

OAM Project Meeting, Washington DC 2015

The Humanitarian OpenStreetMap Team is organizing a two-day meeting, following the HOT Summit (<http://summit.hotosm.org>), to discuss the current development and roadmap of the OpenAerialMap (OAM). The idea of creating an online system for indexing, hosting and sharing open aerial imagery has been around for several years. HOT has recently received funding for developing the first instance of such system, and is inviting community, research and industry partners to participate and advise while the project is being implemented.

Date and Time: 3-4 May 2015, 09:00-17:00 hrs

Location: OpenGovHub at 1110 Vermont Ave NW #500, Washington, DC 20005

Contact: Cristiano at (619) 630-7079 or cristiano.giovando@hotosm.org

Participants

- Cristiano Giovando, (Humanitarian OpenStreetMap Team) SUN+MON
- Kate Chapman (Cadasta Foundation) SUN+MON
- Nate Smith (Development Seed) SUN+MON
- Chris Holmes (Planet Labs) SUN
- Rob Emanuele (Azavea) SUN+MON
- Mhairi O'Hara (Humanitarian OpenStreetMap Team) SUN+MON
- Dražen Odošić (Humanitarian OpenStreetMap Team) SUN+MON
- Stephen Mather (OpenDroneMap) SUN
- Ian Schuler (Development Seed) SUN
- Marc Farra (Development Seed) SUN+MON
- Alireza Jazayeri (Development Seed) SUN
- Katie Filbert SUN
- Franziska Parton SUN
- Patrick Dufour (HIU/Mapgive) SUN
- Ricardo Mestre (Development Seed) SUN

Tentative Agenda

- Sunday 3-May-2015 (Sydney Room)
 - 09:00 Welcome and introduction of participants
 - 09:30 History of OAM, budget and updates on 2015 developments
 - 10:00 Open questions and discussion
 - How much we should host, vs. allowing people to host (IAN)
 - We need to make it simple for other partners to participate.
 - At the beginning HOT will host the initial node
 - Architecture
 - Centralized vs. de-centralized



- Centralized catalog with one HOT node to start, and other big players to plug-in
- What happens when a dataset URI is removed?
 - Catalog will check on status of nodes
 - Smart and dumb catalog
 - Dumb catalog will just rely on sources to be available
 - Smart catalog will check on sources
- Basic providers could just be object stores
 - Stores are
- Open imagery network (OIN) and OAM will just be a catalog on top of it.
 - OIN is any image store ready to go into OAM
 - Tile/processing nodes will be not be indexed?
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- Feedback and user contribution to the
- How do we incorporate e.g. other global dataset Landsat
 - Object stores to be indexed into catalog but not necessarily processed/tiled. List of URIs to direct requests.
- Use cases
 - We need to look beyond the humanitarian case specifically for sustainability of the catalog
 - use cases
 - development and preparedness
 - crisis humanitarian use case
 - What encourages people to share?
 - The local/offline use case: not in the scope of first scope
 - Catalog or local node to be able to cache local
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- 10:00 Report from Development Seed on API, metadata schema, imagery catalog development. Feedback and discussion.
- 12:30 Lunch (offered by Cadasta Foundation).
- 13:30 Presentation by Matt Cechini
- 13:30 Roadmap, standards, and architecture design.
- 15:30 Project sustainability strategy, funding beyond the HIF grant, partnerships with government and industry groups.
- 17:00 End of first day.
- Monday 4-May-2015 (Monterrey and Busan rooms)
 - 9:00 Recap from previous day
 - 9:30 Discussion about imagery licensing in OAM
 - 10:30 Definition and description of use cases (in two groups)
 - 12:30 Lunch (offered by Cadasta Foundation)



- 13:30 Working group on OAM server requirements and contract
- 15:30 Features wishlist, GitHub issue tags, and the future of OAM
- 17:00 End of second day

- Other items for discussion, to add to the agenda where appropriate
 - How value is continuing to be created, both from the perspective of imagery providers and from imagery users.
 - Discussion about CSW standards and discovery federation
 - Relationship with OpenDroneMap and other UAS image processing software
 - Presentation on OAM related projects, imagery catalogs, imagery servers
 - MapReduce processing for OAM: MrGeo and MR4C open source

Goals of the two-day meeting

1. Reviewed draft of the OAM API
2. Diagram and description of the HOT hosted OAM catalog and node
3. Simple set of instructions for how other providers can participate
4. Description on how the OAM catalog will index other sources
5. Specifications and requirements for the processing node development contract

Notes

Funding

- Donors are interested to fund the project

OAM Catalog

- Allow an authenticated user to select

Links:

Initial notes about the QGIS OAM plugin:

<https://docs.google.com/document/d/1mMpOwAe6T8n1umVdo2Xrmsx2FjGneWBpeRmkEq8ebcl/edit#heading=h.m4hr7s5e3nzt>

GitHub for openaerialmap.org Website:

<https://github.com/hotosm/openaerialmap.org>

Github for OpenAerialMap:

<https://github.com/hotosm/OpenAerialMap>

Presentation by NASA:

https://drive.google.com/file/d/0B9R6_KGwXUFBdktXUXVrUTZvcE0/view?usp=sharing

Day 1 discussion:



<http://socrates.io/#IM0xznM>

OAM Processing Node requirements:

<https://docs.google.com/document/d/1QXRkQS9wQY47Yeh5MVE9zRpcQV3NCNiAgC1sVNeA0VU/edit?usp=sharing>

Open Imagery Network:

<https://docs.google.com/document/d/1DaPwkhqr4E2yytrHKFJOSSFhlzOPatEduGwQMzRP2Y/edit?usp=sharing>

OIN and OAM Metadata

https://docs.google.com/spreadsheets/d/1KgnmP_OGmp7CD0m211ivBclOOffOBRpYyS3wR8Se_E/edit?usp=sharing

For any question and to learn more about OpenAerialMap please email

openaerialmap@hotosm.org or visit <https://github.com/hotosm/OpenAerialMap>