

# Mobile Mapping for OpenStreetMap

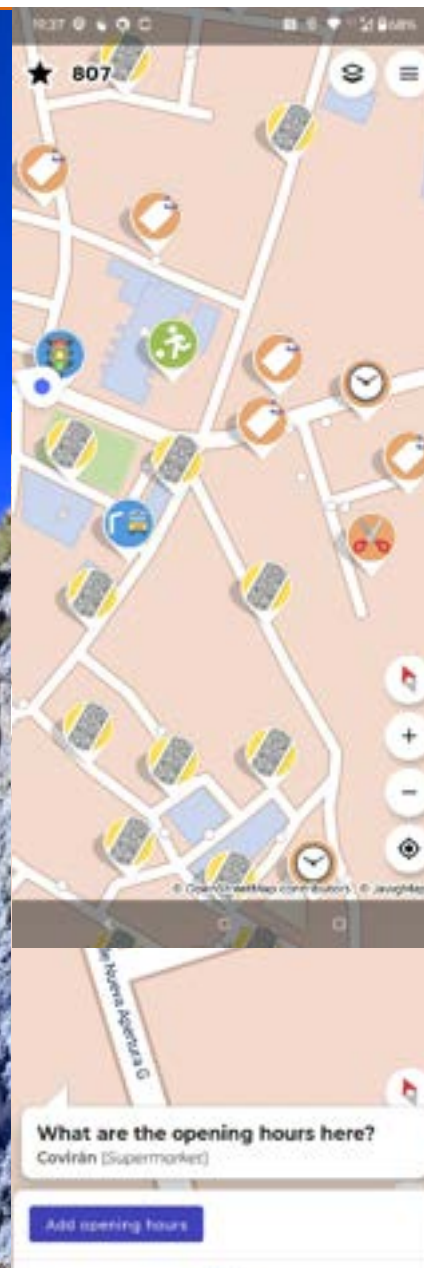
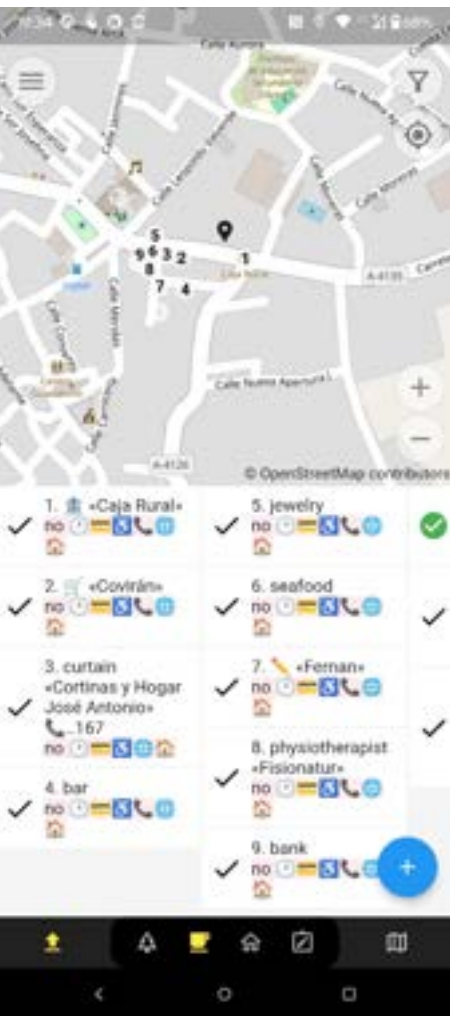


## Taller - Workshop - (English)

*Learn how to map on OpenStreetMap, the free map of the world, the "Wikipedia of maps". Roads, paths, bars, shops,...  
By: Just van den Broecke (OSM-NL)*

workshop docs  
[alpumapa.xyz](http://alpumapa.xyz)

