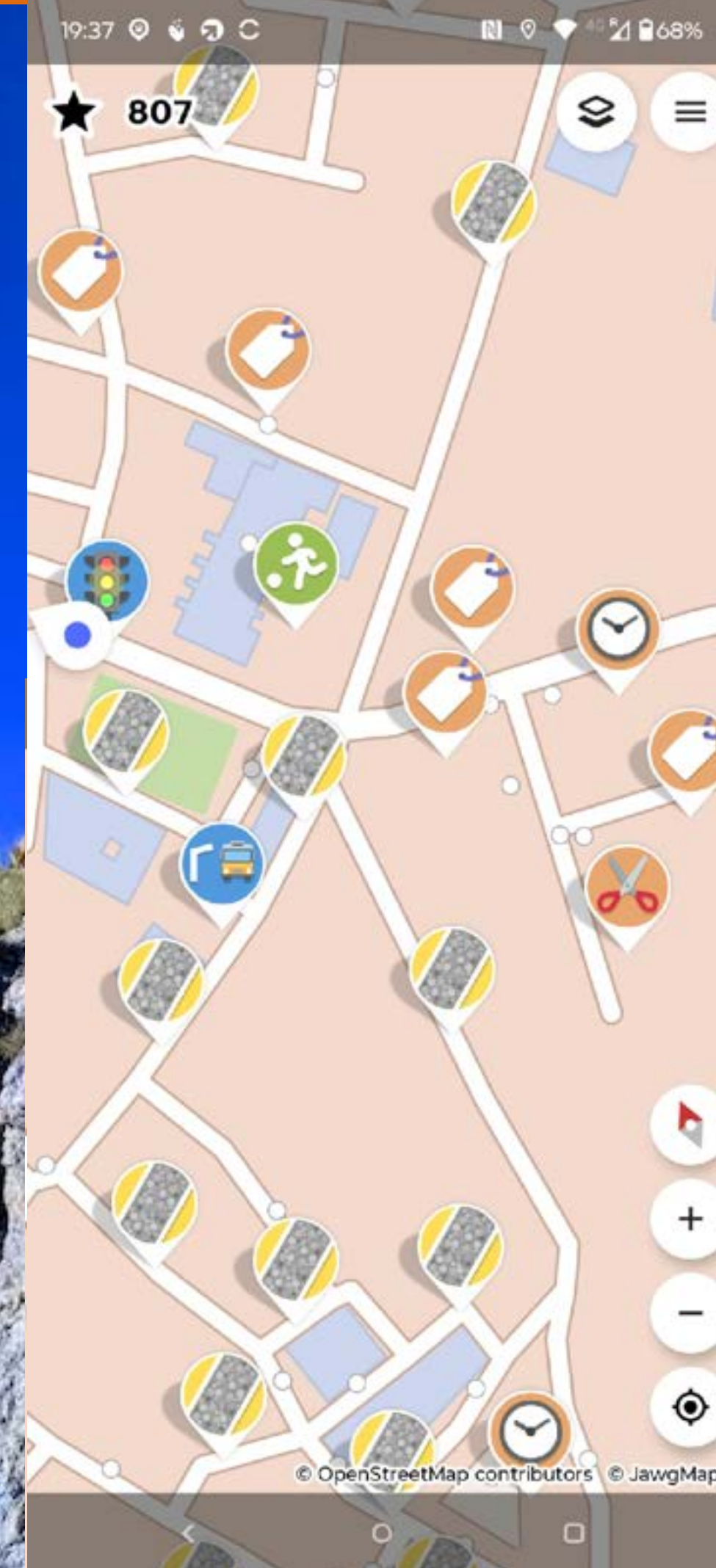


Vamos a mapear Las Alpujarras!
Let's Map Las Alpujarras!



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



What are the opening hours here?
Covirán (Supermarket)

