

The collective power: HOT's approach to building open geospatial technology

Speaker: Petya Kangalova, Humanitarian OpenStreetMap Team

Thursday 7 September, 11:15-11:45





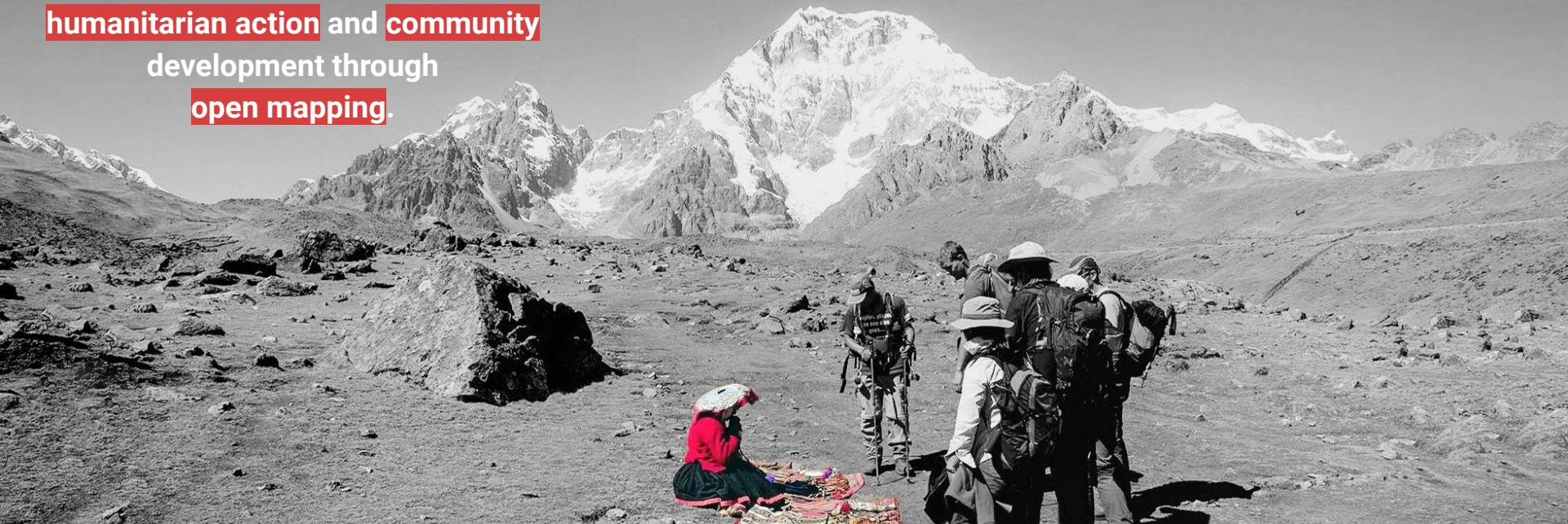
HOT

Humanitarian
OpenStreetMap
Team



Humanitarian
OpenStreetMap
Team

We are international team dedicated to
humanitarian action and community
development through
open mapping.





Humanitarian
OpenStreetMap
Team

Our mission is to ensure the that the local, community-sourced map data are accessible and utilised when decision are made.





Support humanitarian response by creating open source maps and data to respond to disasters and reach target communities



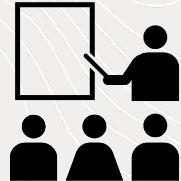
Mobilize contributors to generate map data for development and humanitarian aid



Support OSM communities to prepare for and respond to disasters and local development challenges



Partnerships:
Co-create maps for impact with organizations worldwide.



Capacity development: Provide mentoring, internships, peer-training, skillsharing

WHAT WE DO



Grantmaking for Open Mapping Organisations and Communities to address local challenges



Tech: Develop free, user-friendly open source mapping tools



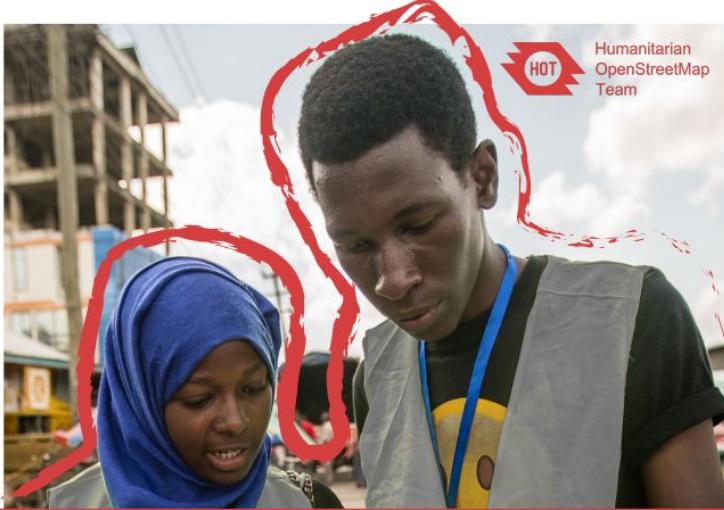
HOT is strengthening OpenStreetMap communities & open data in 4 priority regions