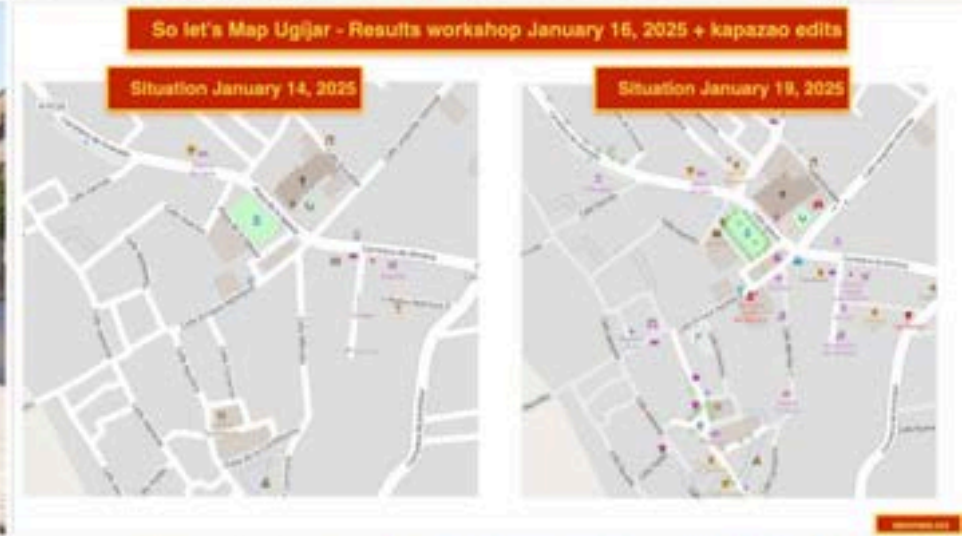
V2







# Workshops in Spain





**Just van den Broecke**  
**Open Source**  
**Geospatial Professional**  
[www.justobjects.nl](http://www.justobjects.nl)

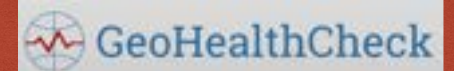
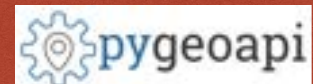
*Soy  
hollandés*

**About  
Me**

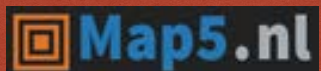
Founder



**FOSS Projects**



**Cloud Services**



**OpenStreetMap Mapper**  
[openstreetmap.org/user/justb](http://openstreetmap.org/user/justb)



[map5topo.nl](http://map5topo.nl)

Main Current Project : Topographic Map of The Netherlands



## What is OpenStreetMap?

- **Definition:**  
*A free, open-source, and collaborative mapping platform where anyone can contribute, edit, and use map data.*
- **Mission:**  
*To create and provide free geographic data to everyone.*
- **Fun Fact:**  
*Often referred to as "the Wikipedia of maps."*

**OSM Website: [openstreetmap.org](https://openstreetmap.org)**





Why? Por que?

Three Reasons  
Tres Razones

## Reason 1



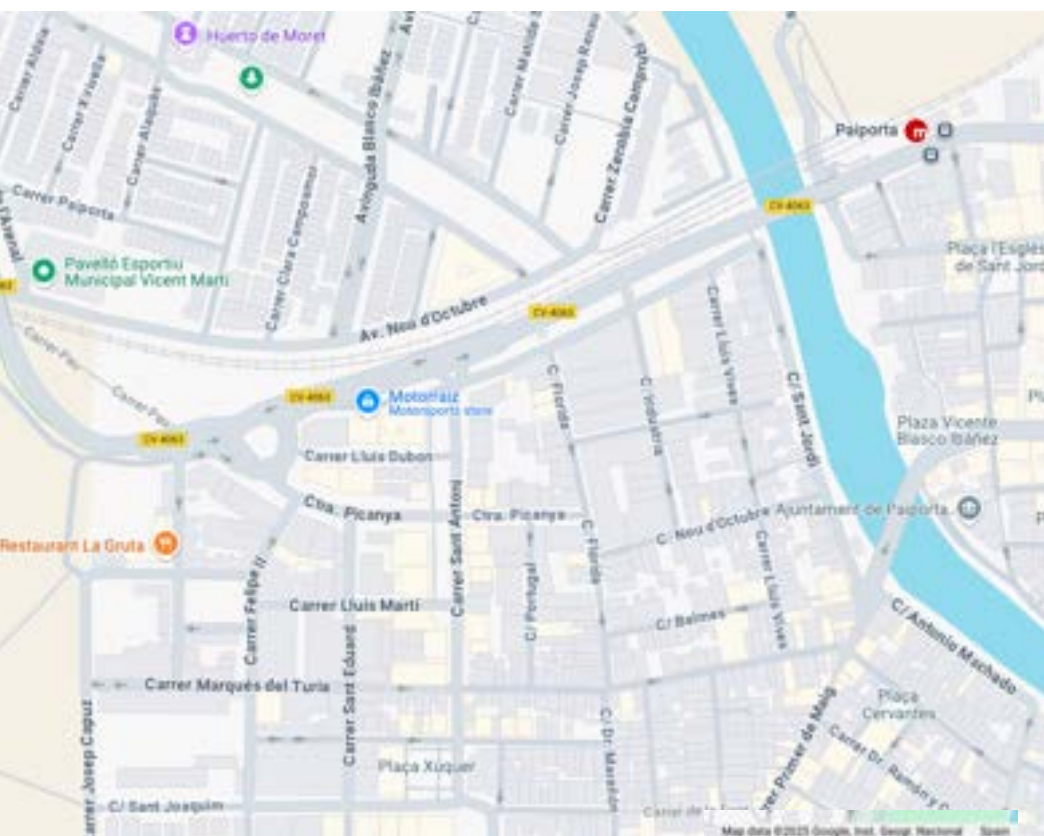
## More detailed maps in rural areas





## Reason 1

**More detailed maps in general**



# Google Maps



# OpenStreetMap



## Reason 1

## Pedestrian Routing - Google Maps vs CoMaps (OSM)



Routing over  
"Senderos": 22 min

"Take me to  
G&T"