Add opening hours

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

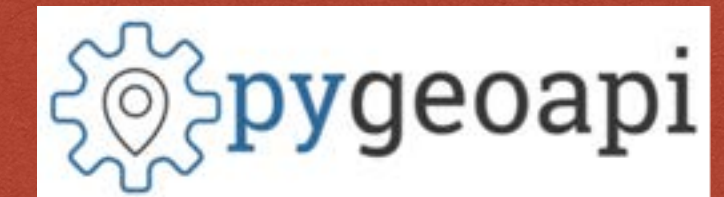
*Soy
hollandés*

**About
Me**

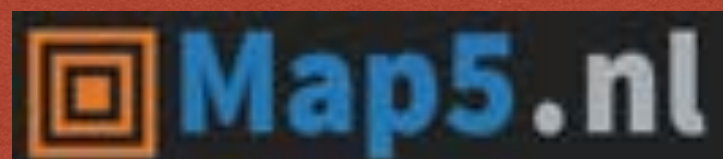
Founder



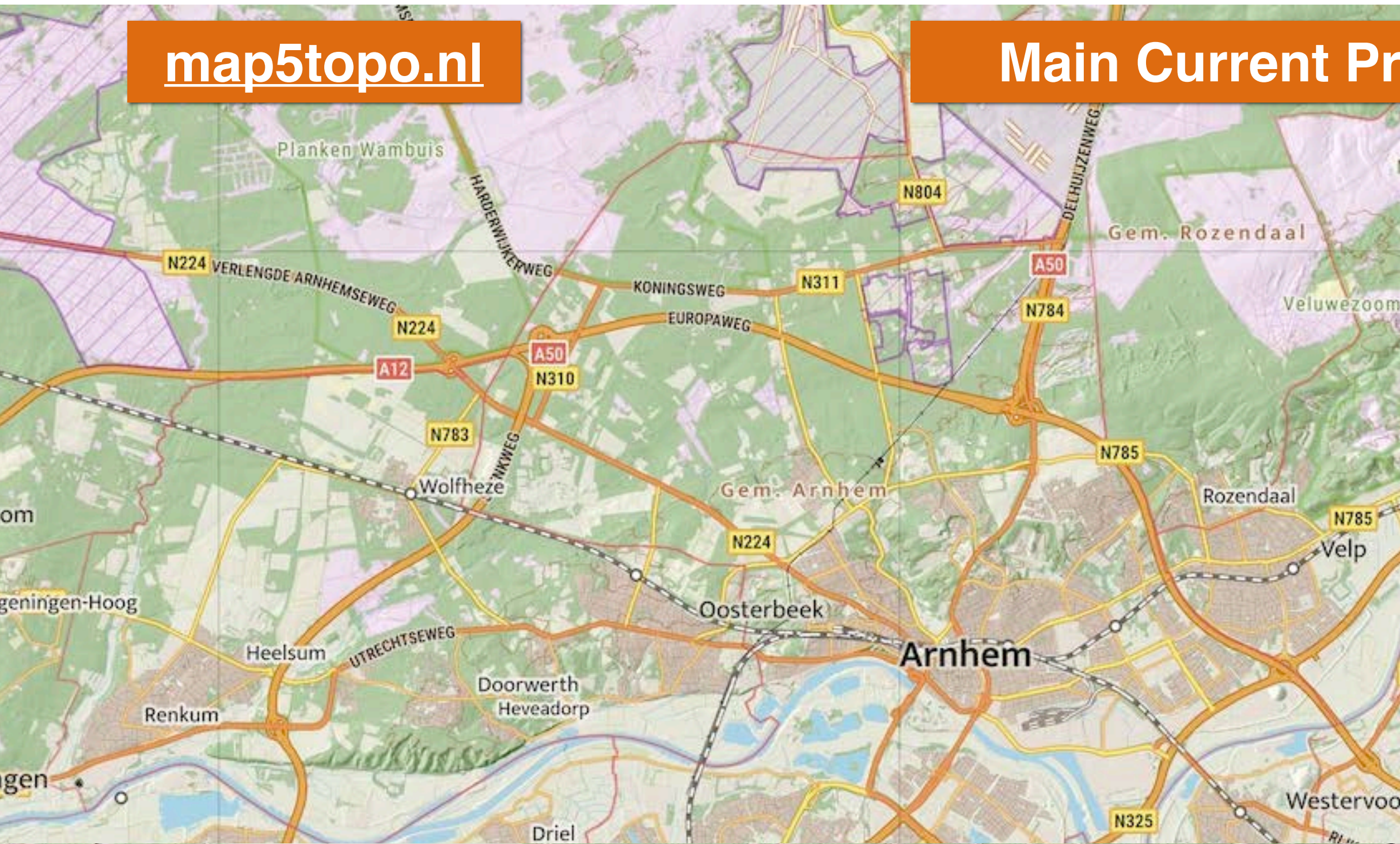
FOSS Projects



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

ES

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...