HOT

Humanitarian OpenStreetMap Team - 2023





IMPACT REPORT 2022 - 2023

MAPPING OUR WORLD TOGETHER



Ours is a Global Effort

HIGHLIGHTED PROJECTS AROUND THE WORLD



645,000 MAPPERS*
3,000 PROJECTS
148 PARTNERSHIPS
52 COUNTRIES MAPPED

AREA HOME TO



707 MILLION PEOPLE



The Power of Collective Intelligence



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HOT's Tech and Innovation Projects



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Key HOT products enabling COLLECTIVE Mapping

OpenAerialMap (OAM)

<https://openaerialmap.org/>

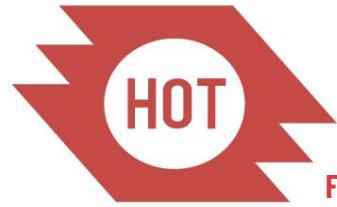
The image shows the OpenAerialMap (OAM) website and a world map interface. On the left, there's a sidebar with the OAM logo and a brief description: "OpenAerialMap (OAM) is a set of tools for searching, sharing, and using openly licensed satellite and unmanned aerial vehicle (UAV) imagery." Below this is a "Latest uploads" section featuring four thumbnail images of aerial photographs from different locations: 1018篮球场(L), 松风阁 Taoyuan Park, Bantian - Huangjinshan Park, and Songshan Lake Scenic Park. Each thumbnail includes a timestamp, resolution, and the name of the uploader, Emmanuel A. Otchere. To the right of the sidebar is a world map where countries are shaded in different tones of blue, indicating the availability of aerial imagery. The map includes labels for major countries and regions like North America, South America, Europe, Africa, and Asia. A search bar at the top of the map interface allows users to search for specific locations or coordinates.

Key HOT products enabling COLLECTIVE Mapping

Tasking Manager

<https://tasks.hotosm.org/>

The screenshot shows the homepage of the HOT Tasking Manager. At the top, there is a navigation bar with links for "EXPLORER PROJECTS", "LEARN", "ABOUT", "SUPPORT", "English", "Log in", and "Sign up". The main visual is an aerial photograph of a rural area with several red-roofed houses. Overlaid on this image is the text "MAP FOR PEOPLE IN NEED". Below this, a paragraph reads: "Join a global community that is mapping the places most vulnerable to disaster and poverty in order to support humanitarian aid and sustainable development across the world." At the bottom left, there are two buttons: "Start mapping" and "Join the community".



FMTM

Field Mapping Tasking Manager
- a HOT experiment

Status: deployment



*A coordination tool for
organised field mapping*

- based on all the best free & open field mapping tool



**fAlr**

LEARN TRAINING DATASETS AI MODELS START MAPPING DOCUMENTATION

HOT

Status: alpha stage

+

-



fAlr

The local & Open
AI-assisted mapping tool

>> GitHub <<

[Blog about fAlr](#)

hotosm.org/tech-blog/hot-tech-talks-fair/

Key HOT products enabling COLLECTIVE Mapping

Export Tool

<https://export.hotosm.org/en/v3/>

The screenshot shows the HOT Export Tool interface. On the left, a sidebar contains fields for 'Name' (Name this export), 'Description' (a large text area), and 'Project' (Which project activation this export relates to). A 'Next' button is at the bottom of this sidebar. On the right, there is a world map with country boundaries. A search bar at the top of the map area says 'Search for a location or enter a bounding box as 'minX, minY, maxX, maxY''. To the right of the map are several tools: 'SEARCH' (with a magnifying glass icon), 'BOX' (with a rectangle icon), 'DRAW' (with a pencil icon), 'THIS VIEW' (with a square icon), and 'IMPORT' (with an upward arrow icon). At the bottom of the map, there is a scale bar labeled '5000 km'. The footer of the page includes links for 'Contact Us', 'Made with ❤ by HOT and friends', and 'Fork the G'.



How to Get Involved

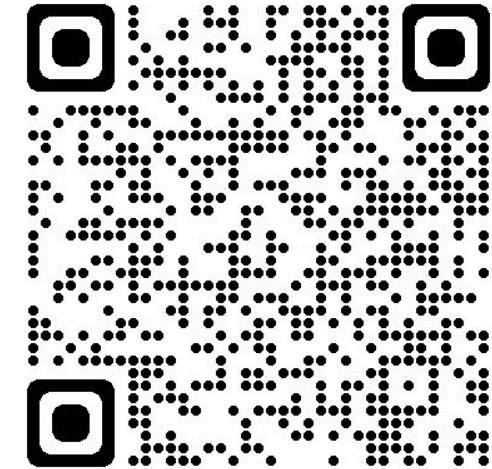


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HOTOSM Open Source Projects

Different ways to get involved:

- **Advocate & Educate:** the power of open source contribution
- **Test & improve user experience:** test our products, share your user feedback, design
- **Improve the knowledge base:** documentation on Github, product tutorials, etc.
- **Translate:** helping an open source project with translation
- **Github & code contributions:** report bugs, raise issues, PRs.



