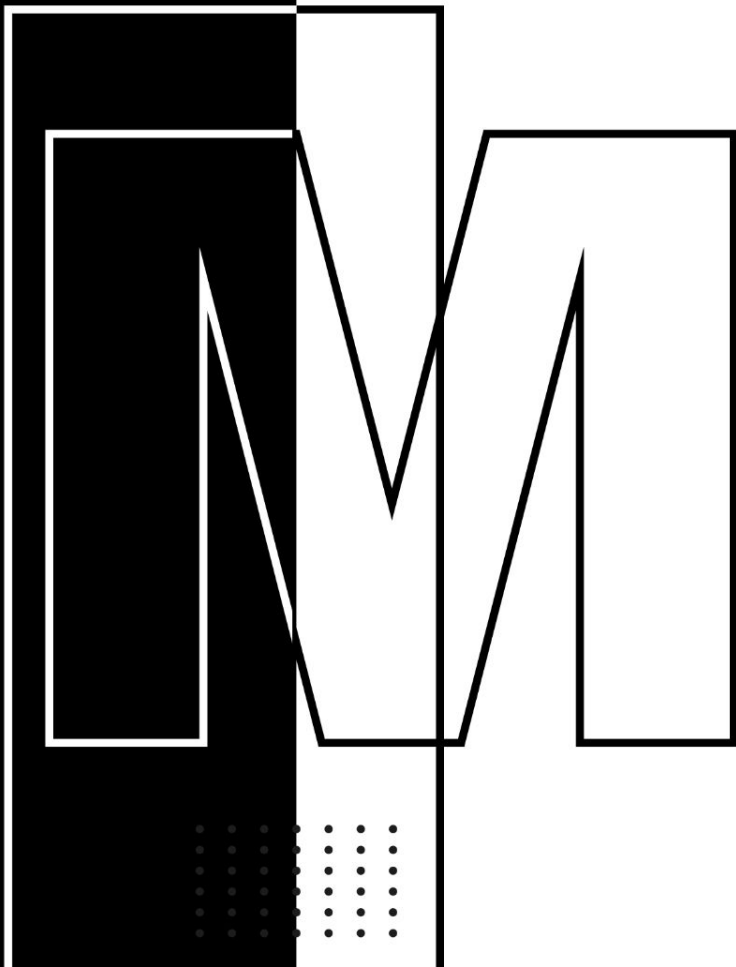


MALDITA.ES
PERIODISMO PARA QUE NO TE LA CUELEN



OSINT & geolocation

What's OSINT?

- Open Source Intelligence
- Collecting information from openly available sources online
- Essential for investigations and for documenting war crimes

bellingcat

 AFRICA EYE

The New York Times

OSINT Investigations

BBC
NEWS

- Geolocation to document war crimes
- This BBC investigation contributed to the arrest of those responsible for murder in Cameroon



OSINT Investigations



- Geolocation to document crimes
- This BBC investigation contributed to the arrest of those responsible for murder in Cameroon

Cameroon soldiers jailed for killing women and children

© 21 September 2020



OSINT Investigations

bellingcat

- Geolocation to document crimes
- How Bellingcat geolocated an anti-aircraft vehicle in the exact place and time in which the MH17 plane was shot down



Geolocation

Tools to geolocate images (Any doubts? feel free to stop me)



About OSINT

- The single most effective tool is observation
- The first step in every verification is to analyze the content that is before us
- Things we can look out for: number plates, vegetation, surroundings, languages, shop signs, clothing, weather... **EVERYTHING**

Geolocation



DoctorCumFraude @doctor_fraude · 21 nov. 2020

Fijate como tiran la comida los que vienen a Canarias ,es una vergüenza que traigan tanta gente y hay españoles que tienen para comer. Esto lo tenían que ver la gente... 🇵🇷 🇵🇷 🇵🇷 🇵🇷 🇵🇷 🇵🇷 🇵🇷



66

495

319



Geolocation

Any visual clues to know if it's really the
Canary Islands (Spain)?





فواكه استوائية مشكلة
داناو الفواكه الاستوائية المشكلة هو عصير بالحبوب مع فواكه إضافية مثل الفيتامينات التي تتوفر في العنصر والكالسيوم الذي يتوفر في الحليب ...



[اقرأ المزيد](#)

داناو مانجو وفراولة
داناو مانجو وفراولة هو عصير بالحليب مع فواكه إضافية مثل الفيتامينات التي تتوفر في العنصر والكالسيوم الذي يتوفر في الحليب ...



[اقرأ المزيد](#)

داناو بريقال ومانجو
داناو بريقال ومانجو هو عصير بالحليب مع فواكه إضافية مثل الفيتامينات التي تتوفر في العنصر والكالسيوم الذي يتوفر في الحليب ...



[اقرأ المزيد](#)

داناو بريقال وموز وفراولة
داناو بريقال وموز وفراولة هو عصير بالحليب مع فواكه إضافية مثل الفيتامينات التي تتوفر في العنصر والكالسيوم الذي يتوفر في ...



[اقرأ المزيد](#)

داناو خوخ وشمش
داناو خوخ وشمش هو عصير بالحليب مع فواكه إضافية مثل الفيتامينات التي تتوفر في العنصر والكالسيوم الذي يتوفر في الحليب ...



[اقرأ المزيد](#)

داناو 5 فيتامينات
داناو 5 فيتامينات هو عصير بالحليب مع فواكه إضافية مثل الفيتامينات التي تتوفر في العنصر والكالسيوم الذي يتوفر في الحليب ...



[اقرأ المزيد](#)





Geolocation

A boycott of French products?

Creyendo dañar la economía [#française](#), ¡estos imbéciles lanzan productos de marca francesa en lo que parece ser un canal! ¡Así ya contaminando un medio ambiente que no es muy saludable! 🤢🤢
[#boycott](#)



DivertissonsNous

HOME

CATÉGORIES

PUBLIER UNE VIDÉO



Des Égyptiens boycottent les produits français... en polluant leur rivière !

Actualités • 3 novembre 2020 • Par DivertissonsNous



Partager



Like

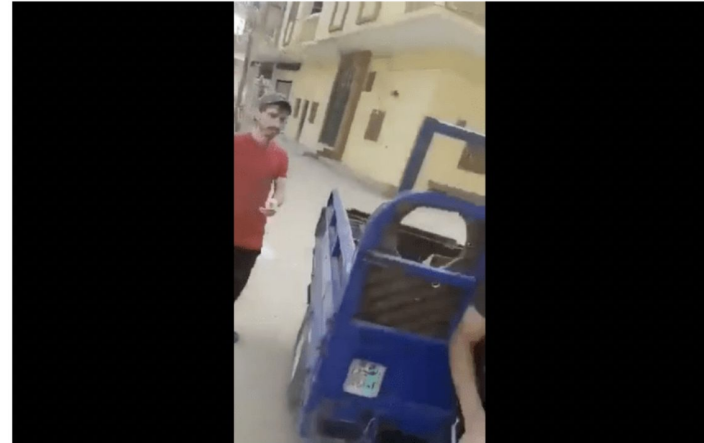


5



76

En Égypte, des hommes ont décidé de répondre au boycott de la France par plusieurs pays musulmans en détruisant des produits de la marque Danone. Problème : ils ont surtout réussi à polluer leur rivière avec ce geste...



Geolocation

A boycott of French products?

شاهد.. لحظة إلقاء شباب بالفيوم منتجات فرنسية في التربة رداً
على الإساءة للرسول (فيديو)

- We did a Google search in Arabic and...
- Egyptian outlets describe the event as a boycott

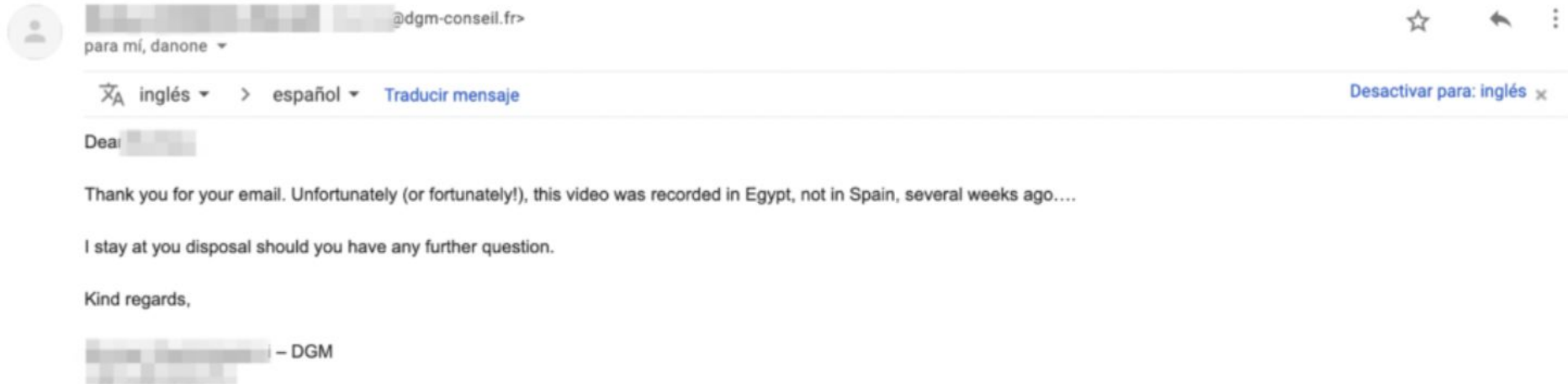


We reach out to Danone

Geolocation

Danone claims it was recorded in Egypt "several weeks ago"*

From Maldita.es we have contacted Danone who states that this video was recorded in Egypt, not in Spain, and they point out that it is from "several weeks ago".