BG

2 09:40

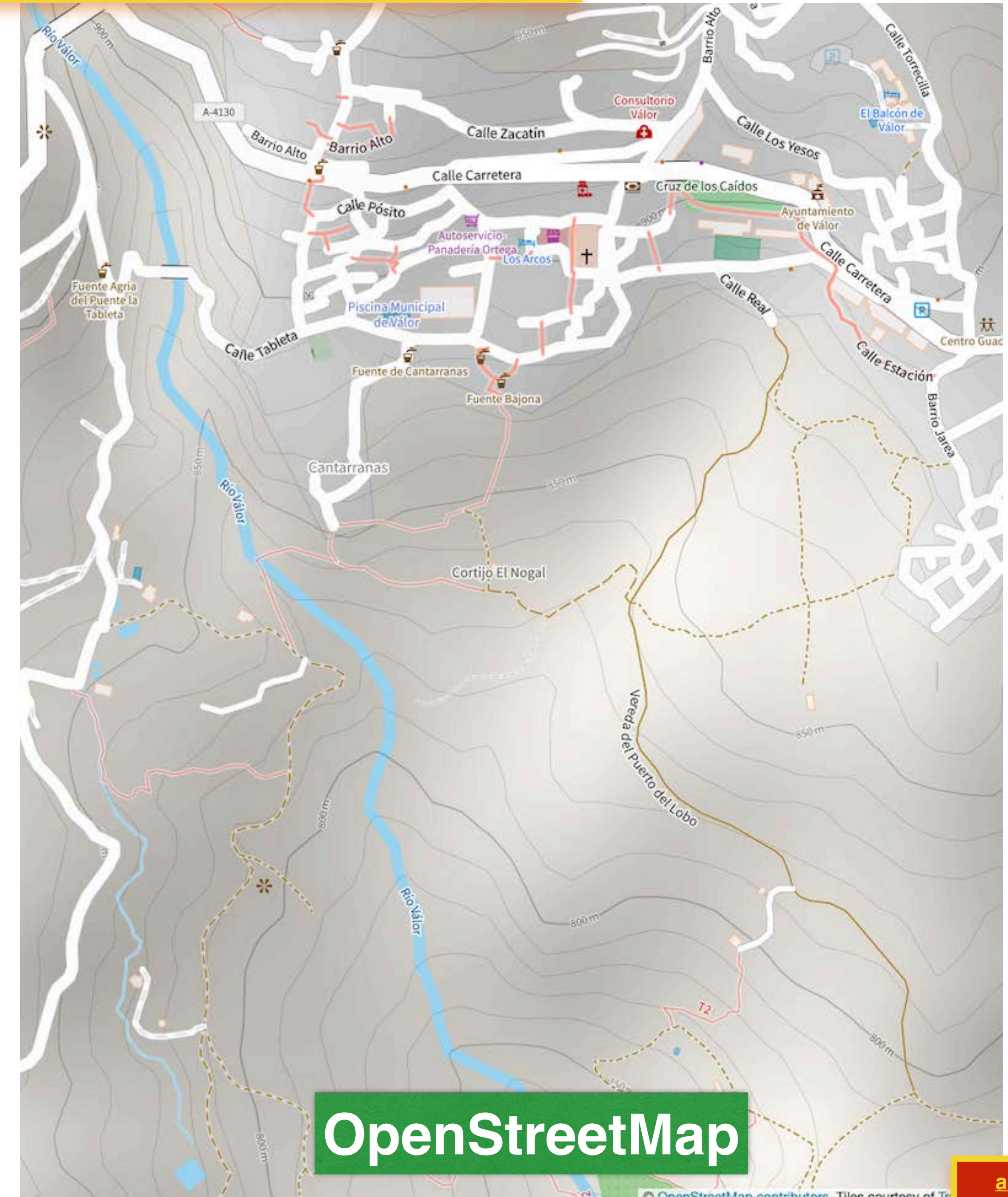
Javier

Why? Por que?

