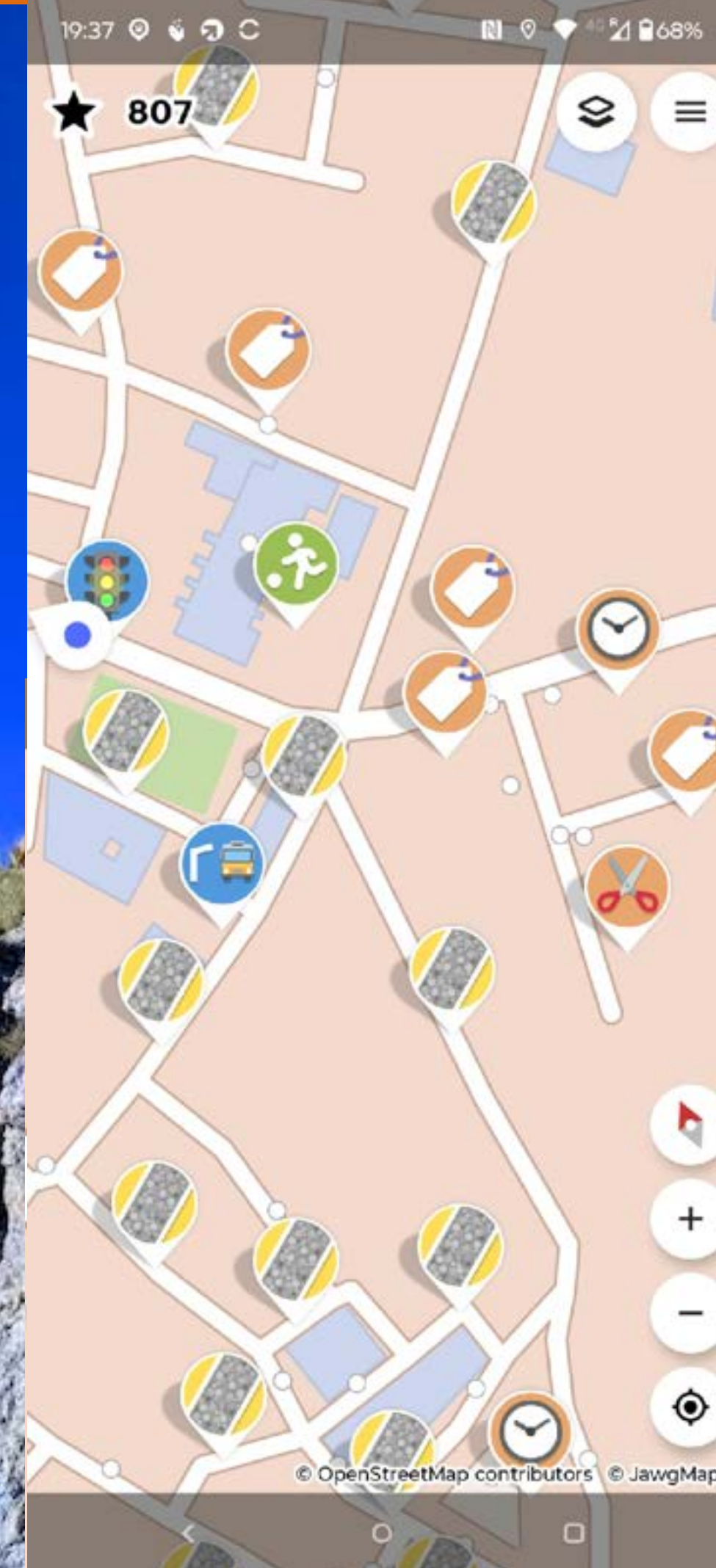


Vamos a mapear Las Alpujarras!
Let's Map Las Alpujarras!



Taller - Workshop - (English)

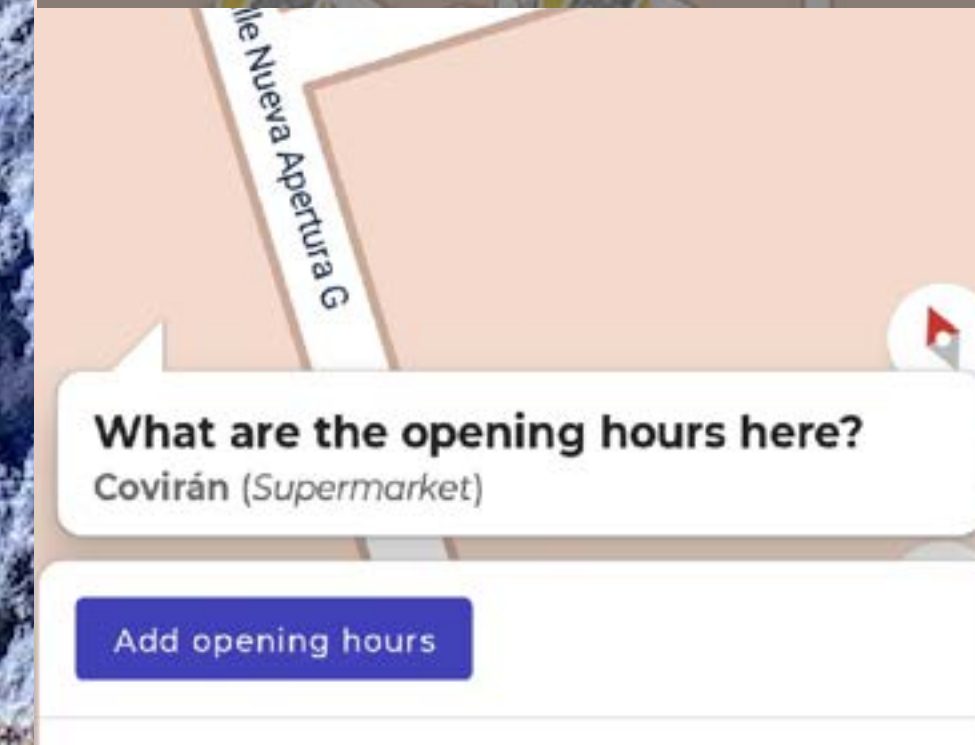
Learn how to map on OpenStreetMap, the free map of the world, the “Wikipedia of maps”. Roads, paths, bars, shops,...
By: Just van den Broecke (OSM-NL)



More

alpumapa.xyz - workshop
alpujarraknowmads.com
openstreetmap.org
openstreetmap.es

Próximamente también en español!
contact: justb4@gmail.com



Agenda

- Introduction (presentation slides)
- Workshop via alpumapa.xyz
 - create account on openstreetmap.org
 - learn, install and configure apps
 - go on the streets to map!
BE CAREFUL WHILE LOOKING AT PHONE AND WALKING!
 - return here for looking at results & evaluation

OSM Website: openstreetmap.org

Just van den Broecke
Open Source
Geospatial Professional
www.justobjects.nl

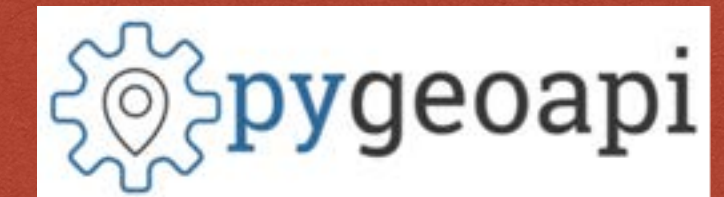
*Soy
hollandés*

**About
Me**

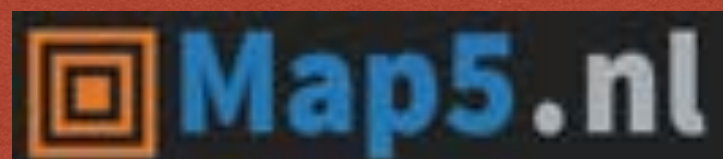
Founder



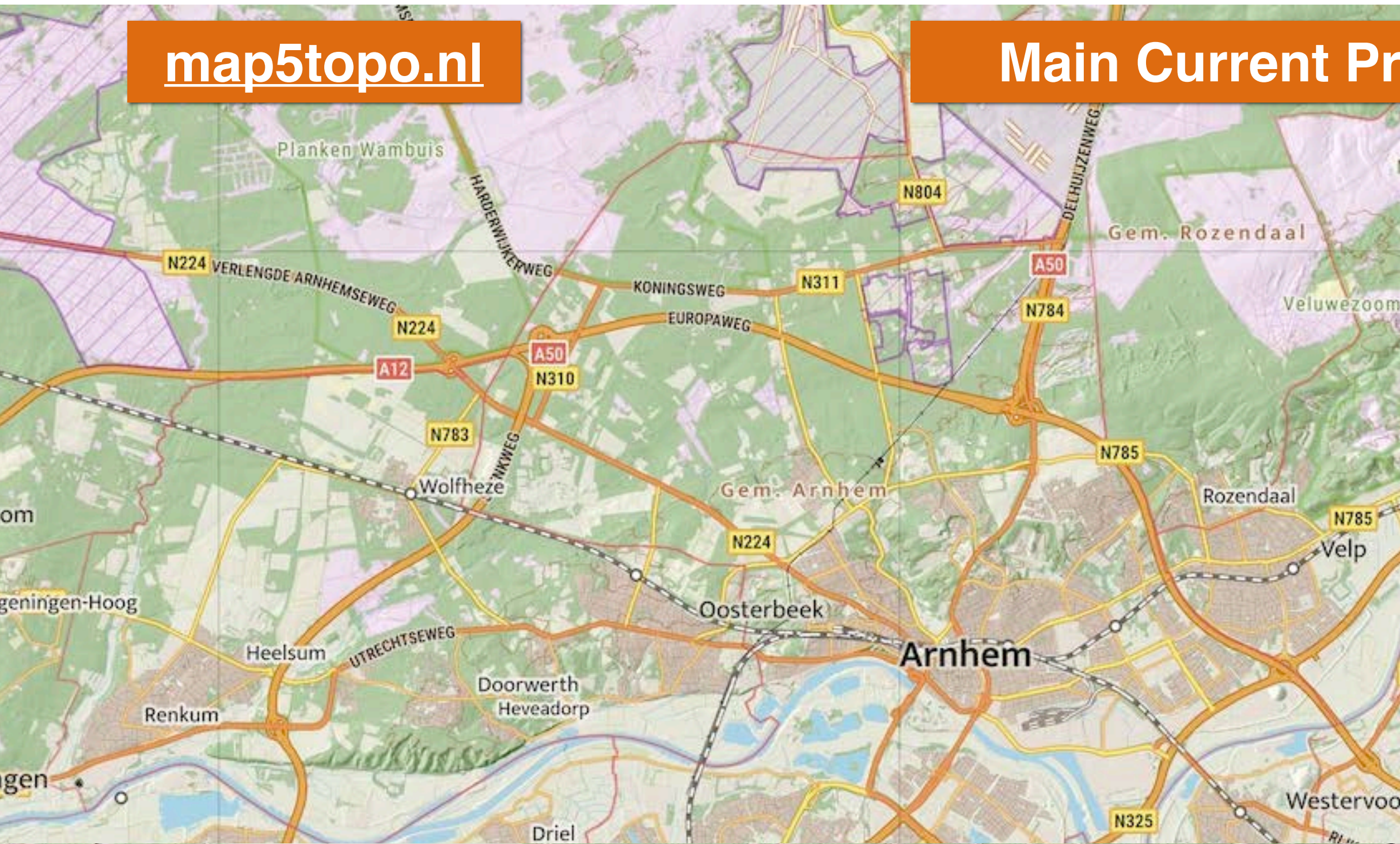
FOSS Projects



Cloud Services



OpenStreetMap Mapper
openstreetmap.org/user/justb



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



OSM España
515 members, 86 online



 Translate to English

 **Pinned Message #1**
Bienvenida/o al grupo de mensajería instantánea...



El en Corral-Rubio lo has puesto 2 veces.
01:10

Héctor

<https://www.msn.com/en-us/news/technology/pok%C3%A9mon-go-saves-stranded-group-after-google-maps-fails-them/ar-AA1w5Wf3>
Nombran a OSM muy de pasada, pero sí, OSM es útil de muchas maneras que no podemos ni llegar a imaginar.

