or buy merchandise

- Donate on osmfoundation.org

Categories: Contribute | Portals

Comparison table

Comparison of OSM Editors

Name	For novice users	Platform	Is programmed in a language	Editor type	Development is active	Windows	Linux	Mac OS X	Android	iOS	Free	Advantages	Disadvantages
iD	yes	web based	JavaScript	fully featured	yes	yes	yes	yes	yes	yes	yes	Works almost everywhere	
Potlatch 2	yes	web based	Adobe Flex	fully featured	Superseded	yes	yes	yes	no	no	yes		Requires browser Flash plugin. Flash support is discontinued
Potlatch 3	yes	desktop	Adobe Flex	fully featured	yes	yes	only with WINE	yes	no	no	yes		Requires Adobe AIR runtime
JOSM	no	desktop	Java	fully featured	yes	yes	yes	yes	no	no	yes	Highly configurable and extendable via plugins. Changeset reverting support	requires JRE installation, difficult to study
Merkaartor	no	desktop	C++ with Qt	fully featured	yes	yes	yes	yes	no	no	yes		Sometimes can damage relations
Vespucci	no	mobile	Java	fully featured	yes	no	no	no	yes	no	yes		
Go Map!	no	mobile	Objective-C, Cocoa, and Swift	fully featured	yes	no	no	no	no	yes	yes		
StreetComplete	yes	mobile	Kotlin and Java	quests solution only	yes	no	no	no	yes	no	yes		
OsmAnd	no	mobile	Java and C++	map viewer with POI editing	yes	no	no	no	yes	yes	limited	Integrates with JOSM	
MapsMe	yes	mobile	C++	map viewer with POI editing	yes	no	no	no	yes	yes	yes		
Locus	no	mobile	unknown	map viewer with POI editing	yes	no	no	no	yes	no	no		
ArcGIS	no	GIS plugin	unknown	fully featured	yes	yes	yes	yes	no	no	no		Very expensive
Level0	no	web based	PHP	low level text-based object editing	stable	yes	yes	yes	yes	yes	yes		

Simple online editor in browser

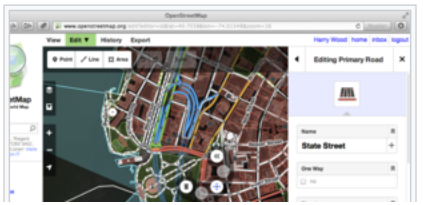
iD

Summary

Online editor.

Pros

- It is currently the pre-set editor for www.openstreetmap.org's 'Edit' tab, and runs in your web browser
- It has a 'walkthrough' feature and has been designed to be an easy introduction for brand new OSM contributors
- Development is active and ongoing, with a lot of attention paid to user experience



learnOSM

Learn OpenStreetMap Step by Step

Beginner's Guide

NOTE:

Reviewed 2015-07-12

This guide shows step by step how to get started with OpenStreetMap. You will learn how to set up an account, how to use basic map editing software, and in later chapters you can learn how to go outside and collect information to put on the map.

Are you new to OpenStreetMap and want to improve the map by adding data?

If you want to get started and be able to edit the map data then we recommend that you read these guides:

- the introduction gives you some background about the project
- Getting started shows you how to get an account and how to invoke an editor
- in iD editor you learn the basics of editing the data

You already know how to use an editor and want to contribute to Humanitarian Mapping?

The main point is to learn how mapping in this context is coordinated.

- the remote mapping guide and the general information about humanitarian mapping provide some background
- the workhorse is the Tasking Manager whose workflow you should get familiar with

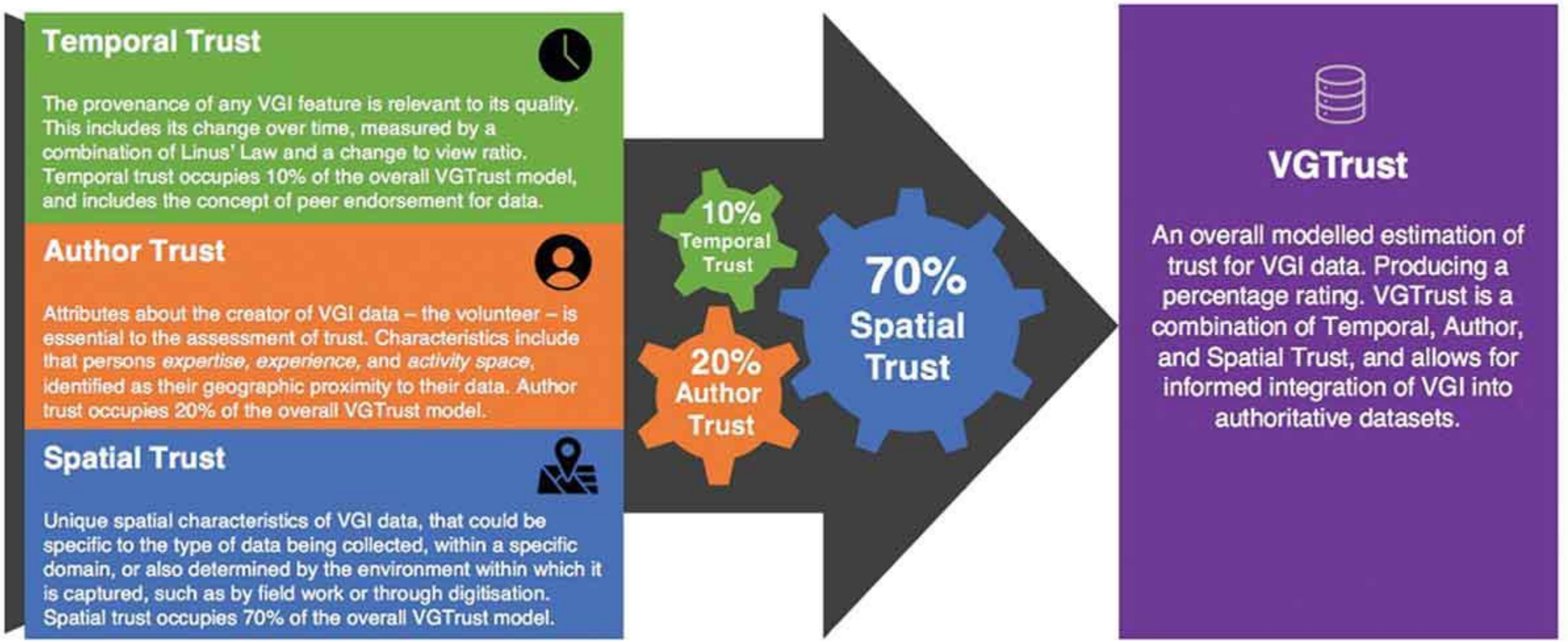
If you are an experienced mapper and want to know more about validation then a section in our Tasking Manager guide explains the process.

Would you like to use OpenStreetMap on mobile devices?

