

What is the Humanitarian OpenStreetMap Team?

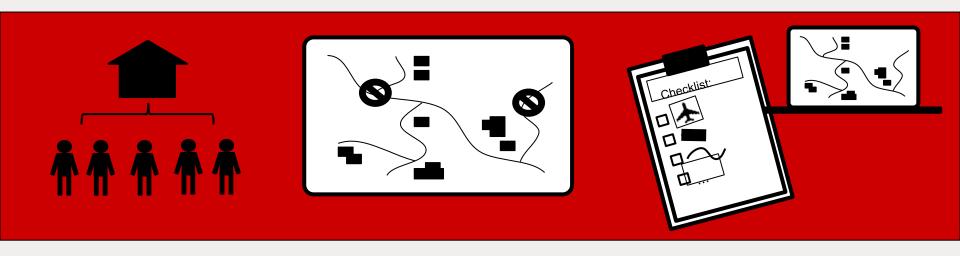






During a crisis, disaster or epidemic, maps are crucial to help responders

Maps Help



Identify areas of high population (building density)

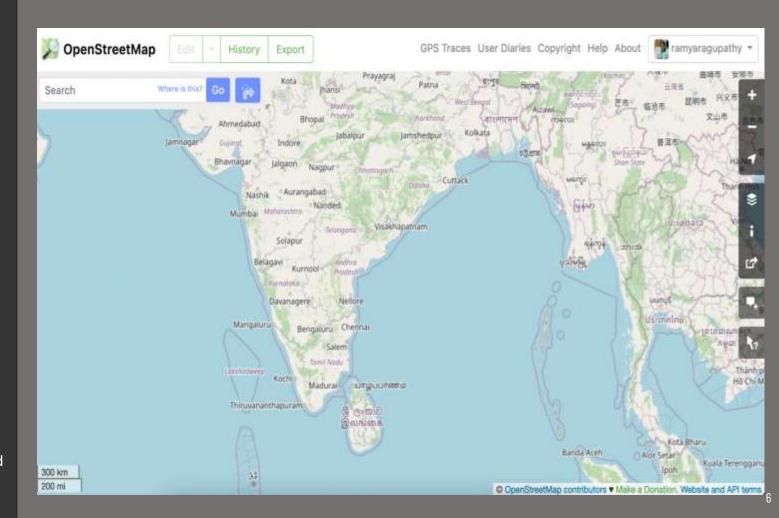
Navigate access routes and safe roads in affected areas

Locate suitable areas for response command posts, shelter and aid provision



Not Everywhere is Mapped - or has Accessible Maps

The Humanitarian OpenStreetMap Team helps solve this problem by coordinating public efforts - to map and label areas affected by disasters



OpenStreetMap

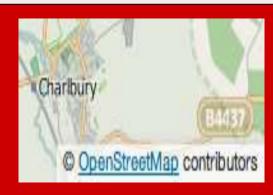
is a collaborative project to create a free editable world map

OpenStreetMap



This collective mapping - or the 'crowdsourcing' of geographic information began in 2004

Created by people for the people - Wikipedia of Maps!



Open Data Commons Open Database License (ODbL)

Can be used in apps, online maps, and printable maps for free - as long as the contributors are credited

OSM WORKS THROUGH

Local knowledge Community organization





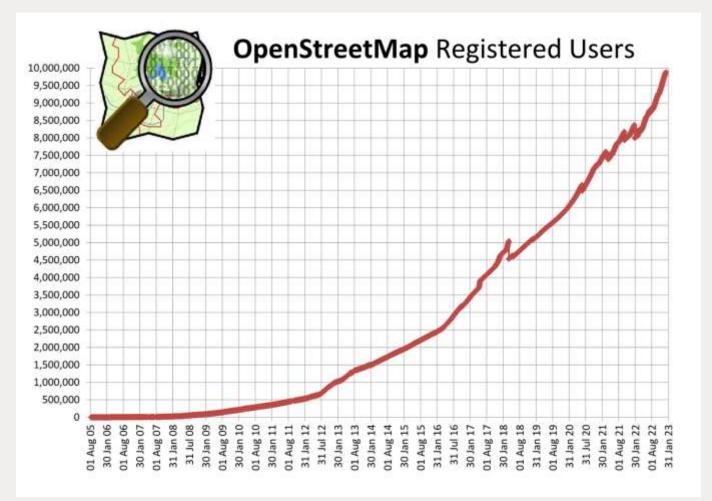
DATA IS

Built by a community of mappers that contribute and maintain data









OSM now has over **10 million** registered users

HOT responses predominantly require mappers to digitise satellite imagery



Obtain up-to-date satellite imagery for the area

Digitise roads, tracks, paths, building, open areas, waterways, etc

Upload the data and see the changes

HOT harnesses the OSM volunteer community and coordinates the mapping of affected areas



Disaster occurs!