## Reason 2

## Disaster Response and Humanitarian Mapping

Mapping our world together

[HOT](#) Humanitarian OpenStreetMap Team

[WHAT WE DO](#) [OUR WORK](#) [TOOLS & DATA](#) [NEWS](#) [OPEN MAPPING HUBS](#) [COMMUNITY & ORGANIZATION](#) [PARTNER WITH US](#) [GET INVOLVED](#) [DONATE](#)

**HOT IS AN INTERNATIONAL TEAM DEDICATED TO HUMANITARIAN ACTION AND COMMUNITY DEVELOPMENT THROUGH OPEN MAPPING.**

[LEARN WHAT WE DO](#) [START MAPPING >](#)

<b>491K</b> Total Mappers <sup>1</sup>	<b>260M</b> Total Map Edits <sup>2</sup>	<b>156.4M</b> Buildings Mapped <sup>3</sup>	<b>3.4M</b> Roads Mapped (KM) <sup>4</sup>
-------------------------------------------	---------------------------------------------	------------------------------------------------	-----------------------------------------------



## Reason 2

## Disaster Response and Humanitarian Mapping

**Humanitarian OpenStreetMap Team**  
23,363 followers  
2mo · 🌐

#OSM Community, we urgently need your help to map roads and pathways in #Valencia and other affected municipalities due to severe flooding from #DANA. Your contributions can make a huge difference in the response efforts! Let's map: <http://bit.ly/SPNFloods24>

URGENT ACTIVATION



### SPAIN FLOODS 2024 RESPONSE



Photo: ©2024 NASA

We require your **urgent support** mapping.

**CAMPAIGN** [bit.ly/SPNFloods24](http://bit.ly/SPNFloods24)

Spain Floods 2024 | [tasks.hotosm.org](https://tasks.hotosm.org)

https://tasks.hotosm.org/projects/17948

Mapping our world together

**Tasking Manager** EXPLORE PROJECTS MY CONTRIBUTIONS LEARN ABOUT SUPPORT

#17948 | OSM España

### SPAIN FLOODS 2024: VALENCIA ROADS AND PATHS (OTHER AFFECTED MUNICIPALITIES)

Spain Floods 2024 · Spain · disaster response

On 29 October 2024, torrential rain caused by an isolated low-pressure area at high levels brought over a year's worth of precipitation to several areas in southeastern Spain, including the Valencian Community. The resulting floodwaters caused the deaths of at least 205 people and substantial property damage. It is one of the worst natural disasters in the history of Spain by the number of confirmed deaths. See more in the [October 2024 Spain floods Wiki](#).

The OSM España community has identified it as a priority to complete the road network in the most affected region. Please contribute to this project to fill these data needs. See more in the [España/Humanitario/DANA 2024 Wiki](#).

Please map the priority area marked in red first. When that area is nearly finished, move to the next.

TYPES OF MAPPING:

IMAGERY: **ESRI World Imagery**

694 contributors Last contribution 1 month ago

Moderate

Overview · Description · Coordination · Teams & Permissions · Questions and comments · Contribution > Share Add to Favorites **Contribute**

**DANA Valencia (2024):**  
**OSM played a crucial role in mapping flood-affected areas**

[alpumapa.xyz](http://alpumapa.xyz)

## Reason 2

## Real-Life Examples - DANA Valencia - Oct 29 2024

OSM España  
516 members, 71 online

**Pinned message #1**  
Bienvenido al grupo de mensajería instantánea de la Comunidad de OpenStreetMap en España. NORMAS DEL GRUPO: 0- Este grupo es para hablar...

[Translate to English](#)

(¿eres tú, que comunicas?)

H :)  
Gente!! Activemos nuestro propio "HOT". A causa de la DANA varios puentes han caído y otras carreteras han desaparecido y van a tardar en volver. Especialmente zona de Valencia/Albacete

La pasarela de Picanys ya la he quitado yo.

Si conocéis otra zona no dudéis de actuar sobre puentes y otros elementos que tardarán en volver. yo he añadido destroyed al bridgenyes quedando: destroyed:bridgenyes

He ido aquí ...pero no he visto nada. ¿No había una página con todas estas etiquetas?  
[https://wiki.openstreetmap.org/wiki/Disaster-specific\\_tags](https://wiki.openstreetmap.org/wiki/Disaster-specific_tags)

Jordi M  
Yo solo he encontrado información útil en la página de "destroyed" (<https://wiki.openstreetmap.org/wiki/Key:destroyed>.)

