

# Volar más alto para ver **mejor**

Teledetección aplicada a la conservación de los océanos

Por Pablo Benjumbeda   
*Orbital EOS*



# el pasado

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12  
AÑOS

en el Mar

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SALVAMENTO  
MARÍTIMO



# 12 años en el Mar



Teledetección aerotransportada





# 12 AÑOS

en el Mar

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SALVAMENTO  
MARÍTIMO



# 12 AÑOS

en el Mar

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SALVAMENTO  
MARÍTIMO

# 2 millones de toneladas

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de hidrocarburos al año  
casi todo **INDETECTADO**

Fuente: UNEP & Droit au droit & Univ Salento



**Fugas**



**Descargas ilegales**



**Accidentes**

A world map with a network overlay of glowing lines connecting various points across the globe. The map is dark blue, and the network lines are in shades of green, yellow, and orange. The text is overlaid on the map.

**95K barcos**

**1.400 plataformas**



**Océanos**

**=**

**2.5x continentes**

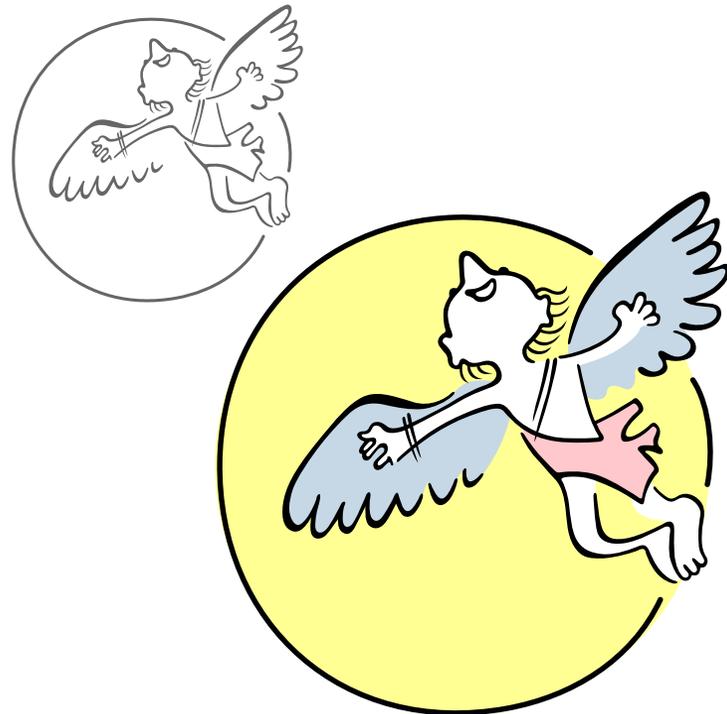
# Podemos conocer mejor la **CONTAMINACIÓN DEL MAR** por hidrocarburos a una escala global?

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# Qué tal si volamos **MÁS ALTO** ?

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**EO Open Science and FutureEO**