HOT asks OSM community to help map affected area

Across the globe the HOT-OSM community map



Mapathon



HOT Tech Tools

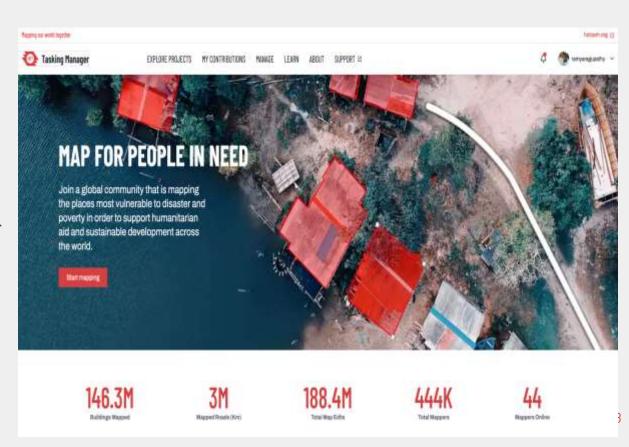
Tasking Manager

Tool for coordination of volunteers and organization of groups to map on OpenStreetMap.

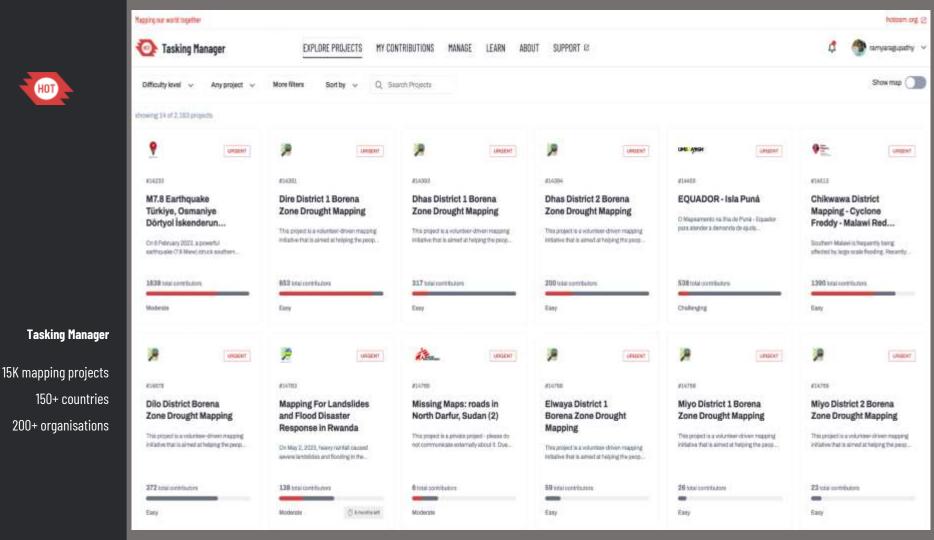
https://tasks.hotosm.org

Widely used within humanitarian organizations, local communities and for mapping teams of large companies.

Free and Open Source Software.









Problems

- Two-minute Tutorial: Buildings
- . Please find the building rooftop and add the building.
- After drawing the outline and tagging as a building, use the 'Q' key in the iD # JOSM editors to "square" the
 corners. We suggest using the Buildings plug-in in JOSM to make building tracing more efficient and fast (use Bfor shortout).
- . Try to avoid the overlapped building and glued to each other.
- . In iD editor, holding down the "alt" key will keep nodes from "snapping" to each other and accidentally connecting.
- . Do not delete any data.