alpumapa.xyz

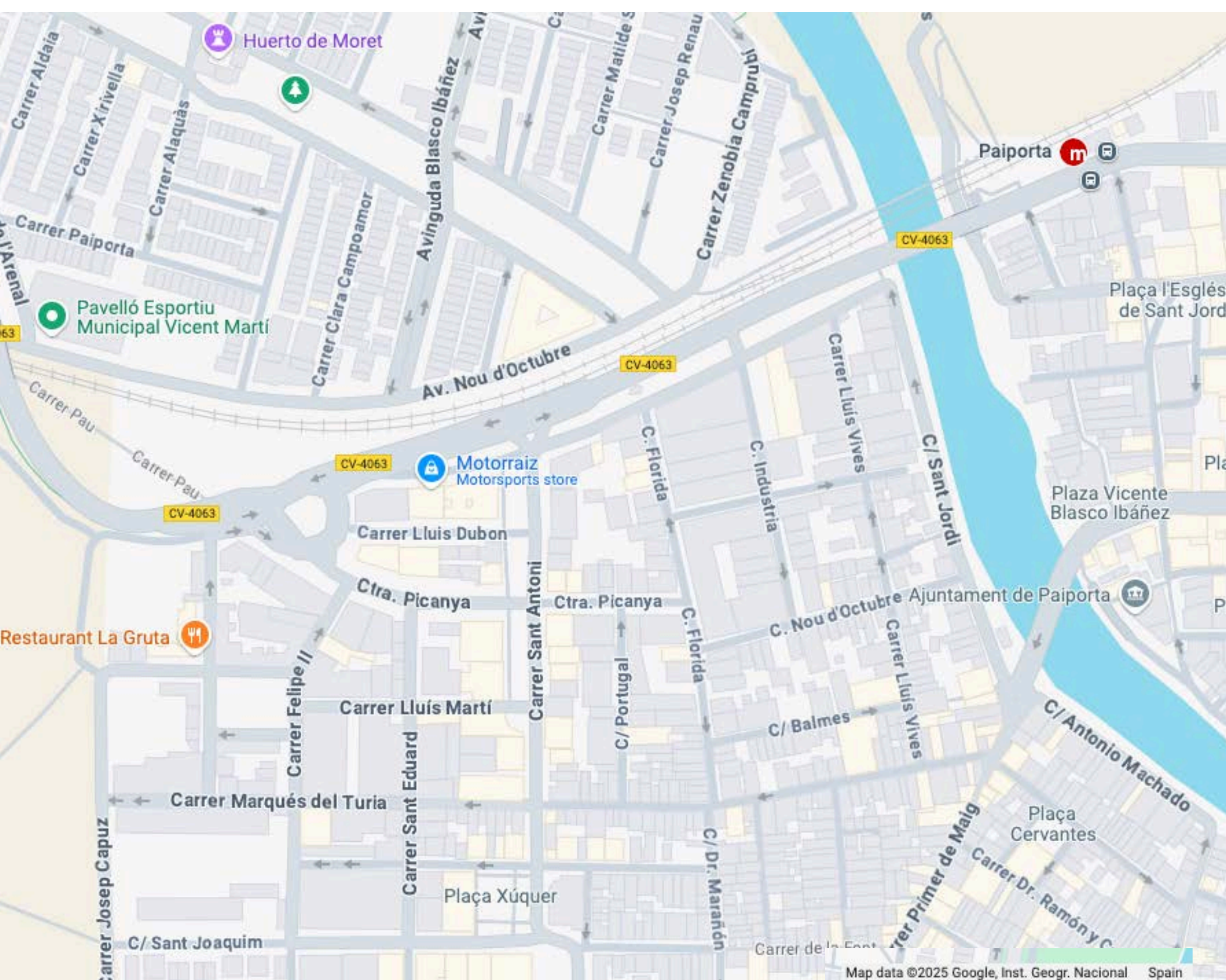
Example 1

More detailed maps in rural areas

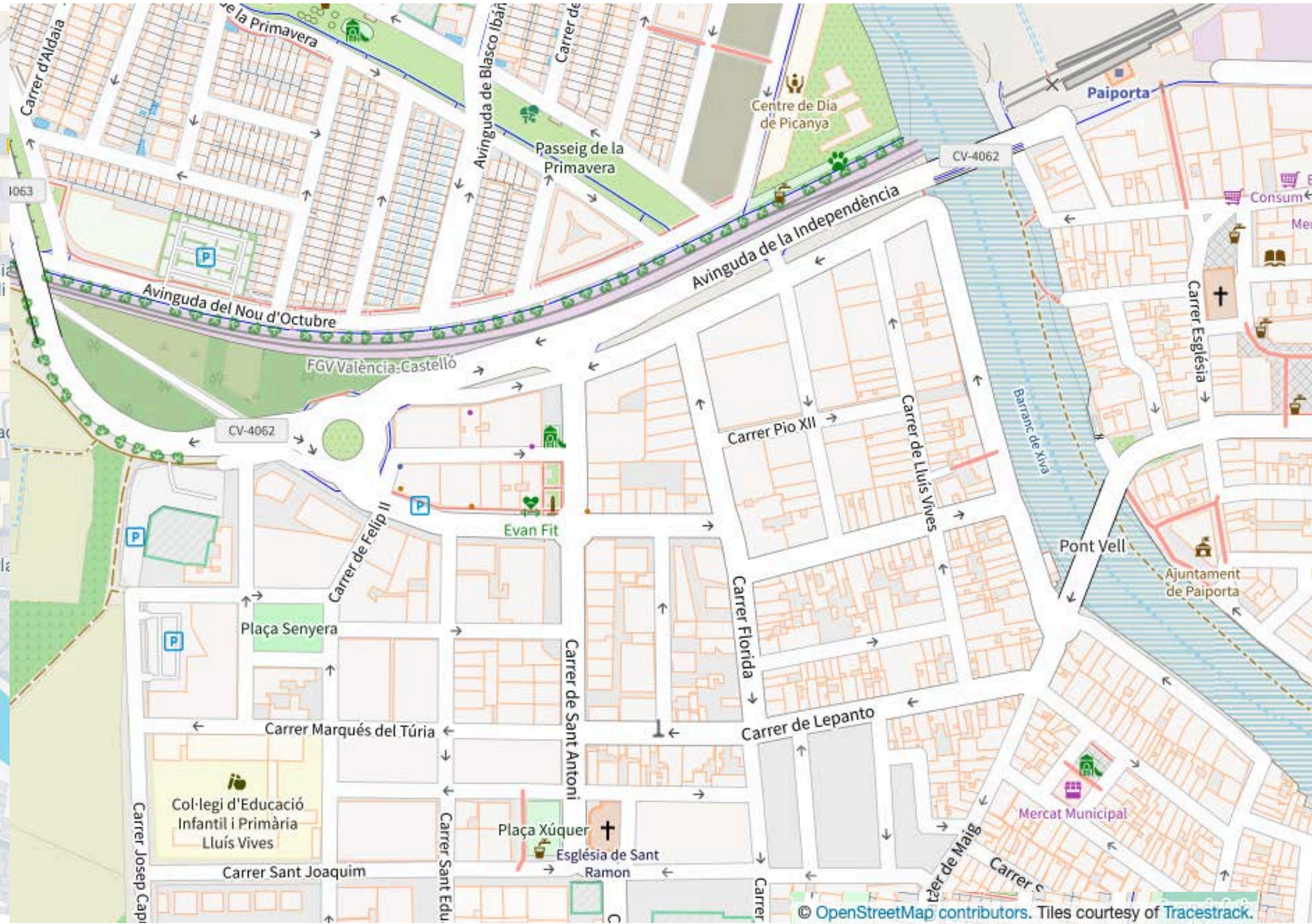


Example 1

More detailed maps in general



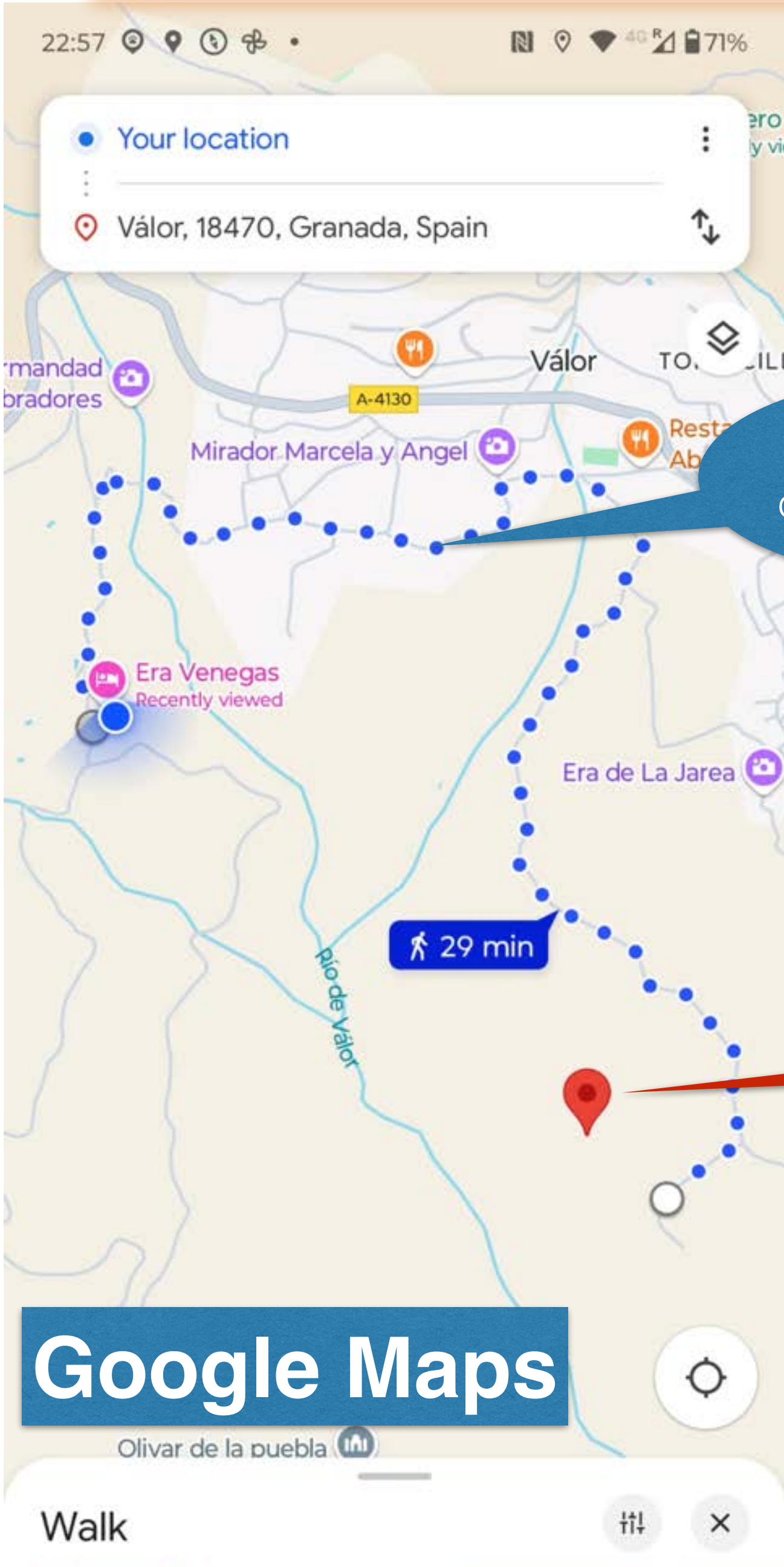
Google Maps



OpenStreetMap

Example 2

Pedestrian Routing - Google Maps vs Organic Maps (OSM)



"Take me to G&T"

Example 3

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](#)

Example 3

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

Spain Floods 2024 | tasks.hotosm.org

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

Mapping our world together

Humanitarian OpenStreetMap Team Website

HOT

Tasking Manager

EXPLORE PROJECTS

MY CONTRIBUTIONS

LEARN

ABOUT

SUPPORT

justb

#17948 | OSM España

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

A map of the Valencia region in Spain, showing the extent of flooding. The flooded areas are shaded in green and blue, covering large parts of the coastal and inland regions. Roads and paths are highlighted in red, indicating areas where mapping contributions are needed. The map includes labels for various locations such as Segorbe, Villar del Arzobispo, Liria, Bétera, Sagunto, Puçol, Valencia, Picasse, Sueca, Alzira, Ayora, and N-330. Road shields for A-23, CV-25, V-21, CV-580, and AP-7 are visible.