MSN

Pokémon Go saves stranded group after Google maps fails them
A small group of tourists found themselves lost in a forest in Spain and were struggling to find their way back to civilization. When they realized that Google Maps wouldn't be of any help, one of them had the idea of...





2 09:40

Javier★

6

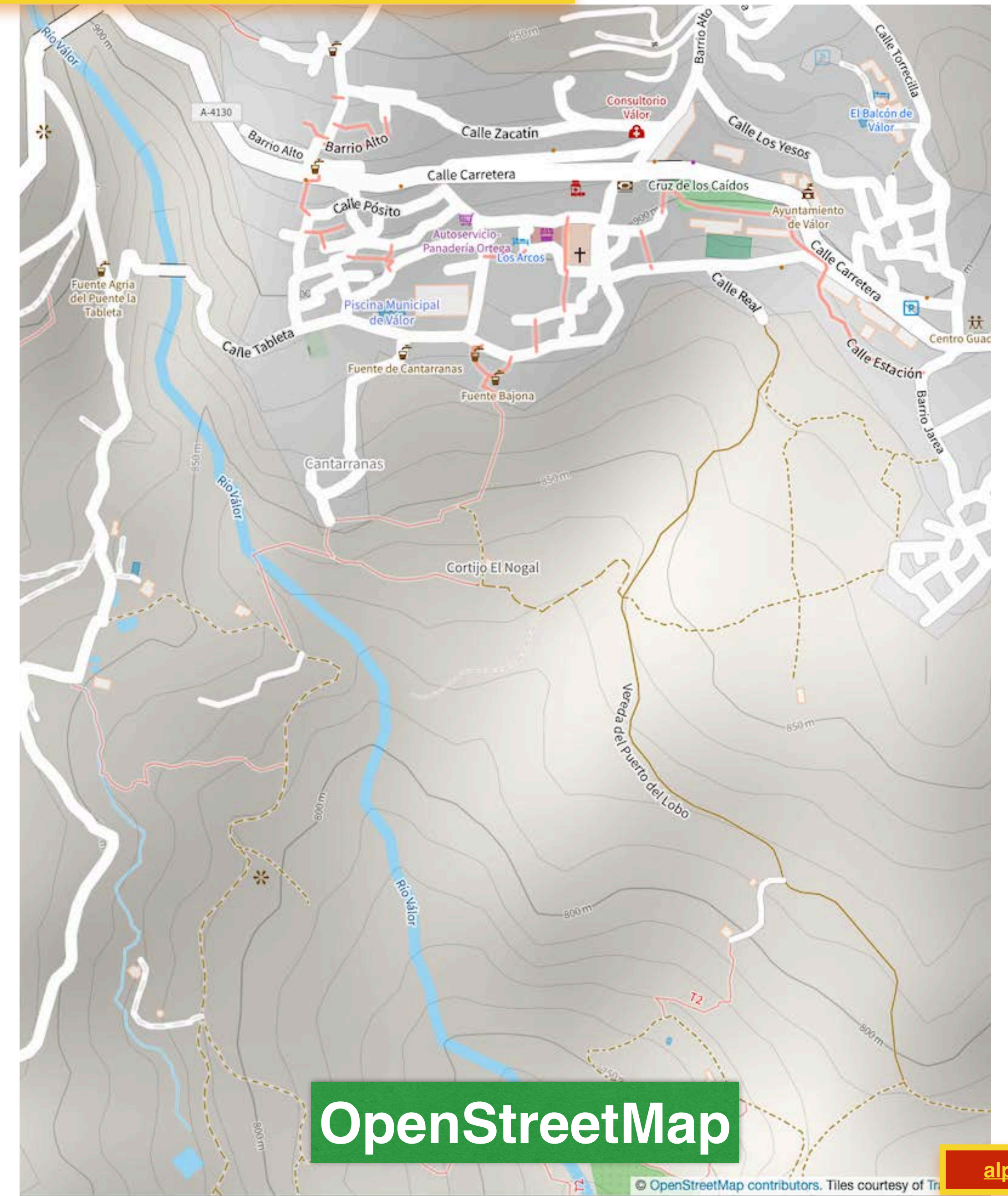
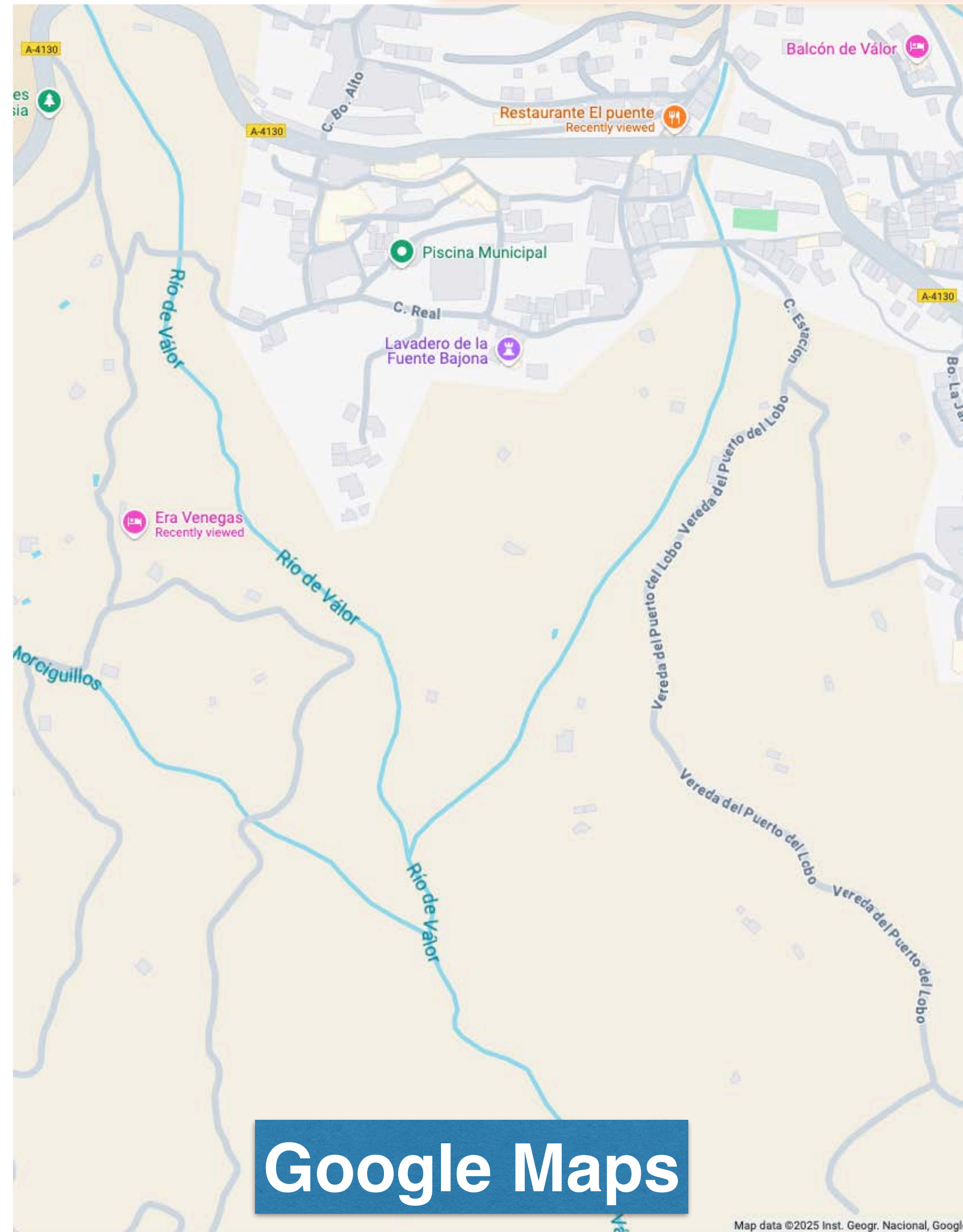
Why? Por que?

