

Introduction to Mapeo

Mobile based tool to map and monitor anywhere...

Preparation

Please download MAPEO to your phone.

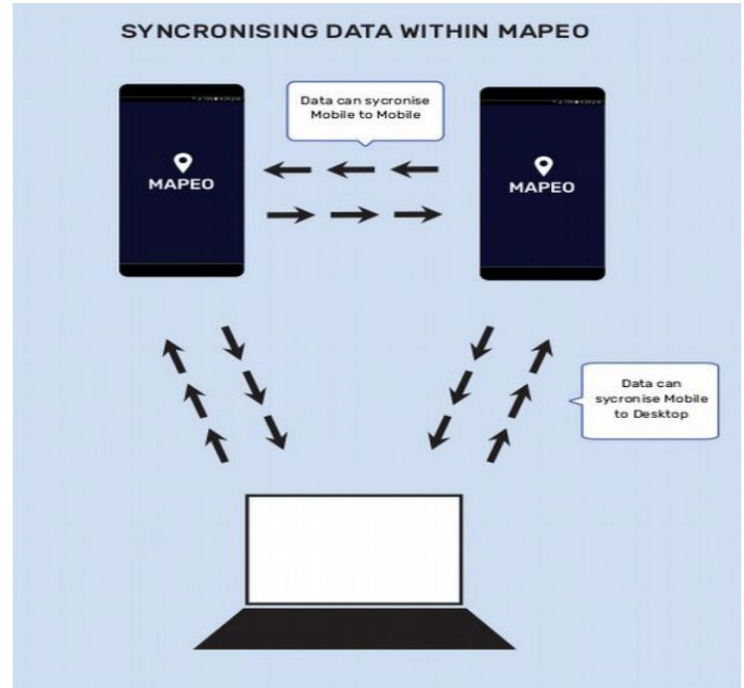
Open Google PlayStore app and type in search **'Mapeo'**

<https://play.google.com/store/apps/details?id=com.mapeo>

You can get Mapeo (development version) at <http://mapeo.world>.

Mapeo

Mapeo is a tool designed with the help of indigenous people in South America. “Mapeo” means mapping in Spanish. It enables you to use technology for **community mapping and monitoring** in very remote locations.



Mapeo Mobile

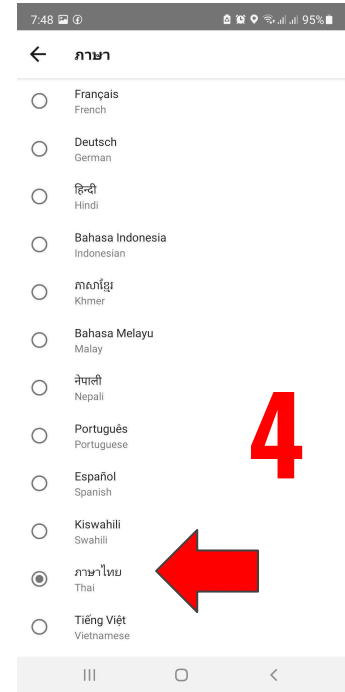
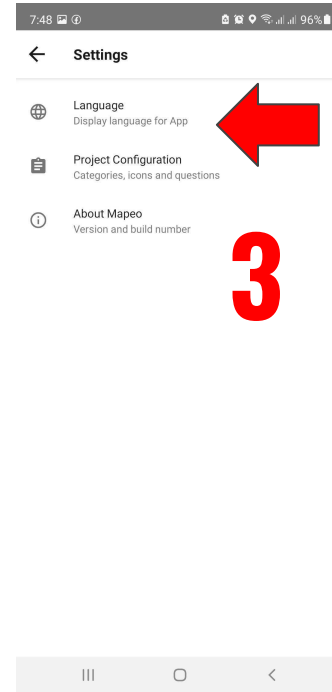
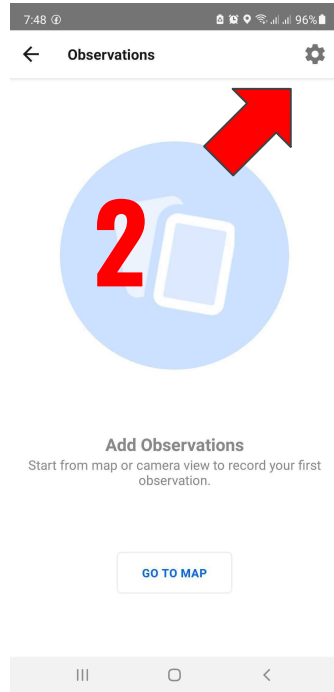
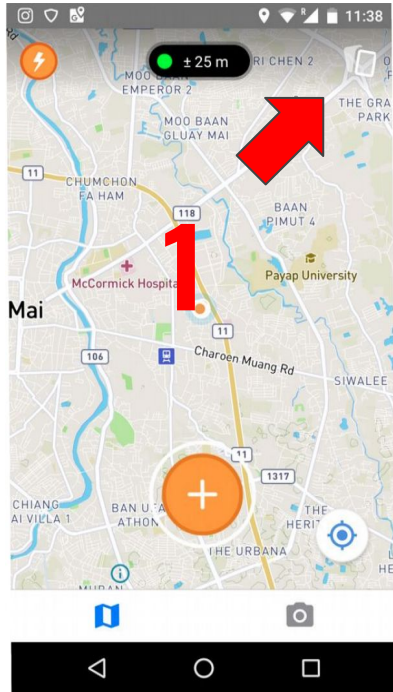
A new app for **Android mobile phones** (iPhone in future) to make data collection easy. Mapeo works offline, allows community monitors to collect simple information with **GPS points and photos**, share these with others, and transfer them to a computer. Mapeo is created using **open source software**, and is completely free.