Changeset comment: #hotosm-project-8722 #cycloneAmphan



Cyclone Amphan

55K buildings

969 kms of roads

679 mappers

G

TYPES OF MAPPING

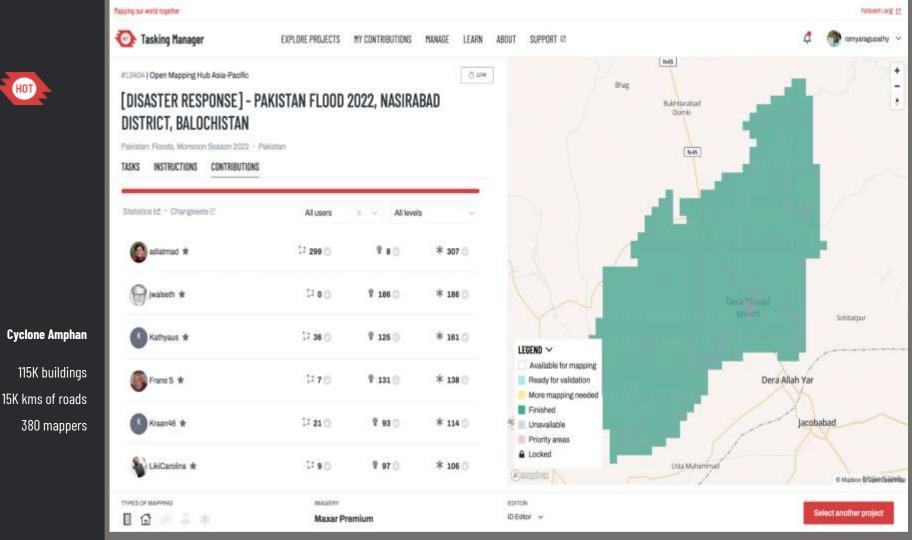


MAGERY

Any available source

ID Editor v

Validate a task

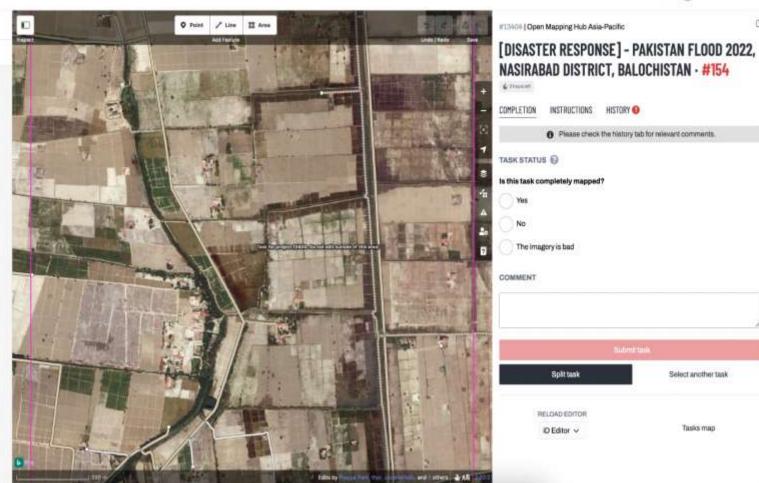


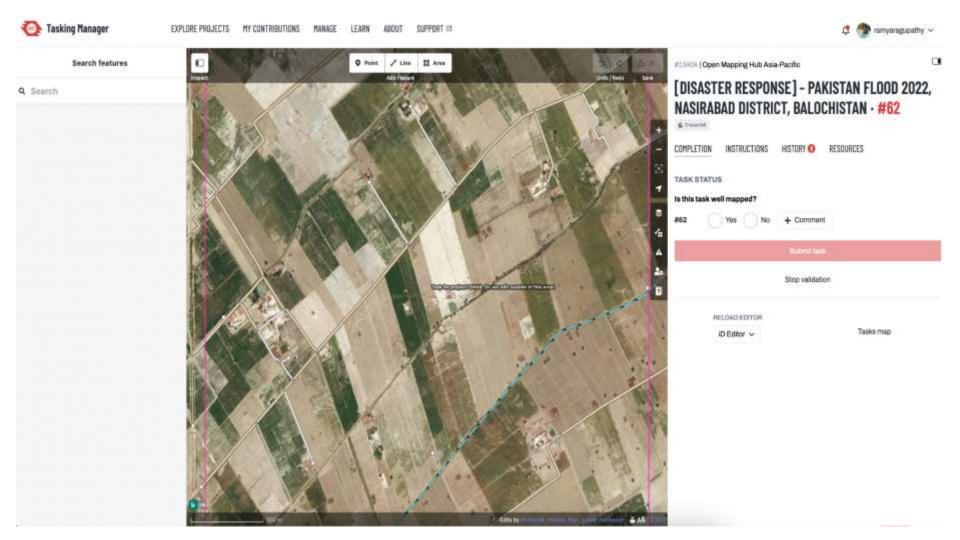
Select another task

Tasks map

Search features

Q Search

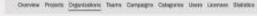






EXPLORE PROJECTS MY CONTRIBUTIONS MAKING LEARN ABOUT SUPPORT IT

d mercapasty v









ACTION FOR ECONOMIC REFORMS

АОМИНЕТНАТОВЕ



WADF

ADF HAITE

ADMINISTRATORS



AFRICAN ASSOCIATION FOR GEOSPATIAL DEVELOPMENT (AGEDS)

ADMINISTRATIONS.







AKROS

ADMINISTRATORS.







AMARA HUE



ADMINISTRATORS





AMERICAN RED CROSS

ADMINISTRATORS.







BRIDGES TO PROSPERITY

ADMINISTRATORS.





BRITISH RED CROSS

AUMINITERATIONS.





BYTEXPERIENCE

ADMINISTRATIONS







CANADIAN RED CROSS

ADMINISTRATORS





CANDA DE TOLDA

ADMINISTRATIONS.





CARTONG