Quality of the dataset for Use

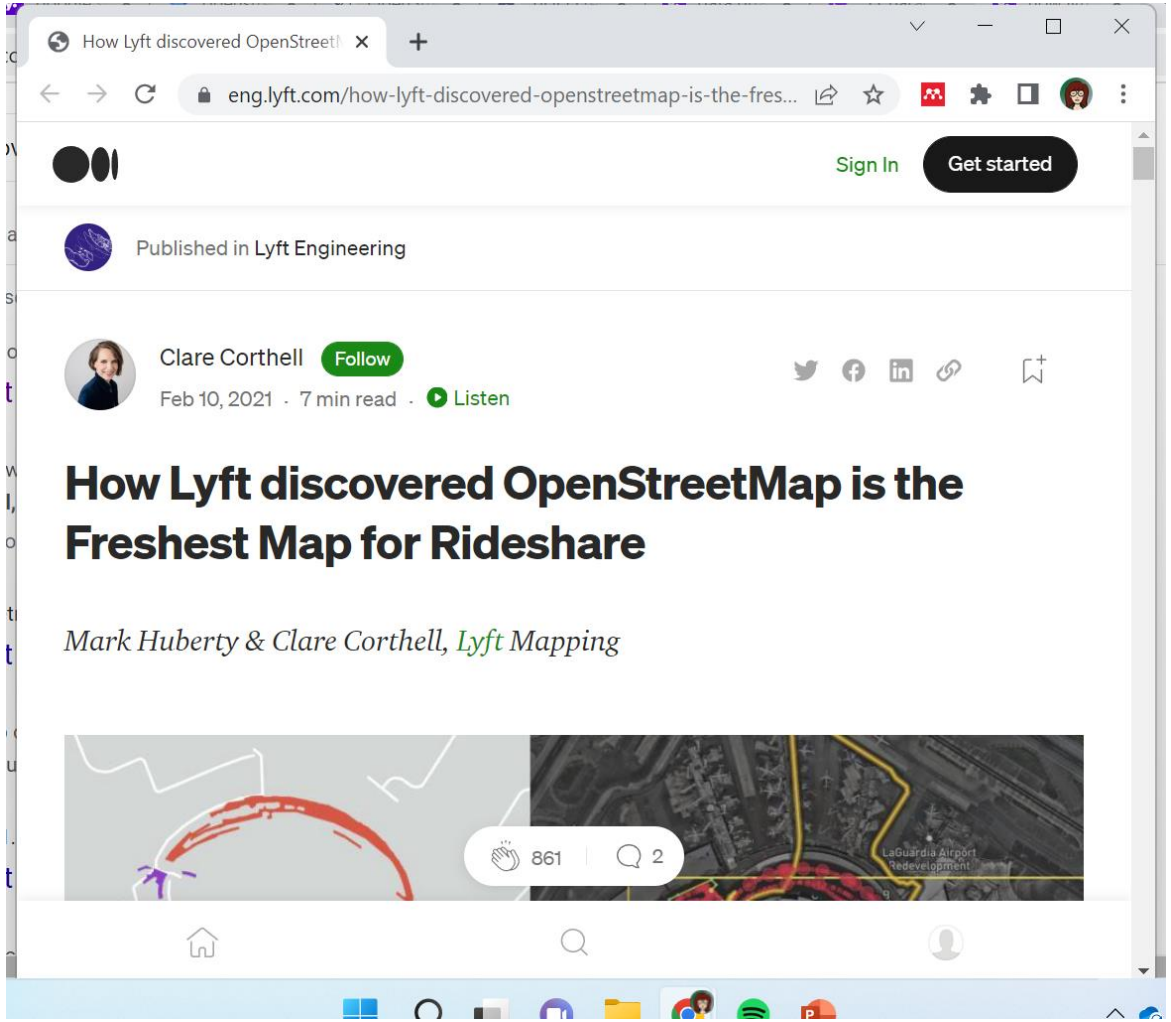
Accuracy	Is the information correct in every detail?
Completeness	How comprehensive is the information?
Reliability	Does the information contradict other trusted resources?
Relevance	Do you really need this information?
Timeliness	How up- to-date is information? Can it be used for real-time reporting?

https://www.precisely.com/blog/data-quality/5-characteristics-of-data-quality



Jeremy Severinsen, Mairead de Roiste, Femke Reitsma & Emir Hartato (2019) VGTrust: measuring trust for volunteered geographic information, International Journal of Geographical Information Science, 33:8, 1683-1701, DOI: 10.1080/13658816.2019.1572893

https://eng.lyft.com/how-lyft-discovered-openstreetmap-is-the-freshest-map-for-rideshare-a7a41bf92ec



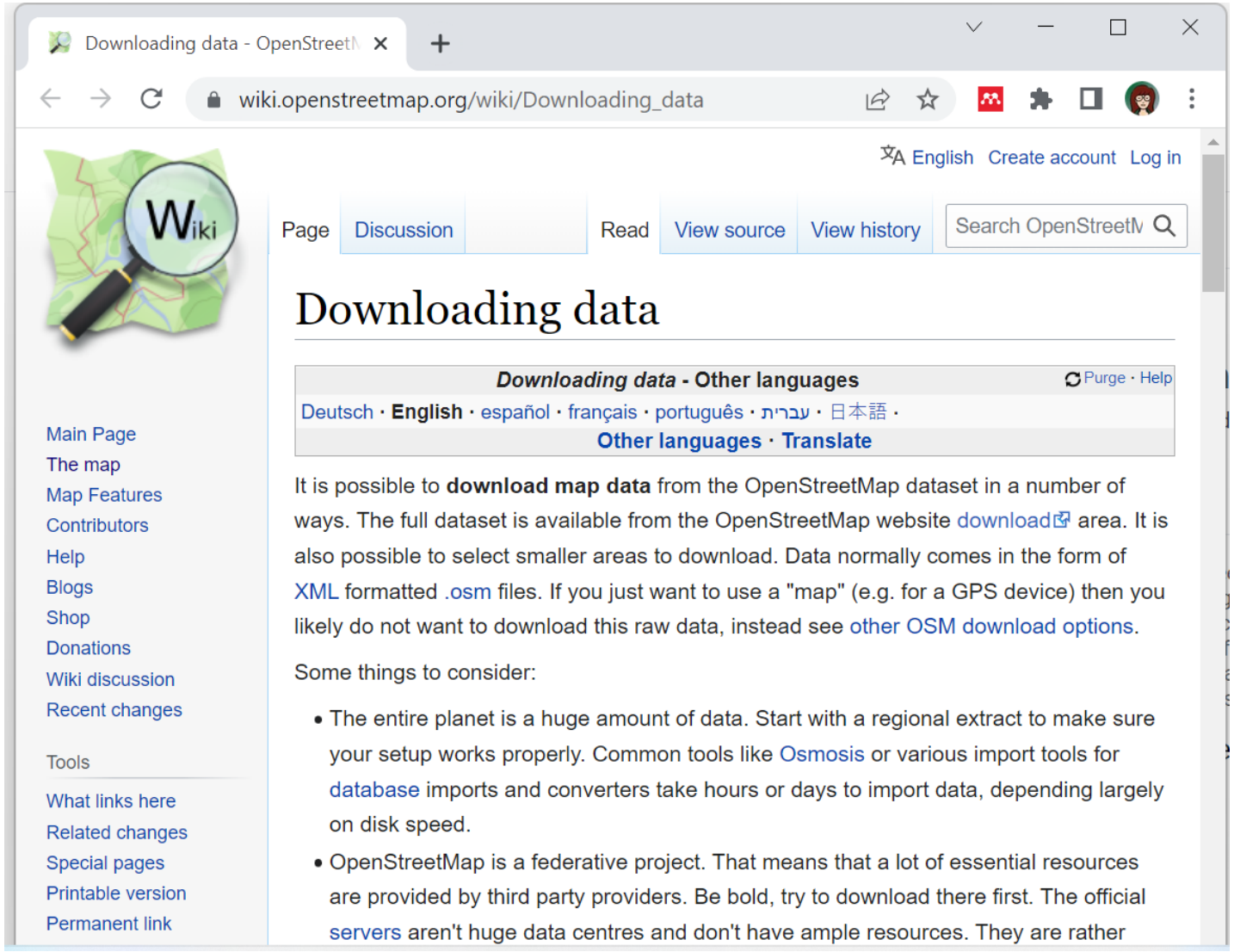
https://eng.lyft.com/how-lyft-discovered-openstreetmap-is-the-freshest-map-for-rideshare-a7a41bf92ec