Goals of Mapeo Mobile

- Completely **offline** functionality, no internet needed
- **Easy to share** data
- Easy to **set up**
- Easy and **fast to learn** and for everyone to understand
- You can have your own **icons**, and text in **local languages**
- Community can **design the system** and **own the data**
- **Open source, free** and accessible

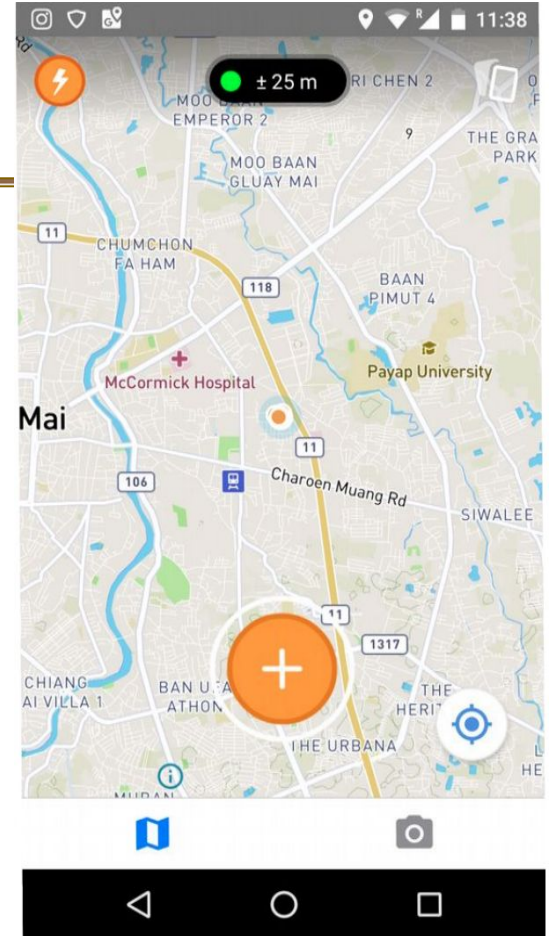
Change language



Main screen

Touch the orange button to save a Point

The base map is created specifically according to local needs and context. It works without internet.



Category screen

Choose the category of the point

You can have a list of items for mapping or impacts you want to monitor.

All icons and categories can be created according to local needs.