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

Real-Life Examples - DANA Valencia - Oct 29 2024

Telegram

ES

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

F

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

21:33

21:41

21:42

21:47

21:50

21:53

21:54

21:54

21:54

22:02

22:24

Bienvenida/o al grupo de mensajería instantánea de la Comunidad de OpenStreetMap en España NORMAS DEL GRUPO: 0-

Translate to English

WMC

@apuntnoticias | apuntnoticias.es

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, pertenezco a la comunidad de datos abiertos BuscaBits en Valladolid, y nos preguntábamos cómo

alpumapa.xyz

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

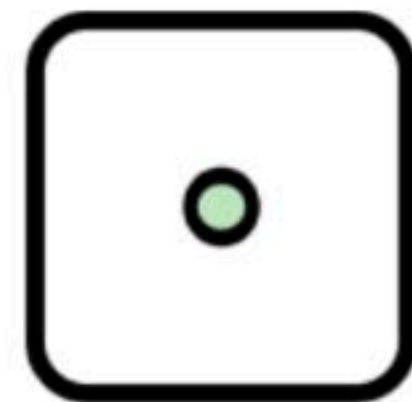
- **EveryDoor:** add or edit businesses, amenities, and more
- **StreetComplete:** improve map by answering map-related questions
- **Organic Maps:** also allows direct edits to OSM data
- **Many more like Vespucci, .. ,,**

Diving Deeper - How is OSM Data Structured?

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

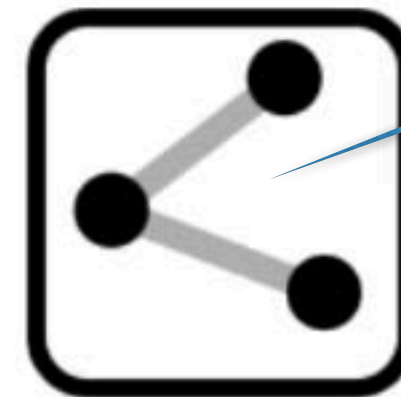
Two Main Concepts to Grasp

1. Core Elements:



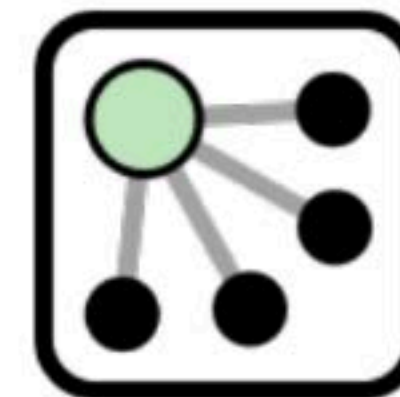
Node

“Points”



Way

“Lines”



Relation

“Combinations”

Examples:

Church,
Restaurant,
Bench etc

Roads, Paths,
Tracks, etc

Busline,
Hiking Route

wiki.openstreetmap.org/wiki/Beginners_Guide_1.3

Nice Overview: jakobmikschi.eu/post/openstreetmap_overview/

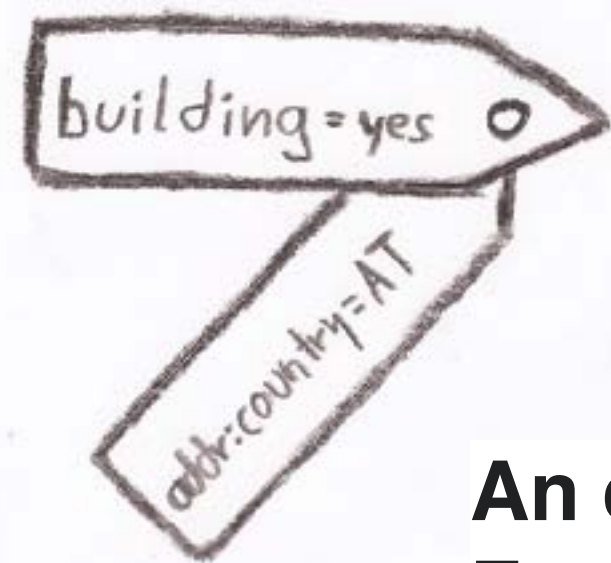
Diving Deeper - How is OSM Data Structured?

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**.