After 16 years of growth, OSM is now commonly used by many companies to power applications like logistics platforms, social media, and gaming.

OSM is now the biggest crowdsourced repository of human geospatial knowledge.

But is this map suitable for supporting the rideshare experience? Is it the best option available? Can Lyft support the OSM community and contribute to making the map better?

How to download



Export | OpenStreetMap

openstreetmap.org/export#map=16/-41.2912/174.7684

OpenStreetMap | Edit | History | Export | GPS Traces | User Diaries | Copyright | Help | About | léarscáil

Manually select a different area

Licence

OpenStreetMap data is licensed under the Open Data Commons Open Database License (ODbL).

Export

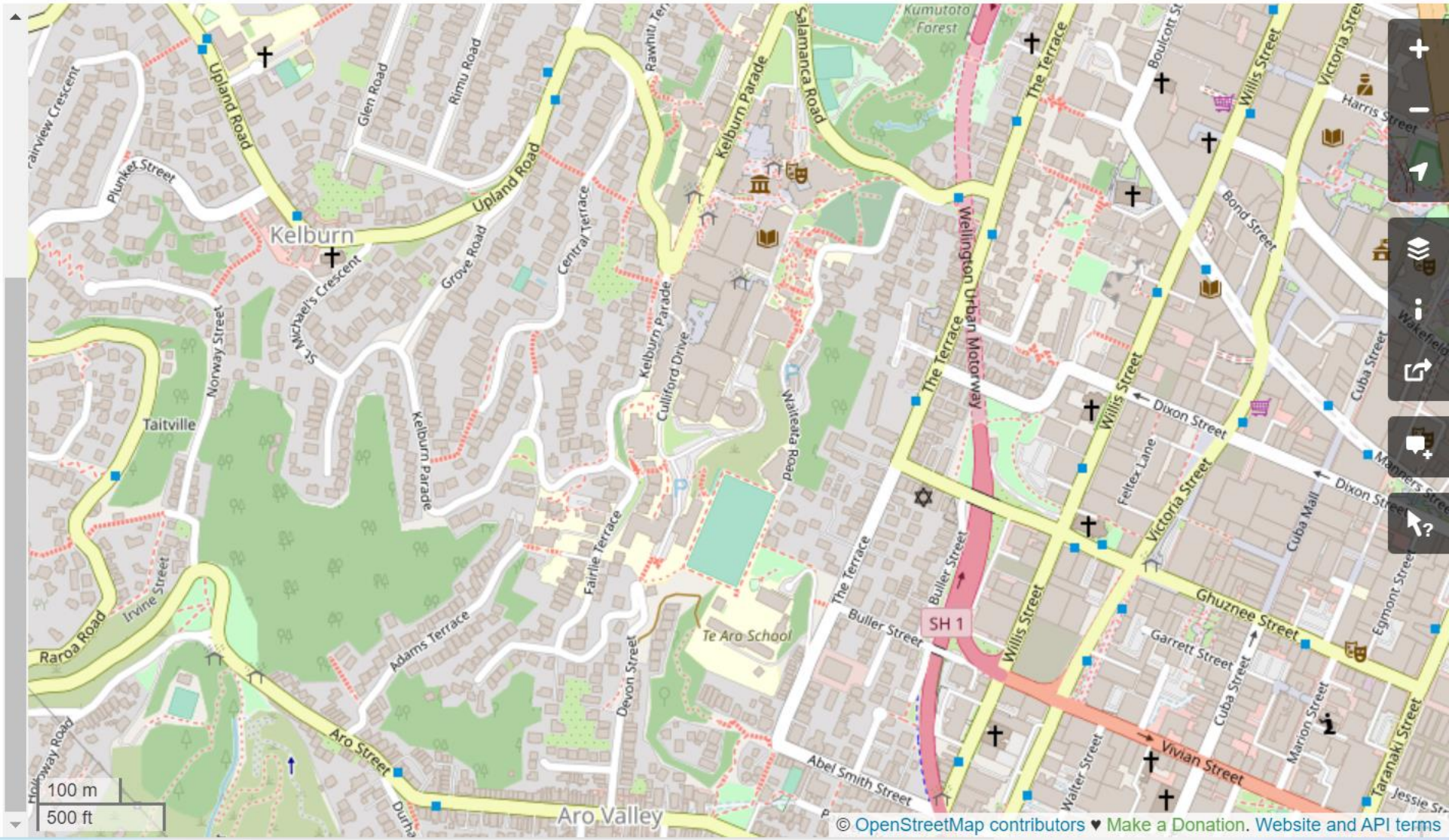
If the above export fails, please consider using one of the sources listed below:

Overpass API
Download this bounding box from a mirror of the OpenStreetMap database

Planet OSM
Regularly-updated copies of the complete OpenStreetMap database

Geofabrik Downloads
Regularly-updated extracts of continents, countries, and selected cities

Other Sources
Additional sources listed on the OpenStreetMap Wiki



https://mygeodata.cloud/conver

mygeodata.cloud/conversion

MyGeodata Converter

Home | Apps | Plans | Sign In

MyGeodata Converter

1. Input Data

Input Layers to Convert

× addresses × amenity_points
× amenity_polygons × bridges × buildings
× forests × landcover × power_line_columns
× power_lines × roads × stations × trees
× tunnels × water_areas × water_lines

Selected datasets count: 1
Dataset(s) volume: 7.7 MB

Input parameters

File name: map
Format: OSM (osm.pbf, osm.bz2)
Characters encoding: UTF-8
Coordinate system: WGS 84 (EPSG:4326)

Dataset info...