Three Reasons Tres Razones

alpumapa.xyz

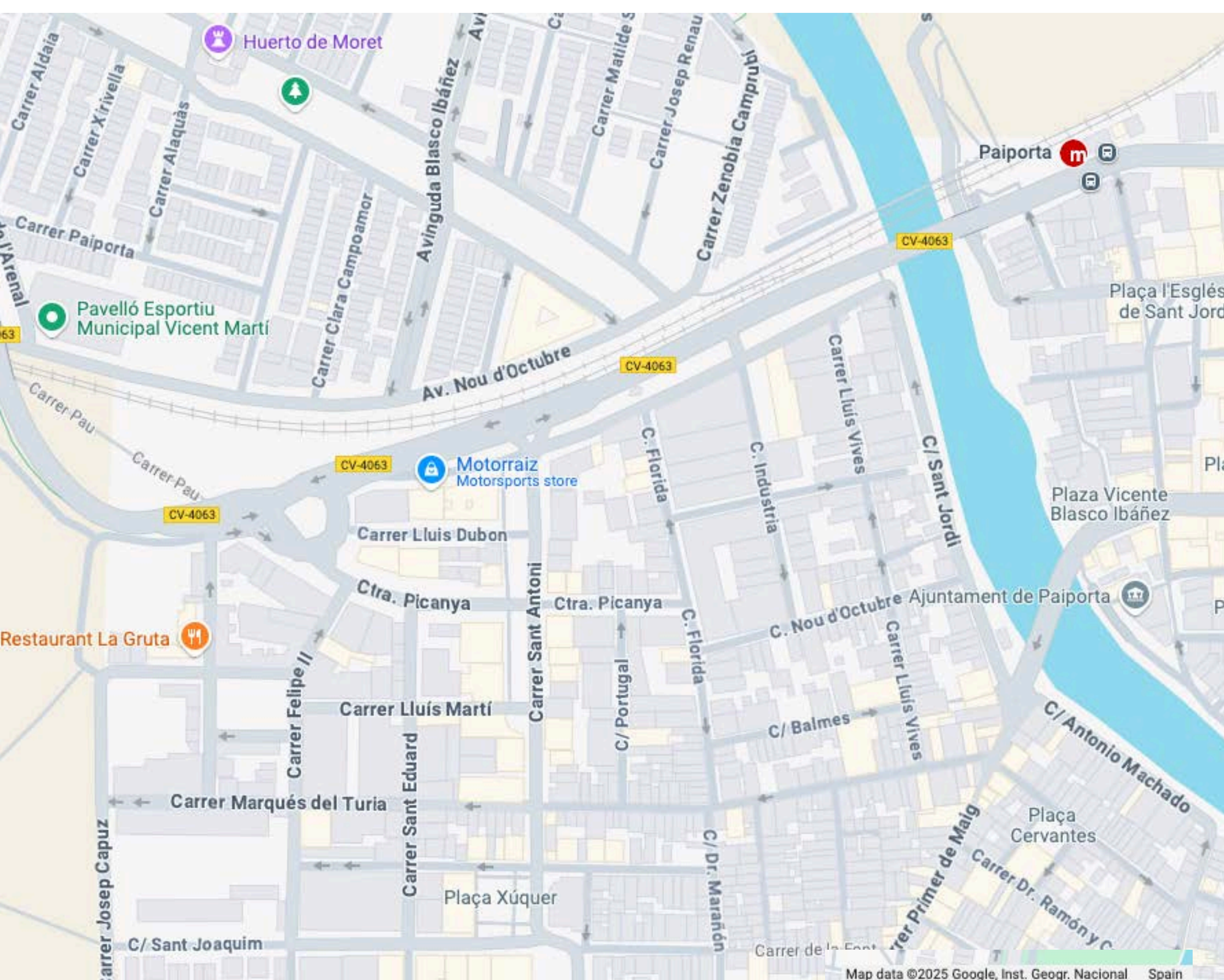
Reason 1

More detailed maps in rural areas

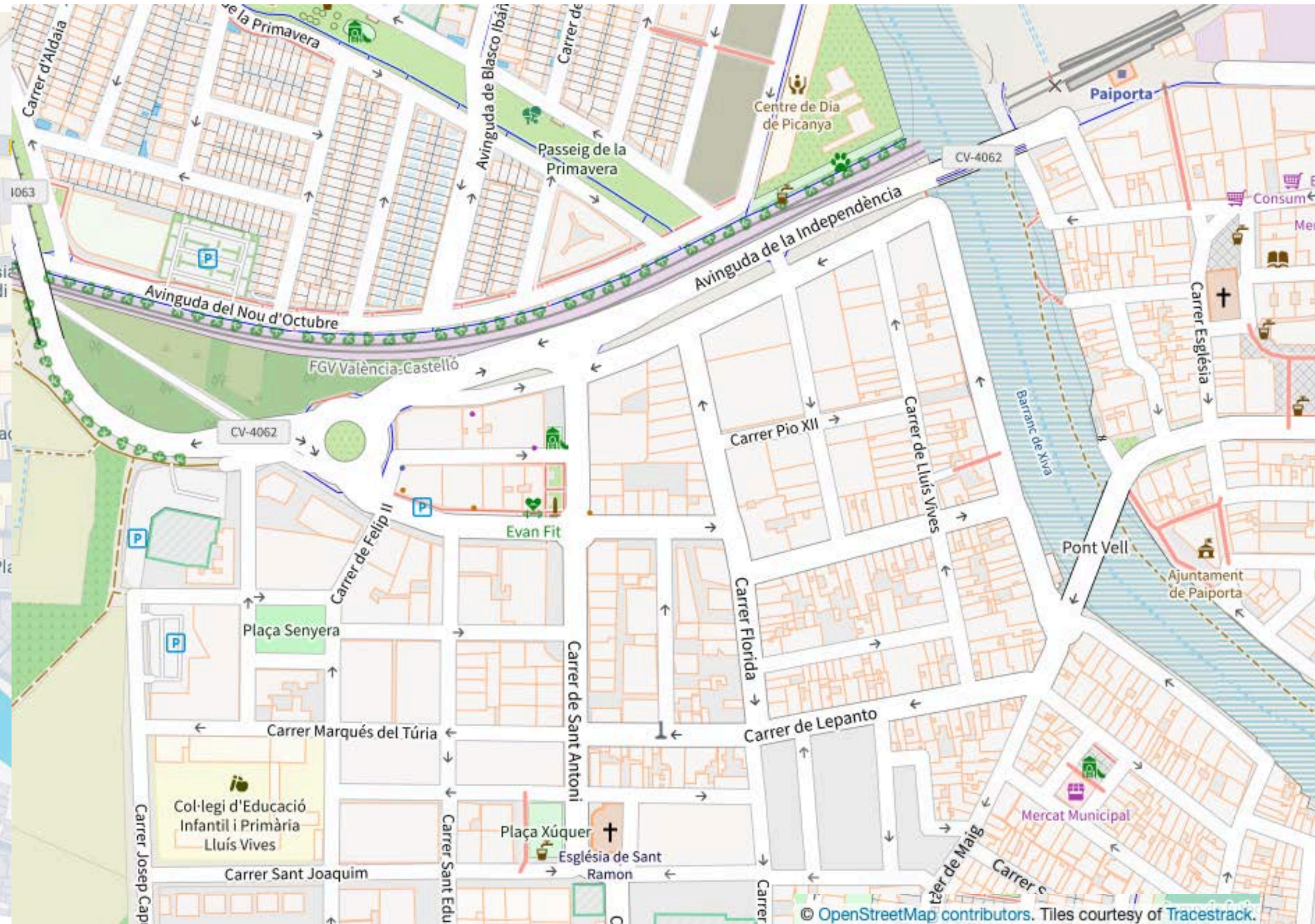


Reason 1

More detailed maps in general



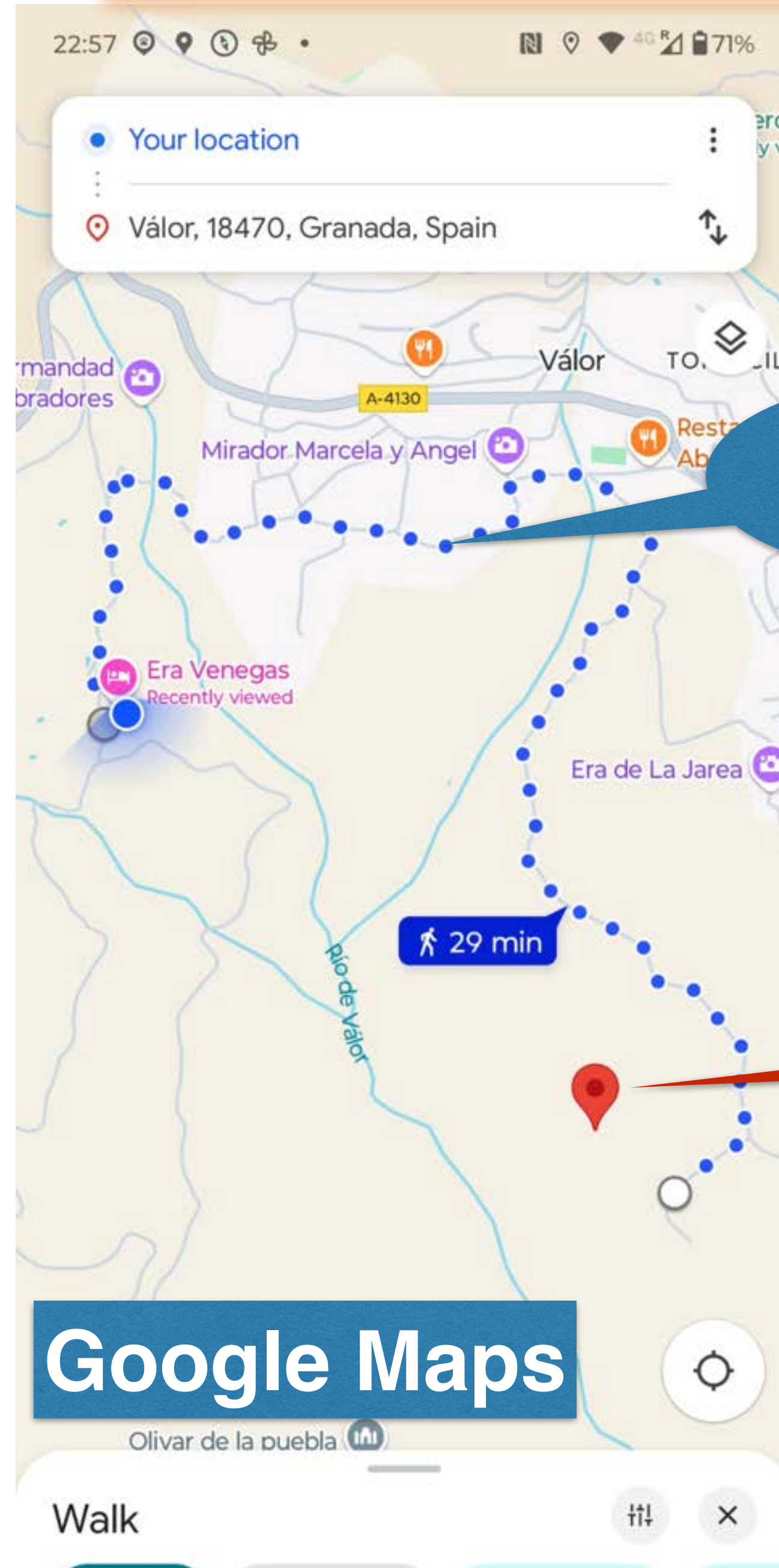
Google Maps



OpenStreetMap

Reason 1

Pedestrian Routing - Google Maps vs Organic Maps (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 >

491K Total Mappers^①

260M Total Map Edits^①

156.4M Buildings Mapped^①

3.4M Roads Mapped (KM)^①

alpumapa.xyz

Reason 2

Disaster Response and Humanitarian Mapping



Humanitarian OpenStreetMap Team Website



SUPPORT



justb

 **HIGH**

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 man the priority area marked in red first. When that area is nearly finished, move to the rest

TYPES OF MAPPING



IMAGERY

ESRI World Imagery

694 contributors

Last contribution 1 month ago

Moderate

 No due date specified

[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

Reason 2

Real-Life Examples - DANA Valencia - Oct 29 2024

OSM España

516 members, 71 online

Pinned message #1

Bienvenida/o al grupo de mensajería instantánea de la Comunidad de OpenStreetMap en España NORMAS DEL GRUPO: 0- Este grupo es para hablar...

Translate to English

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 Picanya 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 bridge=yes quedando destroyed:bridge=yes

👍👤

He ido aquí ...pero no he visto nada. ¿No había una página con todas estas etiquetas?

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 vídeos

<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 sitios por la dana del año pasado por el centro, luego lo arreglan y se quita el prefijo

Bienvenida/o 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/comunitat/aire-destrozo-provocado-dana-bypass-20241031111747-nt.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://tareas.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, pertenecemos a la comunidad de datos abiertos BuscaBits en Valladolid, y nos preguntábamos cómo

alpumapa.xyz

- **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
 - etc
- **OpenStreetMap fits in this trend**
 - from Google Maps to Organic Maps, MagicEarth, OSMAnd..

Reason 3

OpenStreetMap Apps as Big Tech Alternatives

https://organicmaps.app

News • Donate • Contribute • F.A.Q. • GitHub • EN

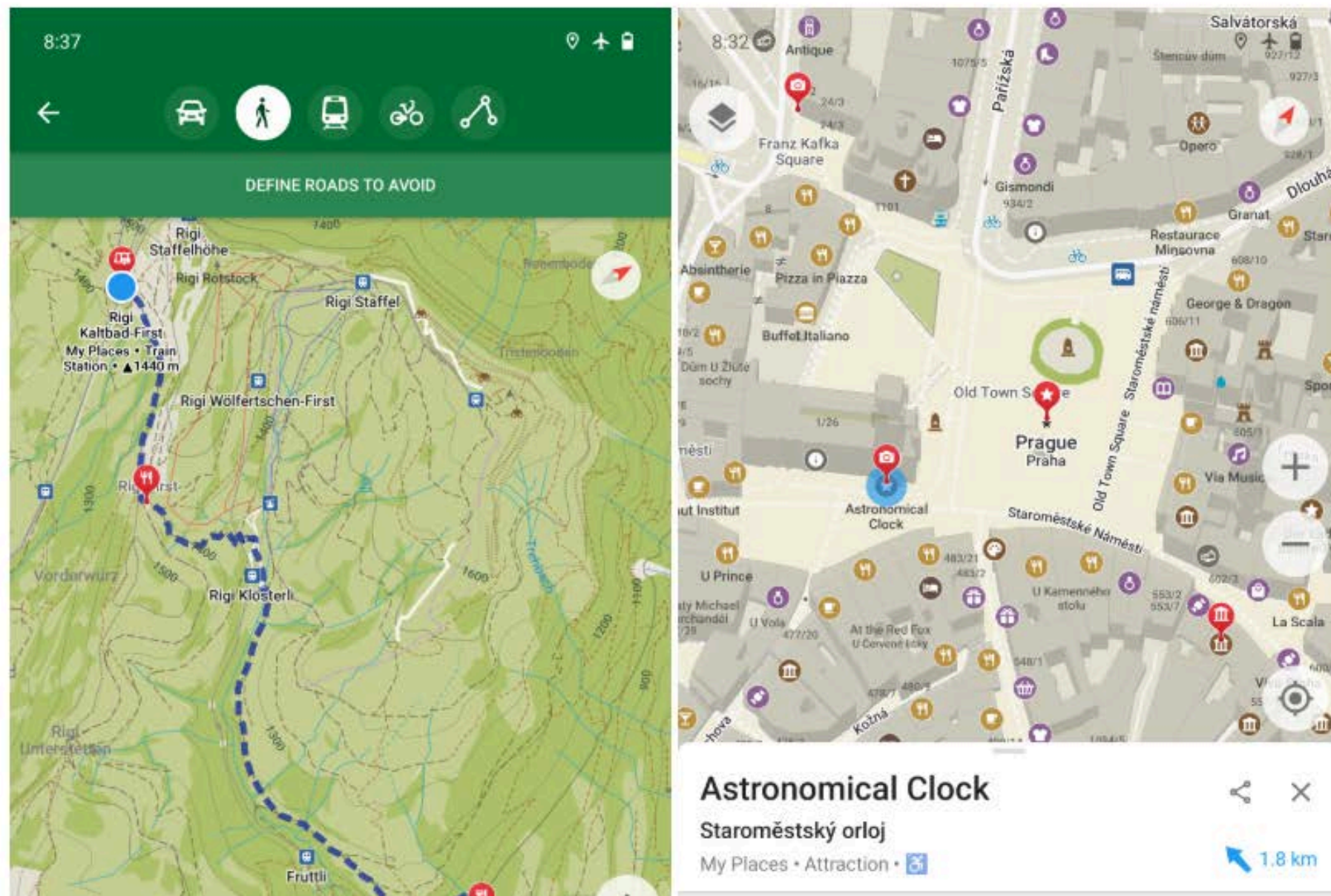
Organic Maps: Offline Hike, Bike, Trails and Navigation