Por cierto, "destroyed:" también debe de ponerse en la etiqueta highway, ¿no?


H :)  
sí

así lo he hecho, he dejado el nombre solo

la V-30 estará fuera de servicio algún día pero yo no la modificaría a no ser que se cayera algún puente

Tenemos trabajo. Id siguiendo las indicaciones de los videos  
<https://www.levante-emv.com/videos/camp-turia/2024/10/29/puente-vilamarxant-completamente-agrietado-limite-110838782.html>

Levante-EMV  
El puente de Vilamarxant, completamente agrietado y al límite de derrumbarse



fer  
H :)  
Si conocéis otra zona no dudéis de actuar sobre puentes y otros elementos que tardarán en volver. yo h...


Yo hice esto mismo en 2 años por la dana del año pasado por el centro, luego lo arreglan y se quita el prefijo

Bienvenido al grupo de mensajería instantánea de la Comunidad de OpenStreetMap en España. NORMAS DEL GRUPO: 0-

[Translate to English](#)

Jose Luis Infante admin  
Así se ve desde el aire el destrozo que ha provocado la DANA en el by-pass | Las Provincias  
<https://www.lasprovincias.es/comunidad/aere-destrozo-provocado-dana-bypass-20241031111747-rt.html>

Las Provincias  
Así se ve desde el aire el destrozo que ha provocado la DANA en el by-pass | Las Provincias  
El Ministro Óscar Puente describió este punto como «crítico» por su situación



Esto lo tenemos?

01 November 2024

Jordi M  
Lo estoy mirando

Jose Luis Infante  
Esto lo tenemos?

Editado: <https://www.openstreetmap.org/way/1317611449> y <https://www.openstreetmap.org/way/1317611451>

OpenStreetMap  
Way: Autovía del Mediterráneo (1317611449)  
OpenStreetMap is a map of the world, created by people like you and free to use under an open license.

Matrix Telegram Bridge  
Nukeador: Hola, comentaba con Jordi M como podemos ayudar en la zona del DANA, si usando el <https://tasks.openstreetmap.es/explore> para coordinar mapeos

Jordi M  
Bienvenido Nuke. Reenvío tus mensajes para que la gente sepa que ya te has presentado en el grupo valenciano de OSM.

Jordi M  
Forwarded messages.

Nuke 1/11/24  
Hola, me gustaría saber la posibilidad de datos abiertos. Disponibles en Valencia y en sus alrededores.