12-16 November 2018 | ESA-ESRIN | Frascati (Rome), Italy

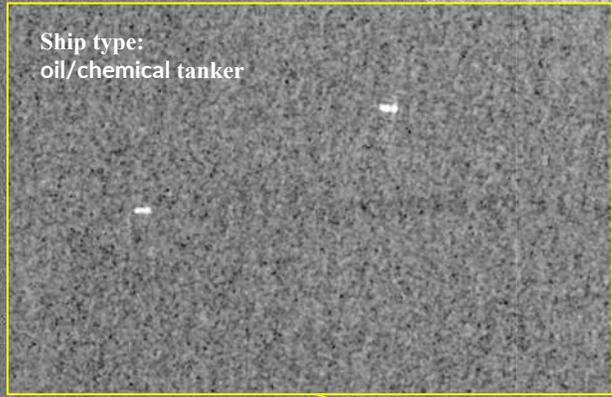


# el presente

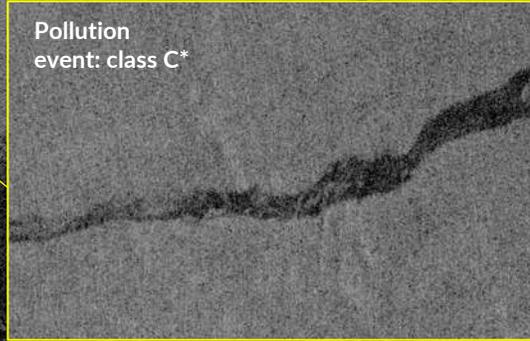
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A detailed satellite with gold-colored thermal blankets and solar panels is shown in orbit above the Earth. The satellite's main body is rectangular and covered