Organic Maps is a free Android & iOS offline maps app for travelers, tourists, hikers, drivers and cyclists based on [OpenStreetMap](#) data created by the community. It is a privacy-focused, open-source [fork](#) of **Maps.me** app (previously known as [MapsWithMe](#)), maintained by the same people who created **MapsWithMe** in 2011.

Organic Maps is one of the few applications nowadays that supports 100% of features without an active Internet connection. Install Organic Maps, download maps, throw away your SIM card, and go for a weeklong trip on a single battery charge without any byte sent to the network.

In 2023, Organic Maps [got its first million](#) users. [Help us](#) to scale!

Download and install Organic Maps from [AppStore](#), [Google Play](#), [Huawei AppGallery](#), [Obtainium](#), [FDroid](#)



https://www.magicearth.com

Magic Earth Developers Support Contact



Magic Earth

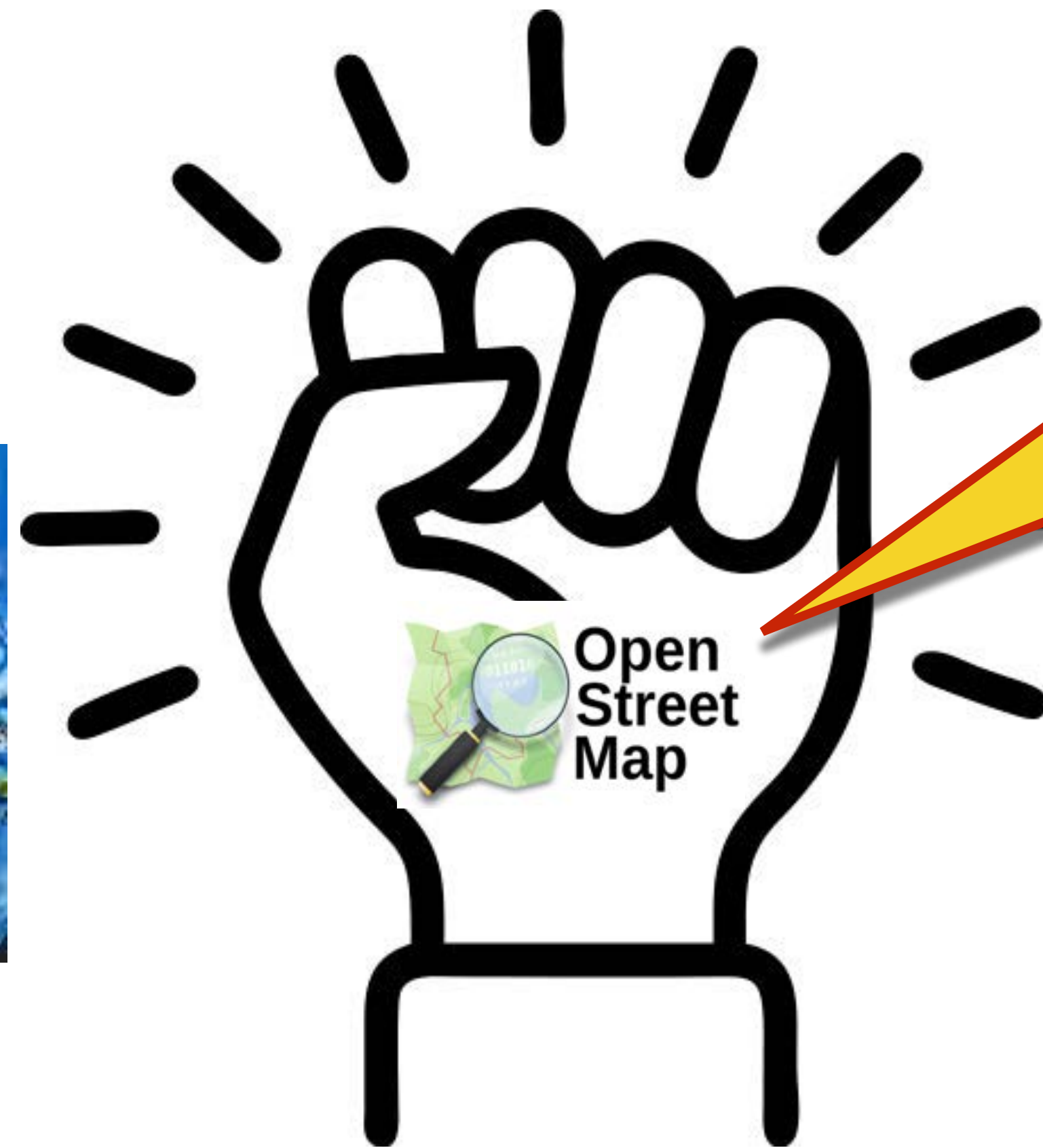
Turn-by-turn navigation, OpenStreetMap, Crowd-Sourced Traffic, 3D maps, Satellite maps, Offline maps and Transit. Entirely free.



So?

Three Reasons - One Word

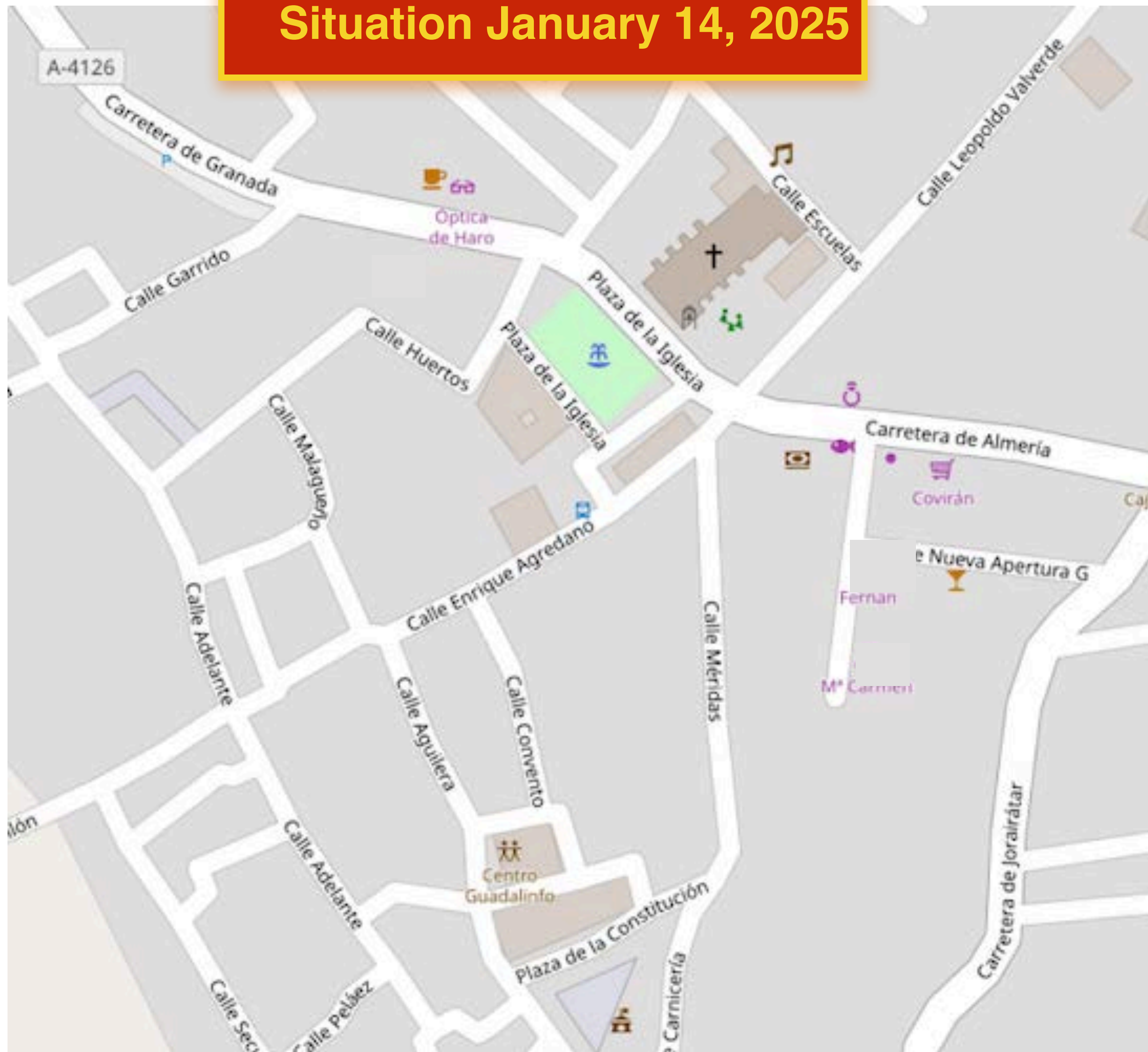
*Never mind
the \$*@*% ,
Let's take Mapping in
our own hands*