ACM MUTHATORS



Once areas are mapped, data is used by organisations to respond



HOT-OSM community map areas

Map data is held in the OSM database Organisations use OSM data to plan and coordinate their response efforts

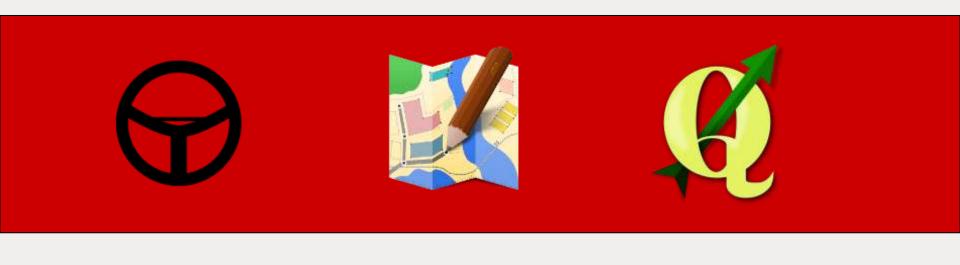
How do we get the data out of OpenStreetMap?



HOT-OSM community map areas

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data to plan and
coordinate their response
efforts

OpenStreetMap Tools



Overpass Turbo

JOSM

QGIS

Download OpenStreetMap Data

The Export Tool is an open service that creates customized extracts of up-to-date OSM data in various file formats.

Download and use the data simply by crediting the OpenStreetMap contributors.

Start Exporting

Export Tool

Custom OSM Extracts

Get Started

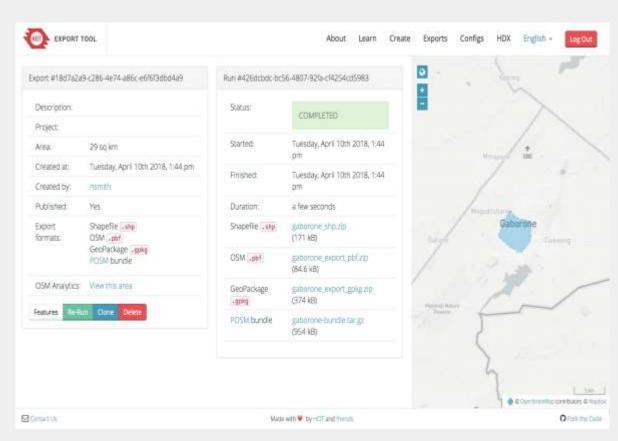
Sign up for an OSM account to start creating exports. Our Quick Start guide will get you using the tool straight away, or read about the Export Tool in more detail through the Learn page.