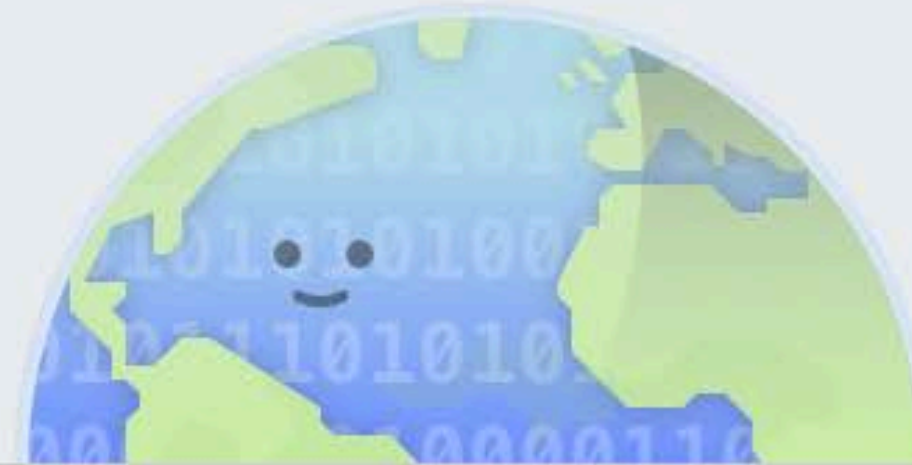
Here are some more examples:

- 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](#).

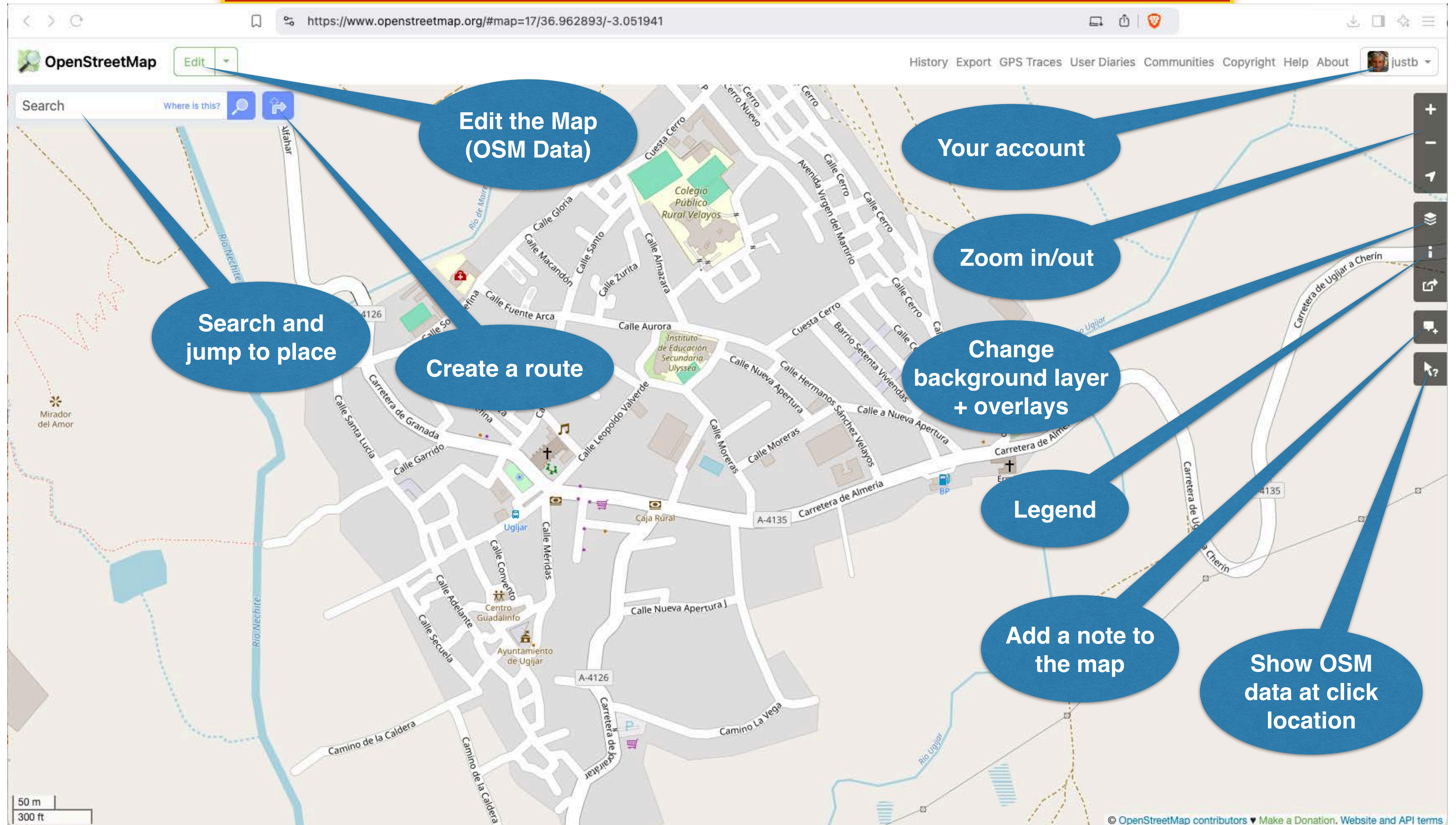
☐ I consider my contributions to be in the [public domain](#).