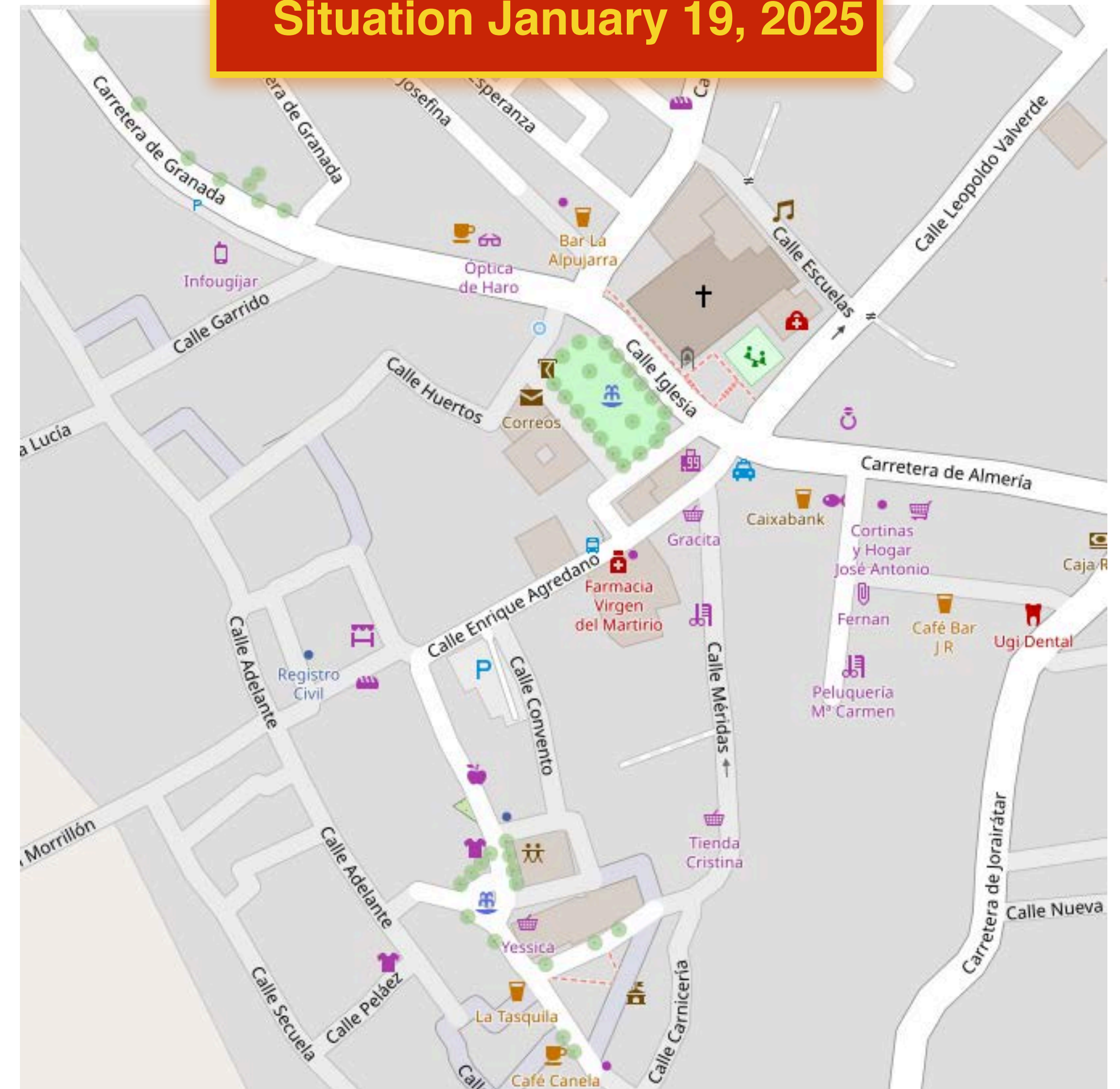
Empowerment - Empoderamiento

So let's Map Ugíjar - Results workshop January 16, 2025 + kapazao edits

Situation January 14, 2025



Situation January 19, 2025



Why OpenStreetMap Matters

- ***Open Data:***
All map data is freely available for use, modification, and sharing
- ***Community-Driven:***
Built and maintained by volunteers worldwide
- ***Customizable:***
Tailored for local needs, from urban planning to disaster management.

Benefits for Local Communities

Local Knowledge

- Contributors can map their own neighborhoods, highlighting underrepresented areas.
- Enables local businesses, landmarks, and trails to gain visibility.

Capacity Building

- Community mapping initiatives improve digital skills and geographic literacy.
- Encourages collaboration among residents.

Support for Development Projects

- Enhances urban planning, disaster response, and public health initiatives.
- Maps underserved areas for better resource allocation.

Real-Life Examples

Disaster Response

- **Haiti Earthquake (2010):** OSM provided critical maps for rescue operations.
- **DANA Valencia (2024):** OSM played a crucial role in mapping flood-affected areas during the Mediterranean "Depresión Aislada en Niveles Altos" (DANA) event. Volunteers quickly updated maps with flooded zones, blocked roads, and safe evacuation routes, aiding emergency services and community recovery efforts.

Local Advocacy

- **Cycling Networks:** Communities map bike trails to advocate for safer cycling routes.

Rural Development

- **Tanzania:** Villages mapped for better access to healthcare and education resources.

Outdoor Apps Using OpenStreetMap

- **Organic Maps:** offline maps with navigation for hiking and cycling
- **Komoot:** route planning for outdoor activities like hiking and biking
- **AllTrails:** provides trail maps and reviews for hiking and running
- **Wikiloc:** trail sharing and GPS navigation for outdoor enthusiasts
- **OsmAnd:** Offline maps with navigation and rich outdoor features

Smartphone Apps for Editing and Contributing to OSM

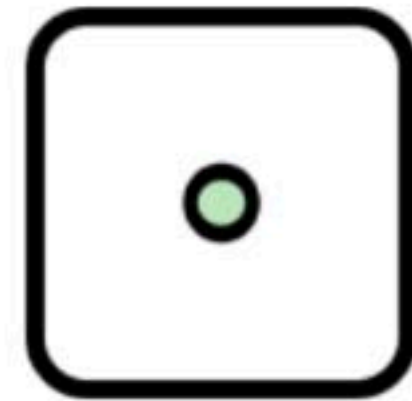
- **EveryDoor:** add or edit businesses, amenities, and more
- **StreetComplete:** improve map by answering map-related questions
- **Organic Maps:** also allows direct edits to OSM data
- **Many more like Vespucci, .. ,,**

Diving Deeper - How is OSM Data Structured?

Also Closed
Ways: Areas like
Orchards,
Buildings,..

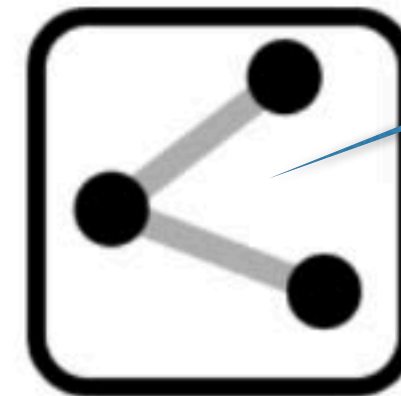
Two Main Concepts to Grasp

1. Core Elements:



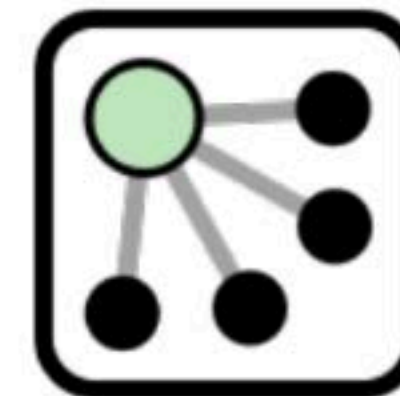
Node

“Points”



Way

“Lines”



Relation

“Combinations”

Church,
Restaurant,
Bench etc

Roads, Paths,
Tracks, etc

Busline,
Hiking Route

Examples:

wiki.openstreetmap.org/wiki/Beginners_Guide_1.3

Nice Overview: jakobmikschi.eu/post/openstreetmap_overview/

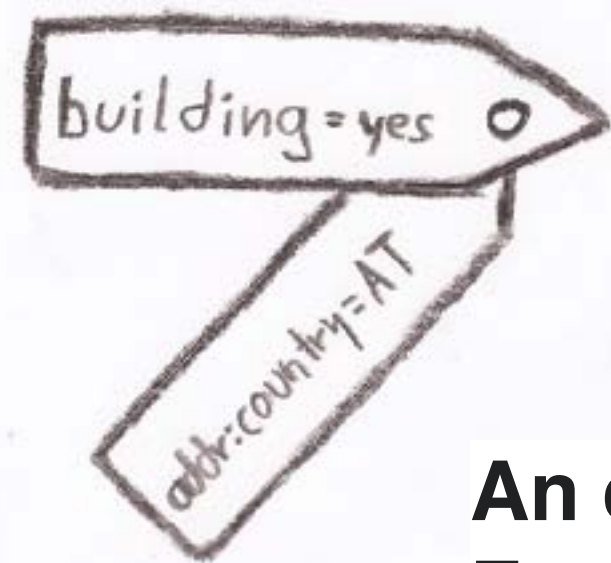
Diving Deeper - How is OSM Data Structured?

Two Main Concepts to Grasp

2. Tagging

The Elements Nodes, Ways, Relations have “Tags”

Tags are textual key-value pairs that describe properties of an Element



An element can have **tags**. A tag is a **key=value** pair describing what the element is. For instance, mapping a mobile phone store can be done by creating a **node**, and adding the following tags: **shop=mobile_phone**, **name=John Smith's phone centre**.

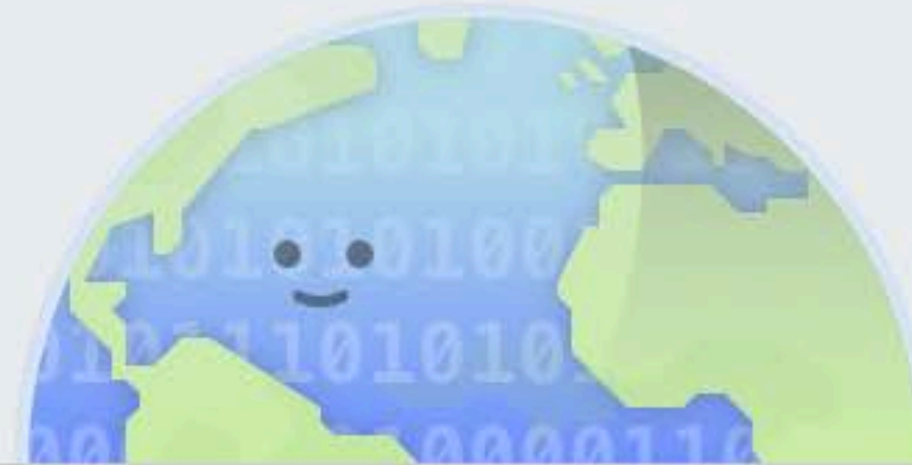
Here are some more examples:

- A parking lot can be a **closed way** tagged with **amenity=parking**
- A building can be a **closed way** tagged with **building=yes**
- A residential road can be a **way** tagged with **highway=residential**.
- A McDonald's branch can be a **node** tagged with **amenity=fast_food**, **brand=McDonald's**, **name=McDonald's**

wiki.openstreetmap.org/wiki/Beginners_Guide_1.3

Nice Overview: jakobmikschi.eu/post/openstreetmap_overview/

Signup at openstreetmap.org/user/new

[Edit](#)[History](#) [Export](#) [GPS Traces](#) [User Diaries](#) [Communities](#) [Copyright](#) [Help](#) [About](#)[Log In](#)[Sign Up](#)[Log in](#)[Sign up](#)

Free and editable. Unlike other maps, OpenStreetMap is completely created by people like you, and it's free for anyone to fix, update, download and use.

Sign up to get started contributing.

Email

Your address is not displayed publicly, see our [privacy policy](#) for more information.

Display Name

Your publicly displayed username. You can change this later in the preferences.

Password

Confirm Password

By signing up, you agree to our [Terms of Use](#), [privacy policy](#) and [contributor terms](#).