2. Output Data

Output Format

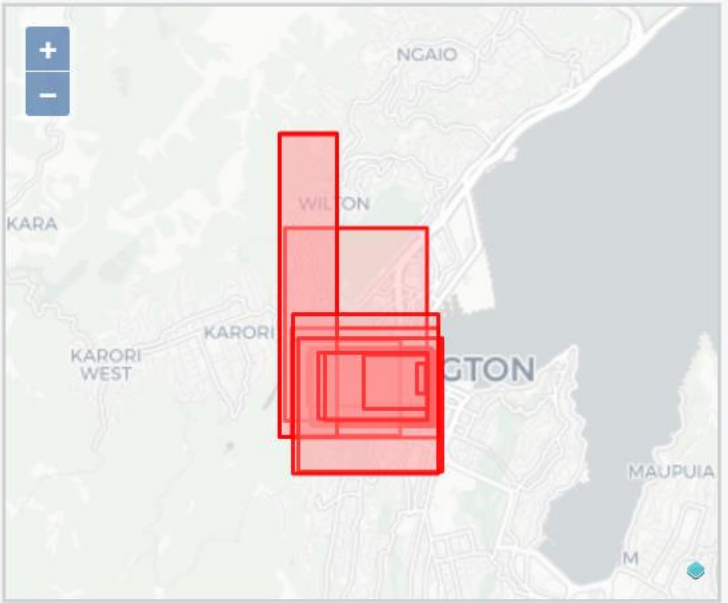
ESRI Shapefile (shp)

Output parameters

Coordinate system: (the same as input)