For example, they may be natural features such as community forests, hills, water resources, farmlands, community spaces, sacred sites. Names can be in any language.

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ทางขึ้น-ลงของ
เครื่องบิน



สัตว์



ขอบเขต



อาคาร



แคมป์



ถ้ำ



ดินเหนียว



ชุมชน



ที่นา



ที่ตกปลา



โรงเก็บสินค้า



เนินเขา



บ้าน



ที่ล่าสัตว์



ทะเลสาบ



ตำแหน่งใหม่



ต้นปาล์ม



เส้นทาง



พืช



แม่น้ำ



โปงเกลือ



สถานที่พิเศษ



ลำธาร

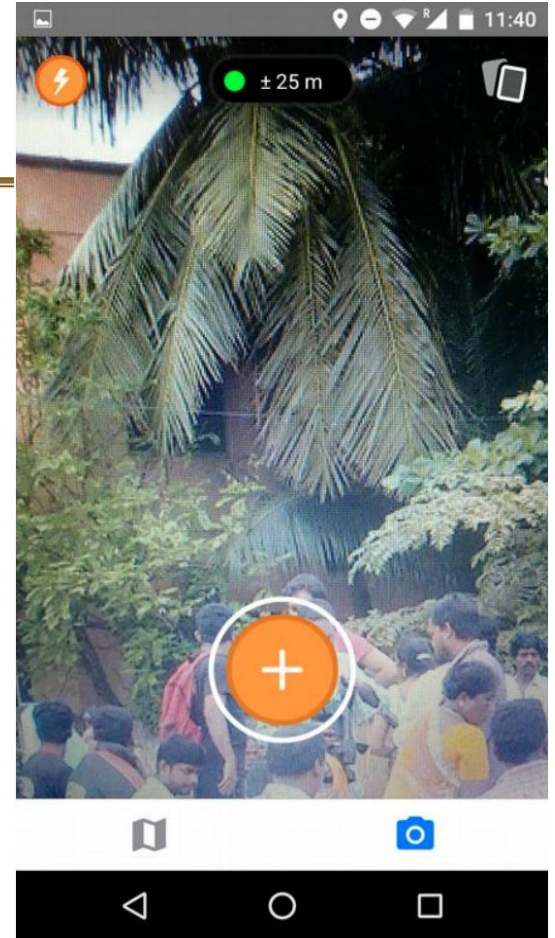


ภัยคุกคาม

Take a photo screen

Take photos

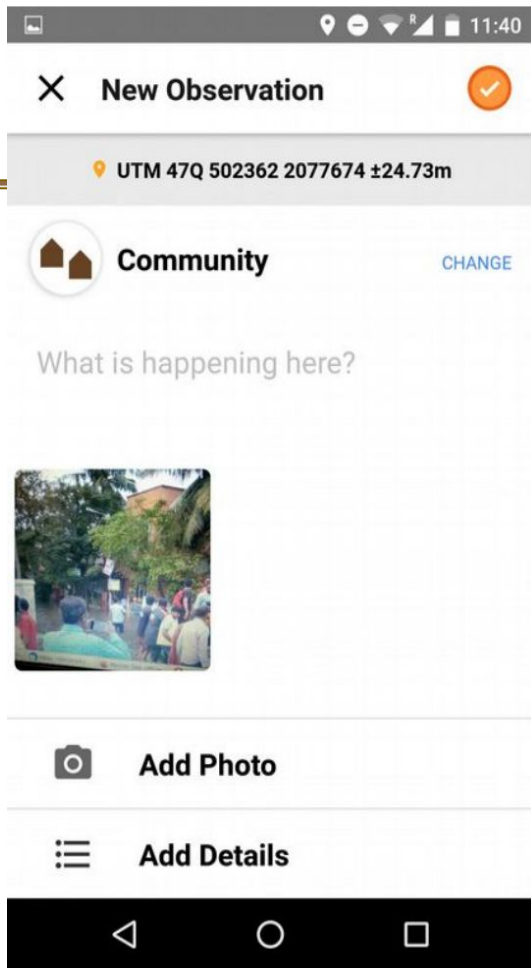
Take one or more photo. The photos are saved and stored with the GPS points and additional information as creation date.



