



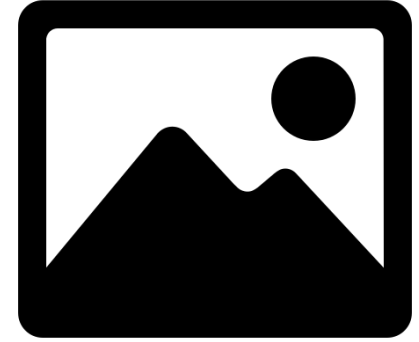
El programa Copernicus

Datos Digitales y de Observación de la Tierra

Webinar para las Delegaciones de la UE en LAC

Pablo Vega Ezquieta

Índice General



Modulo 1:

- El programa Espacial de la UE

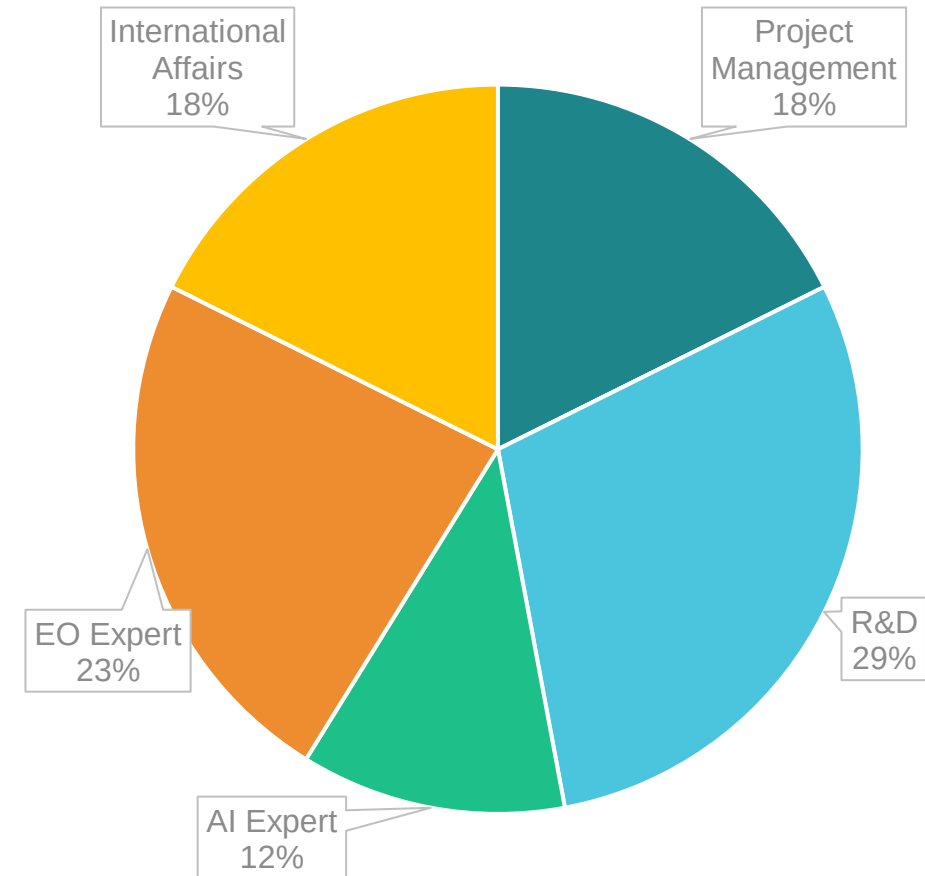
Módulo 2:

- Casos de uso en la región LAC

Módulo 3:

- Accediendo a los datos

Quien soy yo, y por qué debería importarles?





Mentimeter

Conozcámonos

¿Han usado alguna vez algún servicio o dato del programa Copérnicus?

