

# OpenStreetMap (OSM in Myanmar)



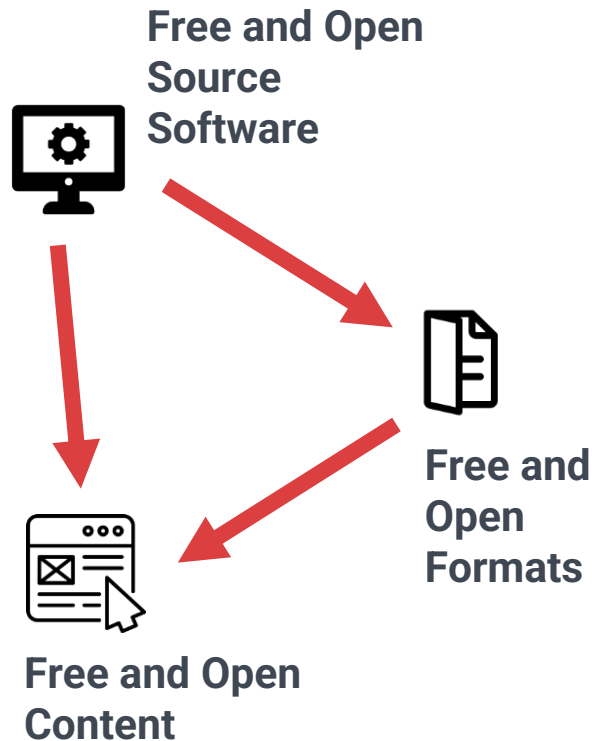
# Open Street Map Introduction

- OpenStreetMap (OSM) သည် ကွန်ပျူတာအသုံးပြုမြေပုံရေးဆွဲခြင်းနှင့်မျှဝေခြင်းတို့အတွက် အသုံးဝင်သောနည်းပညာဆိုင်ရာကိရိယာတစ်ခု။
- လူတိုင်းပါဝင်ရေးဆွဲနိုင်ပြီး လူထောင်ပေါင်းများစွာမှနေ့စဉ်နှင့်အမျှ ပါဝင်ဖြည့်စွက်လျက်ရှိသည်။
- အသုံးပြုသူများသည် စာရွက်ပေါ်ထက် ကွန်ပျူတာပေါ်တွင်မြေပုံရေးဆွဲရခြင်းဖြစ်သည်။
- OSM အသုံးပြုရေးဆွဲရာတွင်လည်း လမ်းများ၊ ကွင်းပြင်များအတွက် မျဉ်းကြောင်းများ၊ ကျောင်းနှင့်ဆေးရုံတို့အတွက် သင်္ကေတများ စသဖြင့်ရေးဆွဲဖော်ပြ၏။
- **အရေးကြီးသောအချက်မှာ-**
  - OSM အသုံးပြုရေးဆွဲသောမြေပုံများကို အင်တာနက်ချိတ်ဆက်သိမ်းဆည်းအသုံးပြုနိုင်ပြီး မည်သူမဆို အချိန်တိုင်း အခမဲ့ ရယူသုံးစွဲနိုင်ခြင်းပင်ဖြစ်သည်။

Note: အခြားသော Map services များဖြစ်သည့် (google, esri etc.) အခမဲ့သုံးစွဲ၍မရပါ (google, esri etc).

# Why use OpenStreetMap?

- Unlike any other crowd-sourced mapping projects, OpenStreetMap is **free** and **open**
- OpenStreetMap is published under an **open licence**, that allows anyone to access, use and share the data as long as you:
  - Attribute
  - Share-alike
  - Keep open