Adding description screen

Write notes and add details

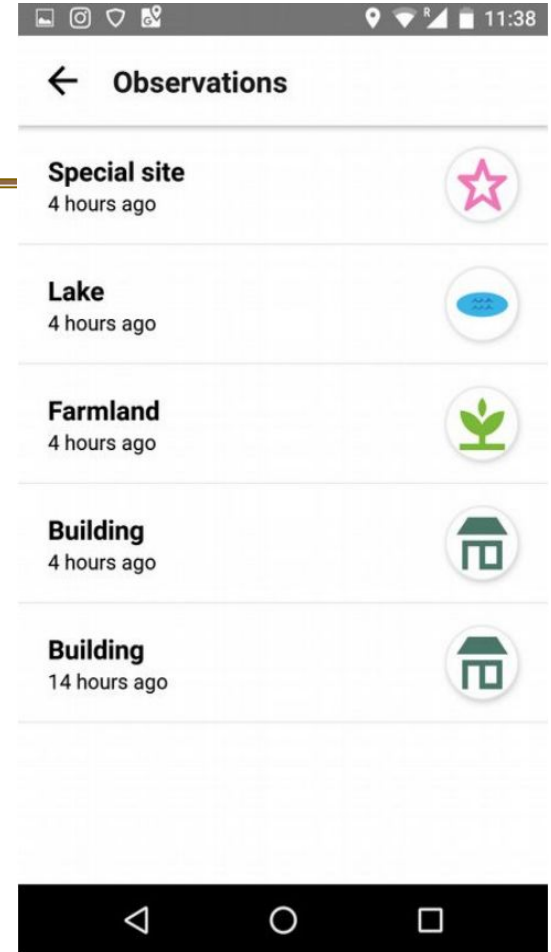
You can write notes about the point you are taking. You can even create a short caption or written story.



