



QUASAR

SCIENCE RESOURCES, S.L.

ENHANCE YOUR RESEARCH

Quasar Science Resources

**Ignacio de la Calle, Scientist
Madrid, Spain**

IGNACIODELACALLE@QUASARSR.COM

2016

25 employees, a combination of Scientists and Software Engineers

Aerospace Sector

Earth Observation, Remote Sensing

Quasar Science Resources participates
in the ESA Business Incubation Centre Madrid Region



business incubation centre
Madrid Region

fundación para el
conocimiento
madrid



FUNDACIÓN
Parque Científico
de Madrid





Sentinel-2

Posidonia

Formentera

Posidonia
SIMBAD
A Scientific Platform
to Protect Earth's Ecosystems
from Space

ENHANCE YOUR RESEARCH

Quasar Science Resources participates in the ESA Business Incubation Centre Madrid Region

 **esa** business incubation centre
Madrid Region

fundación para el conocimiento
madrid

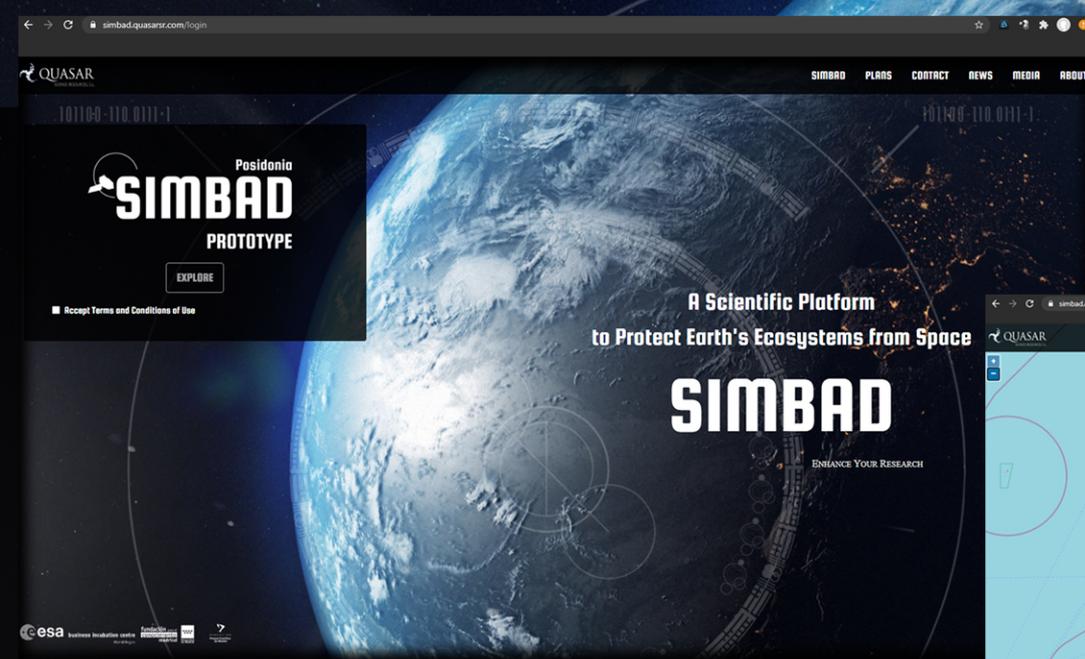
Comunidad de Madrid


FUNDACIÓN
Parque Científico
de Madrid

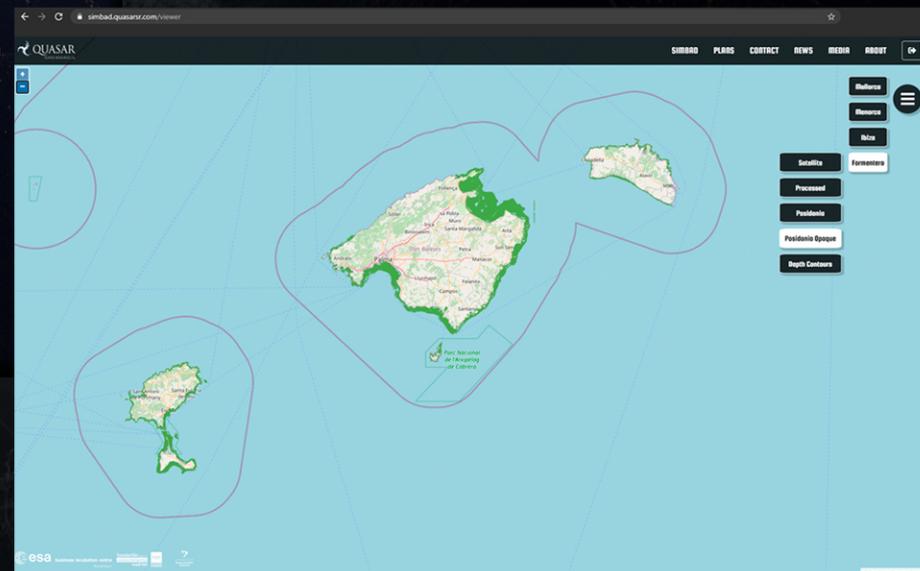
 **QUASAR**
SCIENCE, RESOURCES, S.L.

Incubation period: Oct18 – Jan21