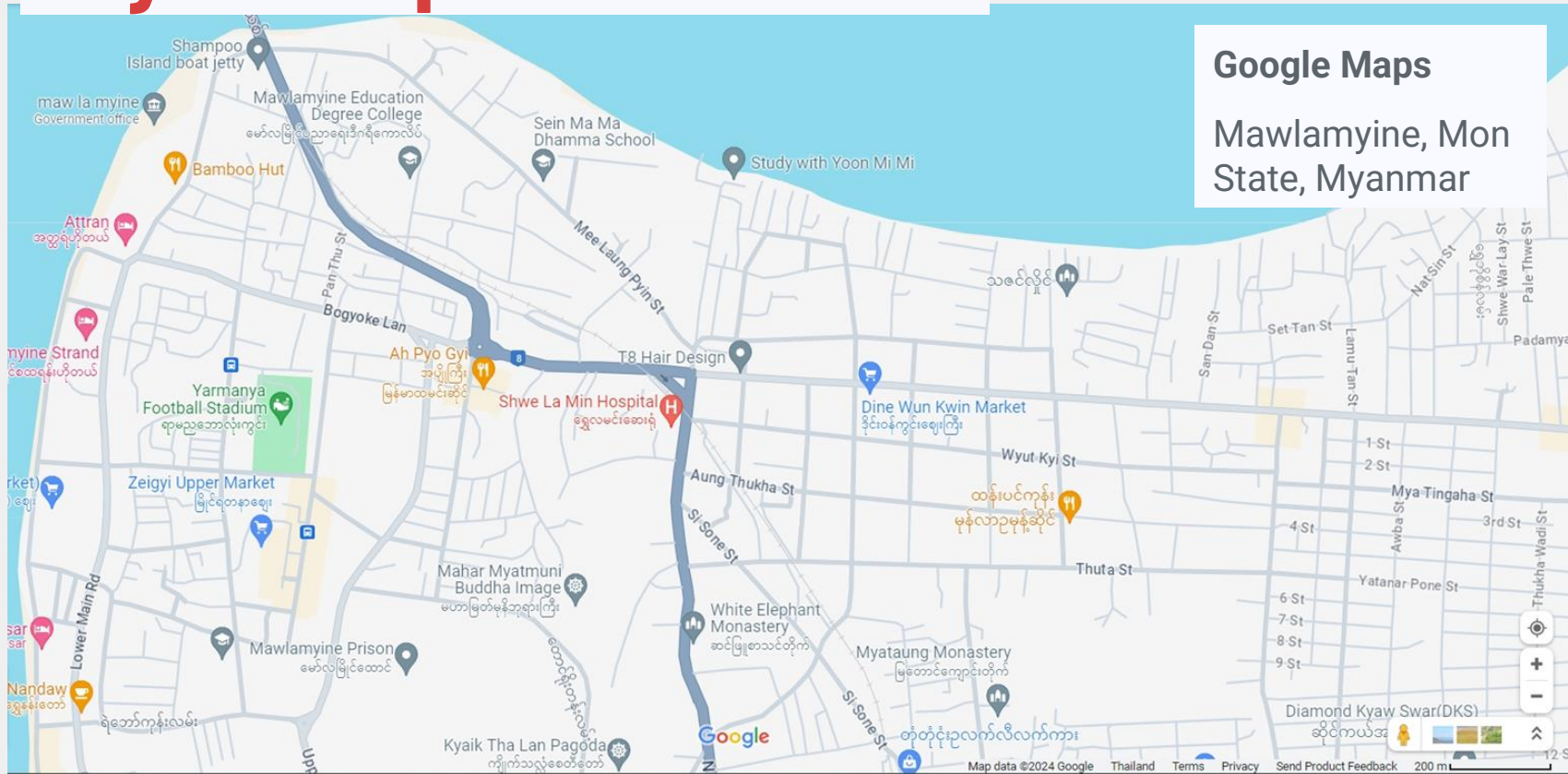
# Why use OpenStreetMap?

- OpenStreetMap emphasizes **local knowledge** and empowers people across the globe to edit, there are many ways to contribute that do not require access to the latest technology
- OpenStreetMap has no data releases, it is **constantly updated** and these contributions appear immediately - thereby it is one source of truth that all organisations and communities can use, edit and update