Observations screen

Look at your points

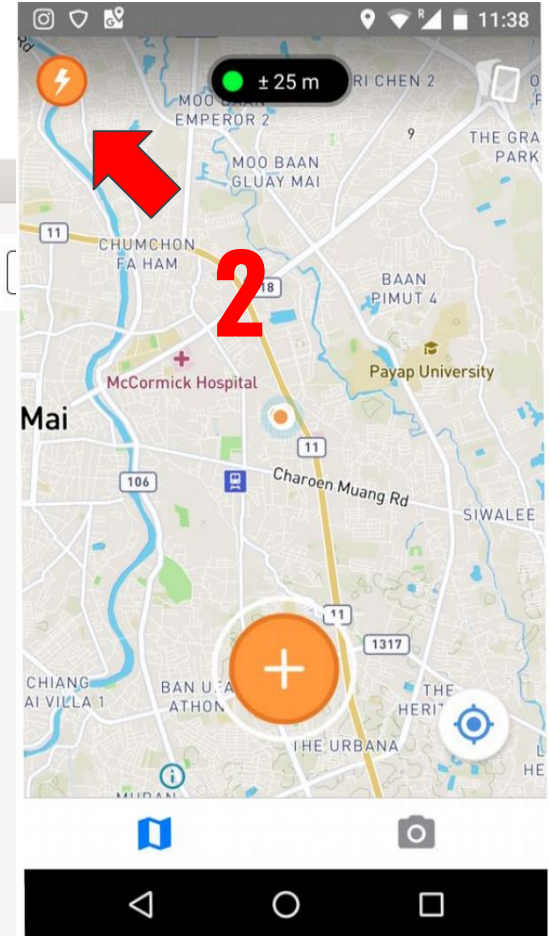
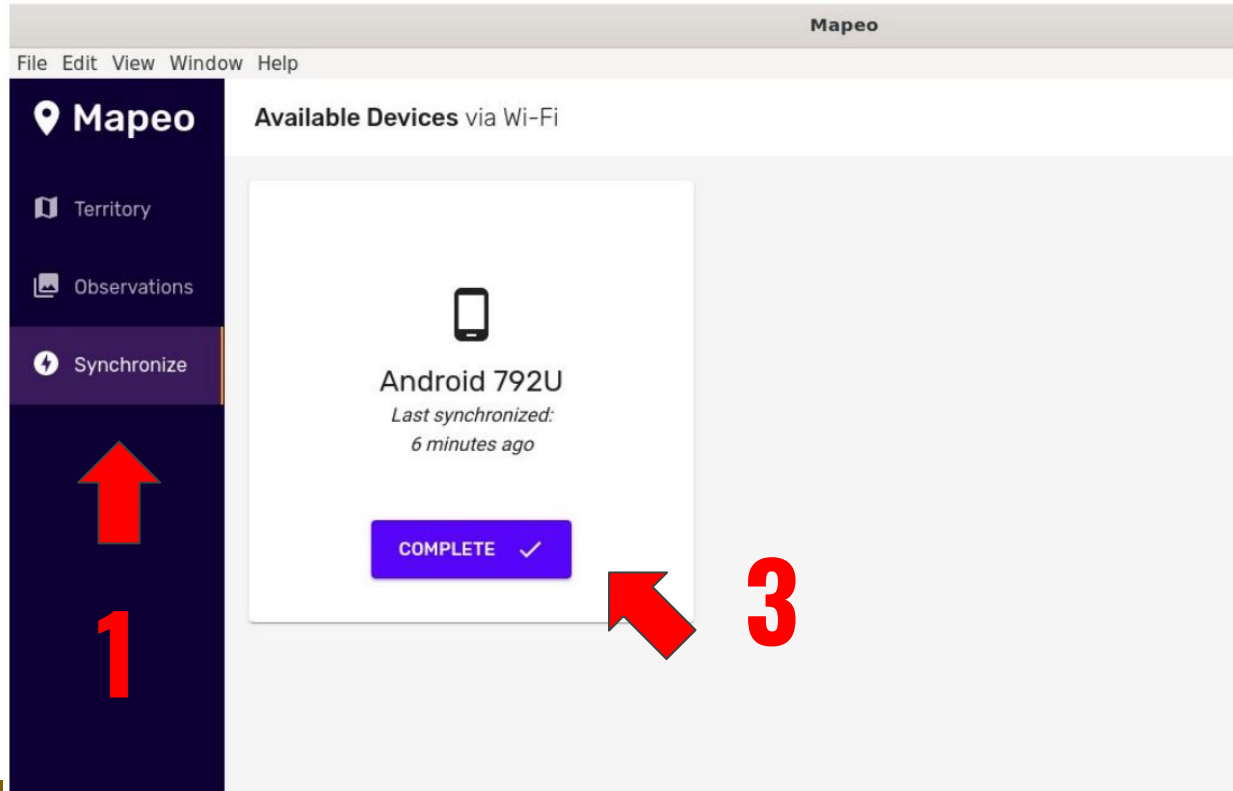
You can see a list of the points you have taken and edit the information if Necessary. The points also appear on the offline map which you have.



Mapeo Desktop ([download here](#))

- Import points from Mapeo Mobiles
- Filter the points
- Edit and save the information
- Uses a customised basemap
- Create reports of filtered data
- Export the data to geojson or CSV
- Completely offline functionality