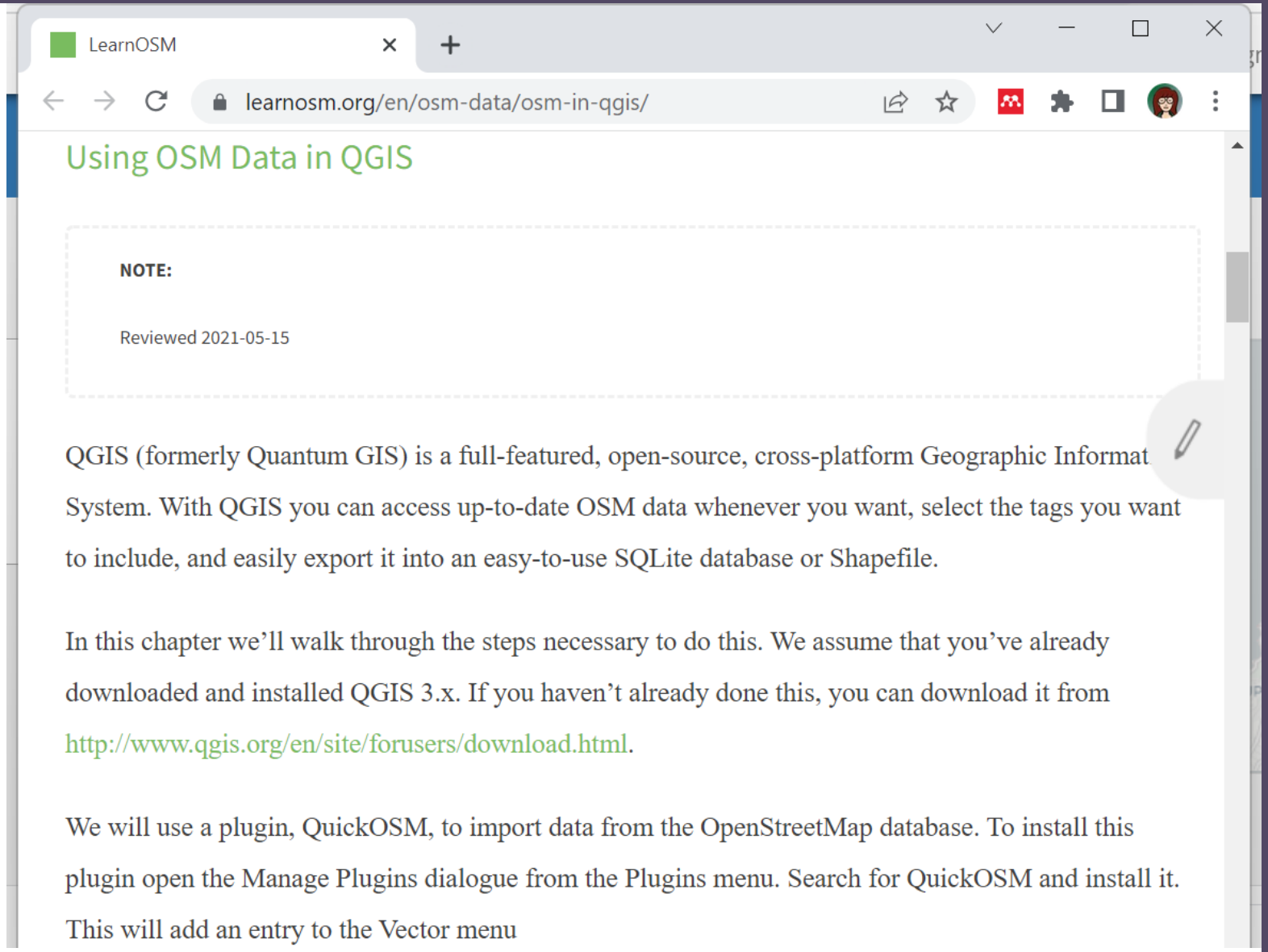
3. Conversion

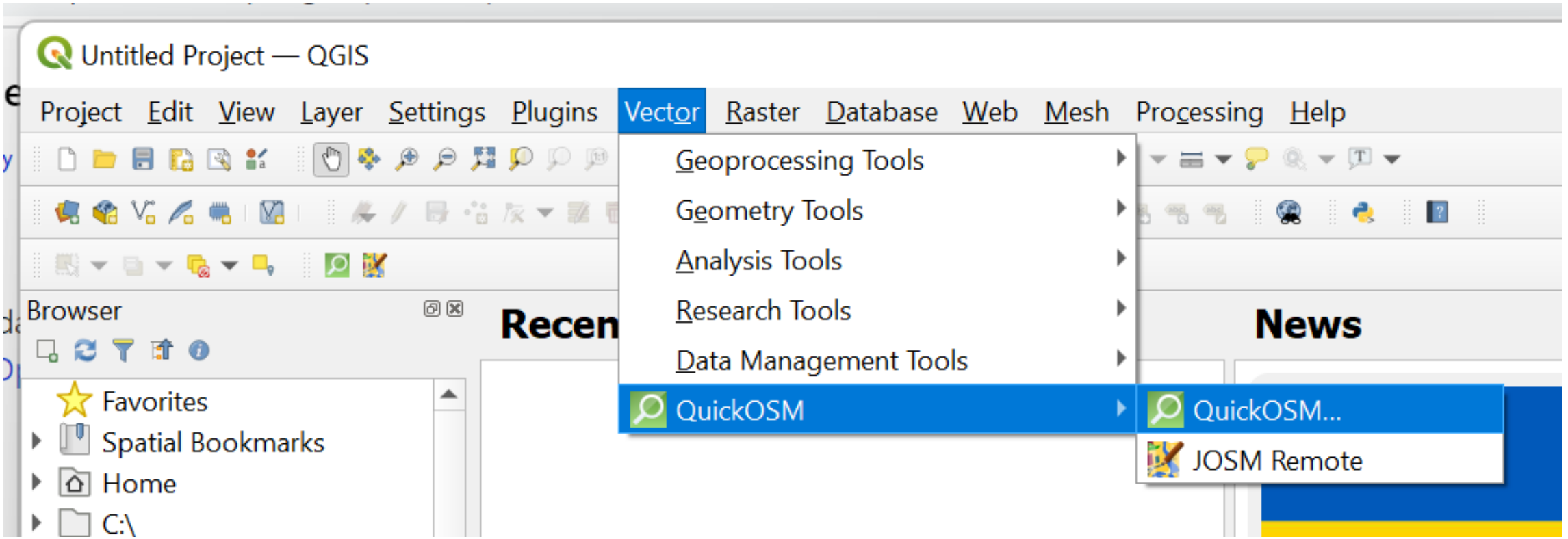
Layers Extent Overview Map



Show in a Map | Convert now!

- In QGIS install QuickOSM plugin
- Add OSM as basemap (under XYZ Tiles)




Untitled Project — QGIS
Project Edit View Layer Settings Plugins Vector Raster Database Web Mesh Processing Help
Geoprocessing Tools
Geometry Tools
Analysis Tools
Research Tools
Data Management Tools
QuickOSM
QuickOSM...
JOSM Remote
Browser
Favorites
Spatial Bookmarks
Home
C:\
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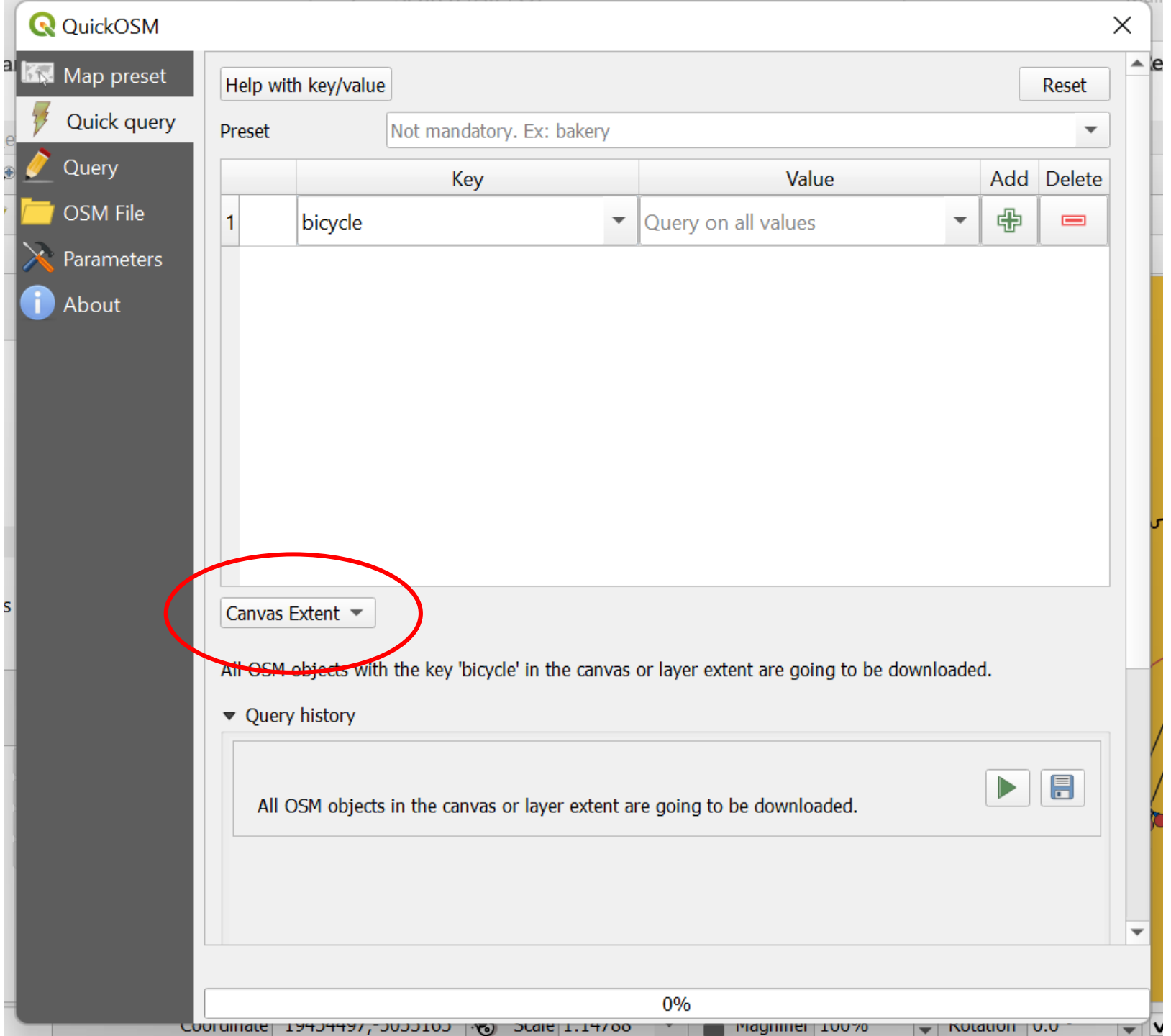
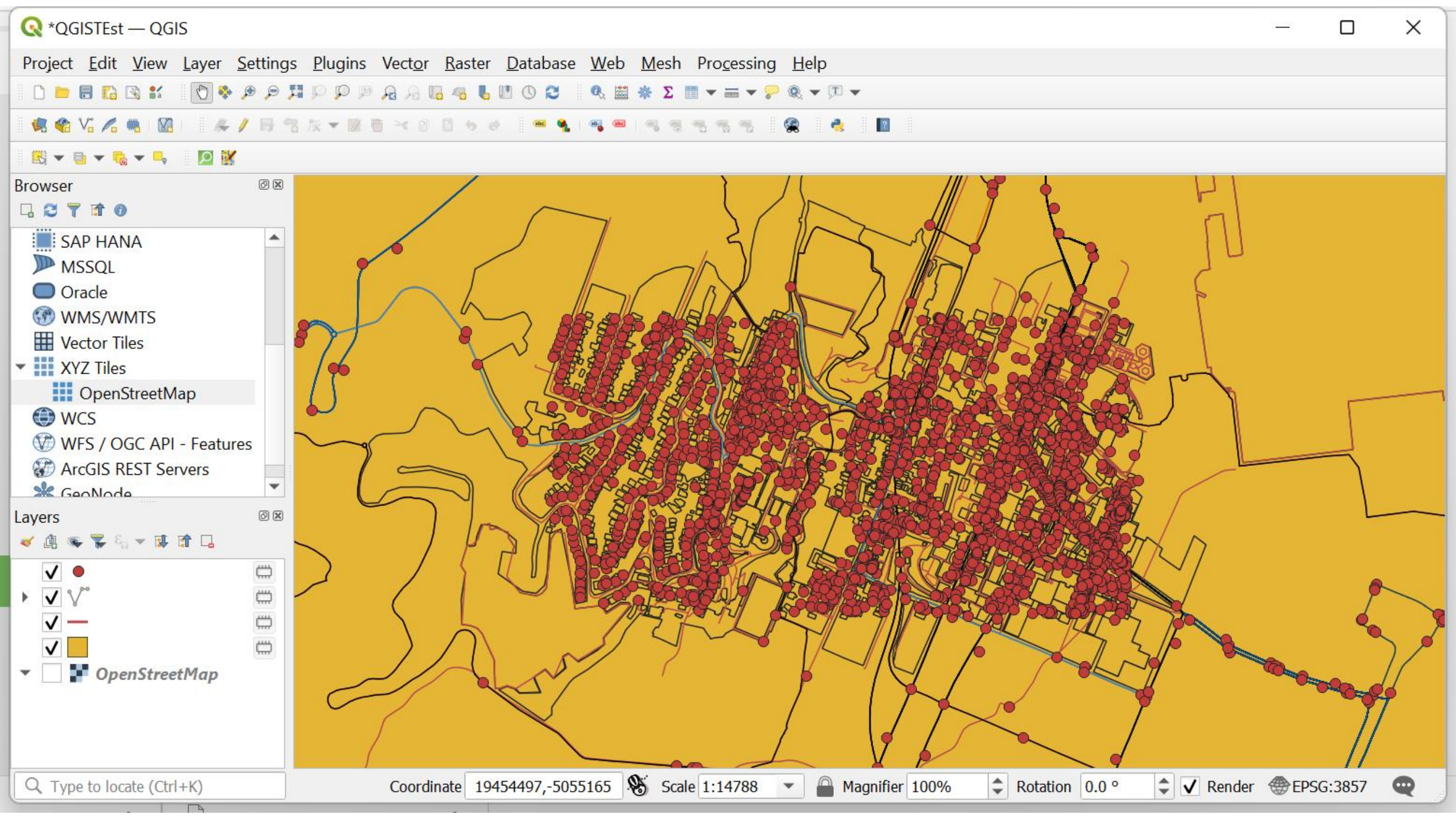
News