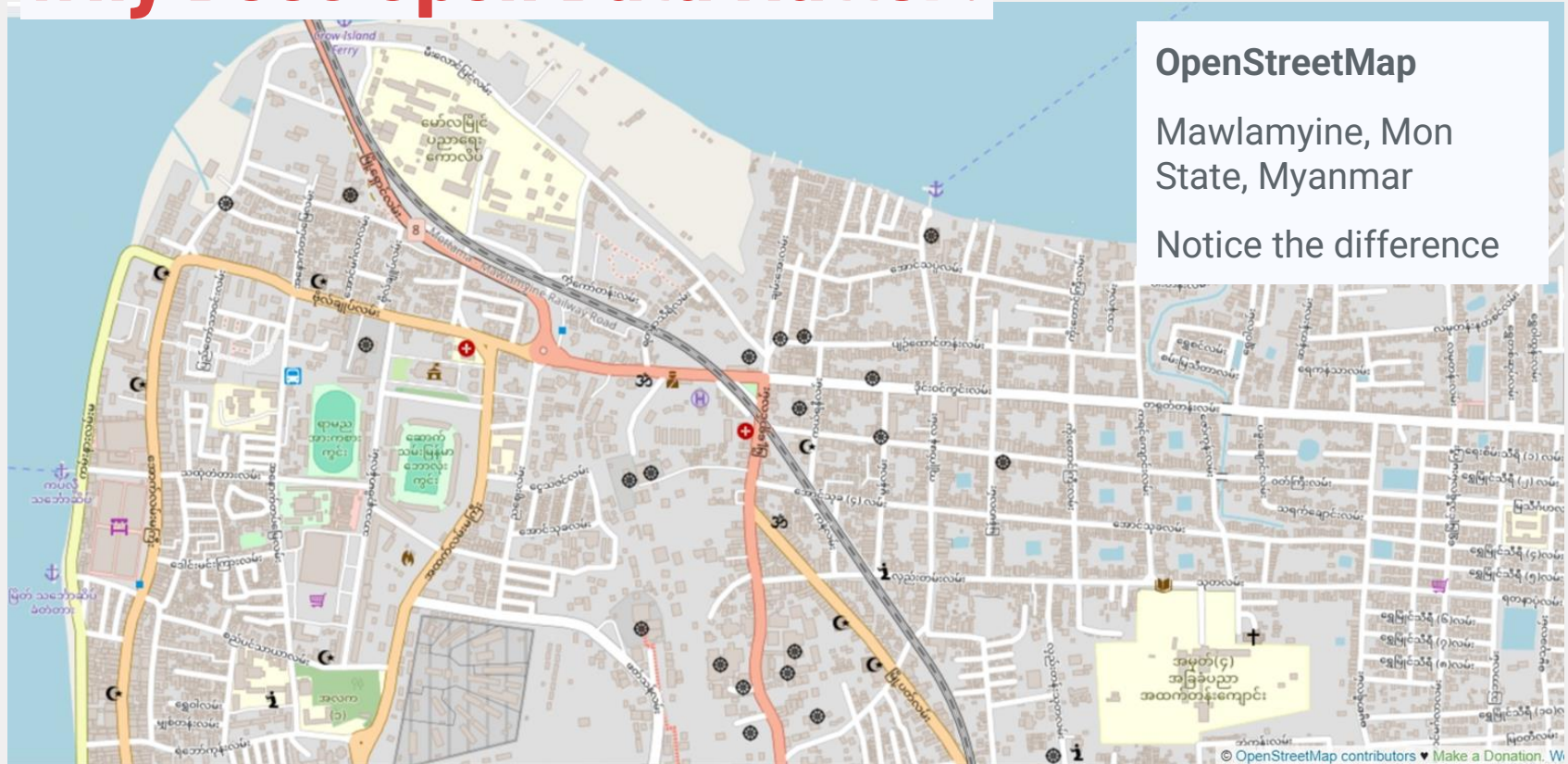




# Why Does Open Data Matter?



# Why Does Open Data Matter?



# OSM Use Cases

- OpenStreetMap has a diverse range of use cases including:
  - Advocacy
  - Journalism
  - Gaming
  - Films
  - Academia
  - Governance
  - Development monitoring (SDGs)

## Major use cases

- In 2014 , Major landslide was occurred in Chin State. Most of Geographer , Geologists and Geospatial from Geoinformatics Society in Myanmar were strongly involved in HOT's remote mapping of Chin state.
- Urban Planning Department, Yangon City Development Committee - putting Public Transport lines (Bus, Train, Boat) on OSM

### The New York Times

Using Mapbox GL JS and Geocoding API, The New York Times offers readers insights into elections, urban planning, and societal trends



#### KEY BENEFITS OF BUILDING WITH MAPBOX

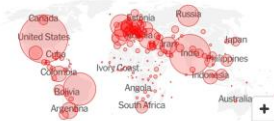
- Mapbox Vector tiles and Raster tiles enable The New York Times to seamlessly create data visualizations
- Mapbox GL JS animates complex data, providing readers with an immersive, in-depth exploration experience
- The Mapbox Geocoding API ensures precise mapping, enhancing the credibility of data visualizations

#### PRODUCTS USED

BASE MAPS | MAPBOX GL JS  
SEARCH

### Total cases

10,000 • • • 10 MILLION



mapbox



About this data

### State of the virus

Update for Nov. 24

- Europe has accounted for more than half the world's reported Covid deaths



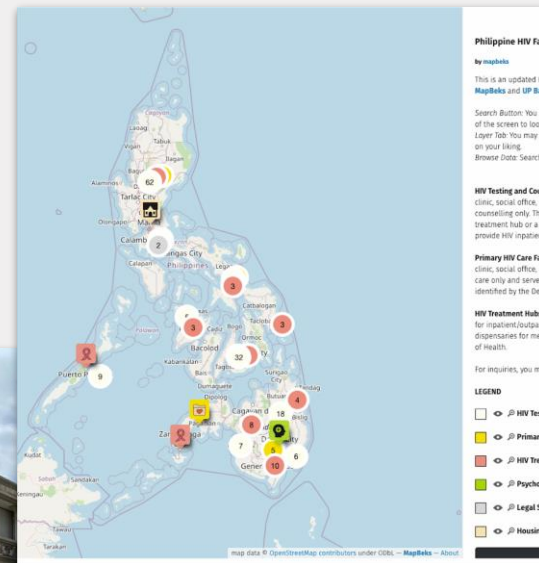


# OSM Use - Humanitarian



- Many humanitarian organizations create and use OpenStreetMap data for operational decisions (e.g. planning logistics), to track implementation, and advocacy (to influence decisions)
- Some of the organizations that use OpenStreetMap for humanitarian purposes include Humanitarian OpenStreetMap Team, Médecins Sans Frontières, IFRC, United Nations, MapAction and many others

PhilAWARE Project





# Uses of OpenStreetMap in Myanmar

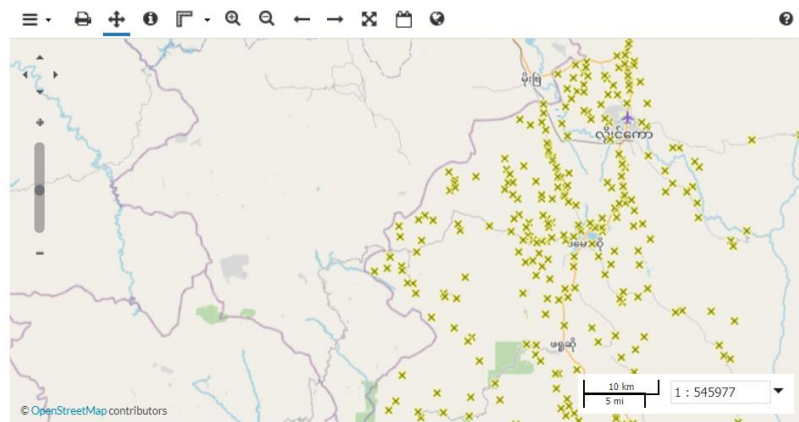
- OSM as basemap in GIS applications (such as – QGIS, ArcGIS, etc.)
- Base layer in Webapp, mobile app (street complete, organic map) for basemap and for references
- OSM data (such as building footprint, waterway, road network, settlement area etc.) use in Many Humanitarian aids. Used as a basemap, analyze etc.
- Some private companies used OSM data (e.g. Grab etc.). Also, Grab support OSM development.

# OSM as Basemap

E.g. MIMU uses OSM as default basemap!  
OSM used as basemap (default or option) in many many applications!