Synchronize from Mapeo Mobile



Map view

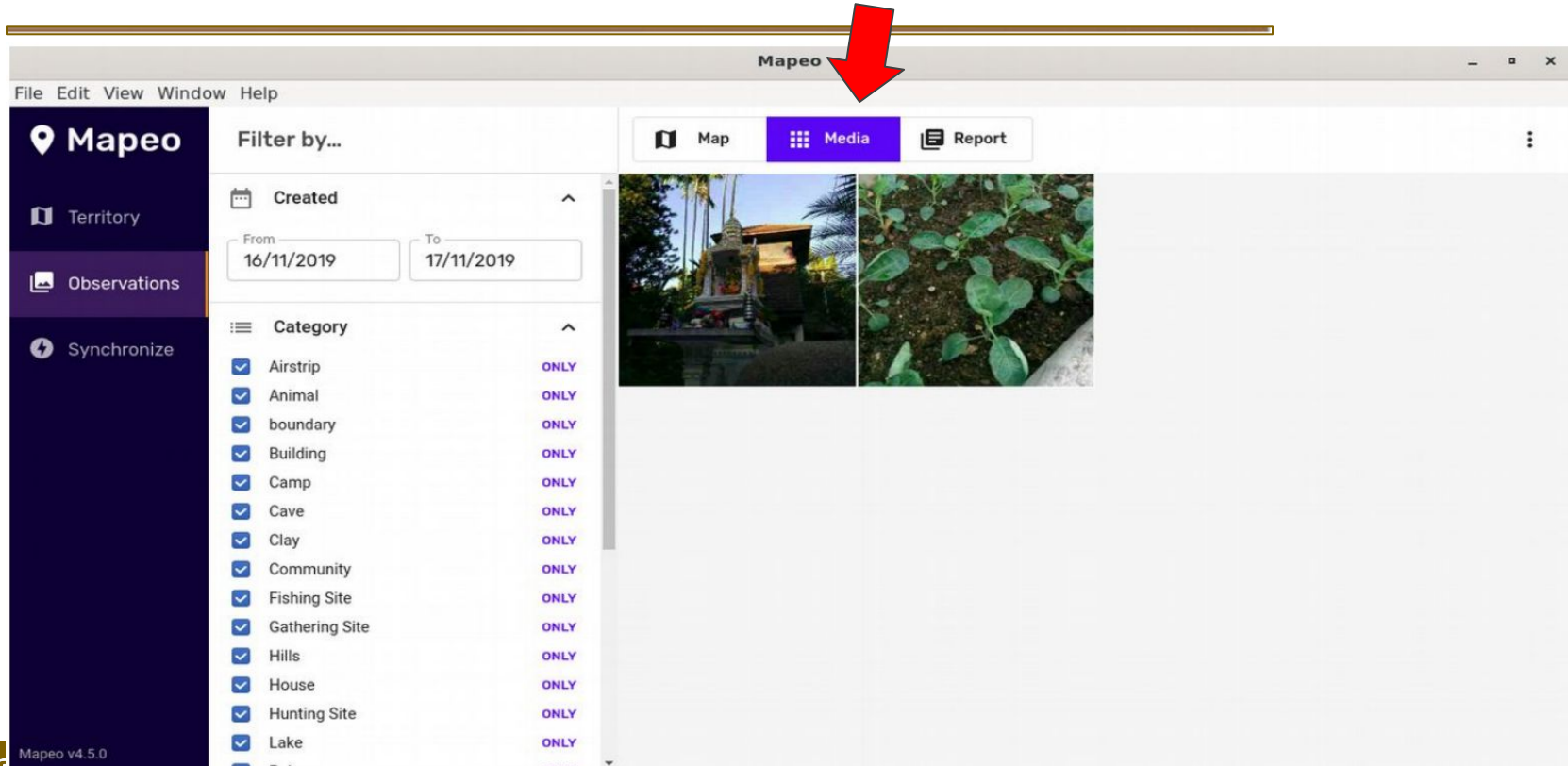
The screenshot shows the Mapeo application window. The title bar reads "Mapeo". Below it is a menu bar with "File", "Edit", "View", "Window", and "Help". The main interface is divided into three main sections:

- Left Sidebar:** Contains navigation options: "Territory", "Observations" (highlighted), and "Synchronize".
- Filter Panel:** Titled "Filter by...", it includes a "Created" section with "From" and "To" date pickers (set to 16/11/2019 and 17/11/2019) and a "Category" list with checkboxes and "ONLY" labels for various categories like Airstrip, Animal, boundary, Building, Camp, Cave, Clay, Community, Fishing Site, Gathering Site, Hills, House, Hunting Site, Lake, etc.
- Map Area:** Displays a map with a road network and several red circular markers. Labels on the map include "Yok Intertrade" and Thai text "ถนนสวนพฤกษ" (Suan Phruk San Road). A scale bar indicates 20m.