in gold, with various instruments and antennas protruding. Two long solar panel arrays extend from the side, covered in dark solar cells. The Earth below is a vibrant blue with white clouds and brown landmasses.

Ahora usamos **satélites**

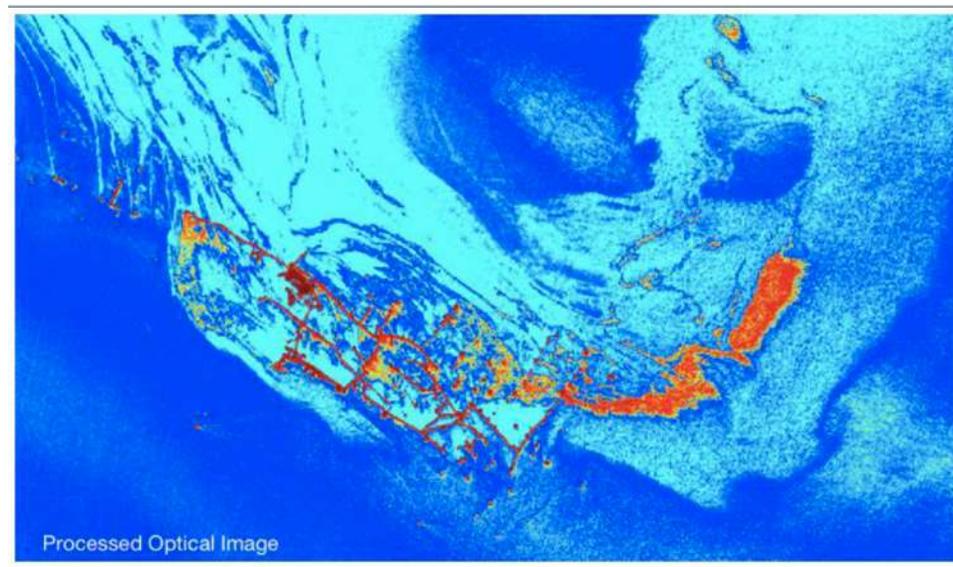
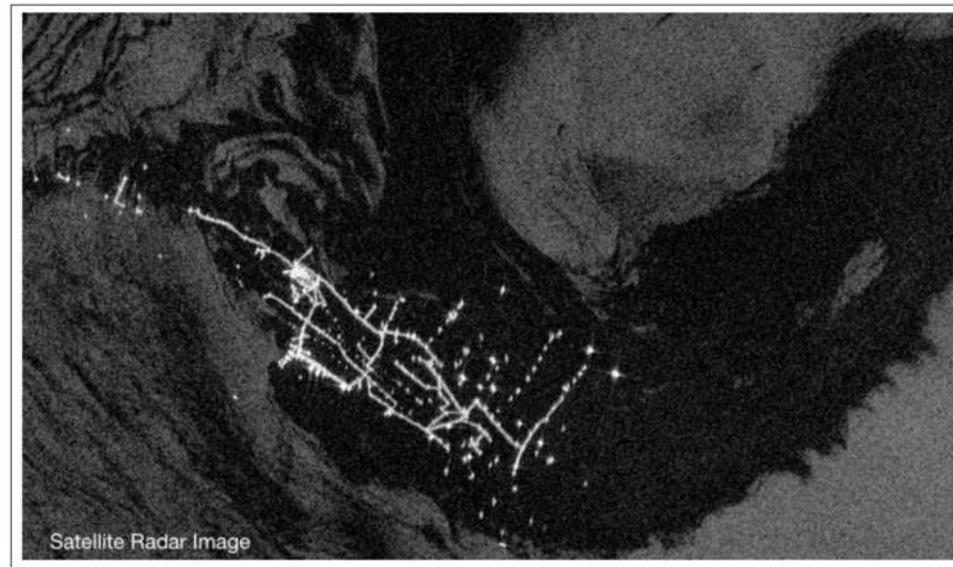
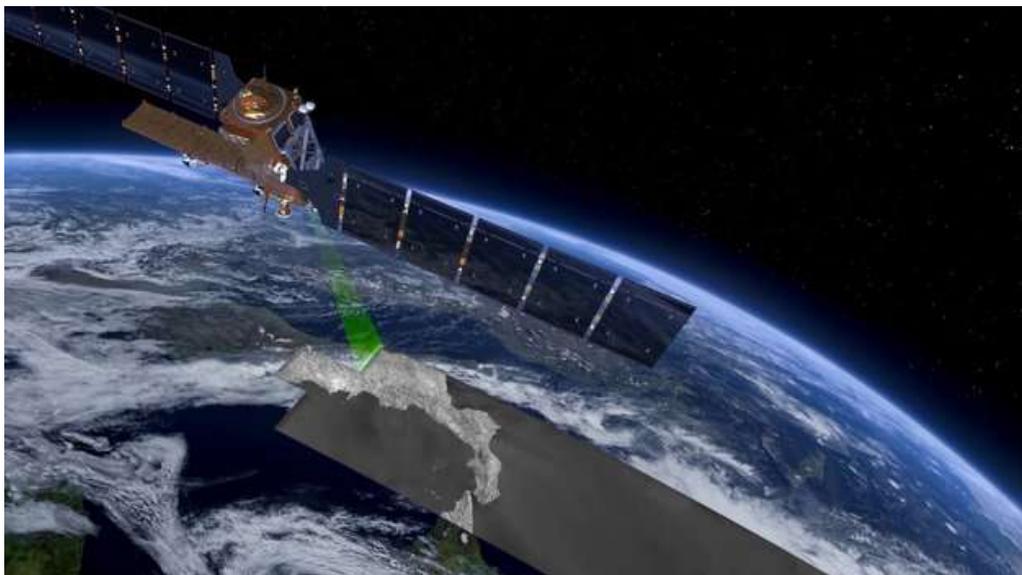