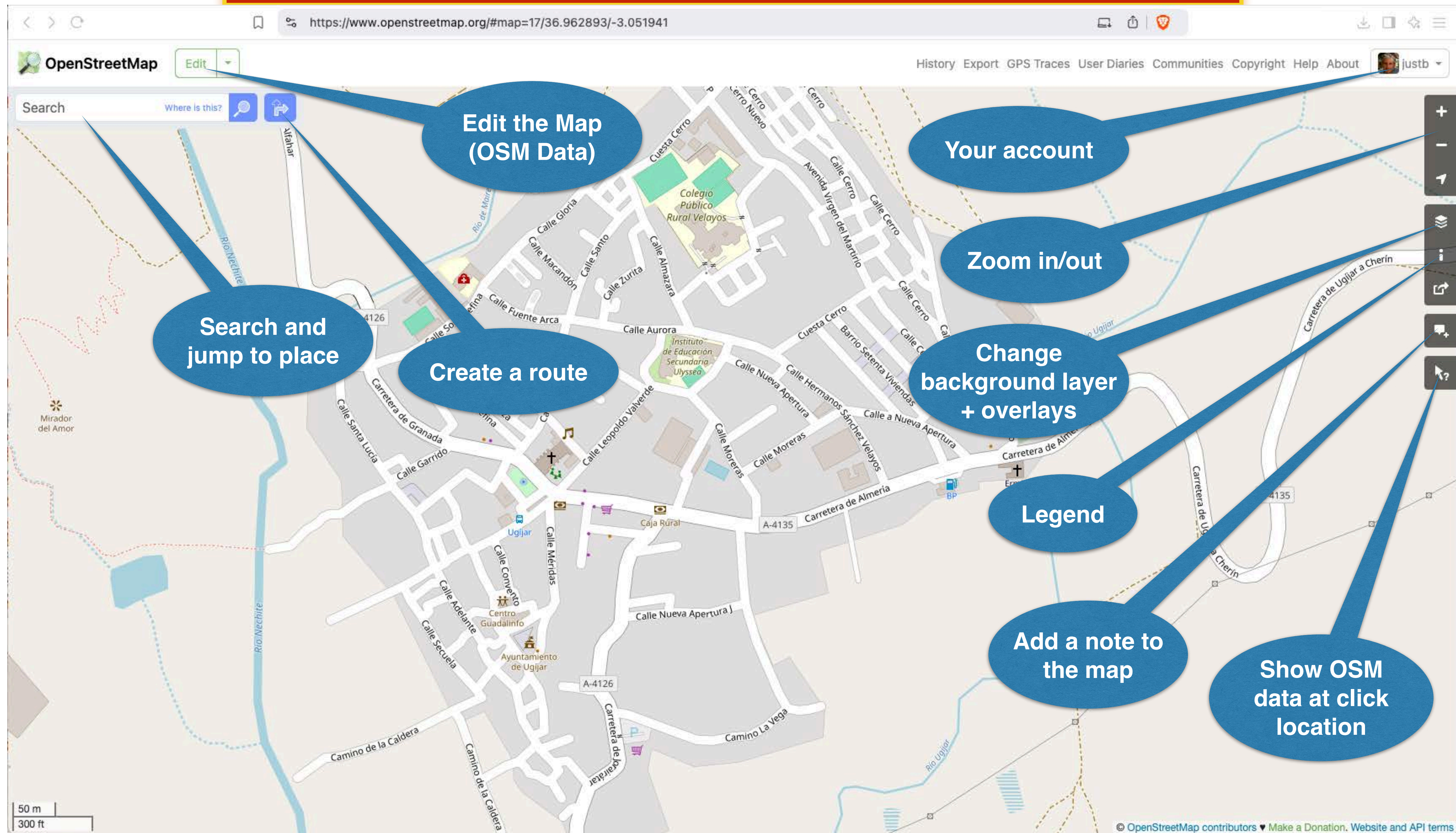
☐ I consider my contributions to be in the [public domain](#).

[Sign Up](#)

or sign up with a third party



Navigating the openstreetmap.org website



The iD editor on openstreetmap.org website

The screenshot displays the OpenStreetMap iD editor interface. The main map area shows an aerial view of a residential neighborhood with a road labeled "Carretera de Almería" highlighted in yellow. The left sidebar contains the "Edit feature" panel, which is divided into "Feature Type" and "Fields" sections. The "Feature Type" section shows "Tertiary Road" selected. The "Fields" section contains various input fields for road details, including "Name", "One Way", "Speed Limit", "Lanes", "Surface", "Structure", and "Road Number". The "Name" field is currently set to "Carretera de Almería". The "Speed Limit" field is set to "40, 50, 60... km/h". The "Lanes" field is set to "2". The "Surface" field is set to "Asphalt". The "Structure" section has radio buttons for "Bridge", "Tunnel", "Embankment", "Cutting", and "Ford". The "Road Number" field is currently empty. The top right of the interface shows the user's profile "justb" and navigation controls. The bottom right shows the number of edits and a scale bar.

Draw Mode

Tag Info

Selected Feature

Selected Feature Tags

Upload to OSM

OpenStreetMap Edit

History Export GPS Traces User Diaries Communities Copyright Help About justb

Inspect Add Feature Point Line Area Undo / Redo Save

Feature Type

Tertiary Road

Fields

Name Carretera de Almería

One Way ☐ No

Speed Limit 40, 50, 60... km/h

Lanes 2

Surface Asphalt

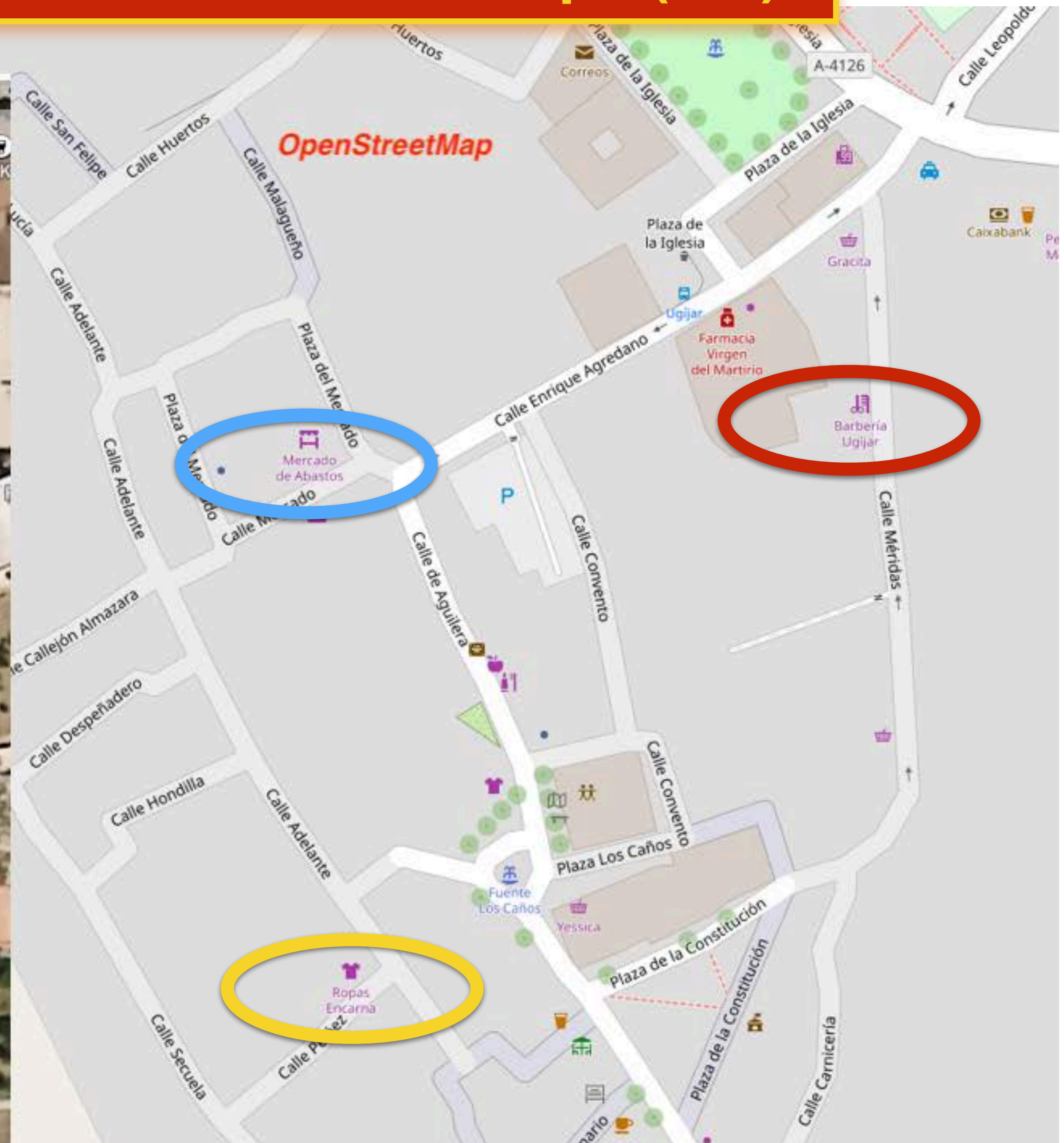
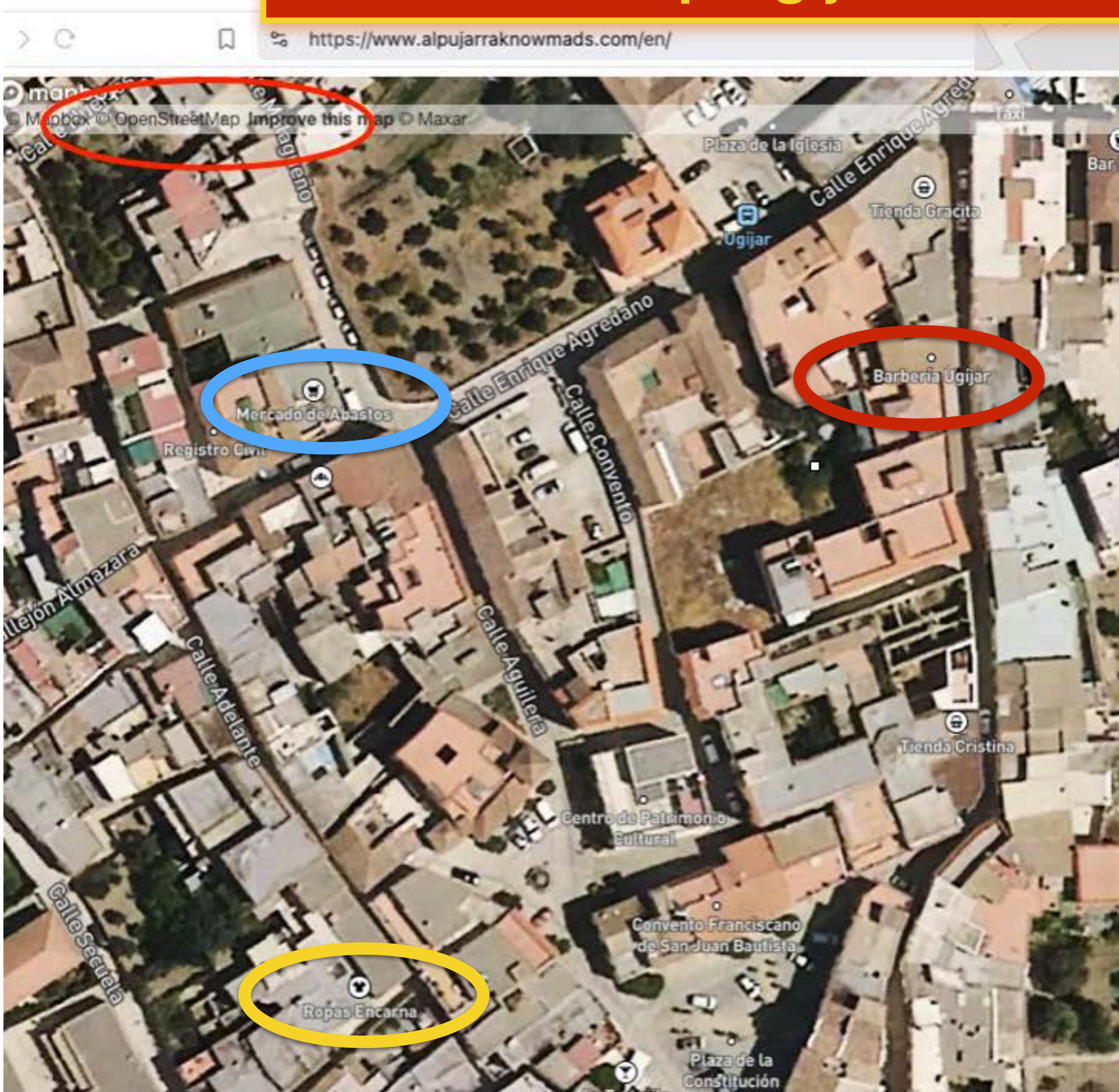
Structure ☐ Bridge ☐ Tunnel ☐ Embankment ☐ Cutting ☐ Ford