HOTOSM Github Repo



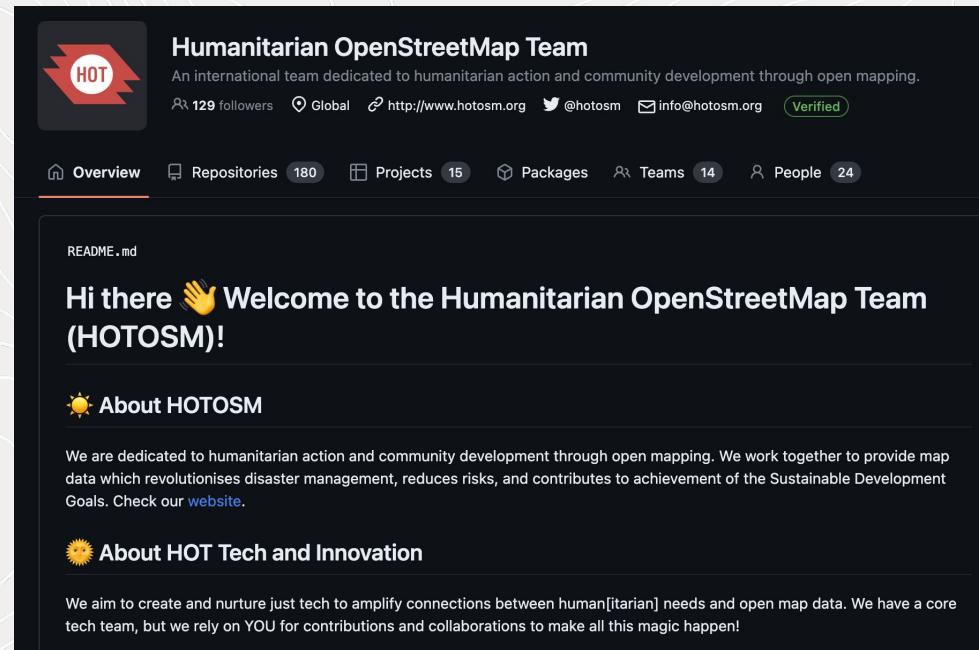
Where to begin on Github?

Step 1: Register on Github

Step 2: Look at the pinned repositories

Step 3: Read contributor guidelines

Step 4: Find "good-first" issues



The screenshot shows the GitHub profile page for the "Humanitarian OpenStreetMap Team". The profile picture is a red square with a white "HOT" logo. The team name is "Humanitarian OpenStreetMap Team" with a subtitle "An international team dedicated to humanitarian action and community development through open mapping." Below the profile picture, there are statistics: 129 followers, Global location, a link to <http://www.hotosm.org>, and social media links for Twitter (@hotosm) and email (info@hotosm.org). A green "Verified" badge is present. The navigation bar includes "Overview", "Repositories 180", "Projects 15", "Packages", "Teams 14", and "People 24". The main content area shows a file named "README.md" with the following text:

Hi there 🙌 Welcome to the Humanitarian OpenStreetMap Team (HOTOSM)!

About HOTOSM

We are dedicated to humanitarian action and community development through open mapping. We work together to provide map data which revolutionises disaster management, reduces risks, and contributes to achievement of the Sustainable Development Goals. Check our [website](#).

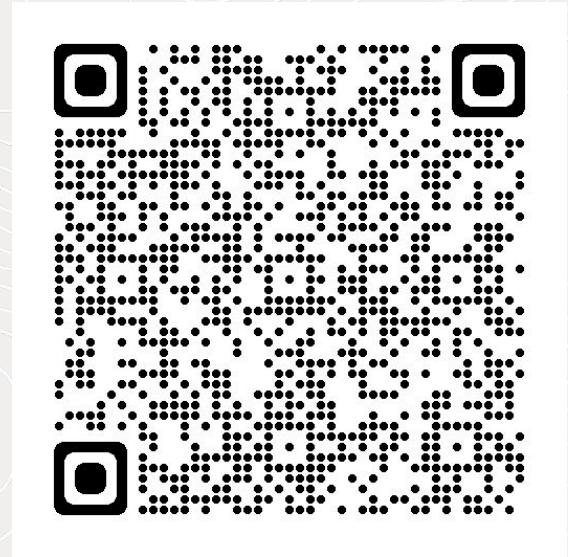
About HOT Tech and Innovation

We aim to create and nurture just tech to amplify connections between human[itarian] needs and open map data. We have a core tech team, but we rely on YOU for contributions and collaborations to make all this magic happen!



Stay in touch

- **Github:** <https://github.com/hotosm>
- **HOT Tech and Innovation WG:** next one on 12th of September!
- **Slack:** <https://slack.hotosm.org>
- **Blogs:** read our blogs on [OSM Discourse](#) & [hot_tech blogs](#)
- **Twitter:** hotosm
- **Email:** tech@hotosm.org and petya.kangalova@hotosm.org



**HOT Tech & Innovation
WG!**

Join us!





Questions?



HOT