4 Nautical  
Miles

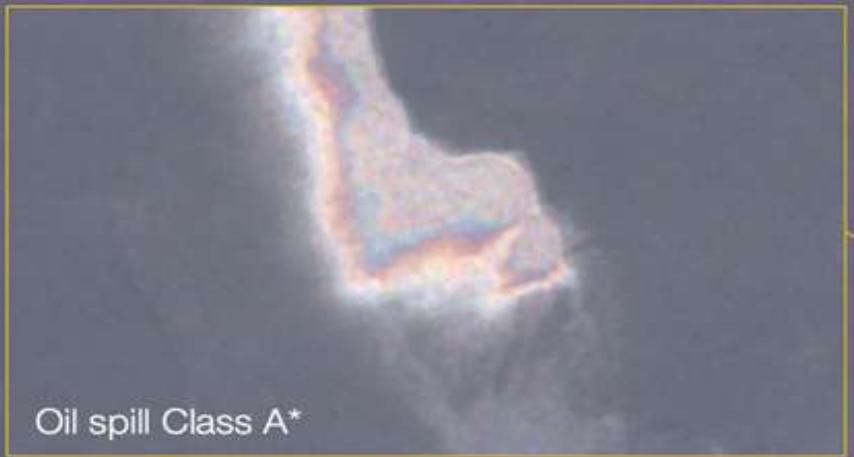


Total polluted Area: 15.5 km<sup>2</sup>

Data © ESA Image © Orbital EOS





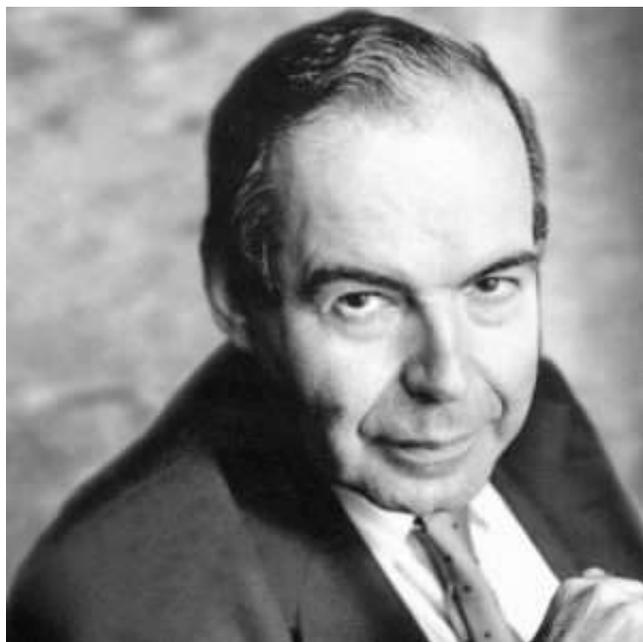




# Detección automática de Oil spills

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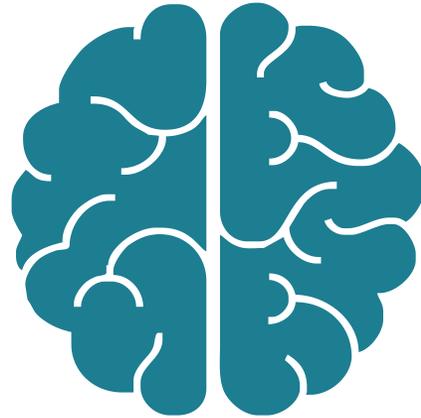