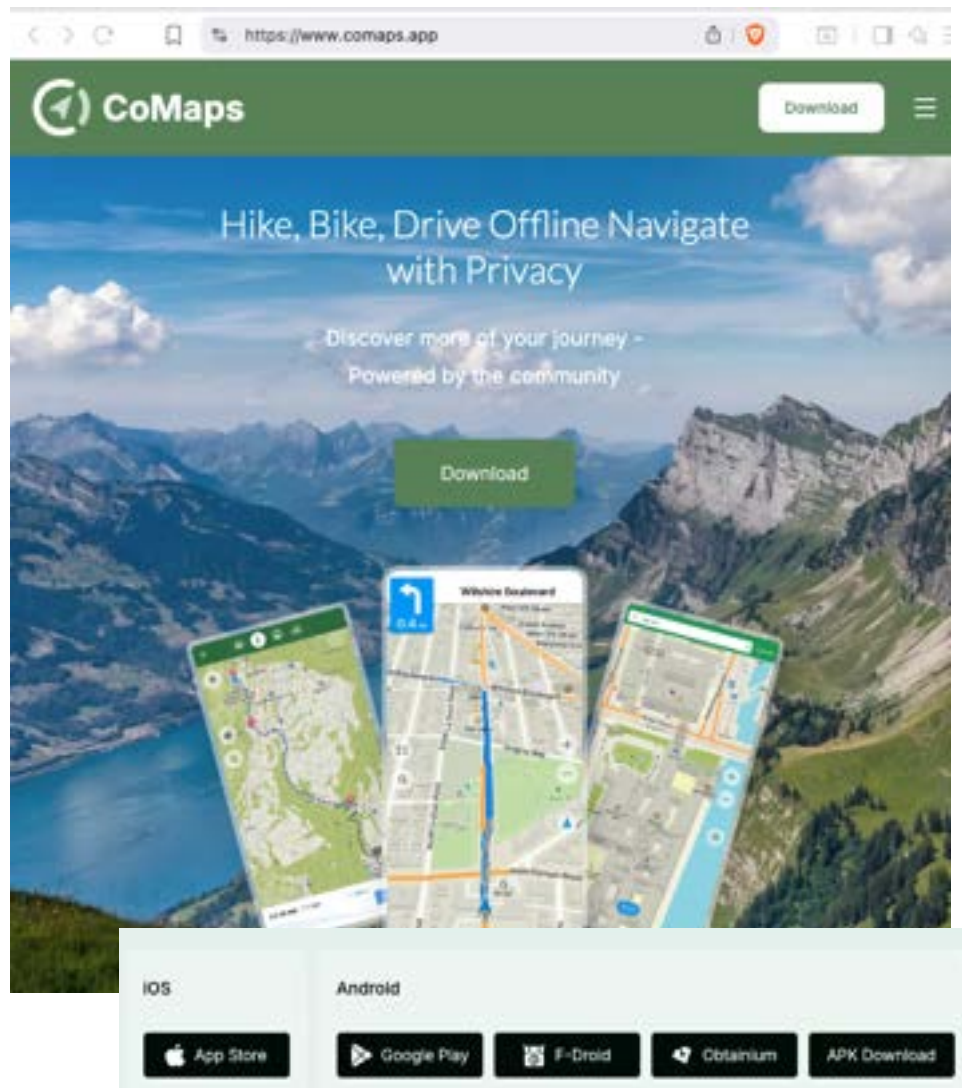
## Reason 3

# OpenStreetMap Apps as Big Tech Alternatives

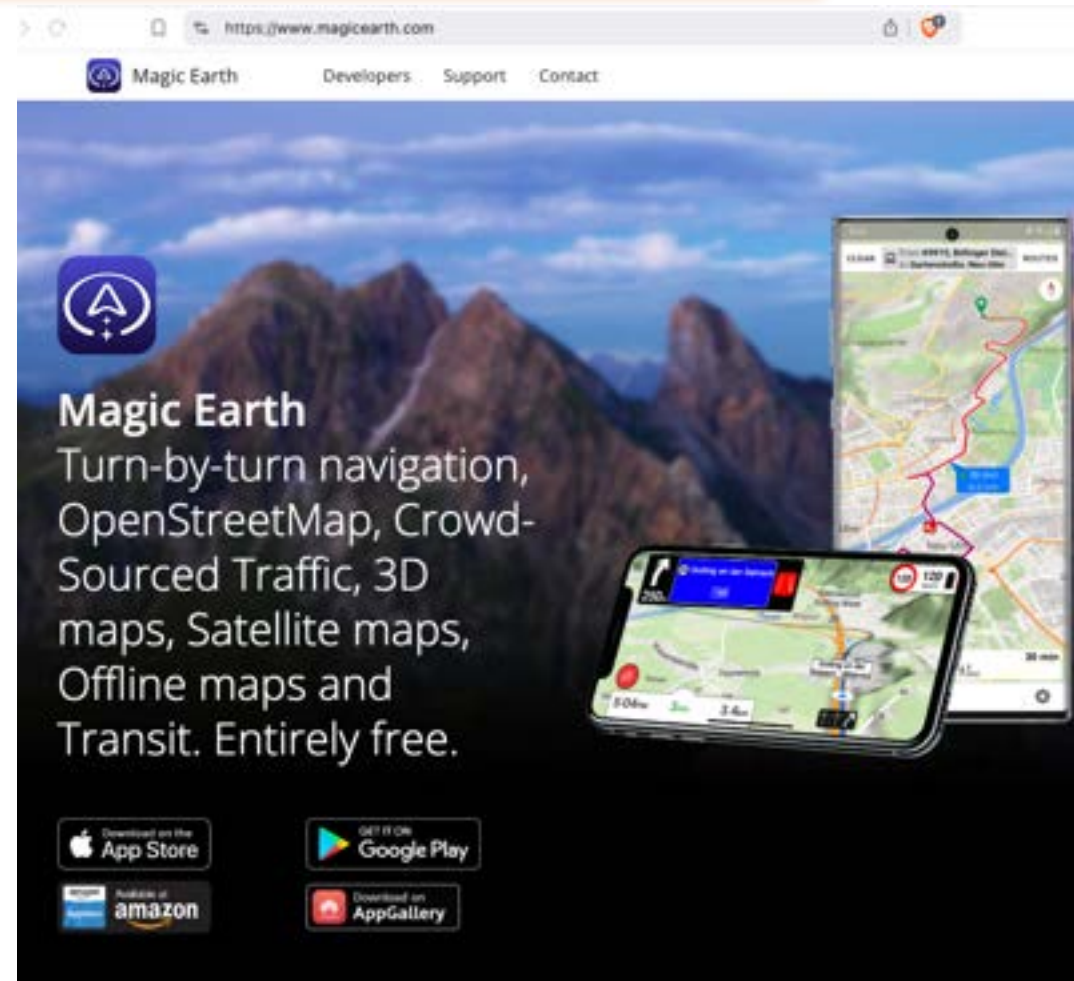
- **People moving away from “USA Big Tech Apps”**
- **Switch to alternatives**
  - from Twitter/X/FaceBook to Mastodon
  - from WhatsApp to Signal
  - from Instagram to PixelFed
  - from YouTube to PeerTube
  - etc
- **OpenStreetMap fits in this trend**
  - from Google Maps to CoMaps, MagicEarth, OSMAnd..