## Village Points Kayah State PCode v9.5



Info

Attributes

Share

Ratings

Comments

Download Layer

Download Metadata

### Legend



### Maps using this layer

This layer is not currently used in any maps.

### Create a map using this layer

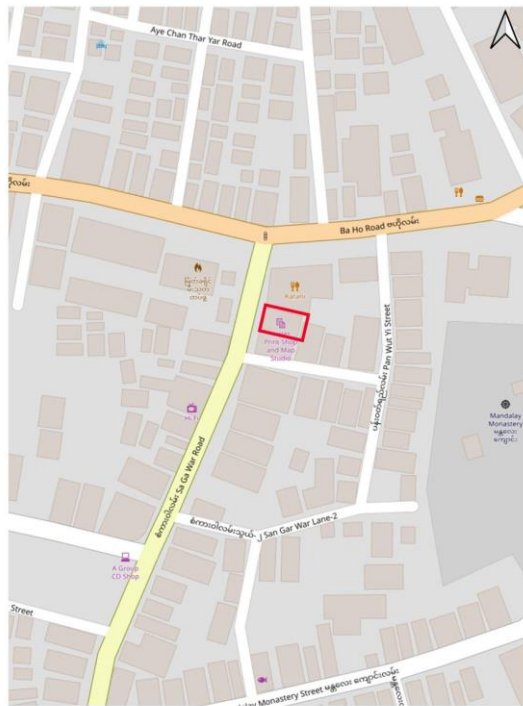
Click the button below to generate a new map based on this layer.

Create a Map

### About

Title Village Points Kayah State PCode v9.5

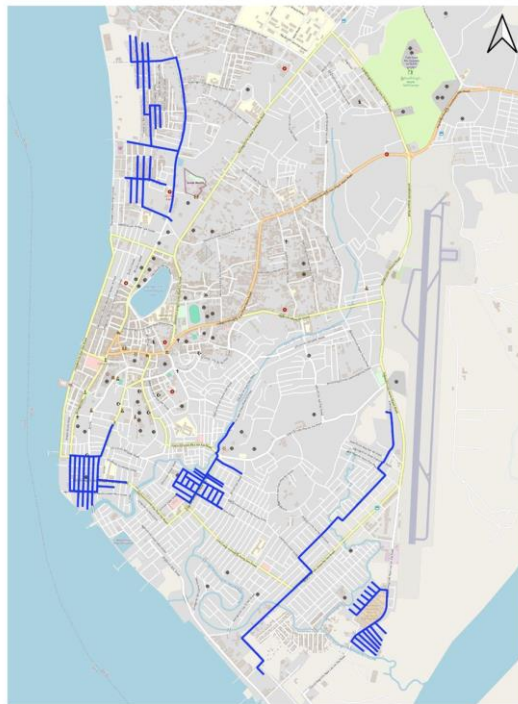
# လှိုင်ဇွန်လိုင်စင်လျှောက်ထားသည့်ဆိုင် တည်နေရာပြမြေပုံ



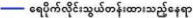
ရည်ညွှန်းချက်  
လှိုင်ဇွန်လိုင်စင်လျှောက်ထားသည့်  
ဆိုင်တည်နေရာ



# မြိတ်မြို့အတွင်း ရေပေးဝေရေး ရေပိုက်လိုင်းသွယ်တန်းထားမှုပြမြေပုံ



ရည်ညွှန်းချက်  
ရေပိုက်လိုင်းသွယ်တန်းထားသည့်နေရာ



# မြိတ်မြို့နယ် တည်နေရာပြမြေပုံ



ရည်ညွှန်းချက်  
မြိတ်မြို့နယ်နယ်နိမိတ်

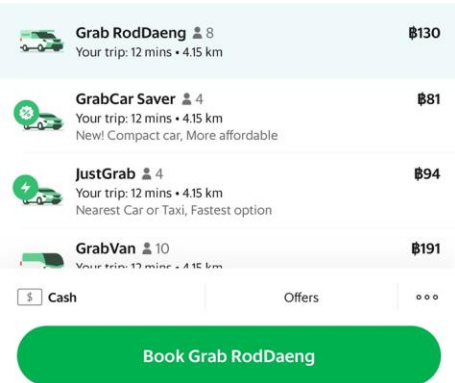
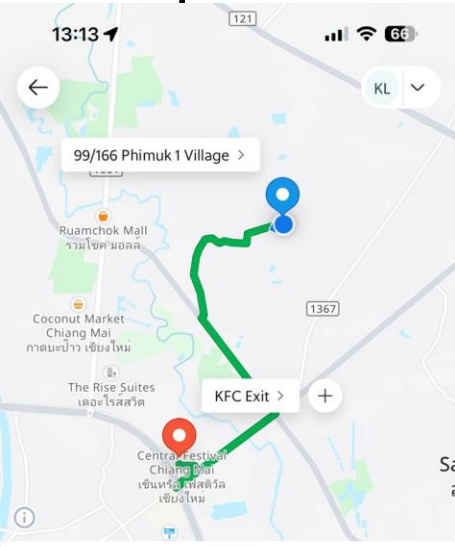


OSM data available as shapefile e.g.