Edward de Bono

**El cerebro funciona  
creando patrones  
usando patrones**

**input**

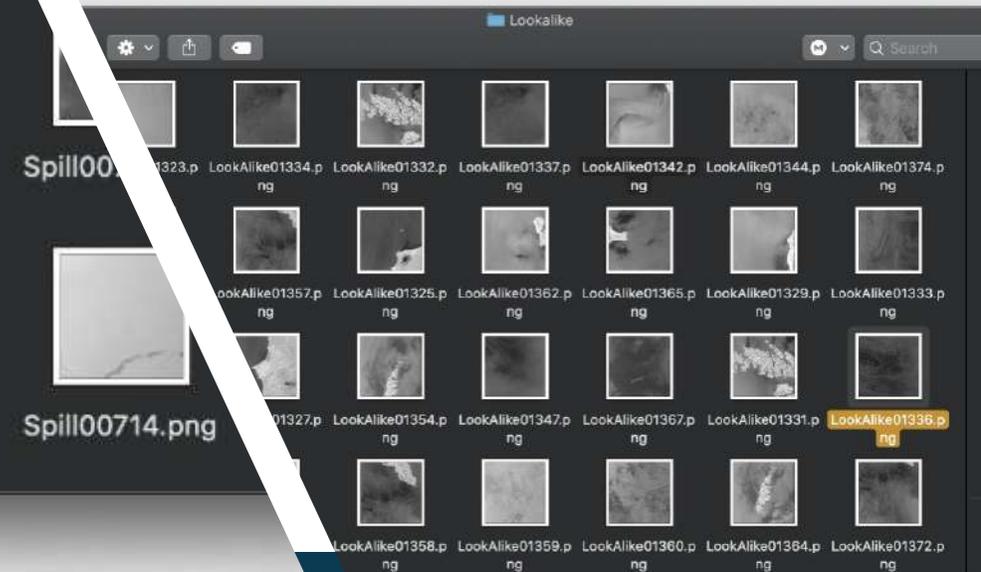
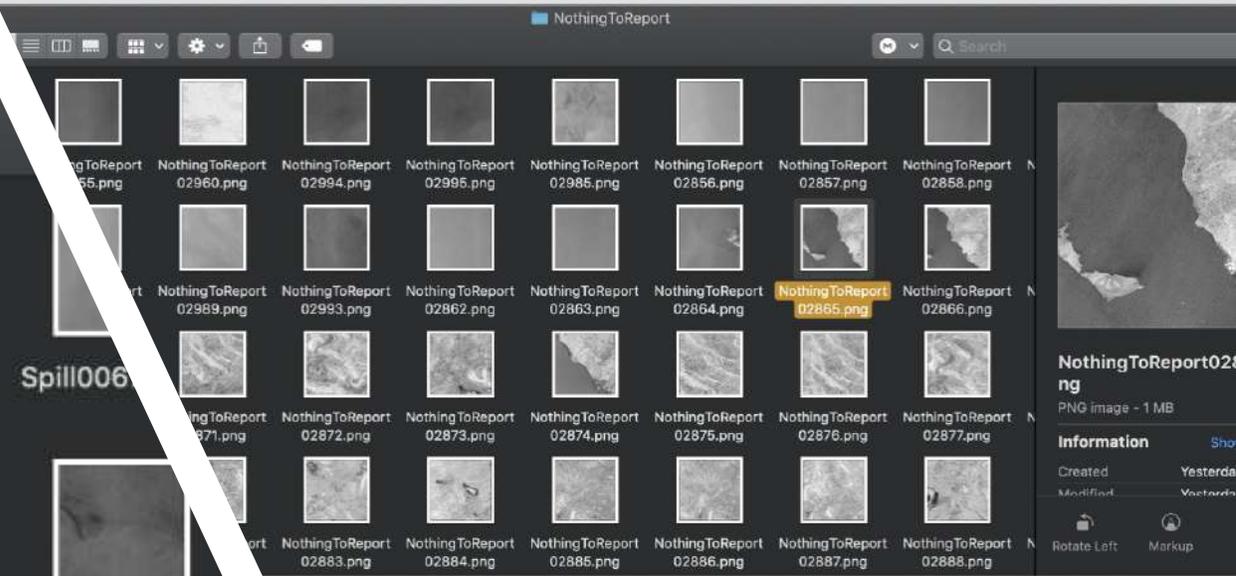
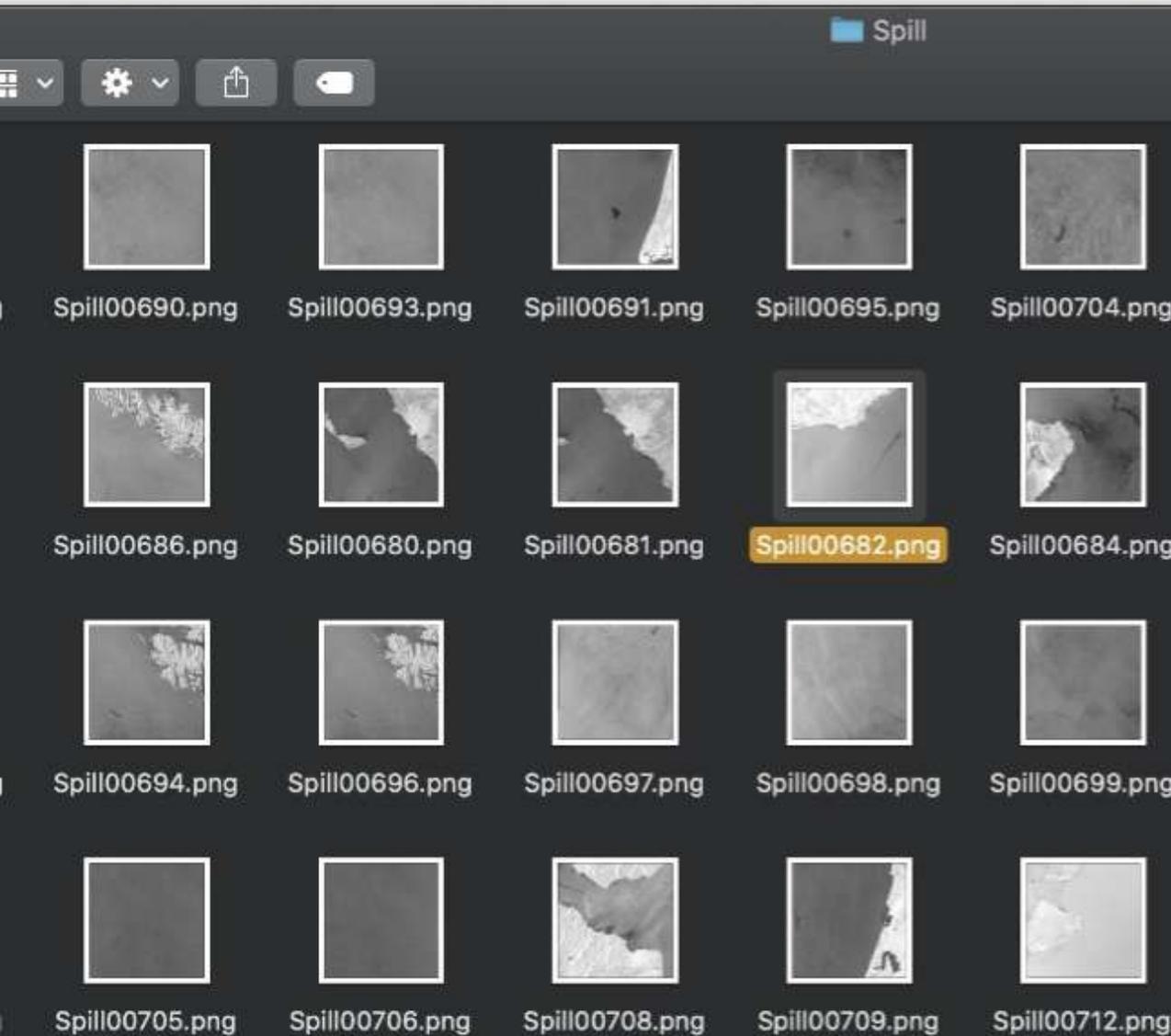