Map Posidonia Oceanica Meadows in the Mediterranean Sea



<https://simbad.quasarsr.com>

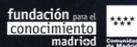
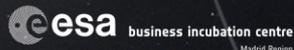


Prototype Released in Sep 2019

Products based on Sentinel 1, 2 and 3 imagery

Posidonia, Oil spills, Plastics and Water quality

Quasar Science Resources participates in the ESA Business Incubation Centre Madrid Region



SIMBAD: Scientific Exploitation Platform at a Glance

Docker + Kubernetes for automating deployment, scaling, and management of containerized applications

SIMBAD provides,

Modular system easy to maintain and/or modify.

Configurable and scalable in terms of performance and fault tolerance.

Services are deployed as needed either locally or in any cloud environment.

Security in kub environments.

VISUALIZATION

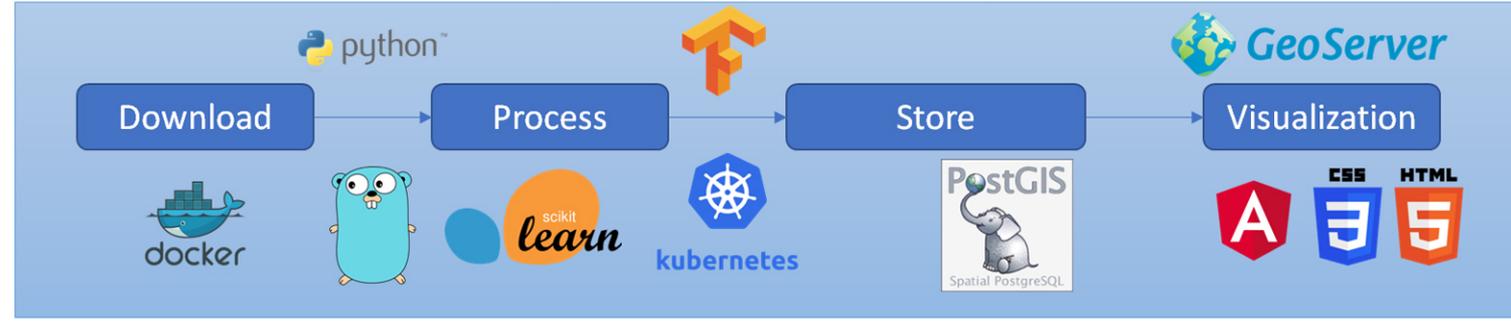
Data visualization, Mask processing, Alerts and notifications configuration

ADMINISTRATION

Region configuration, Download automatization, Processing automatization, Data and Images storing