A red arrow points to the "Map" button in the top navigation bar, which is highlighted in purple. Other buttons in the bar include "Media" and "Report".

You can see, edit and filter the data on computer and create reports.

Media view



The screenshot displays the Mapeo application interface. At the top, a window title bar reads "Mapeo" with standard window controls. Below it is a menu bar with "File", "Edit", "View", "Window", and "Help". The main interface is divided into three sections:

- Left Sidebar:** A dark blue sidebar with the Mapeo logo and navigation options: "Territory", "Observations" (highlighted), and "Synchronize".
- Filter Panel:** A white panel titled "Filter by..." containing:
 - Created:** A date range filter with "From" set to "16/11/2019" and "To" set to "17/11/2019".
 - Category:** A list of categories with checkboxes and "ONLY" labels. Visible categories include: Airstrip, Animal, boundary, Building, Camp, Cave, Clay, Community, Fishing Site, Gathering Site, Hills, House, Hunting Site, and Lake.
- Top Navigation:** Three tabs: "Map", "Media" (highlighted in purple), and "Report".
- Main Content Area:** Two image thumbnails are displayed side-by-side. The left one shows a stone structure in a tropical setting, and the right one shows a close-up of green plants in a garden bed.

A red arrow points to the "Media" tab in the top navigation bar.

Example: Community map

The screenshot displays the Mapeo CEIBO web application interface. The top navigation bar includes menu items: Archivo, Edición, Visualización, Ventana, and Ayuda. The main title is "Mapeo CEIBO". The browser's address bar shows the URL "http://mapeo.ceibo.org". The top right corner displays system information: "Wed 07:47" and "53%".

On the left side, a search bar contains the text "tita". Below it, a list of 50 search results is shown, each with an icon and a name:

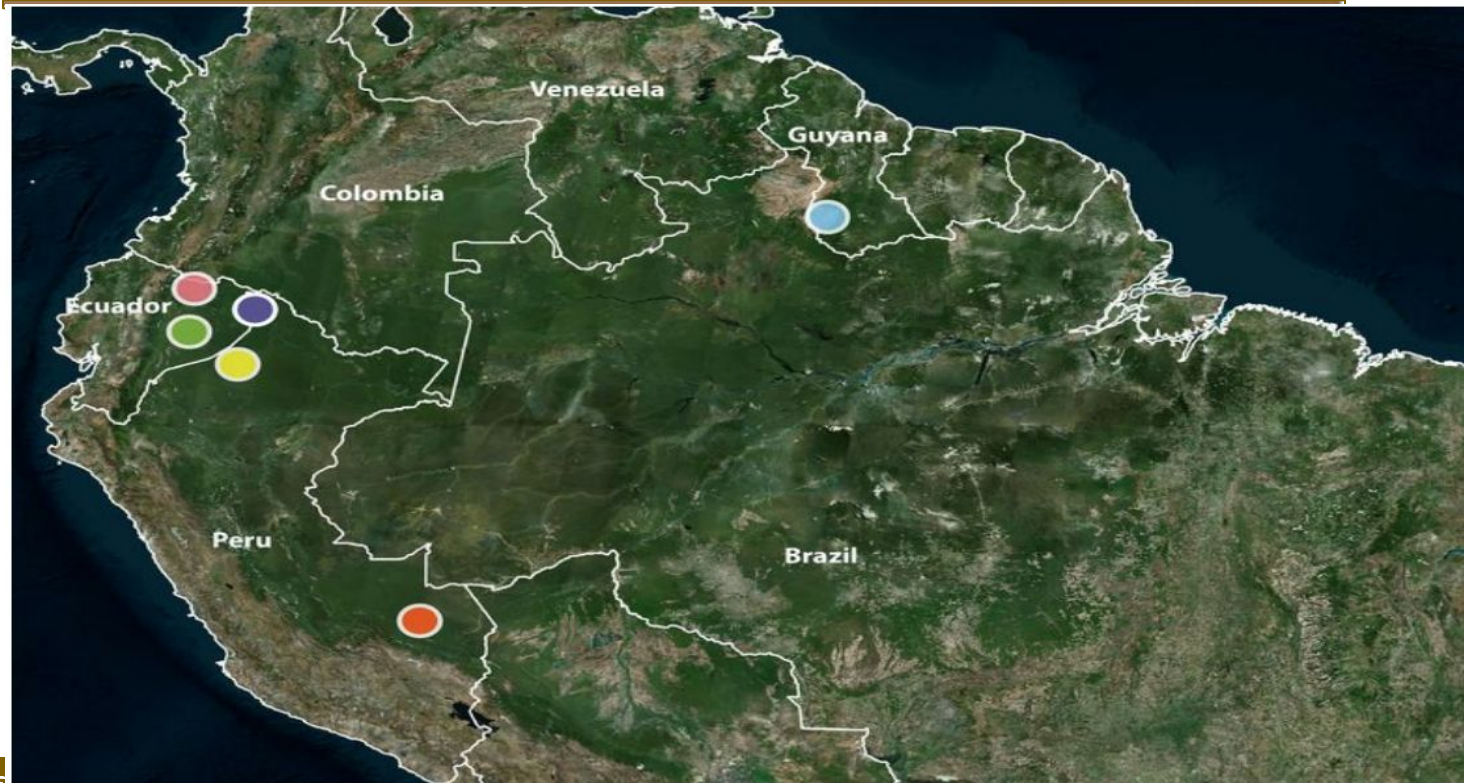
- Tepa
- Óonta
- Tucan
- Batabo
- Tortuga
- Ontoka
- Omenta
- miwago
- Nutria
- Guanta