[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 top navigation bar includes links for History, Export, GPS Traces, User Diaries, Communities, Copyright, Help, and About, along with a user profile icon for 'justb'. The main interface is divided into a left sidebar and a central map area. The sidebar, titled 'Edit feature', contains a 'Feature Type' section with a 'Tertiary Road' icon, a 'Fields' section with various input fields (Name, One Way, Speed Limit, Lanes, Surface, Structure, Road Number), and a 'View on openstreetmap.org' link at the bottom. The central map area shows an aerial view of a residential area with a yellow line representing a road. A blue circle labeled 'Draw Mode' points to the 'Add Feature' buttons (Point, Line, Area) at the top of the map. A blue circle labeled 'Tag Info' points to the 'i' icon next to the 'Tertiary Road' feature type. A blue circle labeled 'Selected Feature' points to the yellow line on the map. A blue circle labeled 'Upload to OSM' points to the 'Save' button at the top right of the map. A blue circle labeled 'Selected Feature Tags' points to the 'Fields' section in the sidebar. The bottom of the map shows a scale bar (50 ft) and a status bar with the text 'Edits by kräcker, ittriv, pittrichimica, and 7 others' and '1 hidden feature'.

OpenStreetMap Edit

History Export GPS Traces User Diaries Communities Copyright Help About justb

Edit feature

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 A 4126

View on openstreetmap.org

Draw Mode

Tag Info

Selected Feature

Upload to OSM

Selected Feature Tags

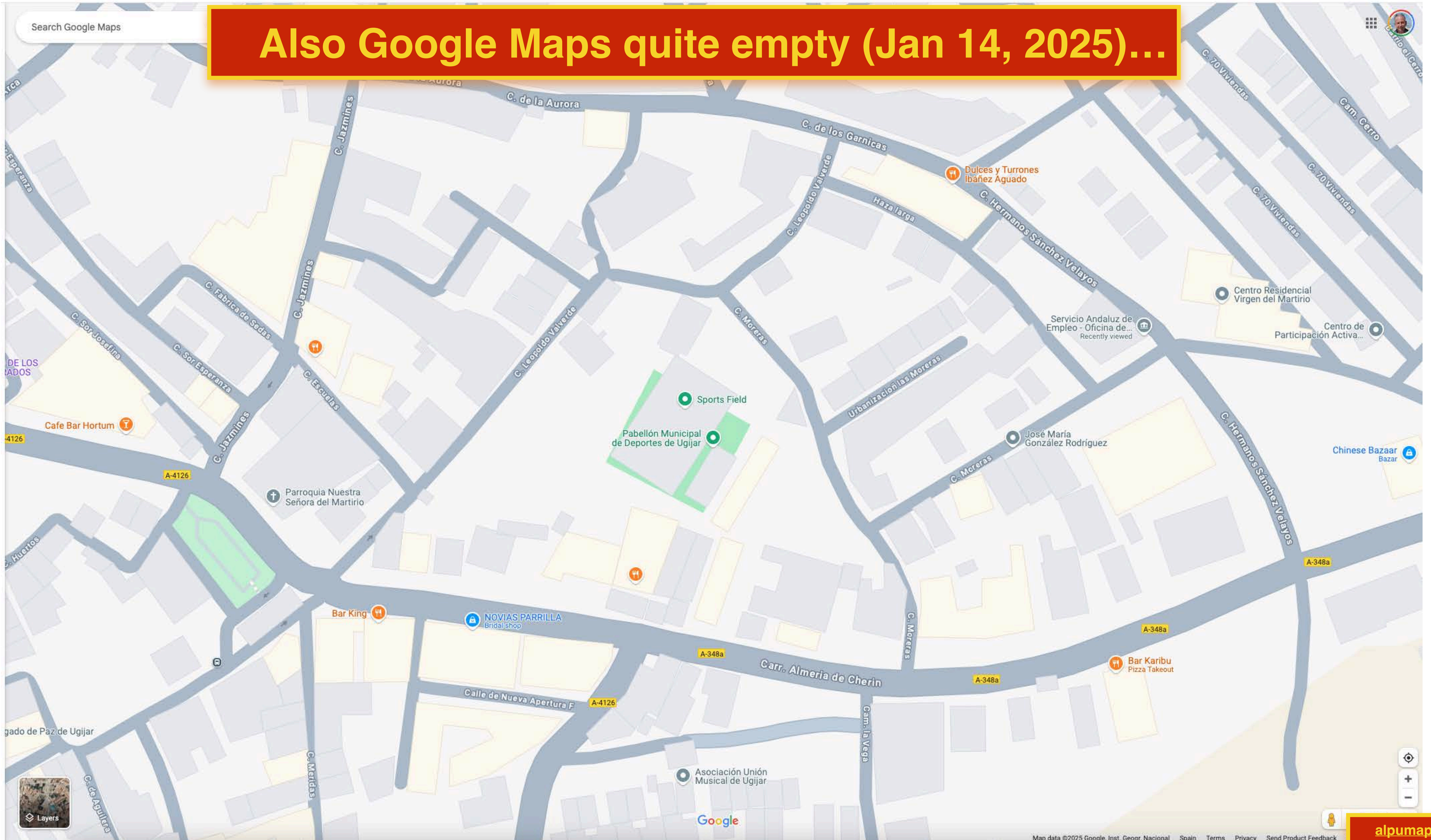
50 ft

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




Search Google Maps

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



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