Geolocation

There are no such rivers
in the Canary Islands



**A water course with such a flow is not usual in the Canary Islands,
according to two geography experts to *Maldita.es***

Geolocation

MALDITA
MIGRACION

Articles hoaxes Reports Why this project? Newsletter Contact | M Return to Cursed

No, this video is not of immigrants throwing food in the Canary Islands or in Murcia or Valencia or anywhere in Spain

Published Wednesday, April 14, 2021



Maps

MAPS

Why maps are your friends and how to use them when fact-checking


MAPS - Google

(other) MAPS

- [Google Maps](#)
- [Wikimapia](#)
- [OpenStreetMaps](#)
- [Yandex Maps](#)
- [Baidu Maps](#)
- [Naver Maps](#)

google.com/maps/place/La+Paz,+Bolivia/@-16.5014006,-68.1333032,19z/data=!4m5!3m4!1s0x915edf0a04f5a40f:0x57dbfc76b4458ab318m2!3d-16....

la paz
🔍
✕





La Paz
Bolivia

☁️ Clear with periodic clouds · 1°C
3:41 AM

📍 Directions
📌 Save
📍 Nearby
📧 Send to your phone
📱 Share

Photos


Photos

Quick facts

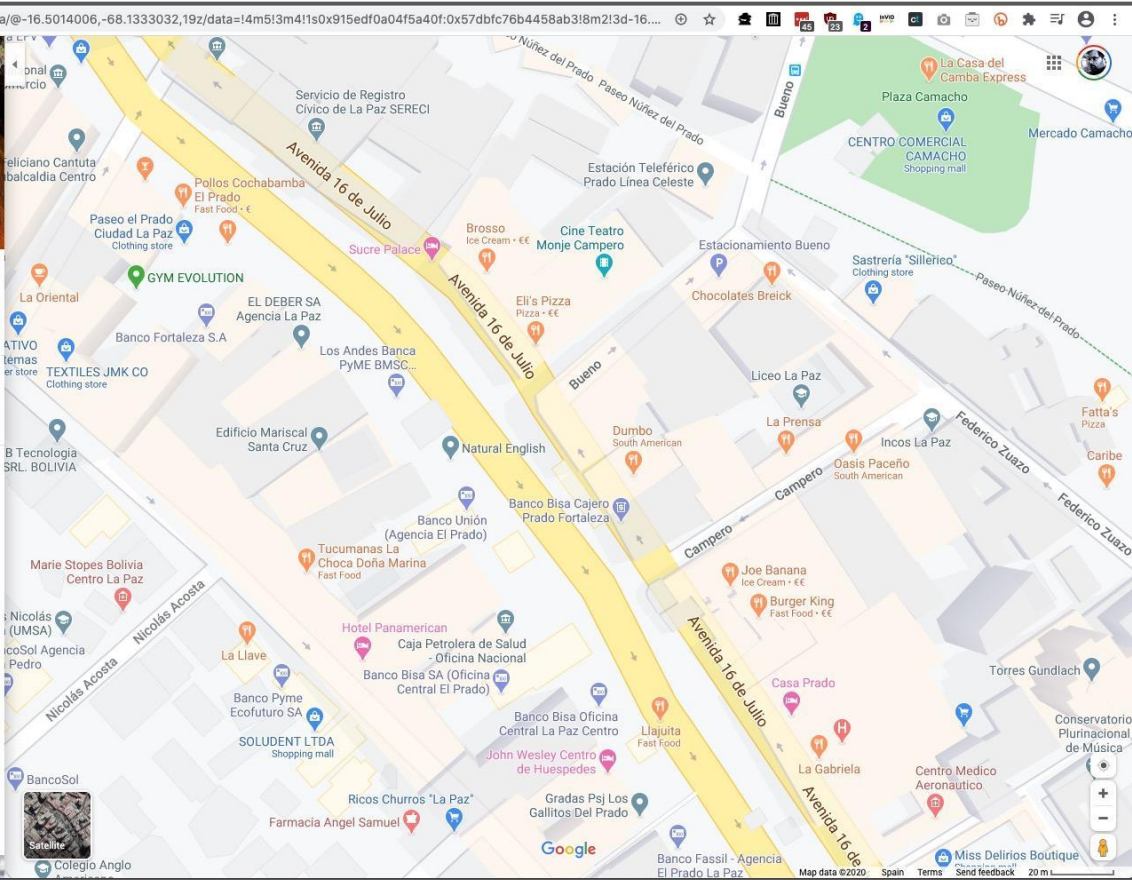
La Paz, in Bolivia, is the highest administrative capital in the world, resting on the Andes' Altiplano plateau at more than 3,500m above sea level. It stretches to El Alto city in the highlands, with snow-capped, 6,438m-high Mt. Illimani as its backdrop. The city's dramatic setting can be taken in during rides on Mi Teleférico, the aerial cable car system.

Hotels

About pricing ⓘ



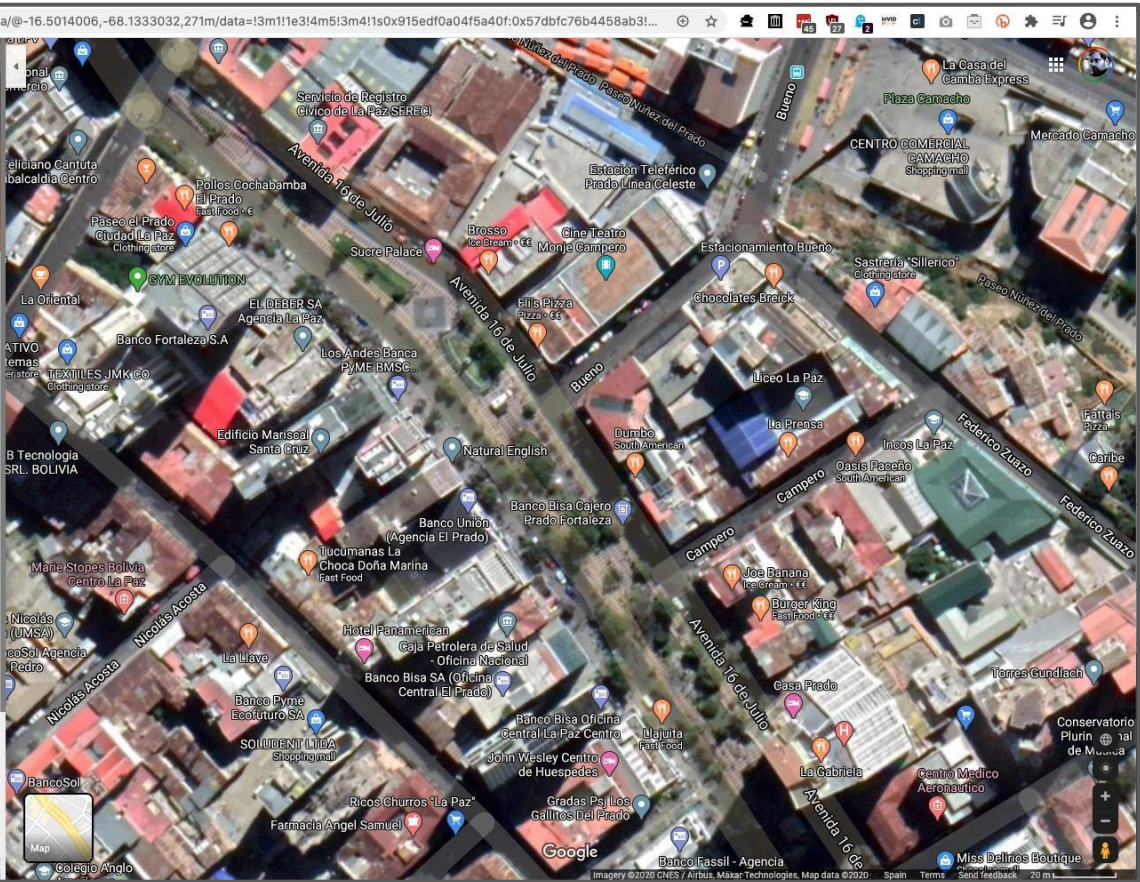
📍 Colegio Anglo



Map data ©2020 Spain Terms Send feedback 20 m

google.com/maps/place/La+Paz,+Bolivia/@-16.5014006,-68.1333032,271m/data=!3m1!1e3!4m5!3m4!1s0x915edf0a04f5a40f:0x57dbfc76b4458ab31...