## Reason 3

## OpenStreetMap Apps as Big Tech Alternatives



The screenshot shows the CoMaps website with a green header. The main text reads "Hike, Bike, Drive Offline Navigate with Privacy" and "Discover more of your journey - Powered by the community". A green "Download" button is visible. Below the text, three smartphones are shown displaying the CoMaps app interface. At the bottom, there are sections for "iOS" and "Android" with links to the App Store, Google Play, F-Droid, and Obtainium, as well as an "APK Download" link.



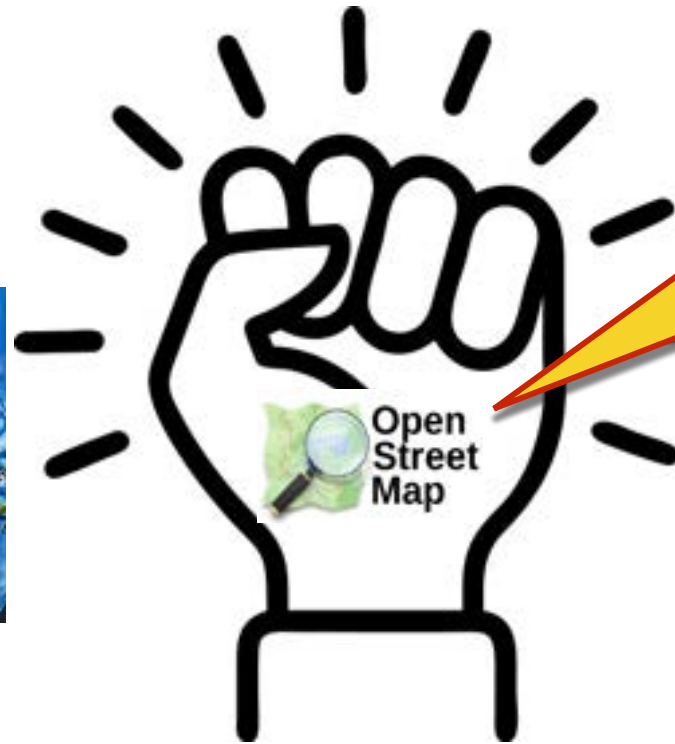
The screenshot shows the Magic Earth website with a dark background. The main text reads "Magic Earth" and "Turn-by-turn navigation, OpenStreetMap, Crowd-Sourced Traffic, 3D maps, Satellite maps, Offline maps and Transit. Entirely free." Below the text, there are logos for the App Store, Google Play, Amazon, and AppGallery. Two smartphones are shown displaying the Magic Earth app interface.



So?

Three Reasons - One Word

*Never mind  
the \$\*@\*% ,  
Let's take Mapping in  
our own hands*



Empowerment - Empoderamiento

# CoMaps Workshop

- **Installation**
- **Download map area**
- **Explore the map**
- **Explore settings**
- **Navigation (foot, car)**
- **Working with GPS tracks**
  - **Sharing**
  - **Recording**
  - **Creating ([gpsvisualizer.com/draw](http://gpsvisualizer.com/draw))**
- **Advanced: Edit OpenStreetMap**



# CoMaps Workshop - Docs

**<https://alpumapa.xyz/apps/comaps/>**

**<https://alpumapa.xyz/es/apps/comaps/>**



# CoMaps Installation

**<https://www.comaps.app/download/>**



- **Choose Store: App Store (iPhone) - Play Store (Android)**
- **Install**
- **On first open will ask to download map around current position**



# Explore the Map

<https://www.comaps.app/support/>



- **Panning and Zooming**
- **Map Styles and Layers - “Outdoors” and “Contour Lines” BEST!**
- **Map orientation: Fixed North Up or Floating**

# Navigation

- Find your favorite place - Tap and Select “Route To”
- Alternate mode of transport (foot, car, ...)
- Search place (looking glass), then “Route To:  
Hint, enter: “Ginny & Terry”
- Try “Route From” with “Route To”, and Saving route
- We will practice outside later





# Working With GPS Tracks

- “GPX File” universal file format tracks and routes
- Download from any place: Wikiloc, AllTrails etc
- Share via WhatsApp, Signal, or any Cloud storage
- We will practice outside later