QuickOSM
Map preset
Quick query
Query
OSM File
Parameters
About
Help with key/value
Reset
Preset
Not mandatory. Ex: bakery
Key
Value
Add
Delete
1
bicycle
Query on all values
Canvas Extent
All OSM objects with the key 'bicycle' in the canvas or layer extent are going to be downloaded.
Query history
All OSM objects in the canvas or layer extent are going to be downloaded.
0%


*QGISTEst — QGIS
Project Edit View Layer Settings Plugins Vector Raster Database Web Mesh Processing Help
Browser
SAP HANA
MSSQL
Oracle
WMS/WMTS
Vector Tiles
XYZ Tiles
OpenStreetMap
WCS
WFS / OGC API - Features
ArcGIS REST Servers
Layers
OpenStreetMap
Type to locate (Ctrl+K)
Coordinate 19454497,-5055165
Scale 1:14788
Magnifier 100%
Rotation 0.0 °
Render
EPSG:3857

Humanitarian OpenStreetMap Te

hotosm.org

AUDACIOUS PROJECT

WHAT IF WE COULD MAP ONE BILLION PEOPLE CURRENTLY MISSING FROM THE WORLD'S MAPS?

Find Out How >

Mapping our world together

DONATE

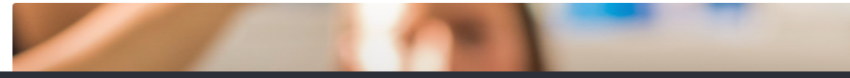
Humanitarian OpenStreetMap Team

WHAT WE DO | OUR WORK | TOOLS & DATA | NEWS | COMMUNITY & ORGANIZATION | PARTNER WITH US | GET INVOLVED

HOT is an international team dedicated to humanitarian action and community development through open mapping.

Learn about what we do >

START MAPPING >



Mail - Mairead de Roiste - Outlo

Explore projects - HOT Tasking M

tasks.hotosm.org/explore

Difficulty level | Projects to map | More filters | Sort by | Search Projects | Show map