la paz




La Paz
Bolivia

Clear with periodic clouds • 1°C
3:41 AM

Directions Save Nearby Send to your phone Share

Photos



Quick facts

La Paz, in Bolivia, is the highest administrative capital in the world, resting on the Andes' Altiplano plateau at more than 3,500m above sea level. It stretches to El Alto city in the highlands, with snow-capped, 6,438m-high Mt. Illimani as its backdrop. The city's dramatic setting can be taken in during rides on Mi Teleférico, the aerial cable car system.

Hotels [About pricing](#)

Map

© Colegio Anglo

Imagery ©2020 CNES / Airbus, Maxar Technologies, Map data ©2020 Spain Terms Send feedback 20 m



UTILITIES



<https://www.instantstreetview.com/>

UTILITIES

chrome web store stephanegrueso@gmail.com

Inicio > Extensiones > Map Switcher



Map Switcher

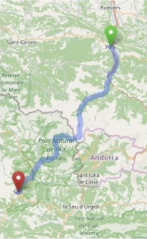
Ofrecido por: david.redgar

★★★★☆ 18 | Herramientas de búsqueda | 1.000+ usuarios

Añadir a Chrome

ip.org/directions?engine=mapzen_bicycle&route=42.966092C1.6096%3B42.4114%2C1.1298#map=9/42.3454/2.2206

Export



Map Switcher

Location: 42.3454008, 2.2206008 2 waypoint route, travelling by bike
Extracted from: currently displayed map

Directions

- Google [Maps](#) [Terrain](#) [Earth](#) [Traffic](#) [Cycling](#)
- Bing [Road](#) [Aerial](#) [Bird's eye](#)
- OpenStreetMap [Standard](#) [Cycle Map](#) [Transport](#) [MapQuest](#) [Open](#) [Humanitarian](#)
- Here [Map](#) [Terrain](#) [Satellite](#) [Traffic](#) [Public Transport](#)
- Waze [Livemap](#)

Other Maps

- OpenSeaMap [Map](#)
- OpenCycleMap [OpenCycleMap](#) [Transport](#) [Landscape](#) [Outdoors](#) [Transport Dark](#)
- MapQuest [MapQuest Open](#)
- Wikimapia [Satellite](#) [Maps](#)
- Geocaching [Map ID](#)
- what3words [Map](#)
- Stamen [Watercolor](#) [Toner](#) [Terrain](#)
- GPX Editor [Street Map](#) [Satellite](#) [OpenStreetMap](#) [OpenCycleMap](#)

Miscellaneous


- Wikimedia Labs [GeoHack](#) [Wiki Mini Atlas](#)
- OpenWeatherMap [Weather Map](#)
- SunCalc [Sunrise + sunset times](#)
- Boulter [Coordinate Converter](#)
- Flickr [World map](#)

Downloads

- GPX [Map centre](#) [waypoint](#) [Route](#)

ip.org/directions?engine=mapzen_bicycle&route=42.966092C1.6096%3B42.4114%2C1.1298#map=9/42.3454/2.2206

Export



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- OpenStreetMap [Standard](#) [Cycle Map](#) [Transport](#) [MapQuest](#) [Open](#) [Humanitarian](#)
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- SunCalc [Sunrise + sunset times](#)
- Boulter [Coordinate Converter](#)
- Flickr [World map](#)

Downloads

- GPX [Map centre](#) [waypoint](#) [Route](#)

<https://bit.ly/3e06qZS>

UTILITIES



Dual Maps

Google Maps, Street View and Bing Maps in an embeddable control

A Map, Char

Dual Maps

About Dual Maps

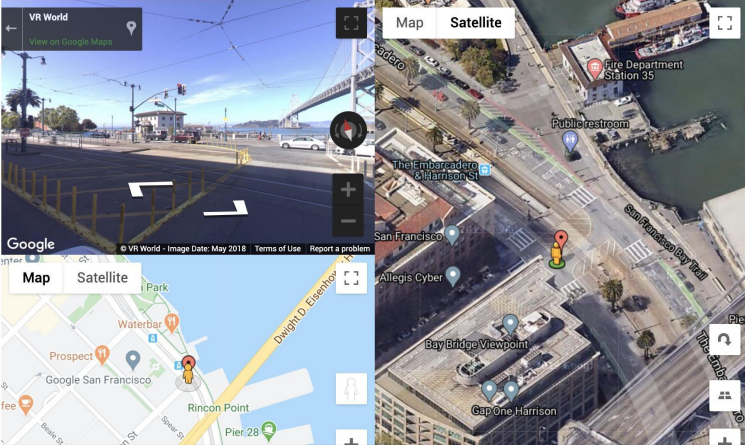
- Dual maps combine Google Maps, Birds Eye Imagery and Google Street View into one embeddable control.
- Dual Maps are free to use. No registration is required.
- Many customization options are available.

Dual Map Preview

Map Street View Aerial Info

Enter a location My Location

Map Satellite



The preview shows two map views side-by-side. The left view is Google Street View, showing a street-level perspective of a city street with a bridge in the background. The right view is Bing Aerial, showing a top-down satellite view of the same area. Both views include standard map controls like zoom in/out, pan, and a search bar at the top.