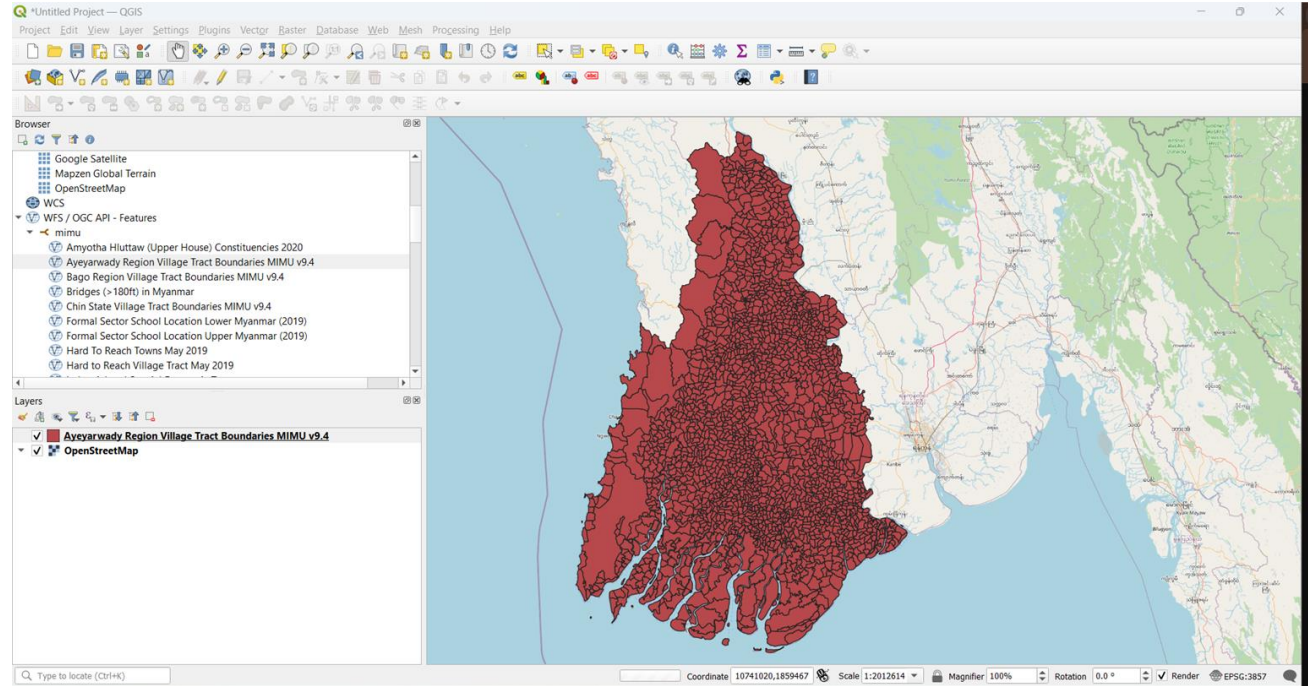
- Geofabrik, HOT-export etc.
- Vectordata used in many ways by many people
- \*Only source for Myanmar Vector data for freely accessible large scale vector data



# Example of OSM Uses



Grab use OSM



Default basemap in QGIS

## **CDE supports Myanmar OSM community**

- Before coup CDE already active (low profile e.g. support Phandeeayar OSM program, OSM in Mawlamyine with Red Cross, contributions e.g. Dawei, Chaungzone, Bilin, Paung, etc.
- After 2021 access to basemaps and basic geospatial data even more difficult → thus, support OSM for Myanmar
  - Reactivate Myanmar OSM community
  - Provide some smaller incentives for Myanmar OSM mappers/contributors
  - Bring in remote mappers to contribute to Myanmar OSM data (e.g. via HOT-AP activities, ...)
  - Contribution by CDE members (digitizing, some data imports)

# Partners

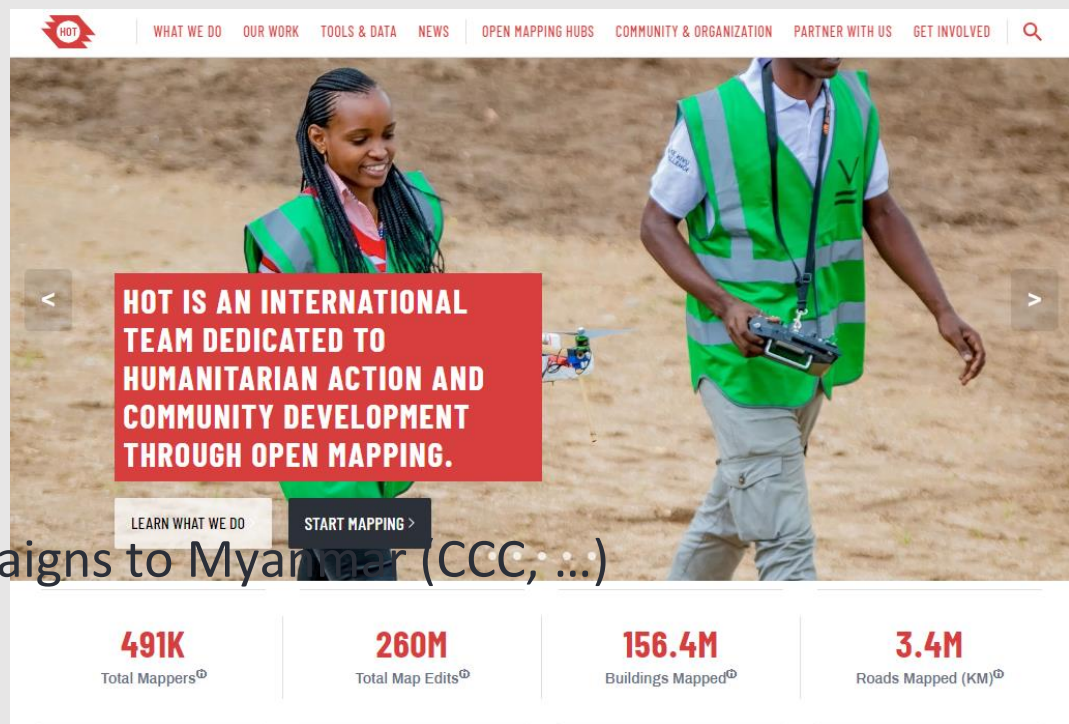
## Partner with HOT

- Guru fellowship
- Activate remote mappers
- Draw mapping OSM campaigns to Myanmar (CCC, ...)
- organize trainings
- ..