**output**

**input**



**output**



A world map with a dark blue background, overlaid with a network of thin, glowing lines in shades of green, yellow, and orange, representing satellite data or global connectivity. The map is centered on the Atlantic Ocean.

# **EOS Viewer**

**by Orbital EOS**

**The first platform providing global oil  
pollution intelligence**

**Satellite observation + AI**



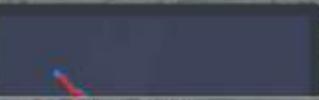
20200603-01



20200602-01



20200601-01



Showing: All events

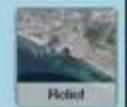


Event Information

Details

Area: 37.81 km<sup>2</sup>    Class 0: 8  
Date: June 03, 2020    Hour: 16:48:00 UTC  
Position: 42°2.16'N, 16°26.22' E  
Shore distance: 28 km  
Min. Volume: 1.51 m<sup>3</sup>  
Satellite: Sentinel-1  
Less info ↑

Tools

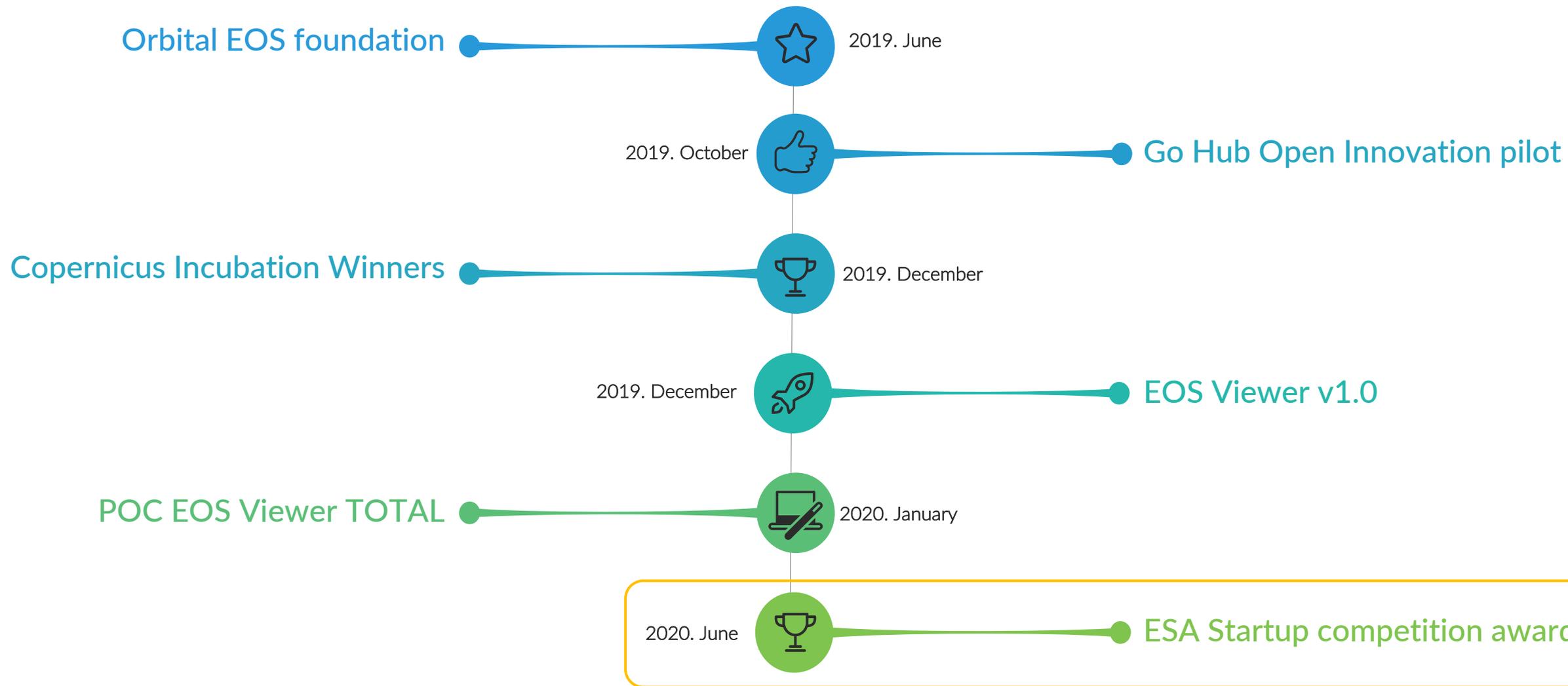


Lat/Lng(42.746, 18.798)

# go:hub



# Roadmap



# el futuro

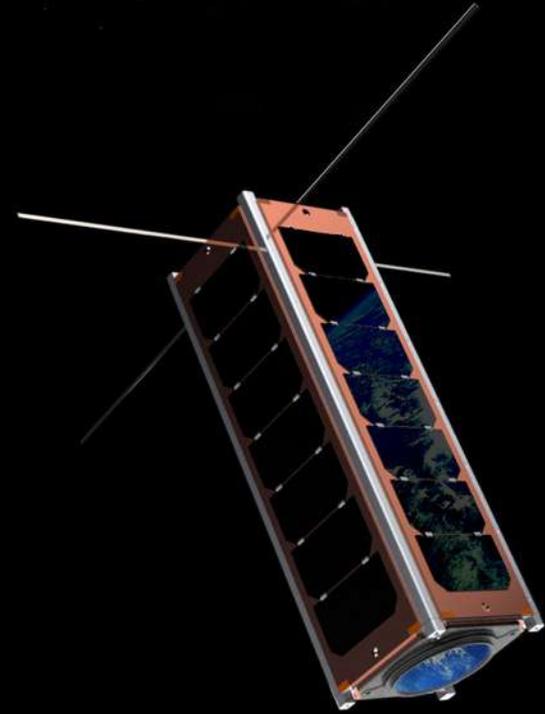
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# #AI4EO

In orbit demonstrator



# smart



**real time**





**accessible**

# GRACIAS

Preguntas ?



✈ Alvaro de Bazán, 10, 46010,  
Valencia, Spain

☎ 0034.647.704092

🌐 [pablo@orbitaleos.com](mailto:pablo@orbitaleos.com)