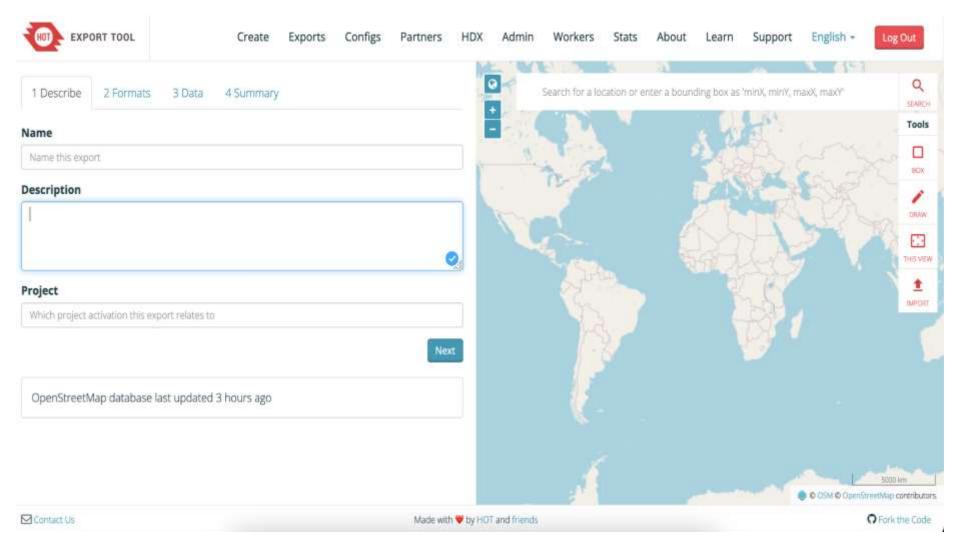
Export Tool

The application allows anyone to create custom extracts of OSM based on the area and the type of data to be accessed.