## pre-coup

- Partner with Red Cross, Missing Maps, Phandeeyar

Open to expand partnerships as OSM is based on Community and Crowd mapping/contribution



The screenshot shows the HOT website homepage. At the top is a navigation bar with links: WHAT WE DO, OUR WORK, TOOLS & DATA, NEWS, OPEN MAPPING HUBS, COMMUNITY & ORGANIZATION, PARTNER WITH US, GET INVOLVED, and a search icon. The main banner features a photo of two people in green safety vests, one holding a drone. A red text box in the center reads: "HOT IS AN INTERNATIONAL TEAM DEDICATED TO HUMANITARIAN ACTION AND COMMUNITY DEVELOPMENT THROUGH OPEN MAPPING." Below the banner are two buttons: "LEARN WHAT WE DO" and "START MAPPING >". At the bottom, four statistics are displayed in white boxes with red text:

| 491K                       | 260M                         | 156.4M                        | 3.4M                           |
|----------------------------|------------------------------|-------------------------------|--------------------------------|
| Total Mappers <sup>Ⓢ</sup> | Total Map Edits <sup>Ⓢ</sup> | Buildings Mapped <sup>Ⓢ</sup> | Roads Mapped (KM) <sup>Ⓢ</sup> |

# **myOSM (OSM Myanmar Mappers Community)**

Managed by CDE Myanmar

## **Objective**

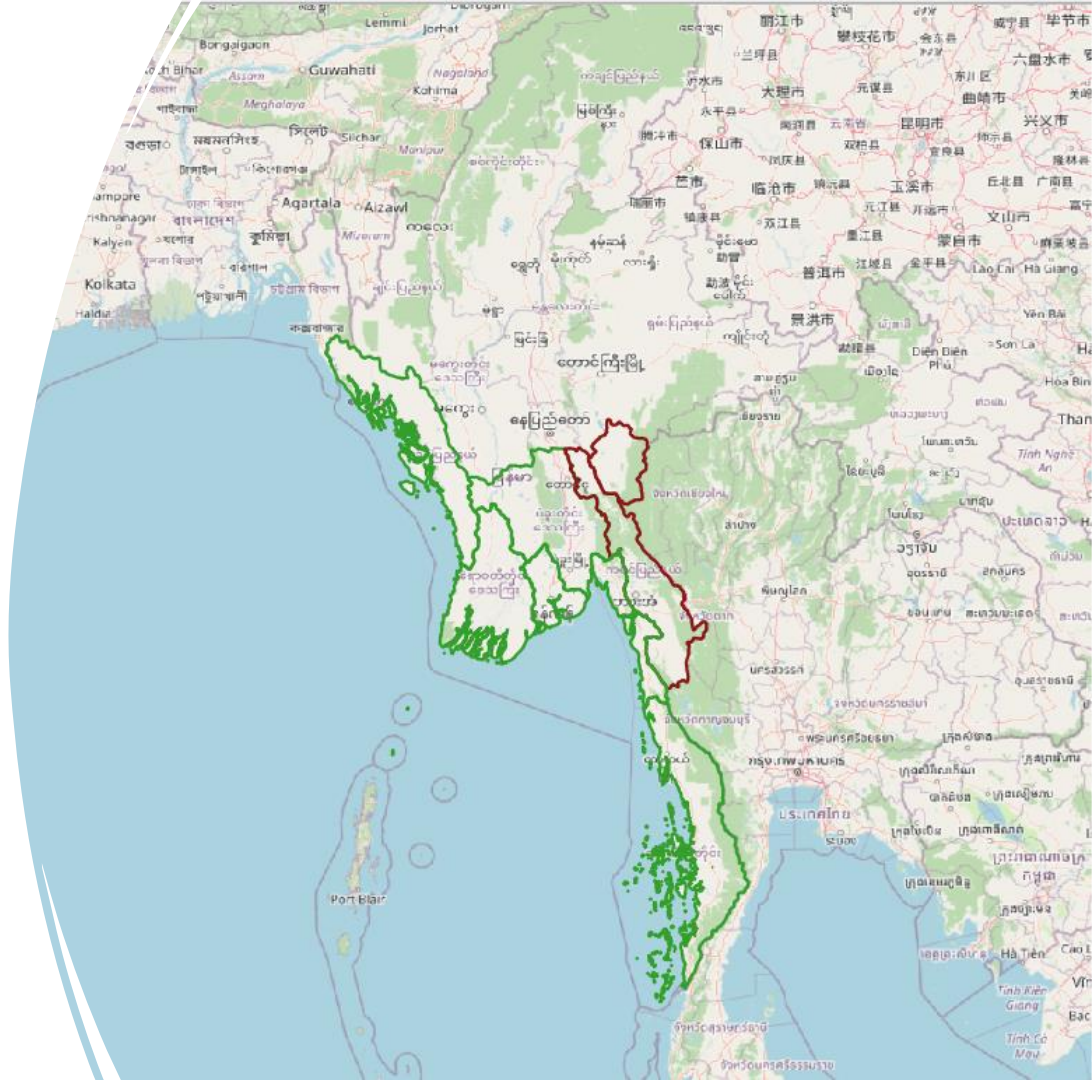
- To create open basemap source for Myanmar through OpenStreetMap
- To encourage Myanmar's OSM mapper during crisis
- To activate myOSM community for Myanmar people