MONITORIZATION

Alerts and notifications management

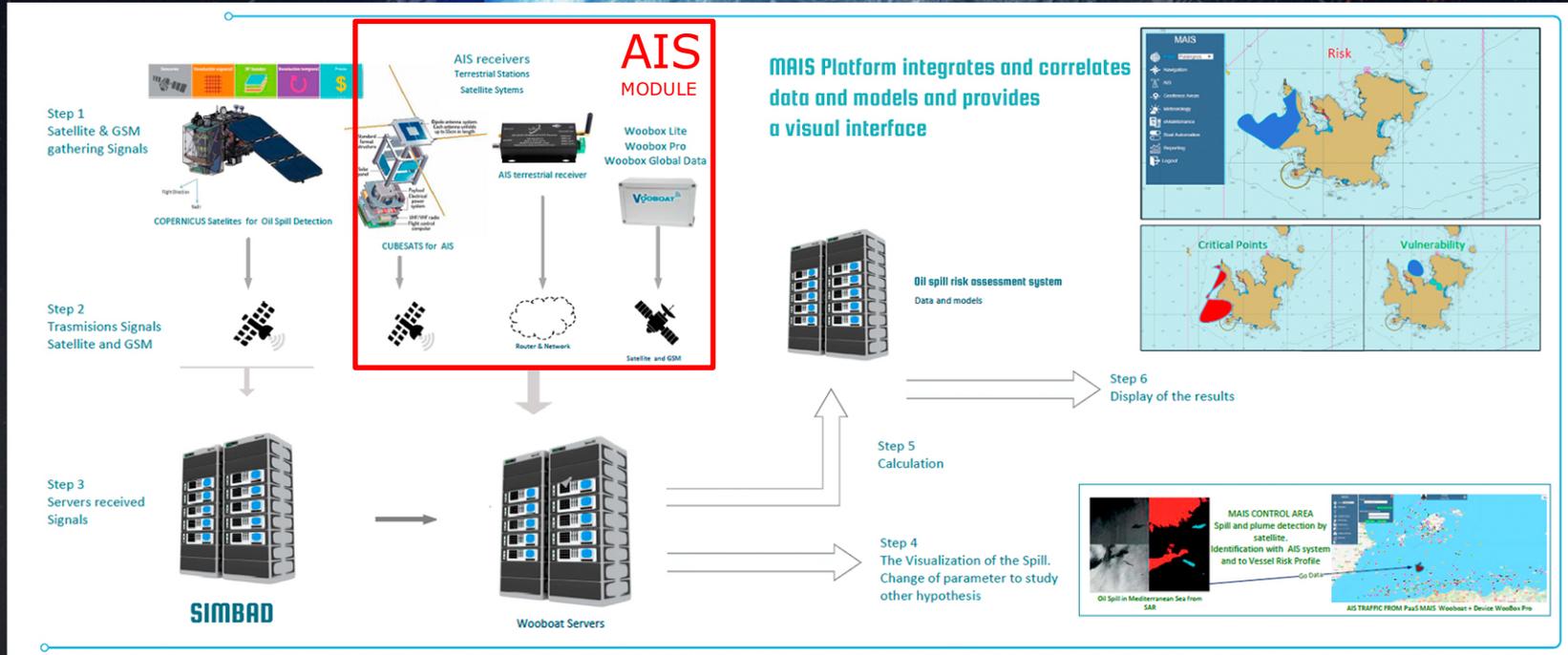


Quasar Science Resources participates in the ESA Business Incubation Centre Madrid Region

SIMBAD: Copernicus + MAIS for Oil Spill Risk Assessment

Based on AIS (Automatic Identification System) is a vessel identification system.

MAIS (Maritime Area Integral Supervision) – Establishing an integral and continuous control of surface ships devices in a perimeter sea area, to improve their management and control.



Quasar Science Resources participates in the ESA Business Incubation Centre Madrid Region



business incubation centre
Madrid Region



A View on Users (personal impressions)

EO products are booming, but is the demand for them increasing at the same pace ?

Potential users are very excited when they see what EO products can deliver

There is a gap between what EO products deliver and the user *very specific* needs

EO products are in early stages of development, although in the future this gap should/will be closed

There are no generic users, every user is different. This is particularly true for water products.

Marine Protected Areas (MPAs)

Local and Government Authorities

Port Authorities

What do users look for in EO products ?

Real Time or Near Real Time information

Development of monitoring and alert systems

weather conditions

High demand, but are complex systems which are not always possible

spatial resolution

Data trends, forecast, statistics, stack products

revisit times

Software as a Service (SaaS)

Nowadays new concepts are been introduced in the way software or software products are been delivered to the user

Infrastructure as a Service (IaaS)

Platform as a Service (PaaS)

Are users willing to pay the price ?

Are EO products helping a user to reduce costs ?

Are EO products helping a user to increase its productivity ?