Showing 14 of 472

URGENT

#12825

Bangladesh Flood Response 2022, Sylhet- Buildings & Residential

Just within a span of three weeks, the northeastern part of the country has

1238 total contributors

Beginner Mapper

HIGH

#11607

BENGHAZI Digital Base Map Project 2021

OpenStreetMap Libya launches this project In the context of the Libya

2229 total contributors

Intermediate Mapper

HIGH

#11939

Nouakchott city mapping project 2021

OpenStreetMap Mauritania is launching this project as part of the

2285 total contributors

Beginner Mapper

HIGH

#12267

BRAZIL - BREJO DA MADRE DE DEUS - (PE) - BUILDINGS, ROADS,

O Mapeamento na Cidade de Brejo da Madre de Deus/PE - Brasil será

170 total contributors

Intermediate Mapper

HIGH

#12349

BRAZIL - PRAIA BESSA- JOÃO PESSOA (PB) -

HIGH

#12361

Urban Water Scarcity, Enugu, Nigeria: Enugu

HIGH

#12411

BRAZIL - ANGRA DOS REIS-RJ - RISK AREAS

HIGH

#12414

BRAZIL - BOA VIAGEM (CE) - BUILDINGS, POINTS

#12825: Bangladesh Flood Respo

tasks.hotosm.org/projects/12825/tasks

Mapping our world together

hotosm.org

Tasking Manager

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#12825 | OSM Bangladesh

URGENT

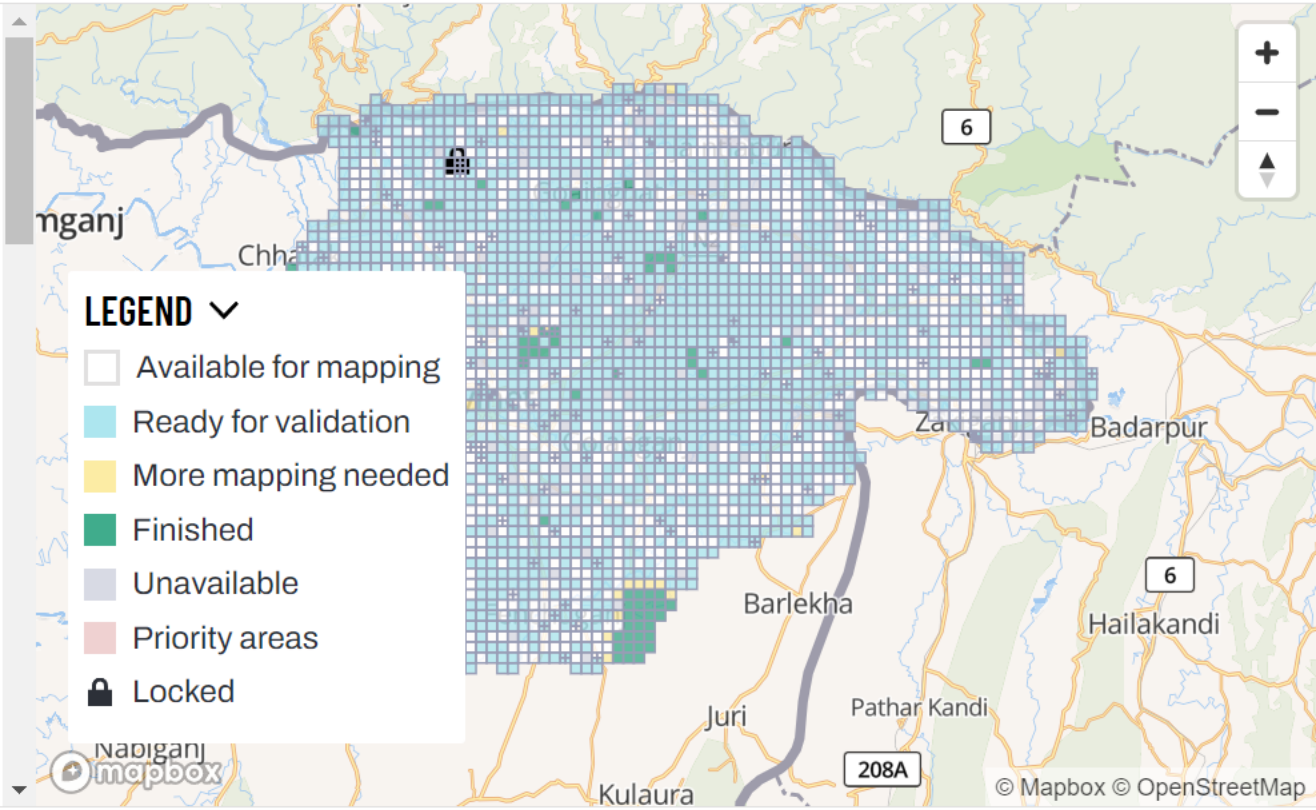
BANGLADESH FLOOD RESPONSE 2022, SYLHET- BUILDINGS & RESIDENTIAL AREA ONLY

Bangladesh Flood Response 2022 · Bangladesh

TASKS INSTRUCTIONS CONTRIBUTIONS

Please trace buildings (building=yes) and Residential areas (landuse=residential) only. It is important to:

- Please do not offset the imagery with the existing data. We request you to align the existing data with the maxar imagery.
- Mark the residential area for a cluster of buildings. For example, mark it as a residential area for 15+ buildings. We will adjust the other boundary in the final



TYPES OF MAPPING

IMAGERY

Maxar Premium

EDITOR

iD Editor

Map a task

#12825: Bangladesh Flood Respo

tasks.hotosm.org/projects/12825/map/?editor=ID#background=Maxar-Premium&map=17.90/24.84470/92.05288

Tasking Manager

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Search features

Search

Inspect | Point | Line | Area | Add Feature | Undo / Redo | Save

Task for project 12825. Do not edit outside of this area!

MAXAR Terms & Feedback

100 m

ts by Binaansim Agnes, Helenbb, Dave not here

2.20.2

Residential areas only.

- Use Maxar Premium satellite imagery for mapping.
- Please do not offset the imagery with the existing data. We request you to align the existing data with the maxar imagery.