Road Number

View on openstreetmap.org

Edits by kräckel, ittriv, pittrichimica, and 7 others 1 hidden feature 2.30.4

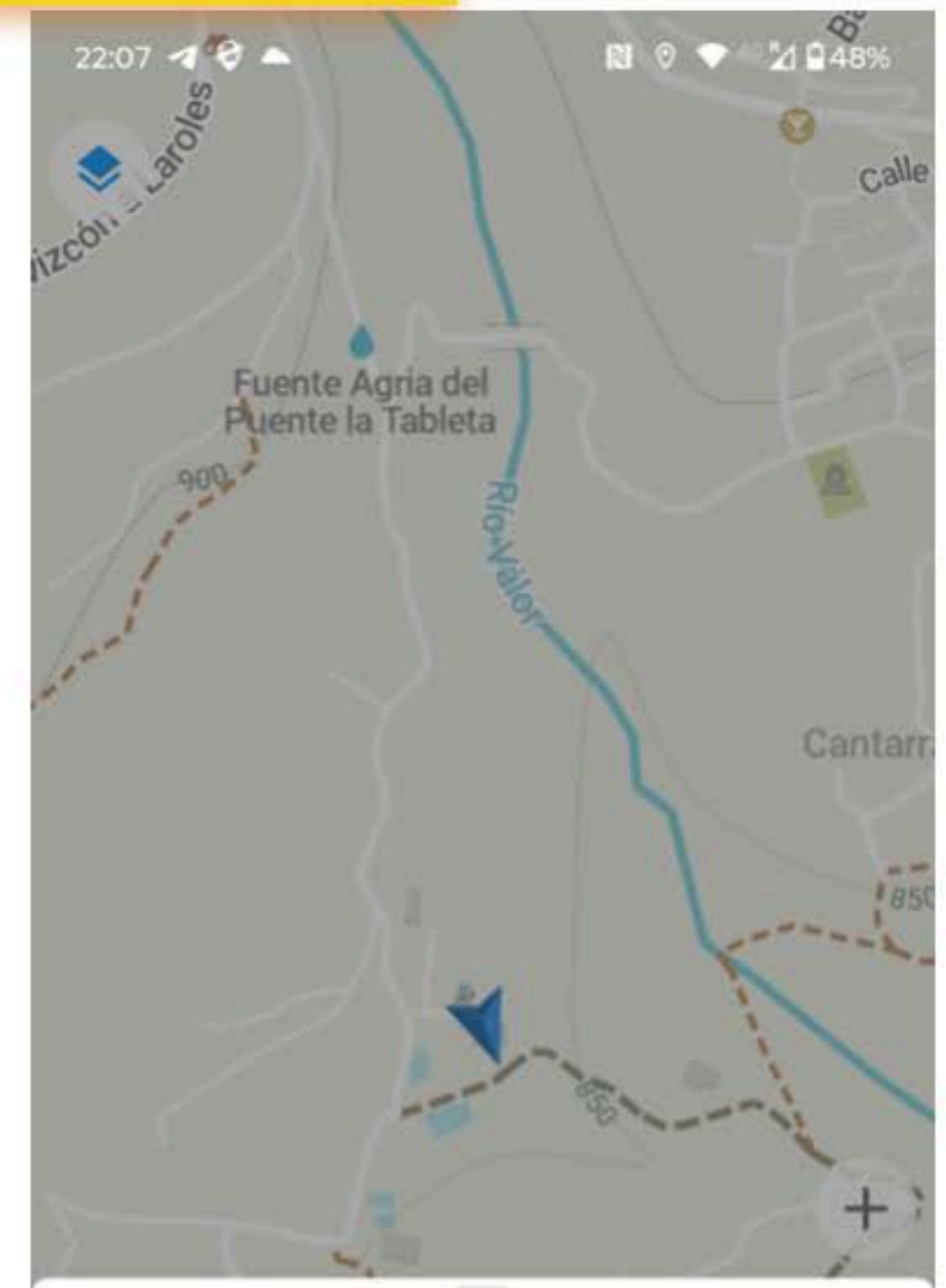
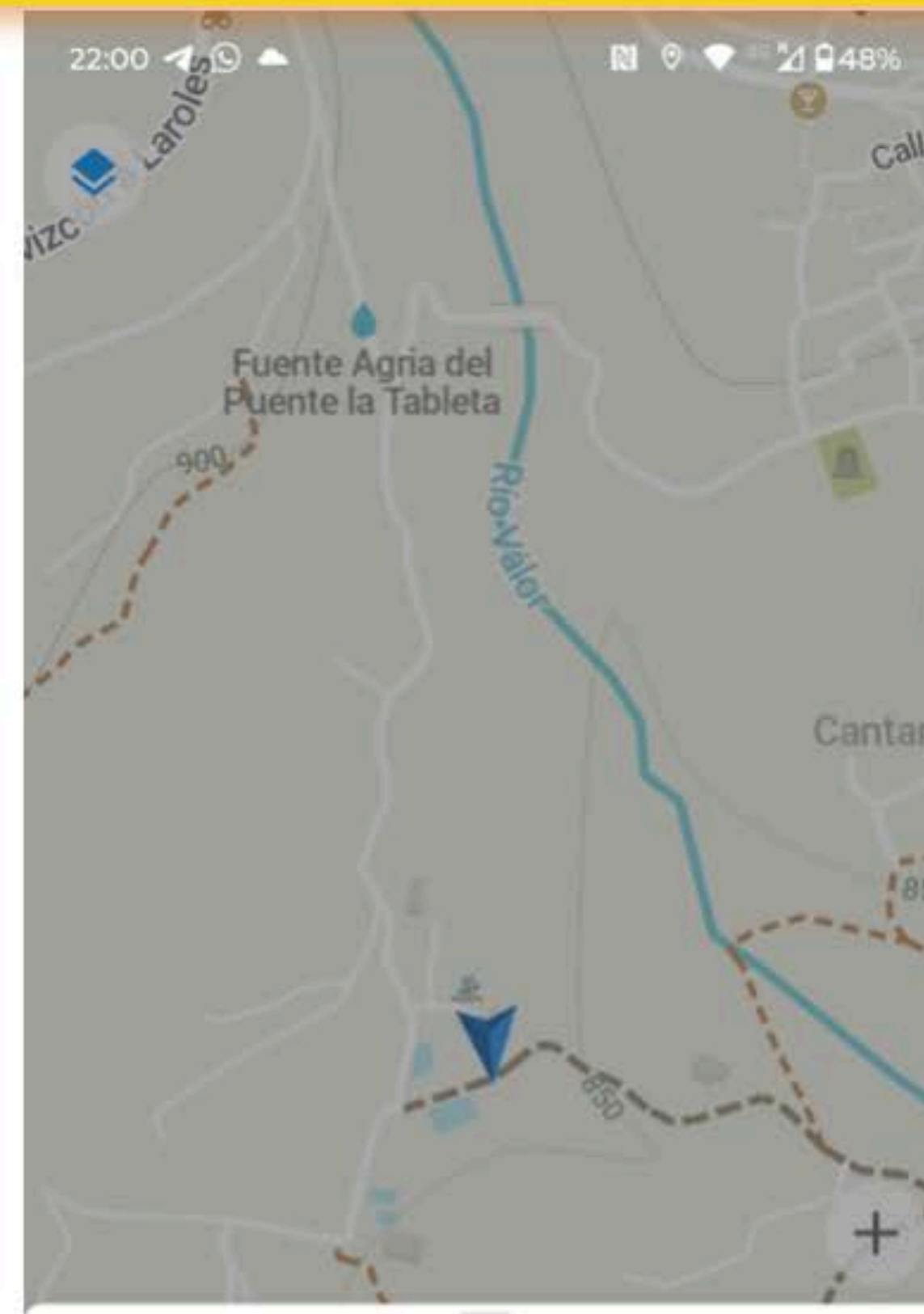
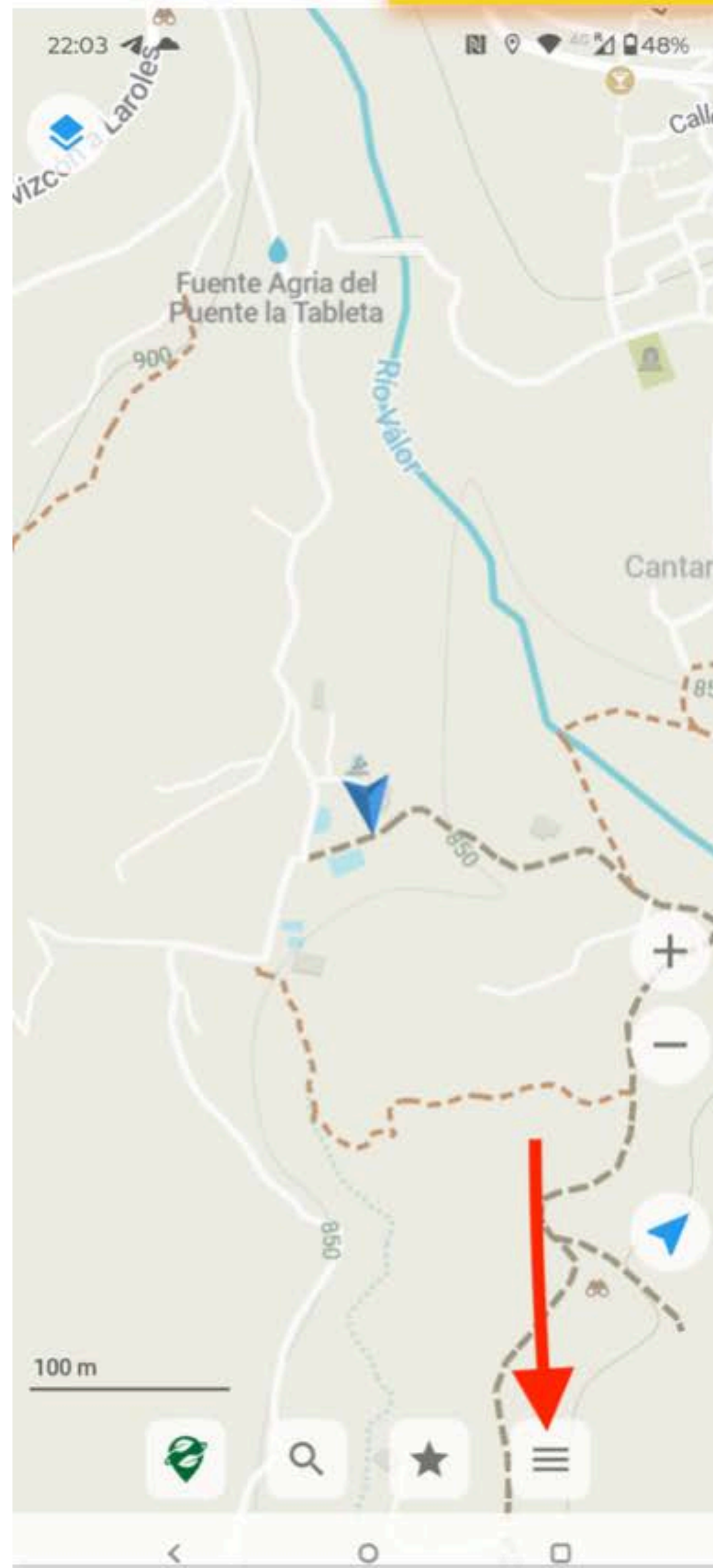
So let's Map Ugíjar - Results also on other maps (left)



Also Google Maps quite empty (Jan 14, 2025)...