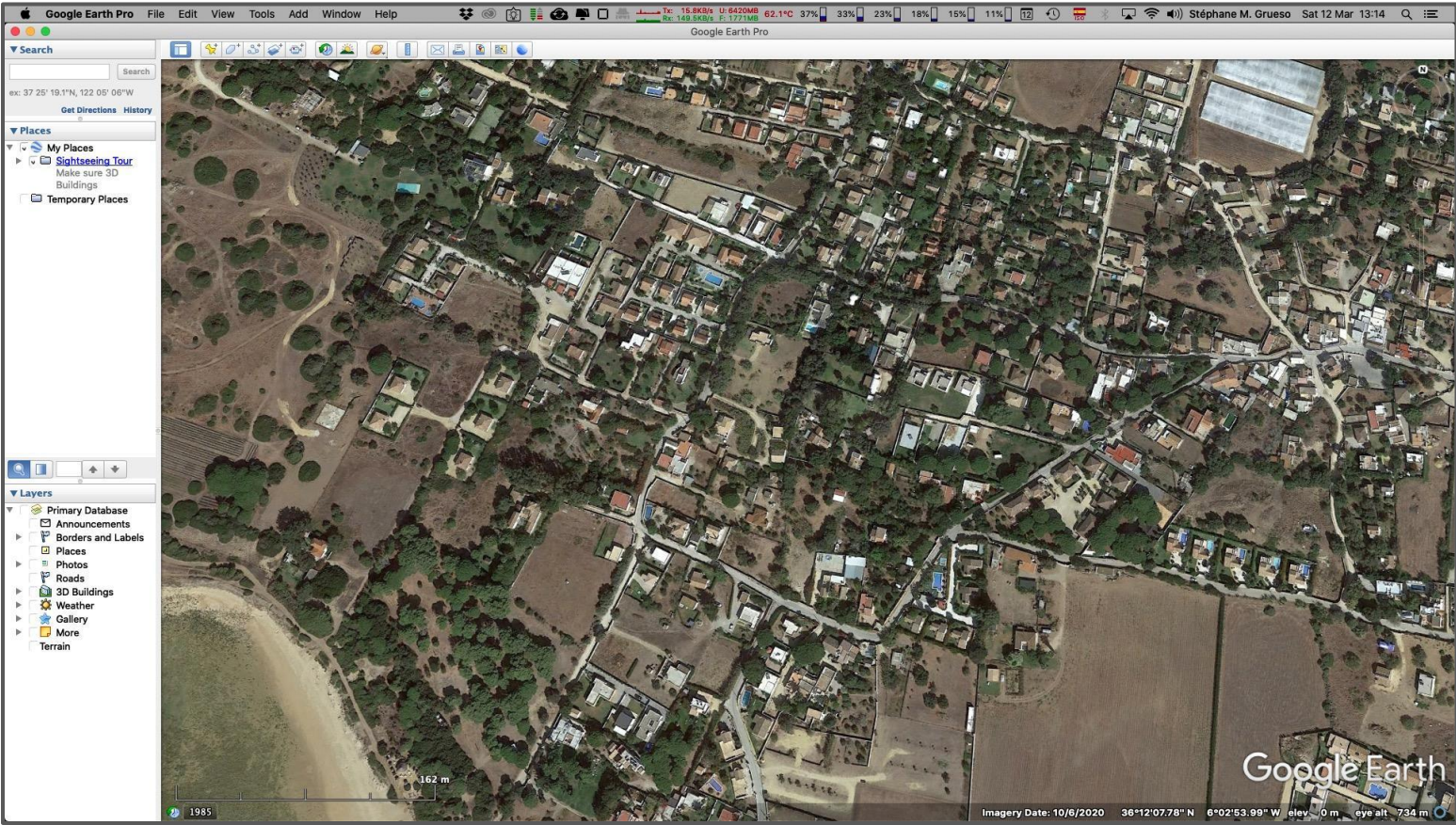
<https://bit.ly/2D9Tcx5>

GEOLOCATION

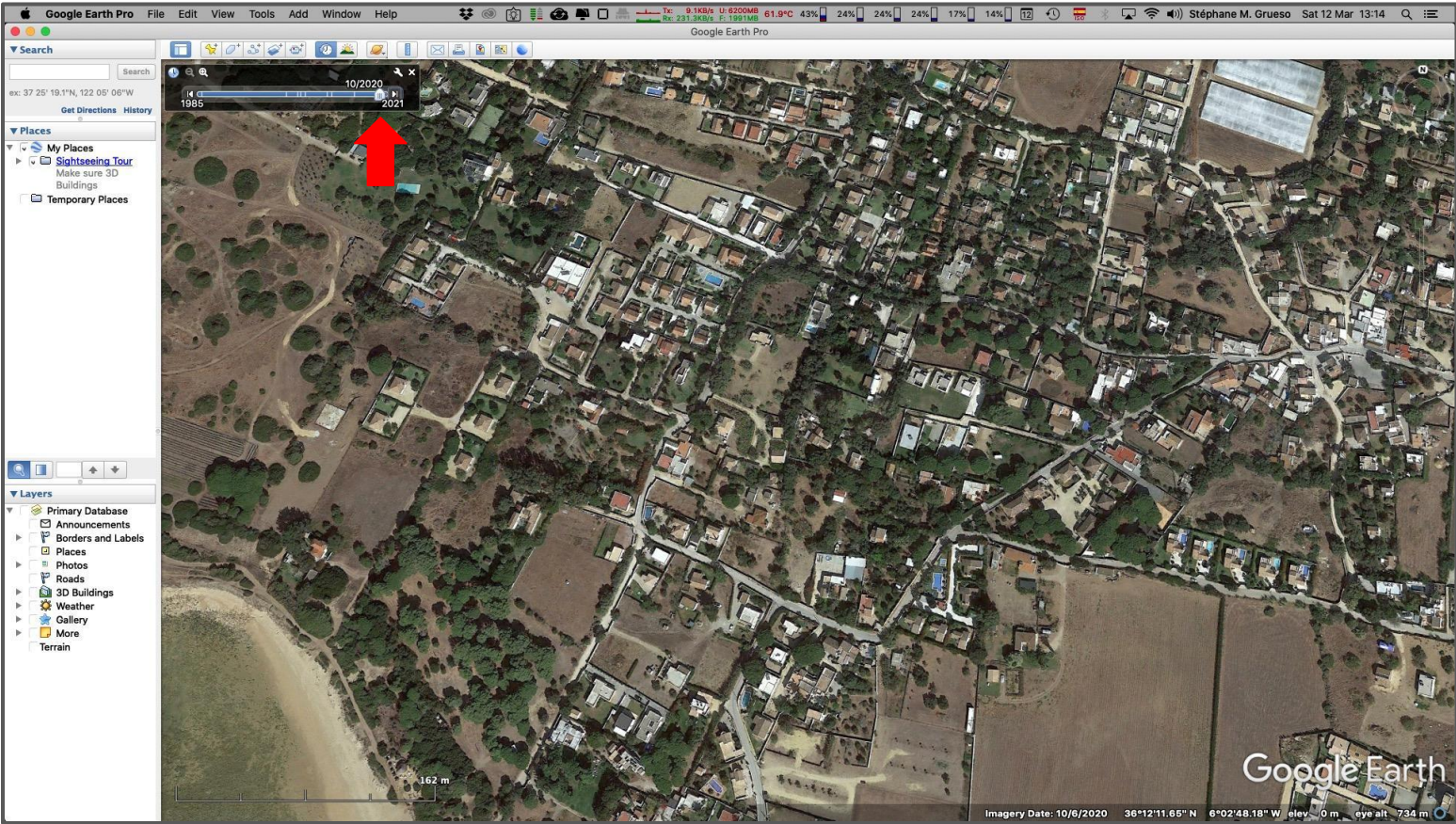
What happens when Google Maps is
no use?

Whether it's because the image is from a rural area or from a country in which Google Street View is not available, it's possible that at times we don't obtain the results we were hoping for