License scheme with a lifetime license + maintenance agreement

Service Scheme

Maintenance agreement comes with free updates and features

Integration of EO products with user applications

Quasar Science Resources participates in the ESA Business Incubation Centre Madrid Region



business incubation centre
Madrid Region

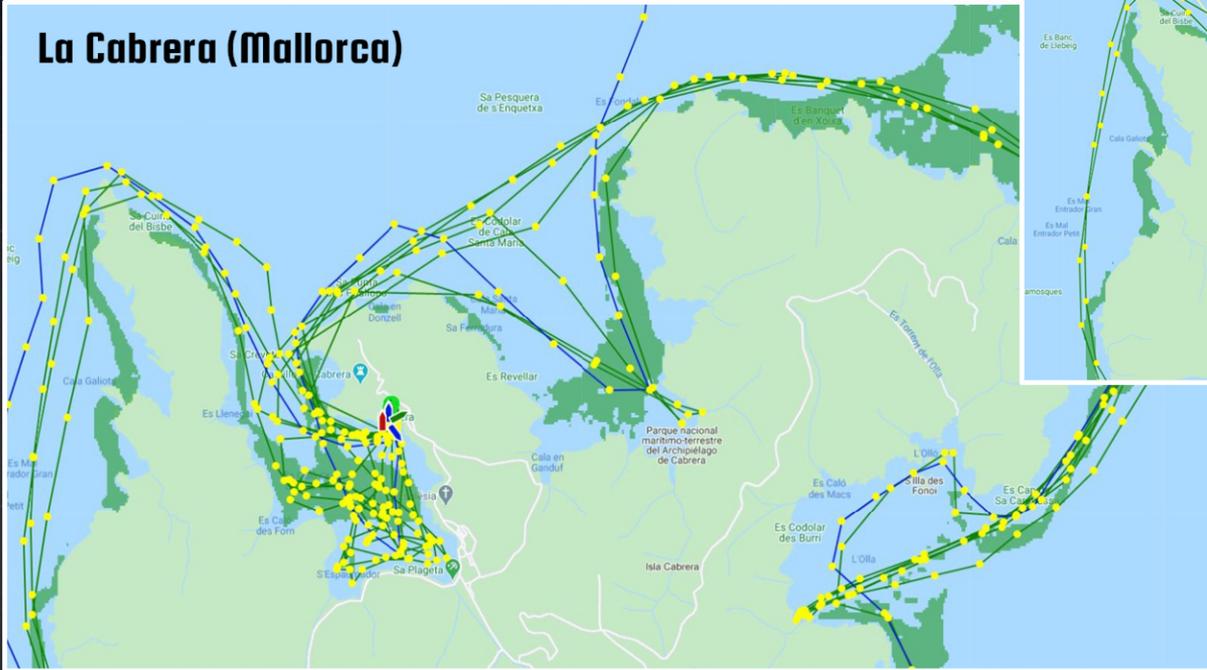
fundación para el
conocimiento
madrid



FUNDACIÓN
Parque Científico
de Madrid

QUASAR
SCIENCE RESOURCES, S.L.

EXAMPLE: Combining Maritime Area Integral Supervision (MAIS) with Posidonia Cartography (SIMBAD)



VooBOAT

Member of

WORLD ALLIANCE
for EFFICIENT SOLUTIONS

by SOLARIMPULSE
FOUNDATION

Quasar Science Resources participates in the ESA Business Incubation Centre Madrid Region



business incubation centre
Madrid Region



FUNDACIÓN
Parque Científico
de Madrid



QUASAR
SCIENCE RESOURCES, S.L.

www [HTTPS://QUASARSR.COM](https://quasarsr.com)

f [HTTPS://FACEBOOK.COM/QUASARSR](https://facebook.com/quasarsr)

 [HTTPS://TWITTER.COM/QUASAR_SR](https://twitter.com/quasar_sr)

 [HTTPS://WWW.INSTAGRAM.COM/QUASAR_SR/](https://www.instagram.com/quasar_sr/)

You Tube

Linked in [HTTPS://ES.LINKEDIN.COM/COMPANY/QUASAR-SCIENCE-RESOURCES](https://es.linkedin.com/company/quasar-science-resources)

 CONTACT@QUASARSR.COM

 +34 91 1375371

 EDIFICIO CEUDAS, CTRA. DE LA CORUÑA KM 22.300,
28232 LAS ROZAS DE MADRID, MADRID (SPAIN)

ENHANCE YOUR RESEARCH