Módulo 1

El programa espacial de la UE

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EU Space Programme



EU Space Programme



EU Space Programme



Open Service

Public Regulated Service

Search and Rescue

EU Space Programme



EU Space Programme



Collision Avoidance

Re-entry Analysis

Fragmentation Analysis

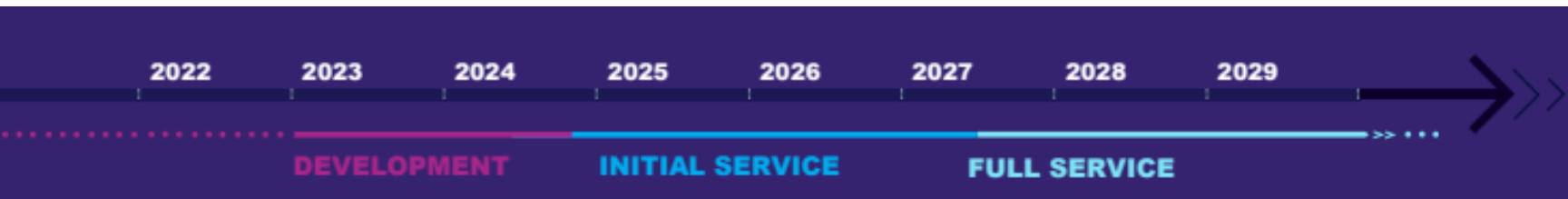
EU Space Programme



EU Space Programme



A space-based secure communication system for the benefit of EU citizens



EU Space Programme



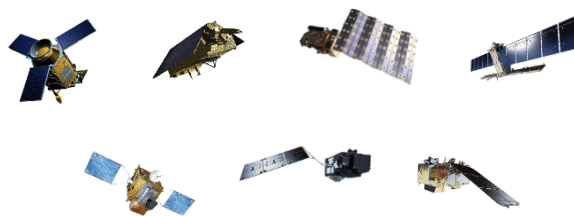
EU Space Programme



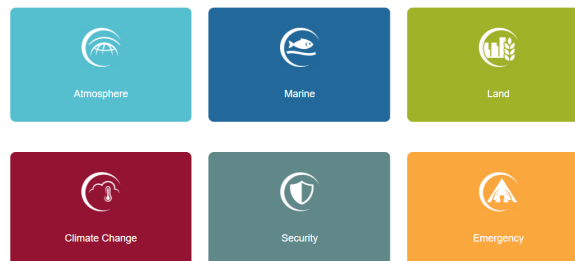
EUROPE'S EYES ON EARTH



Desde 1998...



7 sistemas de satélites
propios



6 servicios temáticos

EU Space Programme



EUROPE'S EYES ON EARTH





Mentimeter

Quiz Time

¿Cuántos satélites hay en órbita?

¿Cuántos usuarios únicos tiene Copernicus?

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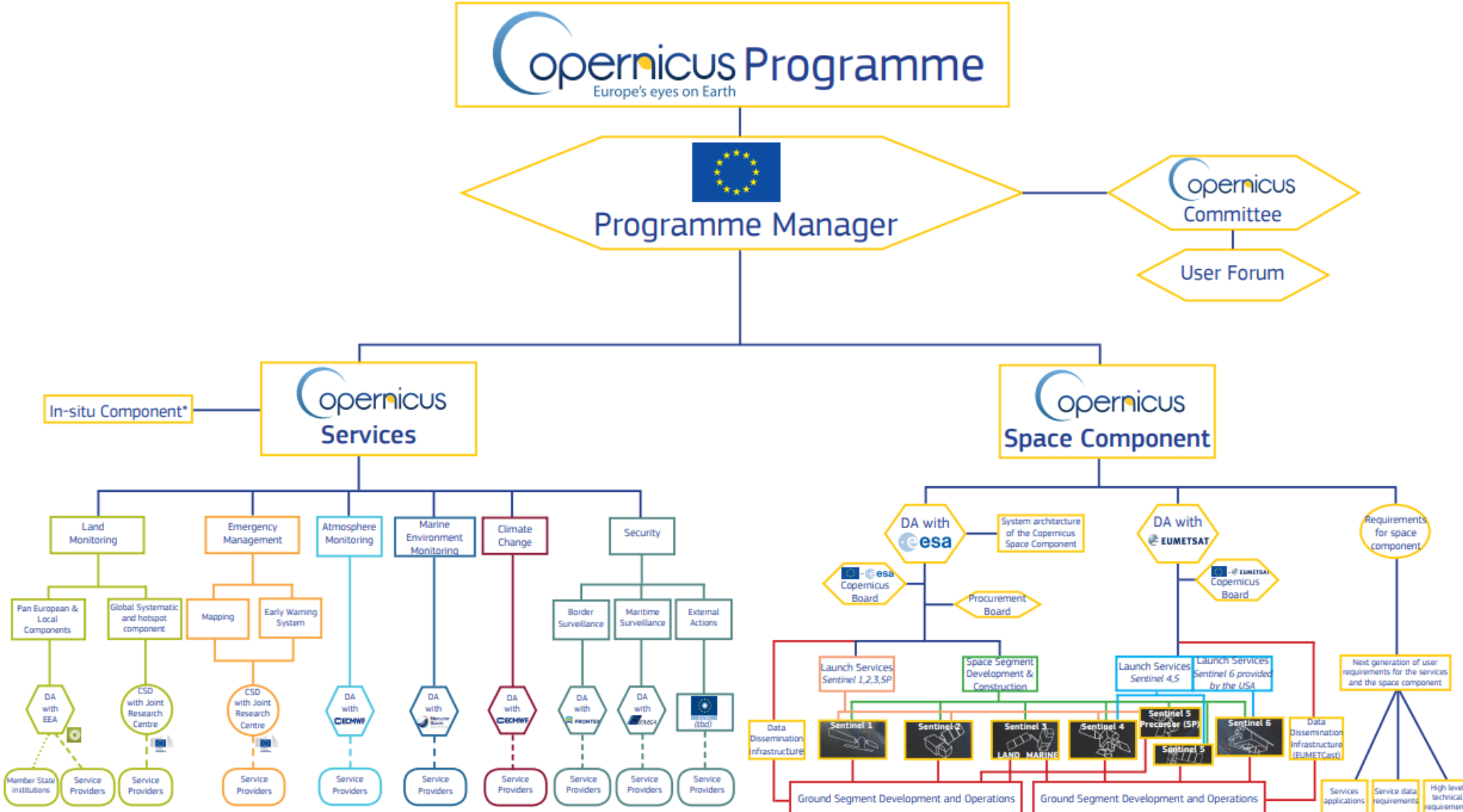
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Organización del Programa Copérnicus