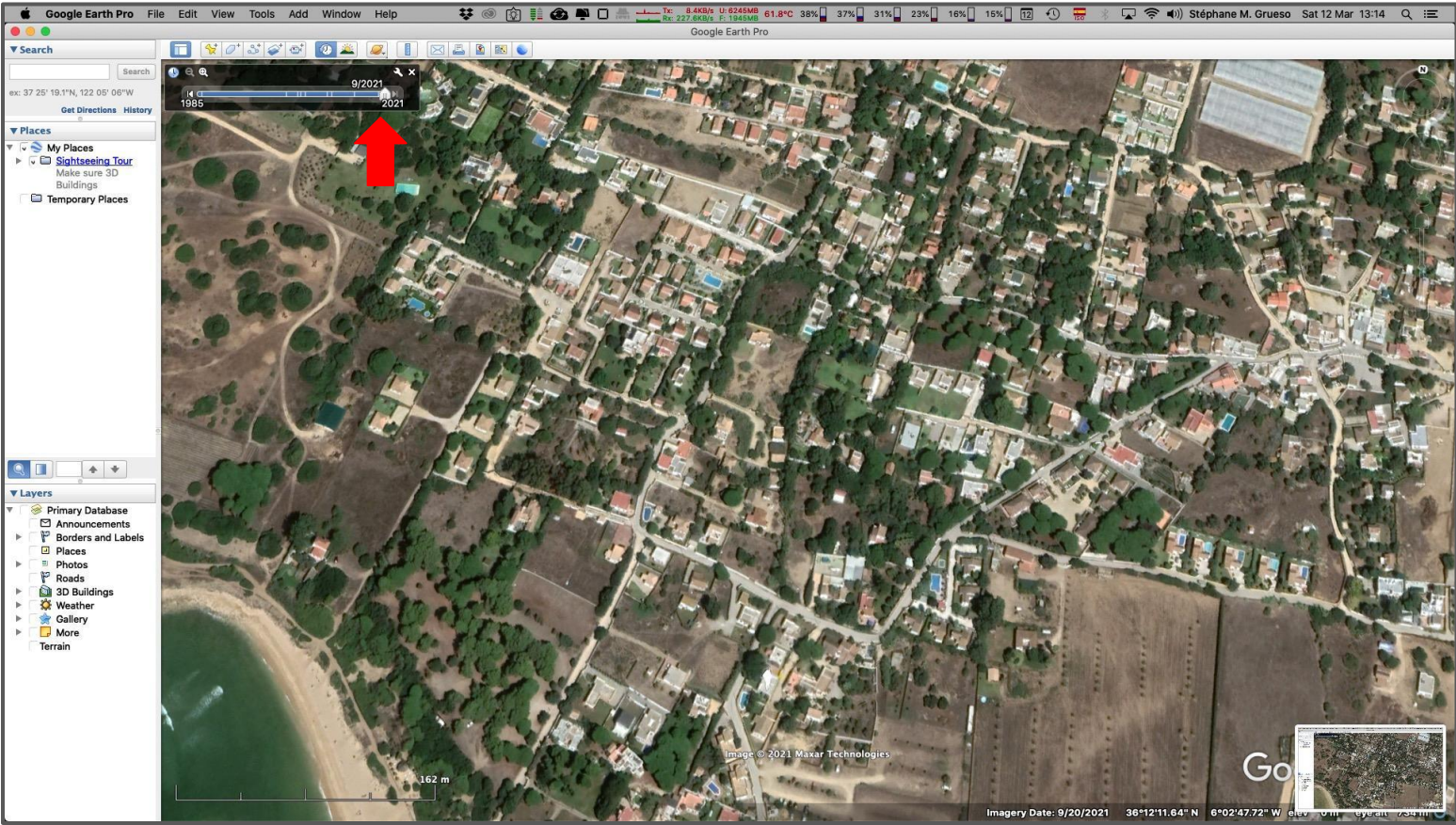
GOOGLE EARTH



GOOGLE EARTH



GOOGLE EARTH



GOOGLE EARTH

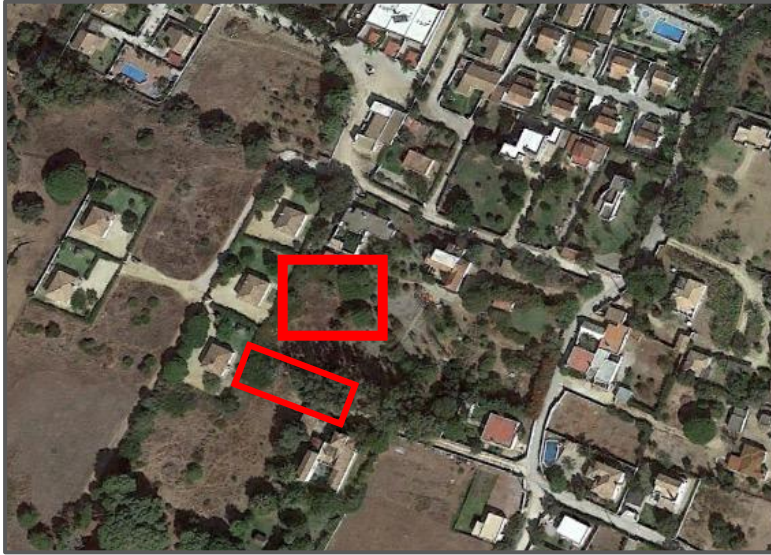


10/2020



9/2021

GOOGLE EARTH



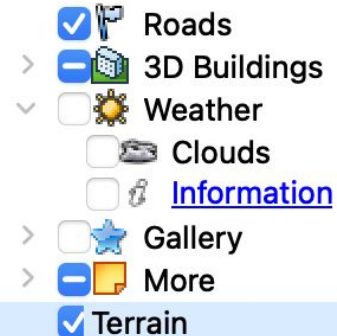
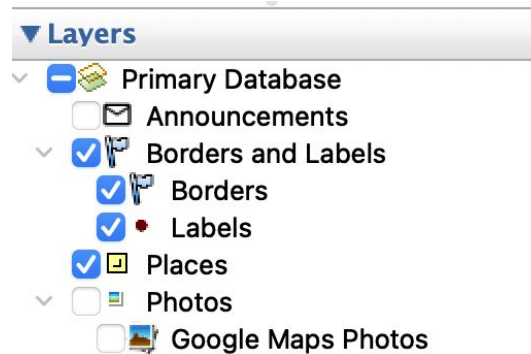
10/2020



9/2021

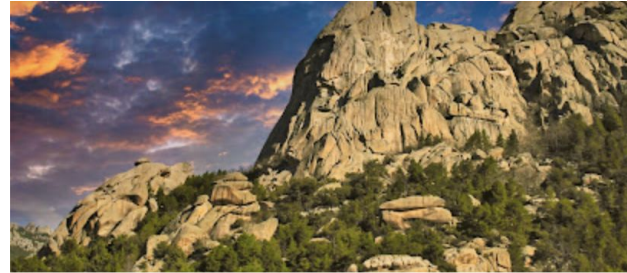
GEOLOCATION

- The most known tool is Google Earth
- You can choose from different perspectives



Terrain

- When there's no Google Street View, we can use Google Earth to check the terrain
- This is particularly useful in rural areas such as La Pedriza (Madrid, Spain)



La Pedriza

4,8 ★★★★★ 674 reseñas

Reserva natural



Cómo llegar



Guardar



Cercano



Enviar a tu
teléfono



Compartir

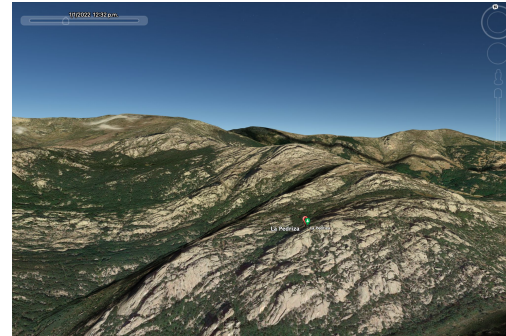
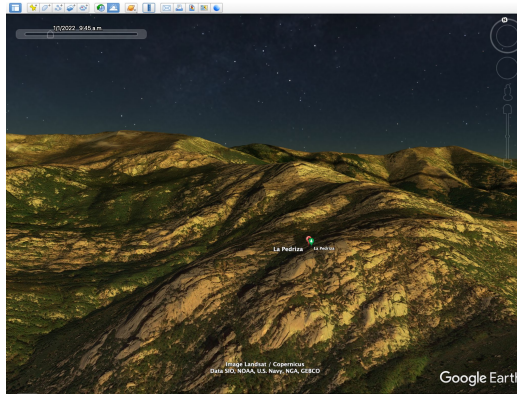
Área natural con riscos y formaciones rocosas, a la que acuden los aficionados al senderismo y la escalada. >

Terrain



Terrain

- We can even see the light and the shades that were present there and then
- We've got to click on the clock that is above



Terrain

- Also very useful to explore a place from the sky in 3D
- Disclaimer: this resource is only available for big cities or monuments



GEOLOCATION

PRACTICAL CASE: GOOGLE EARTH

- A video with hundreds of boats in a port
- They say that it's a port in Morocco and that immigrants are going to cross to Spain in these boats



Canarias

08:10 PM

Dicen que son imágenes de hoy en la costa de Marruecos preparados para salir

05:05 PM

GEOLOCATION

Does somebody recognize this port?
Any visual clues that can help us?

Similar images were published in Spanish outlets

Diario de Avisos.com
EL PERIÓDICO DE TENERIFE

Alerta máxima en Canarias ante una nueva crisis migratoria

DIARIO DE AVISOS 03/01/2020



Espectacular imagen aérea con centenares de cayucos amarrados en el puerto de Nuadibú, en Mauritania. DA

GEOLOCATION

El puerto de Nuadibú, con más de 1.000 embarcaciones en las que los inmigrantes tratan de llegar a Canarias

19 MAR 2006 - 00:00 CET



b
El banco que ve e

1/6

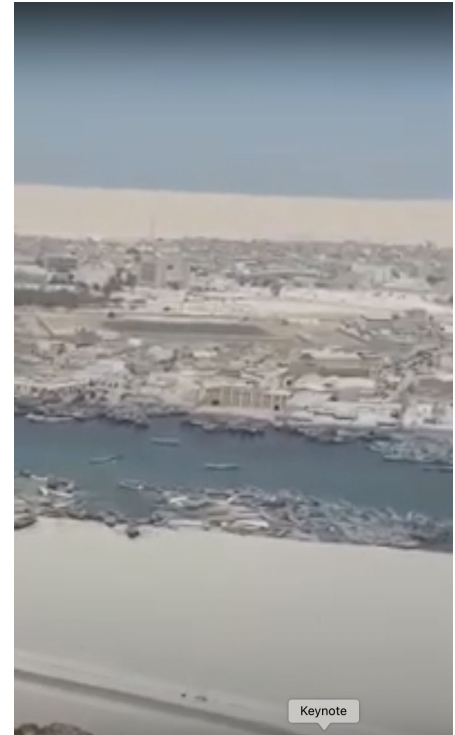
Este número es indic del riesgo del produc 1/6 indicativo de me y 6/6 de mayor riesg

Bankinter S.A se enc adherido al Fondo de de Depósitos de Enti Crédito de España. La cantidad máxima actualmente por el n Fondo es de 100.00€ por depositante.

GEOLOCATION

Let 's find out...

- Does it seem like the same place?



GEOLOCATION

Let's find out...