# Mapping focus | where to Map

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- We are open to map anywhere in Myanmar.
- Currently with a focus on coastal areas (Cyclone prone) and South-East (SDC-focus area).
- We are open for requests
- If there is some genuine need e.g. by some organization, we can add/shift focus or activate HOT mappers



# Mapping focus | what to map?

Where do people live

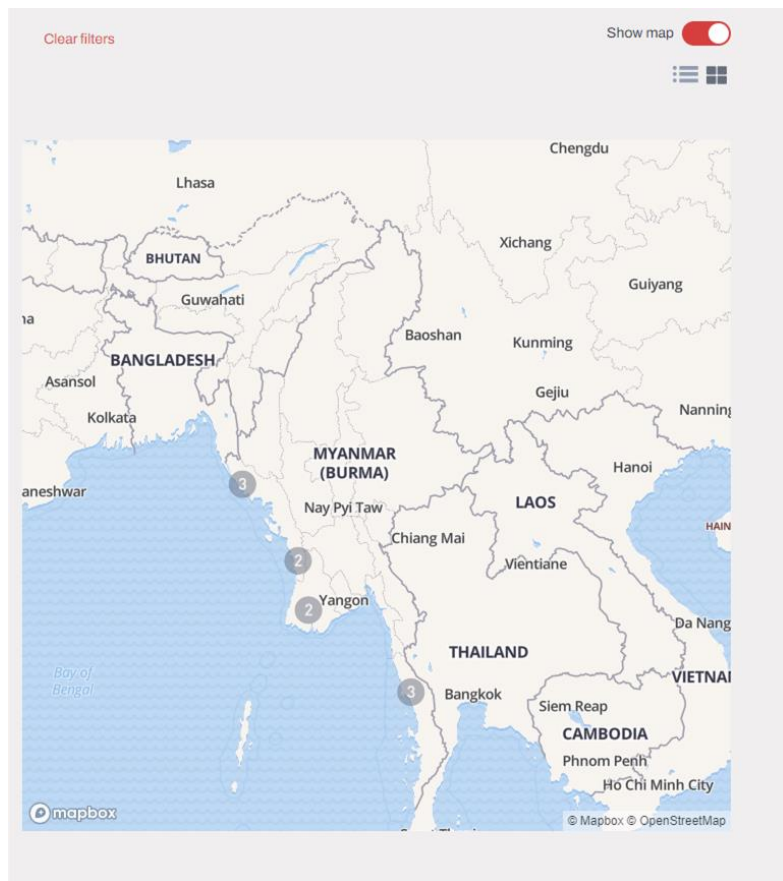
- Settlement  
Area/Residential Area)
- Village points / labels

How to get there

- Roads, rivers, ...







## CDE – Created OSM Project on HOT TM

12 tasks – 2 achieved & 10 active

<https://tasks.hotosm.org/manage/projects/?status=PUBLISHED&managedByMe=1&action=any>

|    |   |
|----|---|
| 14 |   |
| 15 | <b>CDE HOT TM Projects</b>  |
| 16 | <b>projects</b>   |
| 17 | SETTLEMENT AREAS FOR EMERGENCY BASEMAPS - THABAUNG TOWNSHIP                       |
| 18 | SETTLEMENT AREAS FOR EMERGENCY BASEMAPS - MAUNGDAW TOWNSHIP                       |
| 19 | SETTLEMENT AREAS FOR EMERGENCY BASEMAPS - THANDWE TOWNSHIP                        |
| 20 | SETTLEMENT AREAS FOR EMERGENCY BASEMAPS - BUTHIDAUNG TOWNSHIP                     |
| 21 | SETTLEMENT AREAS FOR EMERGENCY BASEMAPS - PATHEIN TOWNSHIP                        |
| 22 | EMERGENCY BASEMAPS FOR MYANMAR - GWA TOWNSHIP                                     |
| 23 | ROADS FOR EMERGENCY BASEMAPS - YEBYU TOWNSHIP                                     |
| 24 | ROADS FOR EMERGENCY BASEMAPS - THAYETCHAUNG TOWNSHIP                              |
| 25 | ROADS FOR EMERGENCY BASEMAPS - PALAW TOWNSHIP                                     |
| 26 | IMPROVING THE RIVER NETWORK FOR BOGLAY TOWNSHIP, AYEYARWADY REGION TO SUPPORT     |
| 27 | MISSING COMMUNICATION ROADS MAPPING - SITTWE - RAKHINE - MYANMAR                  |
| 28 | IMPROVING BUILDING FOOTPRINT & RESIDENTIAL AREA OF SITTWE, RAKHINE REGION, MYANMA |
| 29 |   |
| 30 |   |
| 31 |   |

# Giving stipend system to motivate Myanmar OSM contributors

- Developing a Incentive/Stipend system for contribution on OSM
- First Batch Started May 2024
- Second Batch - expected to be launched on July
- We have also open for people who are experience with OSM in Contributing OSM.
- \*If some Organization interested to join, we can arrange and give capacity training.