Access up-to-date geospatial information from OpenStreetMap's 10 million users

https://export.hotosm.org/









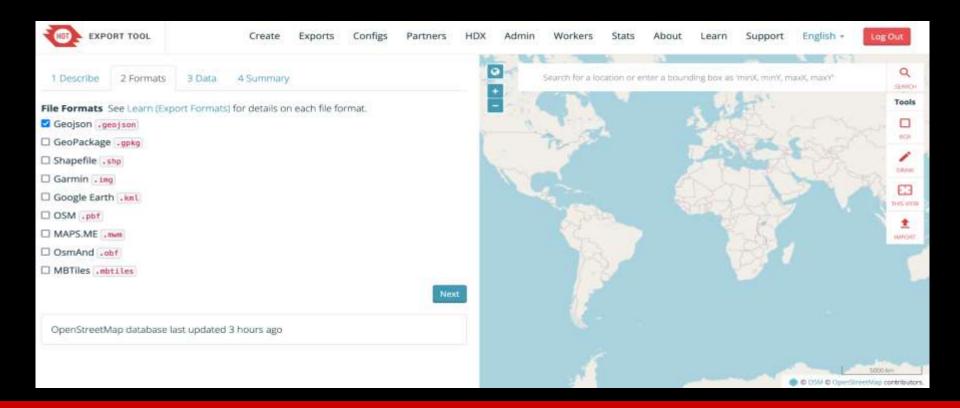




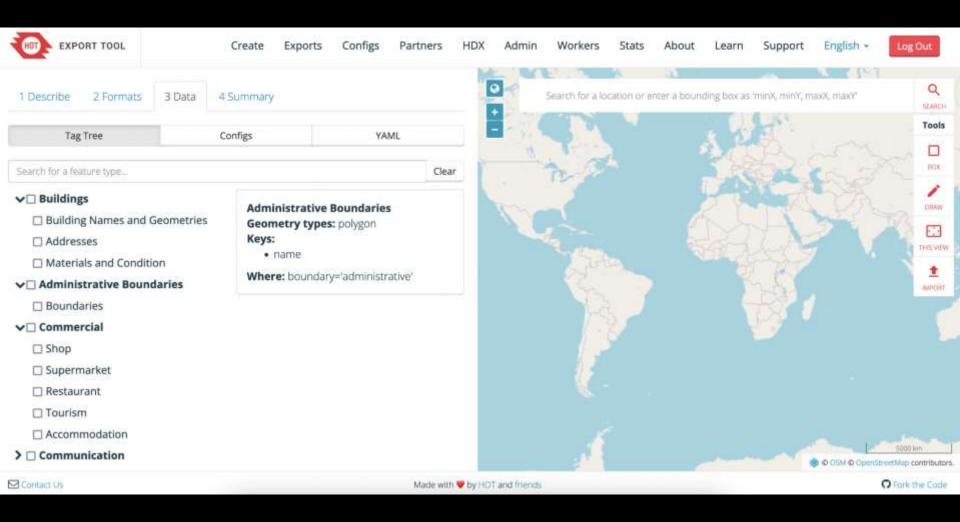




OSM data in different file formats



OSM data in different file formats





Create

Exports

Configs

Partners

Admin

Workers

Stats

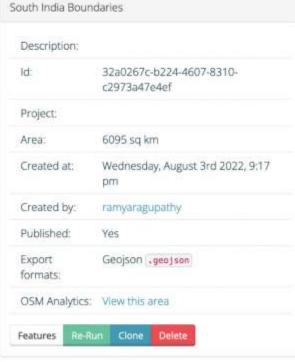
About

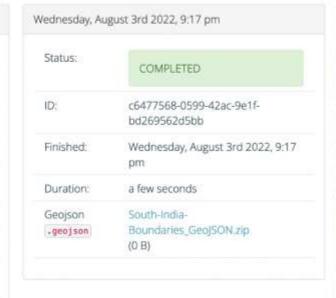
Learn

Support

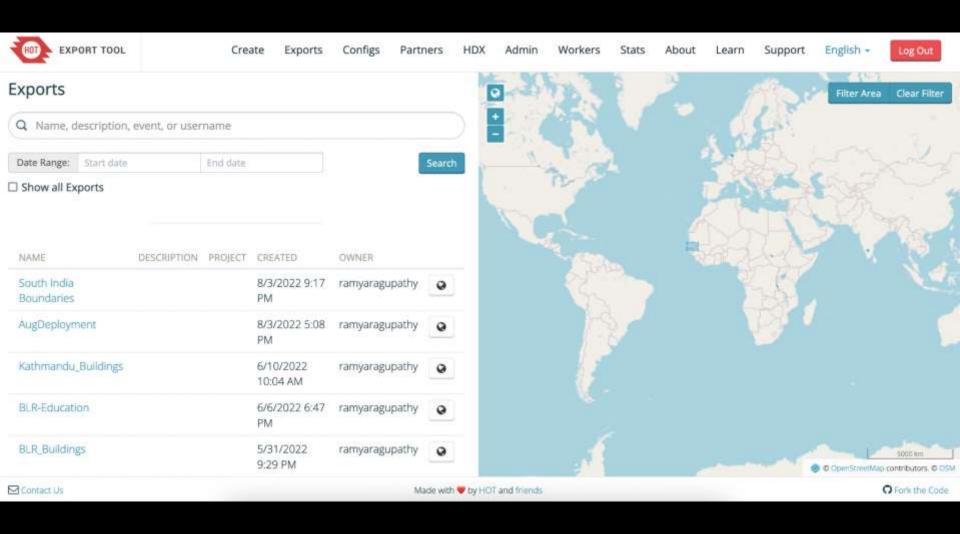
English -

Log Out





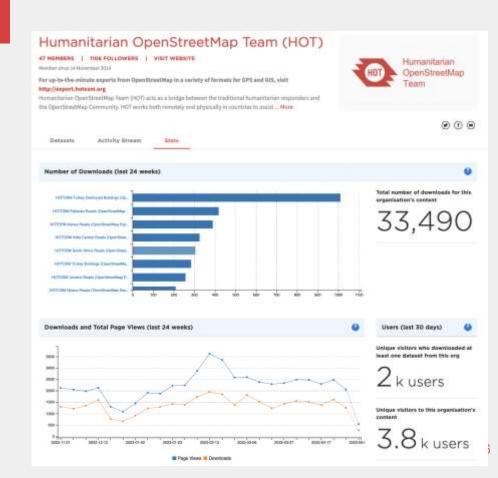




Export Tool

HDX is a product of the <u>United Nations</u>
Office for the Coordination of
Humanitarian Affairs (OCHA)

Export Tool updates **500+ data exports** on a weekly basis for the HDX platform





OpenAerialMap

Create capacity for damage assessments and up to date maps



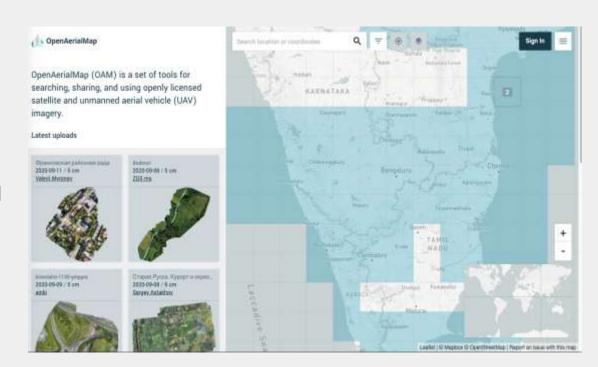
OpenAerialMap (OAM)

OAM is distributed catalogue and hosting service of imagery.

https://openaerialmap.org/

A user will be able to go to OAM and search to see what free imagery is available in the area they are interested in.