**Tip: <https://infraestructuras.fadmes.es/senderos>**





SENDEROS

ESCALADA

VÍAS FERRATAS

BARRANCOS

ROCÓDROMOS

REFUGIOS

## PR-A 480 VÁLOR - CUESTA VIÑAS - YEGEN - LA SALUD

Origen: Localidad de Válor

Destino: Localidad de Válor

Provincia: Granada

Municipio: Alpujarra de la Sierra, Válor

### Datos del sendero

Estado del sendero: Homologado  
Itinerario: Circular  
Longitud: 12.84 km  
Tiempo de ida: 3 horas y 40 minutos  
Altitud máxima: 1370 m  
Altitud mínima: 894 m  
Desnivel positivo: 870 m  
Desnivel negativo: 870 m  
Época idónea: Todas excepto verano

### Dificultad MIDE:



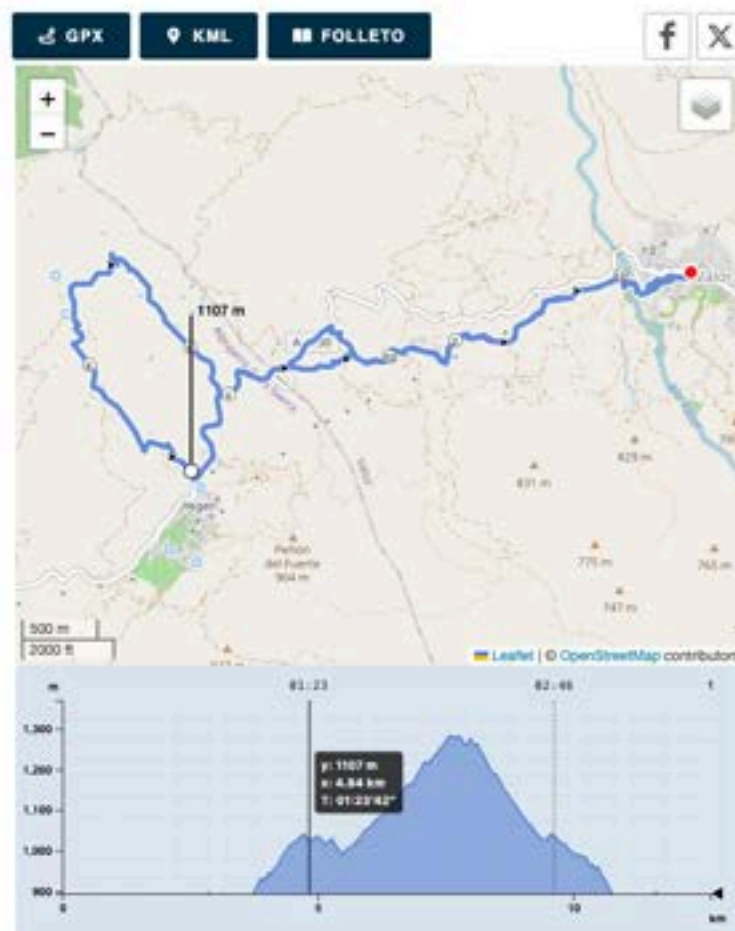
1 Valor mínimo, 5 valor máximo

### Dificultad SIDIF:



### Etiquetas experienciales:

- |                |                     |                          |
|----------------|---------------------|--------------------------|
| Geológico      | Histórico artístico | Marcha nórdica           |
| Medioambiental | Montaña             | Para hacer con niños +10 |