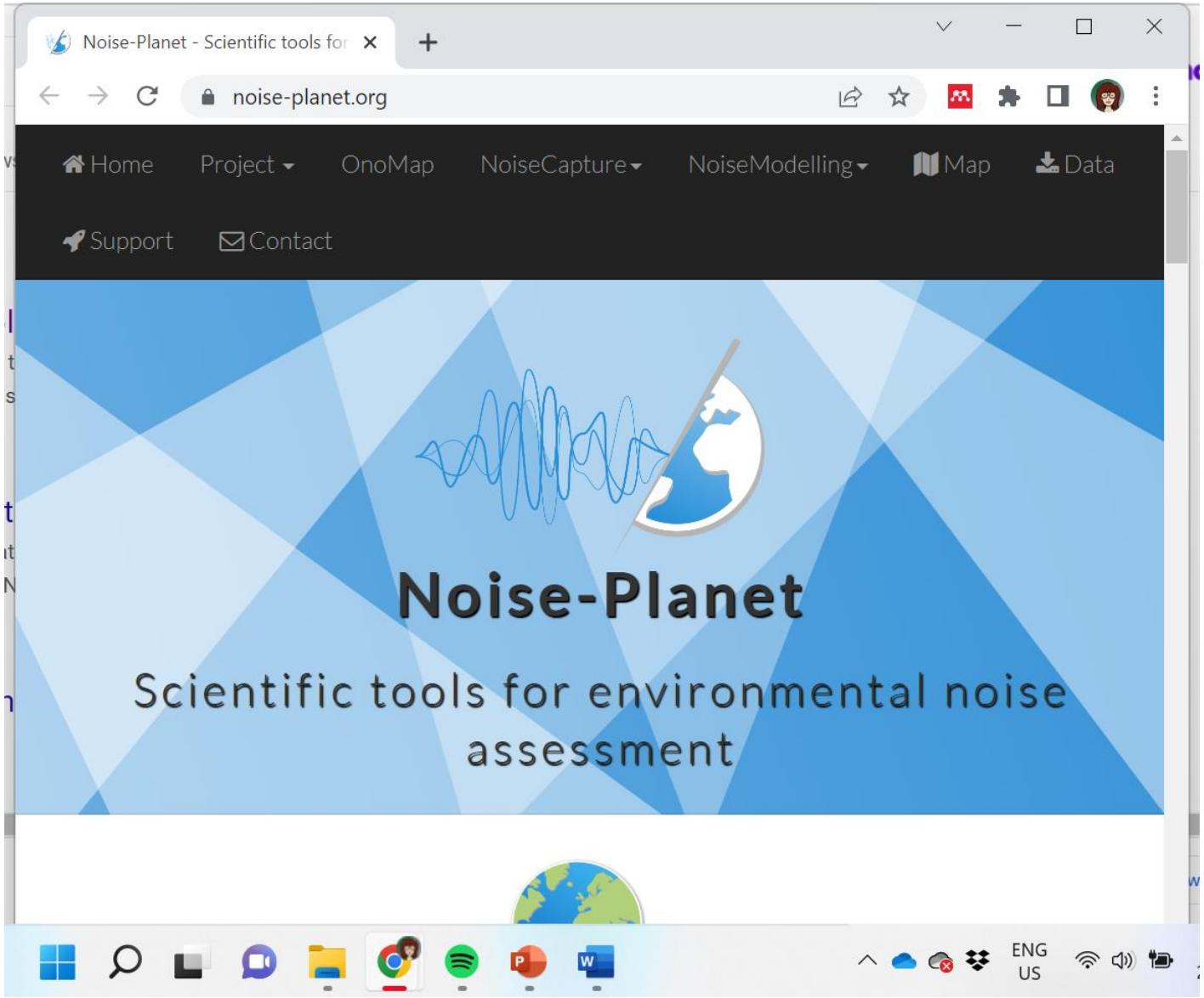
TASK STATUS

Is this task completely mapped?

- Yes
- No
- The imagery is bad

COMMENT

https://noise-planet.org/



Bocher et al. 2017, *Collaborative noise data collected from smartphones*, Data in Brief 14C (2017) pp. 498-503

QGISTEst — QGIS

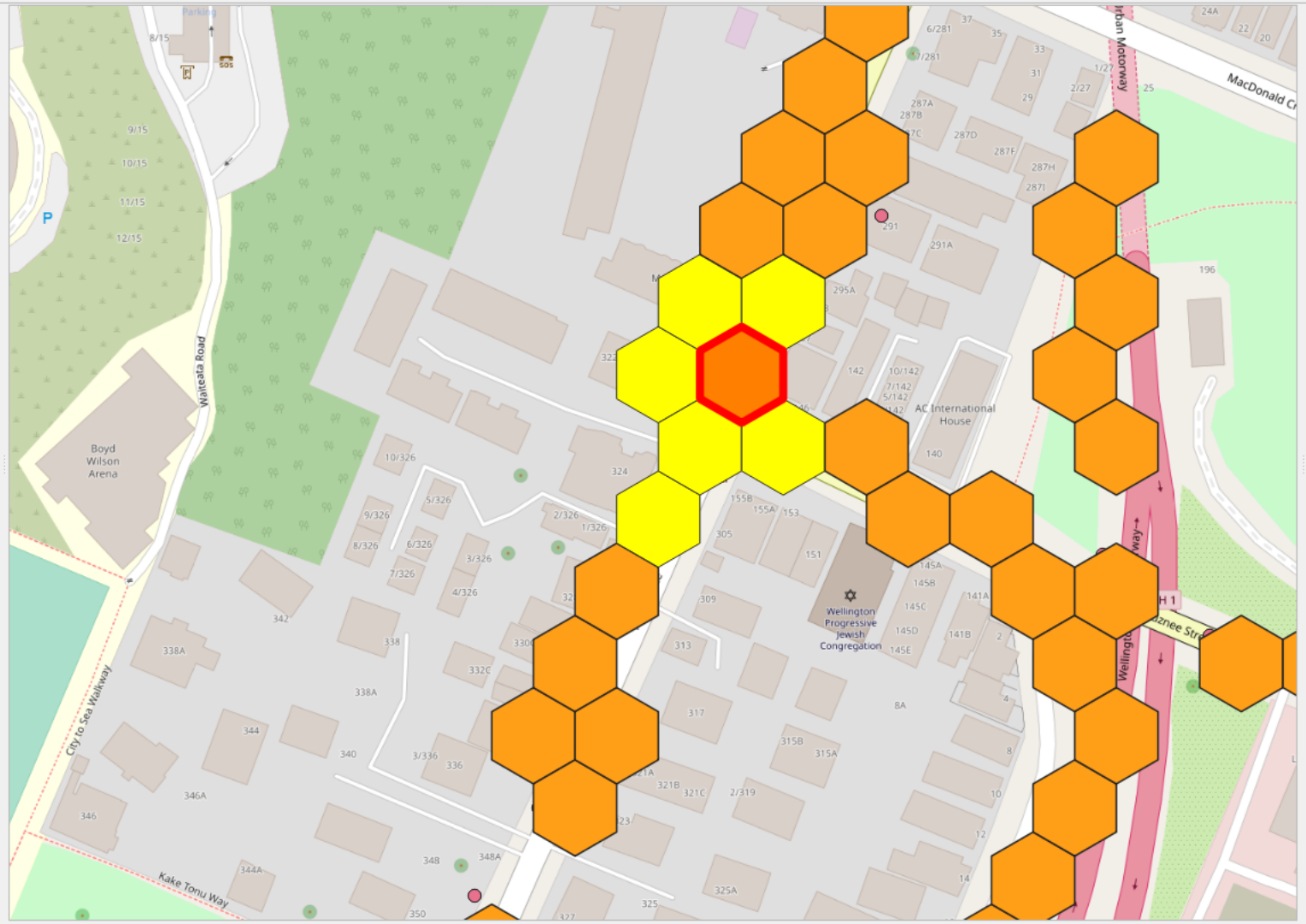
Project Edit View Layer Settings Plugins Vector Raster Database Web Mesh Processing Help

Browser

- Favorites
- Spatial Bookmarks
- Project Home
- Home
- C:\
- GeoPackage
- SpatiaLite
- PostGIS
- SAP HANA
- MSSQL
- Oracle
- WMS/WMTS
- Vector Tiles
- XYZ Tiles

Layers

- New Zealand_Wellingto
- New Zealand_Wellingto
- New Zealand_Wellingto
- New Zealand_Wellingto
- OpenStreetMap



Identify Results

Feature	Value
New Zealand_Wellington_Wellington.areas	
cell_q	861181
(Derived)	
(Actions)	
cell_q	861181
cell_r	-224686
la50	63.74457980667476
laeq	66.18166623109623
lden	0
mean_pleasantness	NULL
measure_count	4
first_measure_ISO_8601	2020-01-07 12:17:08
first_measure_epoch	1578352628000
last_measure_ISO_8601	2020-01-09 17:14:52
last_measure_epoch	1578543292000
leq_profile	0, 0, 0, 0, 0, 0, 0, 0, 0, 0, ...

Mode Current Layer

View Tree

Type to locate (Ctrl+K)

Coordinate 19455269.5,-5055464.0 Scale 1:2016 Magnifier 100% Rotation 0.0 ° Render EPSG:3857