\_\_\_\_\_

The image is a collage of various elements related to road mapping and navigation. At the top left, there's a snippet of a web page showing a map of Myanmar with a yellow highlight on a road section. The text on the page includes "Myanmar context guidance (to be discussed)" and "common name in Mya.". Below this, there's a list of road types: "No-at-grade intersections or driveways. Access only at interchanges. Pedestrians, motorcycles and bicycles prohibited. Mostly tolled. Currently the only such motorway in Myanmar is the Yangon-Nandalet Expressway." and "A restricted access major divided highway, normally with 2 or more running lanes plus emergency hard shoulder. No at-grade intersections or driveways. Access only at interchanges. Pedestrians, motorcycles and bicycles prohibited. Mostly tolled. Currently the only such motorway in Myanmar is the Yangon-Nandalet Expressway." At the top right, there's a road with multiple lanes and a shoulder, with the text "hway, normally with 2 or more running lanes plus emergency hard shoulder, etc.". In the middle left, there's a map of Myanmar with a yellow highlight on a road section. The text on the page includes "Myanmar context guidance (to be discussed)" and "common name in Mya.". Below this, there's a list of road types: "No-at-grade intersections or driveways. Access only at interchanges. Pedestrians, motorcycles and bicycles prohibited. Mostly tolled. Currently the only such motorway in Myanmar is the Yangon-Nandalet Expressway." and "A restricted access major divided highway, normally with 2 or more running lanes plus emergency hard shoulder. No at-grade intersections or driveways. Access only at interchanges. Pedestrians, motorcycles and bicycles prohibited. Mostly tolled. Currently the only such motorway in Myanmar is the Yangon-Nandalet Expressway." In the middle right, there's a road with multiple lanes and a shoulder, with the text "hway, normally with 2 or more running lanes plus emergency hard shoulder, etc.". At the bottom left, there's a map of Myanmar with a yellow highlight on a road section. The text on the page includes "Myanmar context guidance (to be discussed)" and "common name in Mya.". Below this, there's a list of road types: "No-at-grade intersections or driveways. Access only at interchanges. Pedestrians, motorcycles and bicycles prohibited. Mostly tolled. Currently the only such motorway in Myanmar is the Yangon-Nandalet Expressway." and "A restricted access major divided highway, normally with 2 or more running lanes plus emergency hard shoulder. No at-grade intersections or driveways. Access only at interchanges. Pedestrians, motorcycles and bicycles prohibited. Mostly tolled. Currently the only such motorway in Myanmar is the Yangon-Nandalet Expressway." At the bottom right, there's a road with multiple lanes and a shoulder, with the text "hway, normally with 2 or more running lanes plus emergency hard shoulder, etc.".

# Activating OSM Facebook Page MM

- Posting OSM related activates, trainings, tips, knowledge sharing, announcing etc.
- Encouraging mapping contributors
- Managing by CDE

<https://www.facebook.com/groups/osmmm>

## OpenStreetMap Myanmar

Public group · 1.4K members



+ Invite

Discussion

Featured

Events

Media

Files

People



Write something...



Anonymous Post




Photo/video



Poll

### About

 **Public**

Anyone can see who's in the group and what they post.

 **Visible**

Anyone can find this group.

# HOT AP Fellowship Program

Started Jan to June 2024 (6-month fellowship program).

Three Different program under Fellowship.

- Training Track
- Validation Track
- Mapping Track

<http://surl.li/kpfyxi>

\* Next Fellowship program may start August 2024.



Open Mapping Hub - Asia Pacific

June 13 at 11:51 AM · 🌐

Awesome OSM Trainings this June brought to you by our very own [Open Mapping Gurus!](#)

June 15 - Introduction to JOSM Plugins

June 20 - Working with Relations

June 21 - JOSM and other Useful Tools

June 27 - Naming Features and Places

June 28 - Land Use Mapping on OSM

Sign up now for these FREE Trainings:  
<https://tinyurl.com/APHubTraining2024>

E-Certificates for participants!

#OMGuru #APHub #GuruPowerUp

| Session Title                                   | Date                     | Time                        | Speaker        |
|---|--------------------------|-----------------------------|----------------|
| OSM POWER UP: INTRODUCTION TO JOSM PLUGINS      | June 15, 2024   Saturday | 3:15 PM - 4:45 PM (UTC +0)  | Sushma Chavare |
| OSM POWER UP: WORKING WITH RELATIONS            | June 20, 2024   Thursday | 9:00 AM - 10:30 AM (UTC +0) | Patrick Oswald |
| OSM POWER UP: JOSM AND USEFUL TOOLS             | June 21, 2024   Friday   | 3:15 PM - 4:45 PM (UTC +0)  | Sushma Chavare |
| OSM POWER UP: NAMING FEATURES AND PLACES ON OSM | June 27, 2024   Thursday | 9:00 AM - 10:30 AM (UTC +0) | Patrick Oswald |
| OSM POWER UP: LAND USE MAPPING ON OSM           | June 28, 2024   Friday   | 3:15 PM - 4:45 PM (UTC +0)  | Sushma Chavare |

# Requesting Training & Activity

- If some of NGO/CSO have project specific area for mapping, basemap etc., can request for capacity building training or help.
- We can request capacity building/Ideas/clarification etc from HOT AP – Mikko Termura



# Next Step

- Expanding OSM mapping Community with Stipend System
- Reach out Global OSM mapper through HOT AP, Facebook, Tiktok, Instagram, Telegram etc.
- Expected to be cover project area at the end of 2024
- .....