PR-A 480 VÁLOR ..... LA SALUD



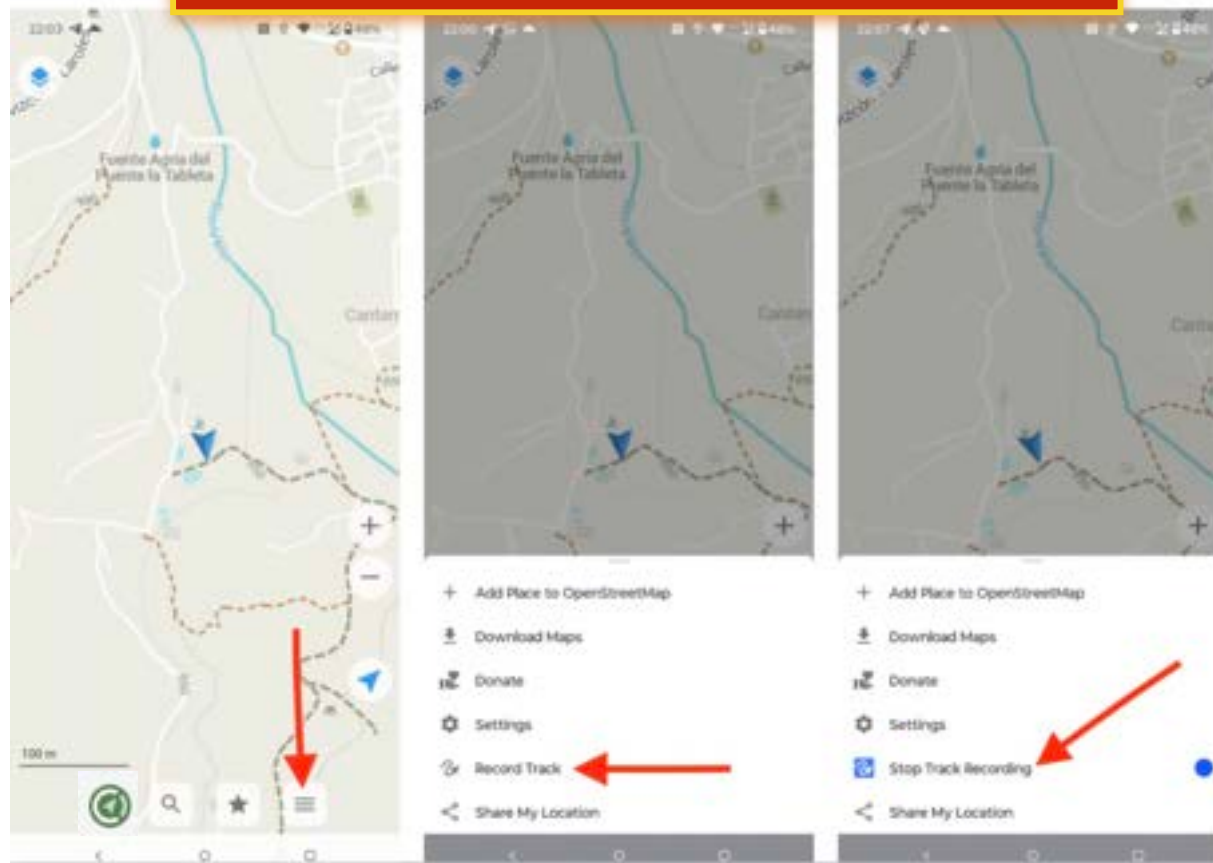
# Beware of rutas malas!



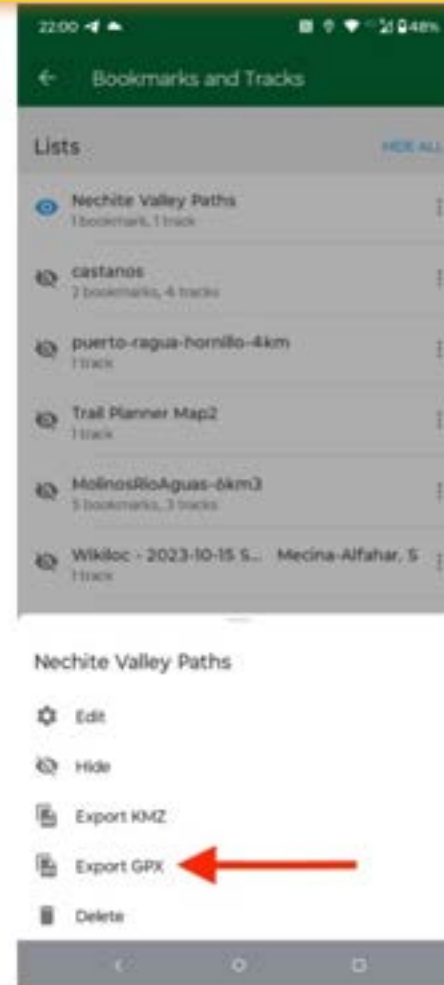
*Stuck!!*



## CoMaps - GPS Track Recording



## CoMaps - GPX Track Export





# Creating your own route - gpsvisualizer.com

**GPSVisualizer**  
**Freehand Drawing Utility ("The Sandbox")**  
[\[Click here for the Google Maps version\]](#)  
Use the toolbar on the right to add waypoint markers and tracks, then click one of the "save data" buttons to download as plain text, GPX, or Google Earth KML.  
Center the map on a location:  
   
OSM Nominatim found: **Válor, Comarca de la Alpujarra Granadina, Granada, Andalusia, 18470, Spain (36.99617, -3.081)** [precision: municipality]

**Drawing tools:**  
pan wpt **tr** save data  
**Your map elements:**  
[track 5]  
[Import a GPS file](#) [Import a URL](#)

Length: 0.485 km (0.301 mi)

Mouse: 36.99319, -3.08125  
Center: 36.99431, -3.08172

Map created at [GPSVisualizer.com](#)

[Link to this view](#)



GPSVisualizer Draw

# Thanks! Questions?

Home: [justobjects.nl](http://justobjects.nl)

Mastodon: [mapstodon.space/@justb4](https://mapstodon.space/@justb4)

LinkedIn: [linkedin.com/in/justb4/](https://linkedin.com/in/justb4/)

OSM Workshop: [alpumapa.xyz](http://alpumapa.xyz)