The main map area shows a satellite-style view of a forested region with several rivers and streams. The map is overlaid with a network of dashed lines representing paths or boundaries. Numerous small icons, corresponding to the search results, are scattered across the map. A scale bar at the bottom indicates 500 meters. The bottom right corner shows the Bing logo and copyright information: "© 2018 Microsoft Corporation. All rights reserved. Map data © OpenStreetMap contributors, Imagery © CNES (2018), Distribution Airbus DS".

Create and share maps, reports or data

- You can also make territory maps, creating points, lines and polygons, with customized base maps underneath.
- You can export the maps and print them in large A4 format.
- Data could be exported in geojson format along with collected images.
- In future you can upload maps to Mapeo website and share online.

Case Studies from Amazon



Alianza Ceibo (Ecuador)

Alianza Ceibo, Amazon Frontlines and the Waorani communities used Mapeo to map the territory of 20 communities.

This map was critical in the success of the Waorani legal case against a new oil drilling concession.



Kofan (Ecuador)

The Kofan of Sinangoe are using Mapeo to collect and organize information about their ancestral territory.

They have spent more than a year walking to all the limits of their territory, collecting points of significant places and resources important to Kofan culture and history.



ECA-RCA (Peru)

ECA-RCA is using Mapeo as a part of its community forest surveillance. The monitors collect information on impacts and illegal activities.

They protect flora and fauna, community resource and sacred places.



PUINAMUDT (Peru)

The member federations of PUINAMUDT in northern Peru are carrying out community monitoring of the impacts of oil activities in their territory.



How can you help us?

Download Mapeo and share with your community:

<https://play.google.com/store/apps/details?id=com.mapeo>

Suggest features and feedback to improve Mapeo and translate Mapeo into your language:

<https://crowdin.com/project/mapeo-mobile>

Thank You



This lesson was adapted from the World Bank's Introduction to Data Literacy training manual by Eva Constantaras, and adapted by Yan Naung Oak, Open Development Cambodia and Open Development Initiative, and is licensed under a [Creative Commons Attribution-NonCommercial-ShareAlike 4.0 International License](#). For full terms of use, see [here](#).