- It looks like it, right?
- **Google Earth Pro > Google Earth** as it offers many more perspectives and tools (such as the clock)
- **Downloading is advised**



GEOLOCATION

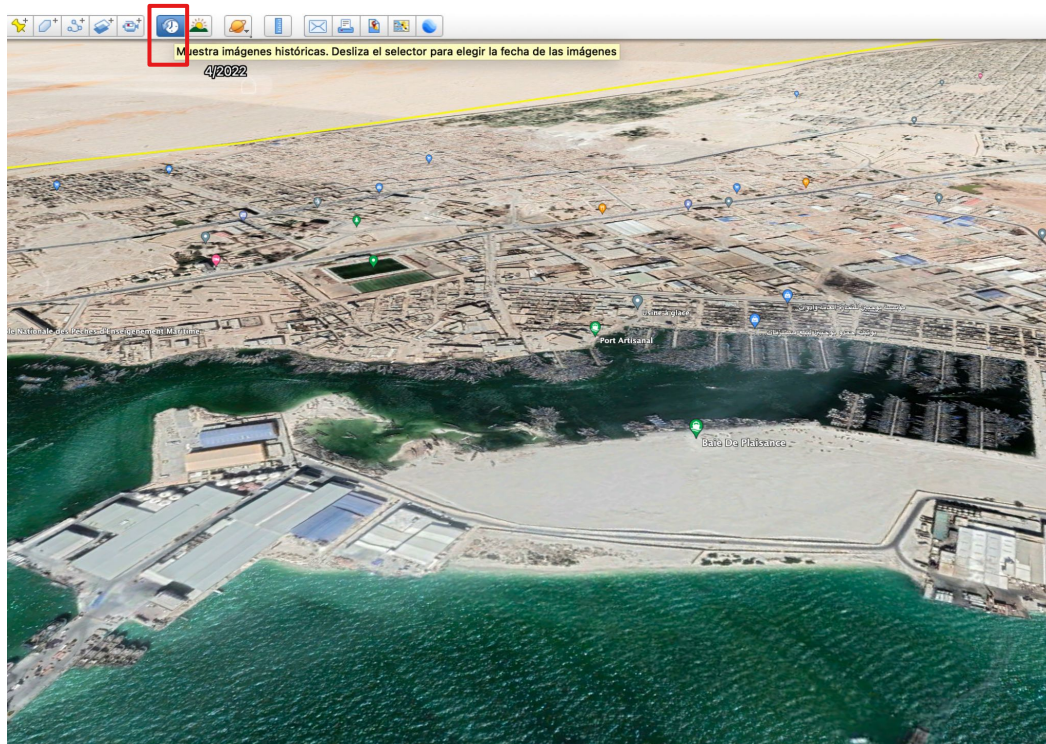
We checked Google Earth Pro and...

- Notice anything different?
- What's going on with the highlighted buildings?
- Why are they like that?



GEOLOCATION

It's time to use the clock to know when the video was filmed



GEOLOCATION

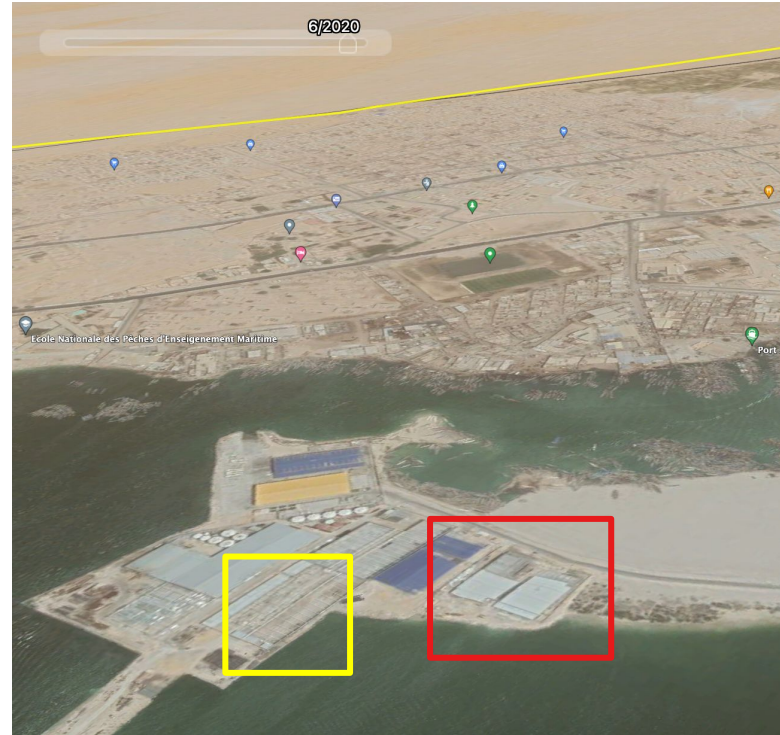
The Google Earth screenshot was taken in October 21, 2020, so the video has to be older than that



GEOLOCATION

If we go to the image that was taken in June 2020, one of the buildings (red) is already there, but not the other one (yellow)

The video has to be prior to June 2020



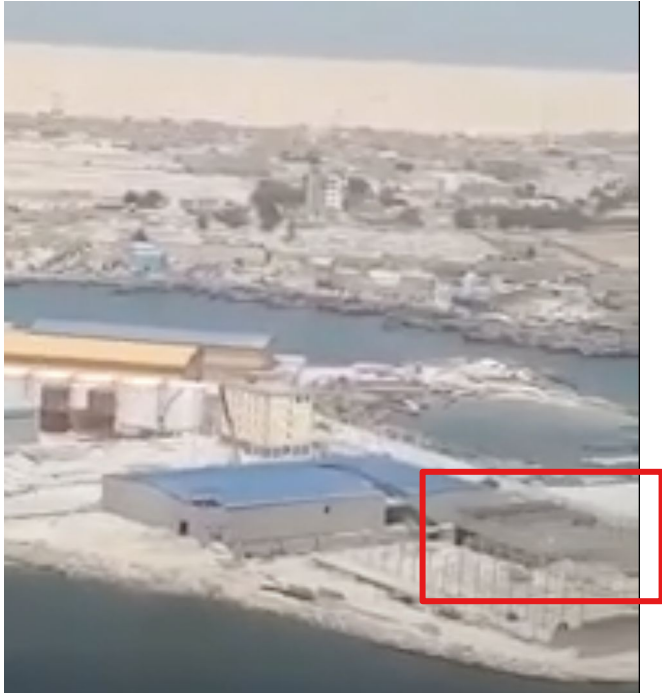
GEOLOCATION

In april 2020 the only thing that is built is part of the roof of one of the buildings



In the video the partially built roof is also the only thing that we can see

GEOLOCATION



GEOLOCATION

We now know that the images were not taken in november 2020, like the hoax said. It's also not Morocco, but Mauritania.

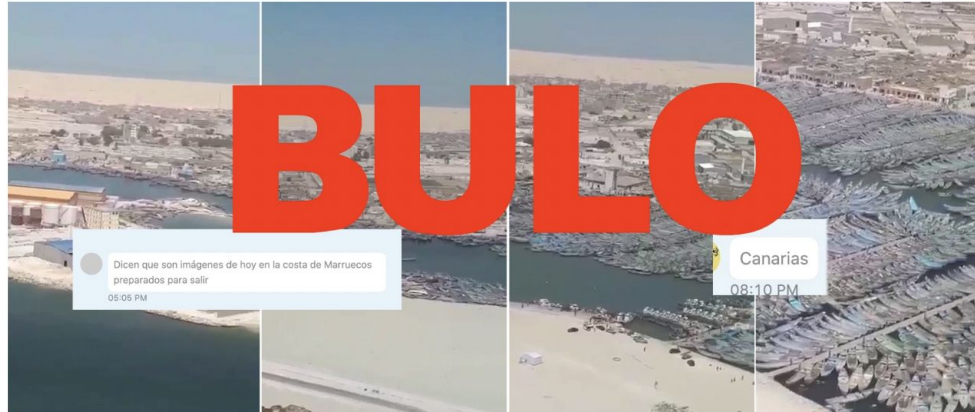
GEOLOCATION

No, this video in which boats are seen is not recorded in the Canary Islands nor are they "images from today of the coast of Morocco preparing to leave"