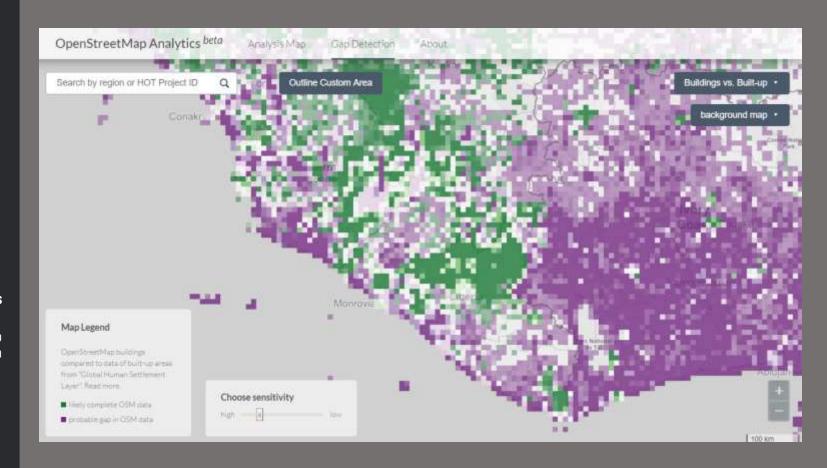
Imagery in this case means georeferenced photos from satellites, UAVs or other aircraft.





OSM Analytics

Coverage & Gap Detection

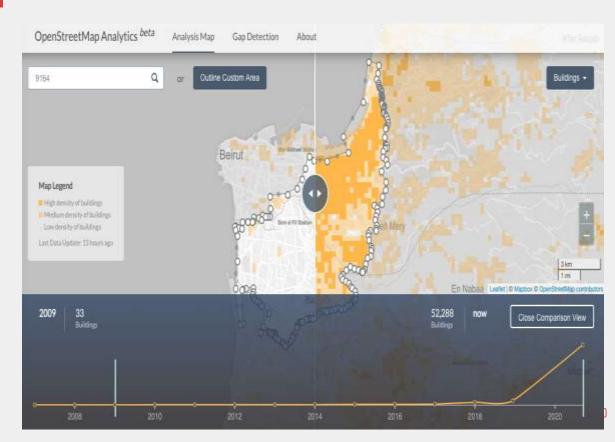


OSM Analytics

An online platform for real time analysis and visualization of the OSM database.

Lets you explore the entire OSM, from global to local scale and understand how the data was created over a time period.

https://osm-analytics.org/

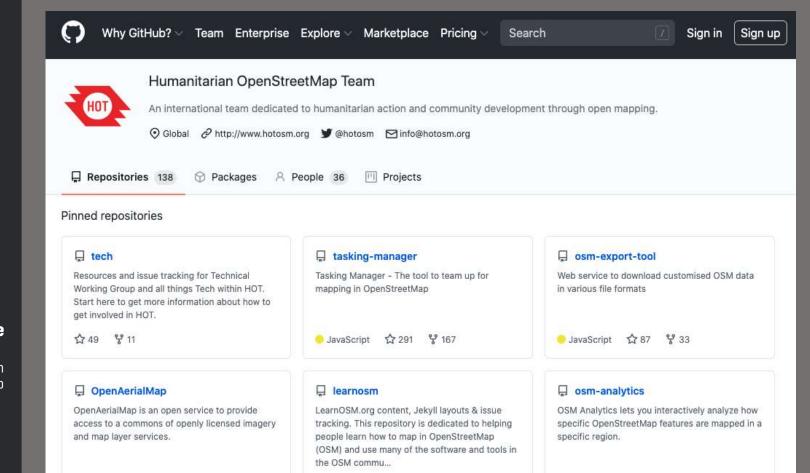




Open Source

☆ 171 ¥ 20

All our code is open on GitHub



¥ 30

JavaScript ☆ 80





Internship programs





Reach out to us

tech@hotosm.org