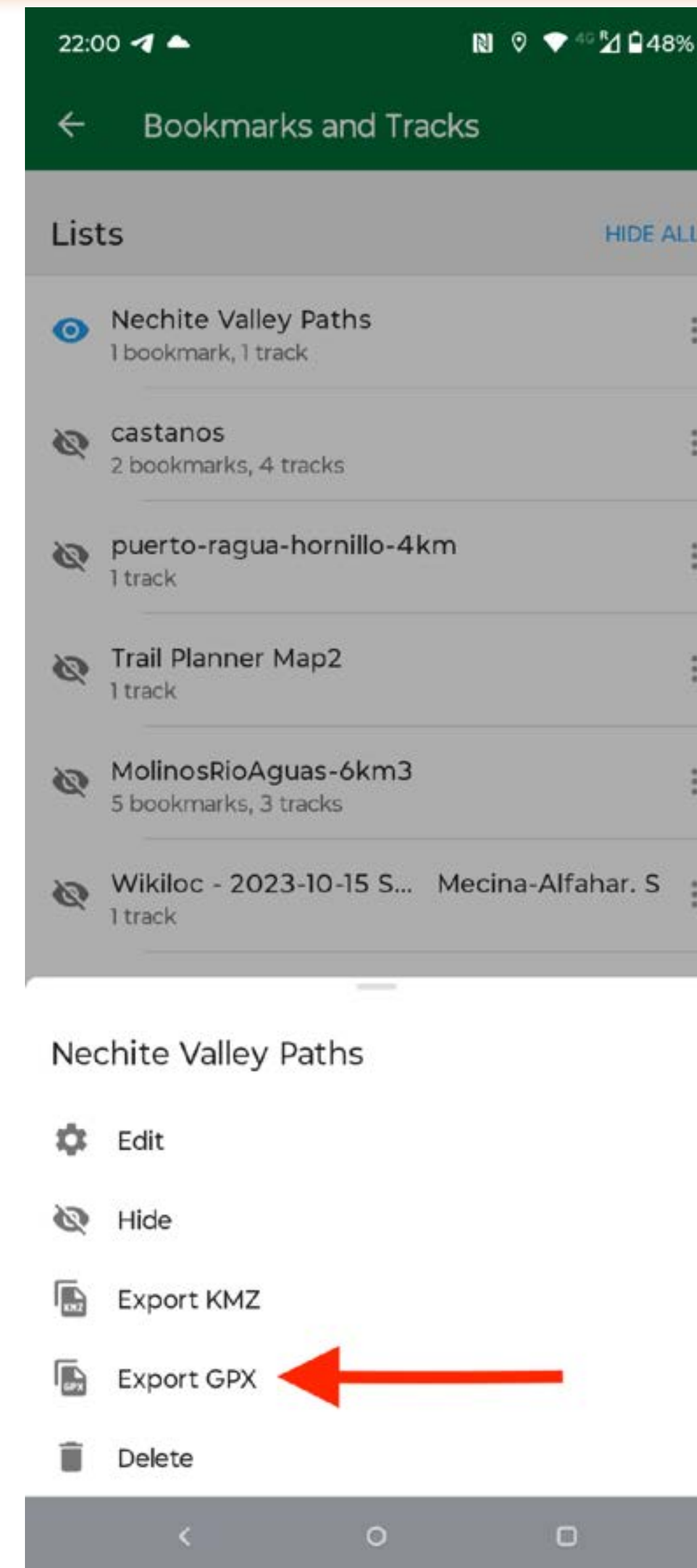
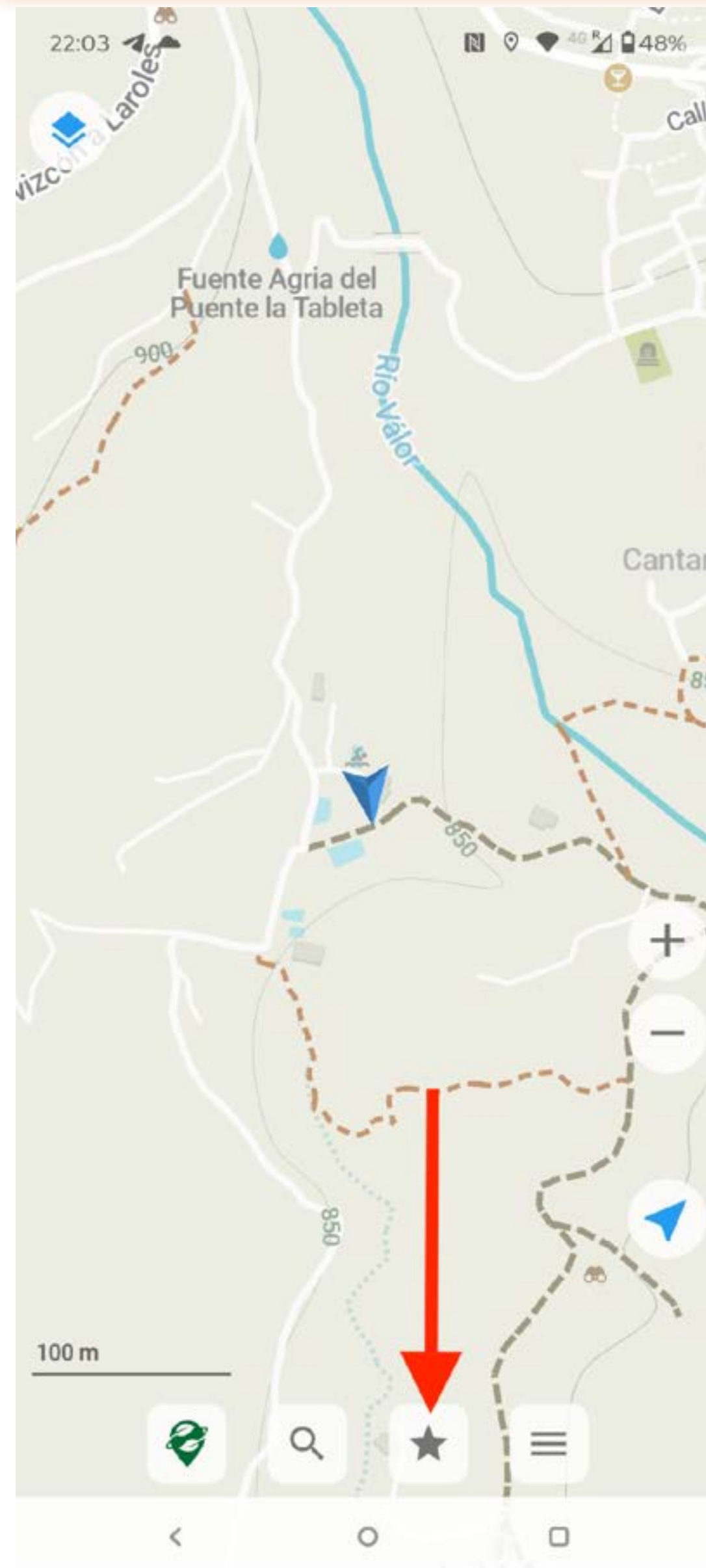
Organic Maps - Track Recording

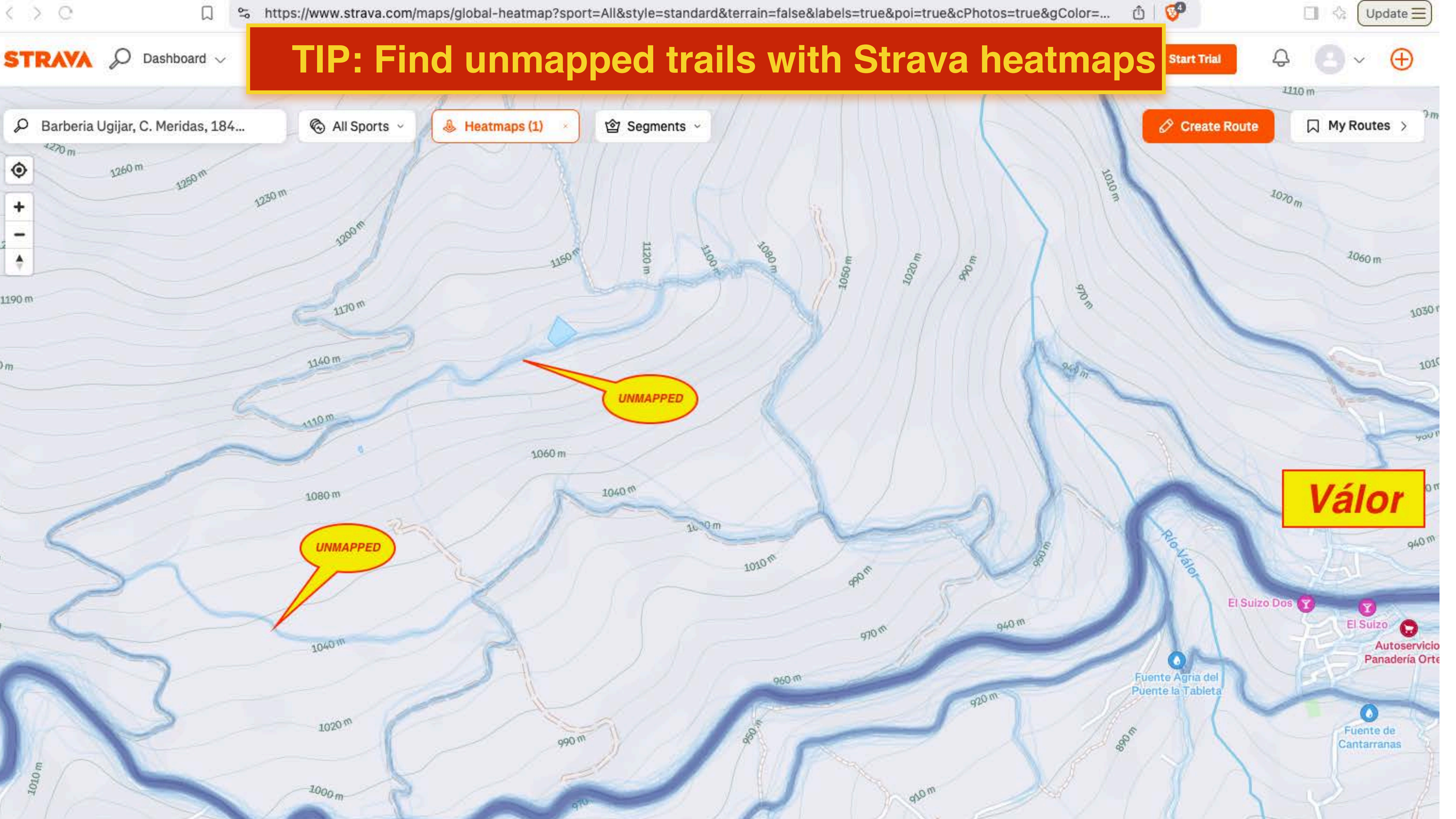


- + Add Place to OpenStreetMap
- Download Maps
- Donate
- Settings
- Record Track
- Share My Location

- + Add Place to OpenStreetMap
- Download Maps
- Donate
- Settings
- Stop Track Recording
- Share My Location

Organic Maps - GPX Track Export





TIP: Find unmapped trails with Strava heatmaps

UNMAPPED

UNMAPPED

Válcor

Tools and Resources

- **OSM Website: openstreetmap.org**
- **Map Editing Tools: iD Editor, JOSM (Java OpenStreetMap Editor)**
- **Community Support: Local OSM groups and forums**
- **Workshop site: alpumapa.xyz !**

Thanks! Questions?

Home: justobjects.nl

Mastodon: mapstodon.space/@justb4

LinkedIn: linkedin.com/in/justb4/

OSM Workshop: alpumapa.xyz

Apps: organicmaps.app