Published

11/24/2020 07:40

share



GEOLOCATION



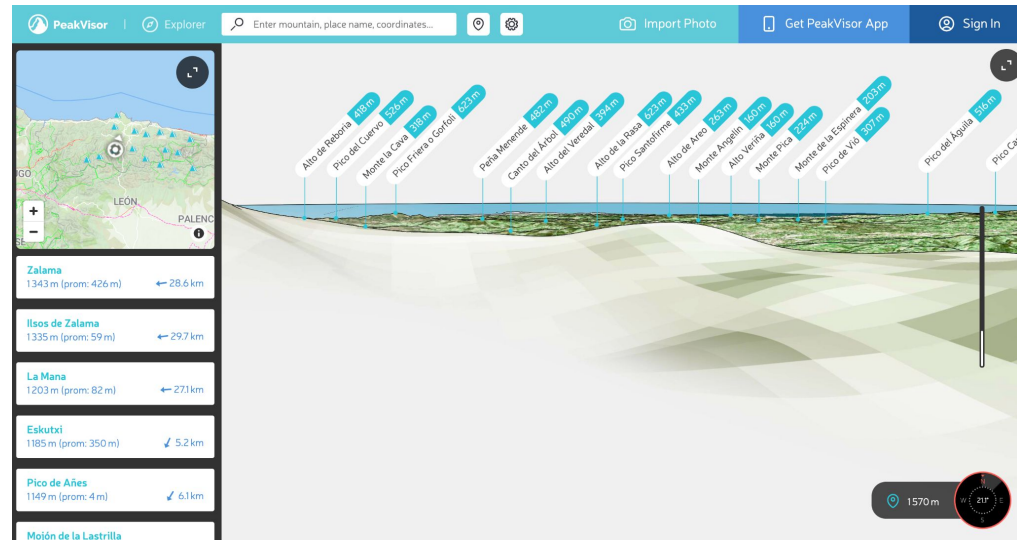
Bonus track: Peakvisor

Tool that lets you see a panoramic view
of every mountain

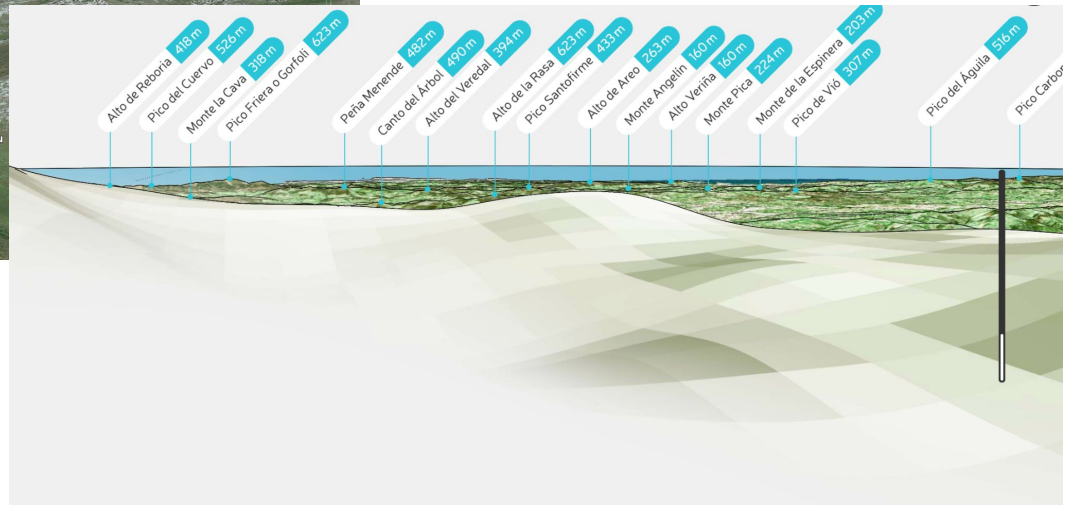
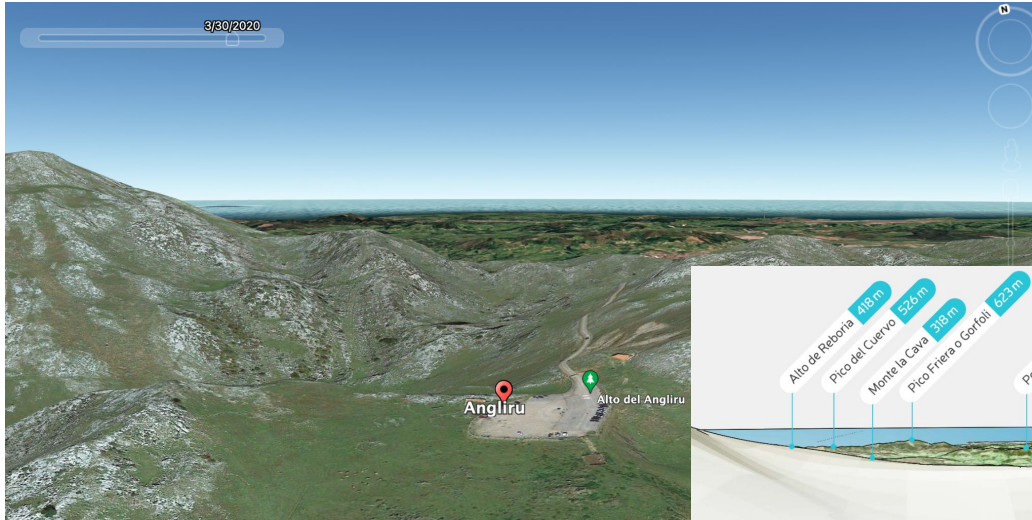
GEOLOCATION

- Useful to verify content in which mountains are present
- It shows other mountains that are nearby
- Distance to other locations of interest
- 360° view from mountaintops

ANGLIRU (ASTURIAS)



GEOLOCATION



GEOLOCATION

- You can upload pictures for the app to geolocate
- The picture has to have metadata
- Once you upload the pic, the app recreates the surroundings and identifies other mountains in the picture
- Free and easy to use app

PC



APP





los Cigros P... 640 m
Cerro de los Angeles 670 m

Cerro el Portillo 666 m

Cerros de Espartinas 710 m

Panano de Valmayor 631 m
Cerro del Angel

Risco de la Bruquera 1328 m

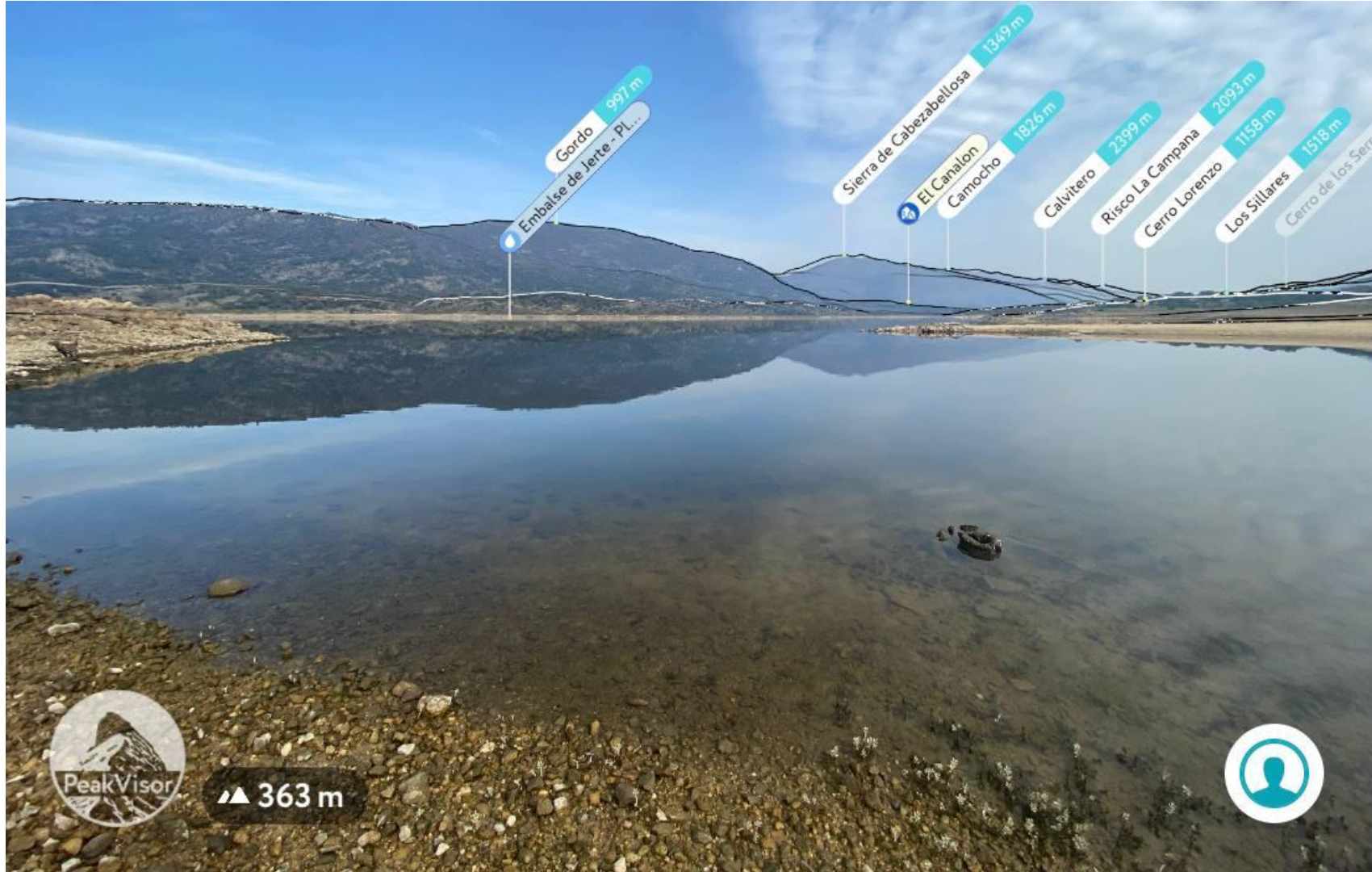
Cabeza Gato 1167 m

Cerro del Palo



▲ 1270 m





Gordo 997 m
Embalse de Jerte - Pl...

Sierra de Cabezabellosa 1349 m

El Canalon Camocho 1826 m

Calvitero 2399 m

Risco La Campana 2093 m

Cerro Lorenzo 1158 m

Los Sillares 1518 m

Cerro de los Serr...



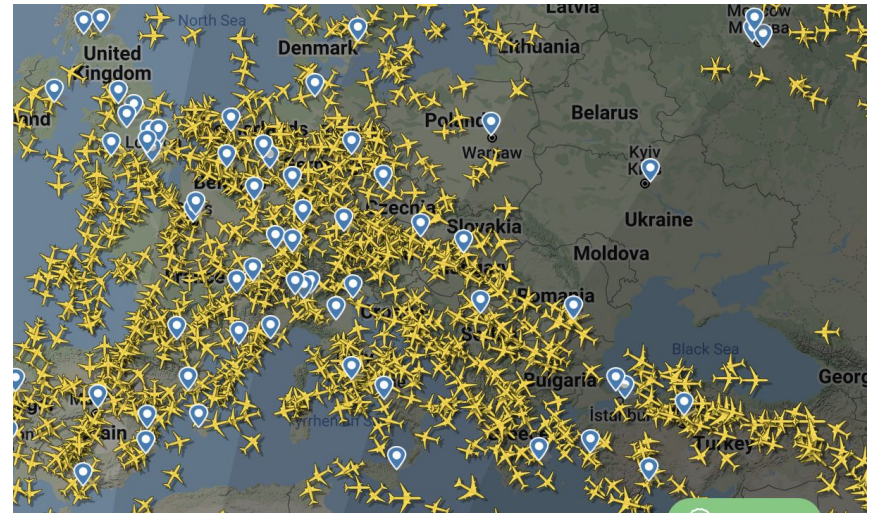
▲▲ 363 m



GEOLOCATION

Flightradar 24

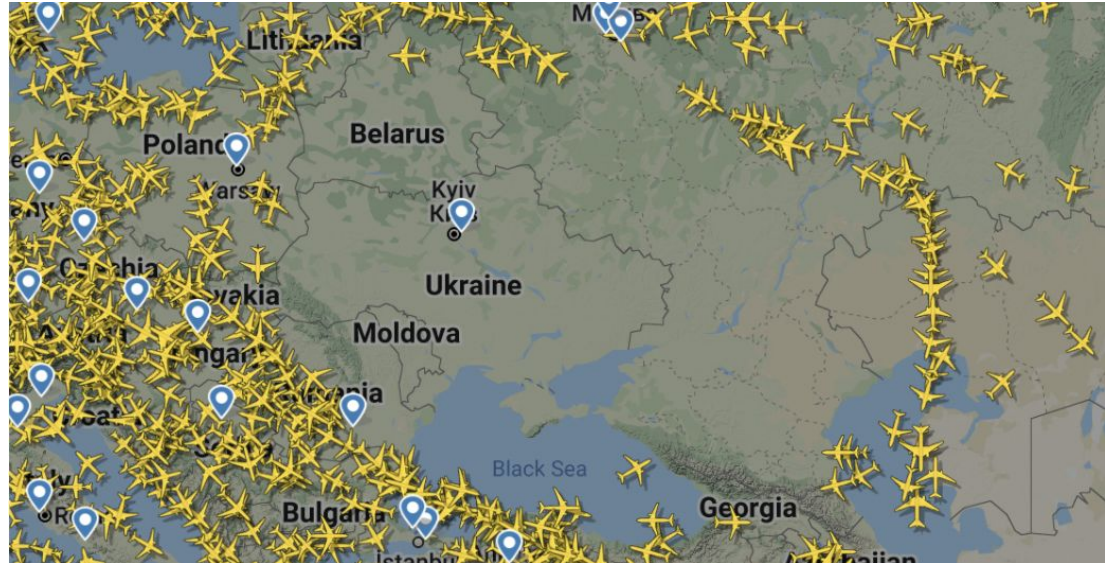
- Best app to monitor air traffic
- It follows flights in real time
- It lets us check the current state of airspace in a particular place
- We can also obtain information about a particular plane (route, company, model...)



Geolocation

UTILITIES

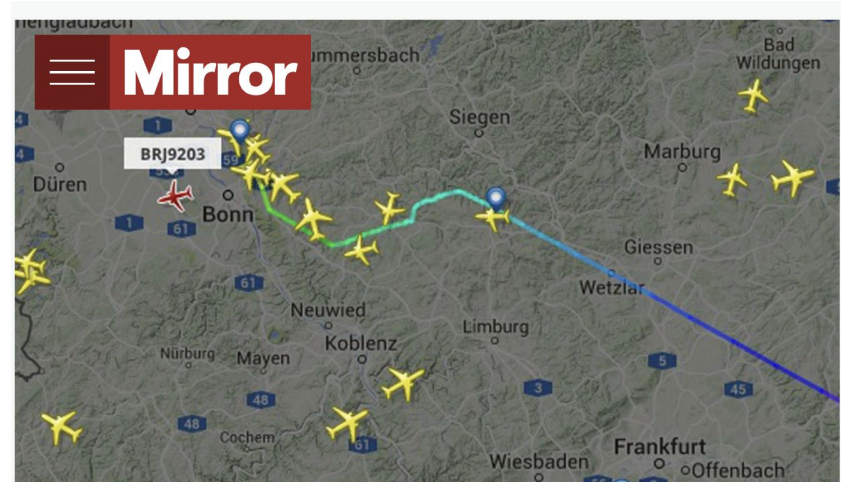
- We were able to monitor Ukraine's airspace with the tool



Geolocation

UTILITIES

- Thousands of people live-tracked Turkish President Erdogan's plane during the alleged coup in 2016



Flight radar of Erdogans flight into Europe from Turkey

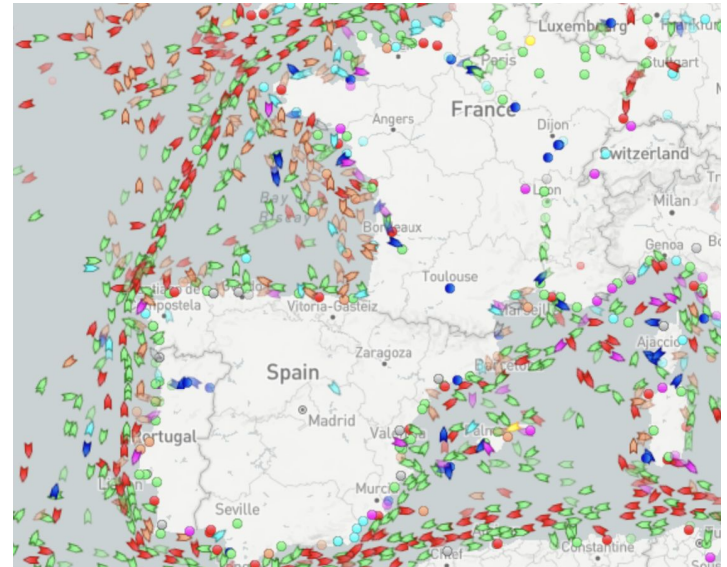
NEWS POLITICS FOOTBALL CELEBS TV MONEY TRAVEL

Is this Turkish President Recep Tayyip Erdogan's jet flying over Europe as he pleads for asylum after coup?

GEOLOCATION

MarineTraffic

- Good option for marine traffic
- Not all ships appear in real time (although it's usually quite accurate)
- It lets us know where a ship is from and where it's going



Utilities

GEOLOCATION

- We can check marine traffic in the Black Sea
- There's a Russian cargo ship close to Mariupol (Ukraine)