Organización del Programa Copérnicus



Organización del Programa Copérnicus



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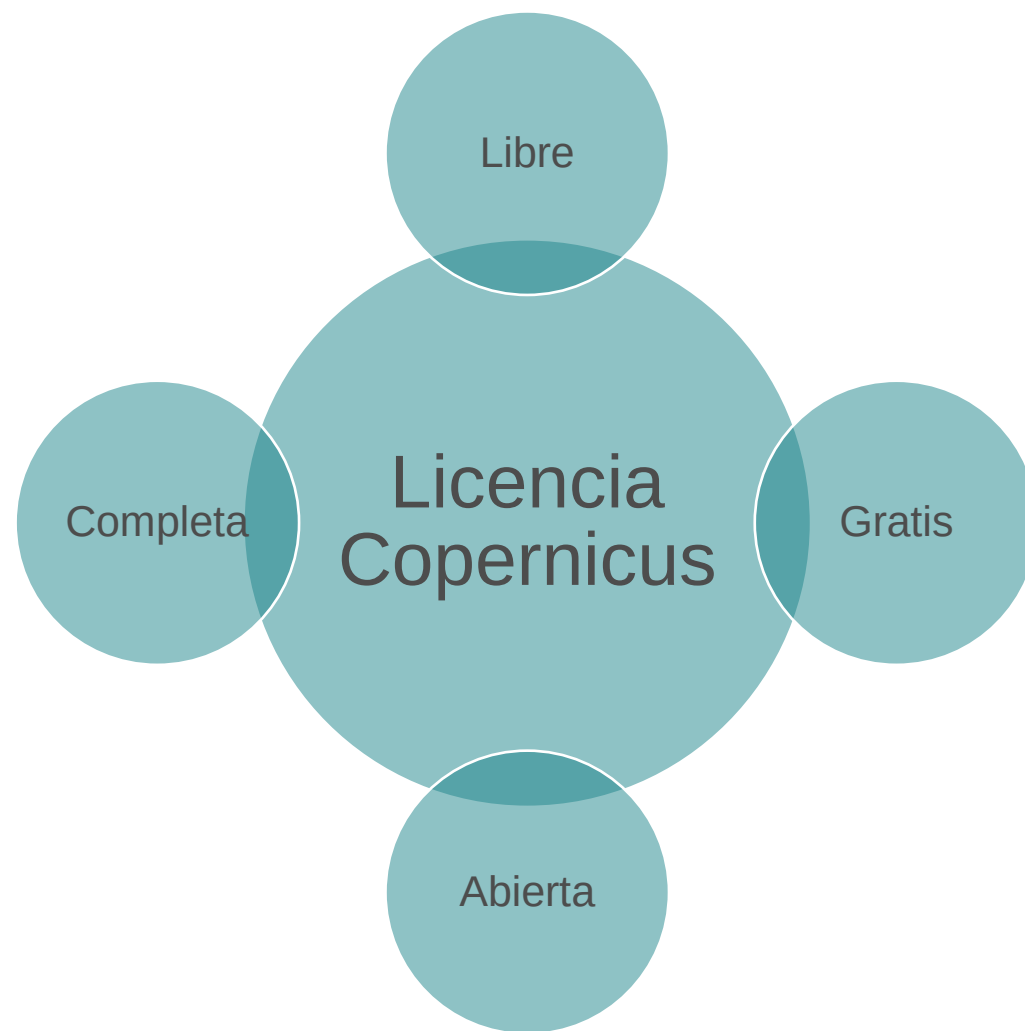
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Modelo de Negocio



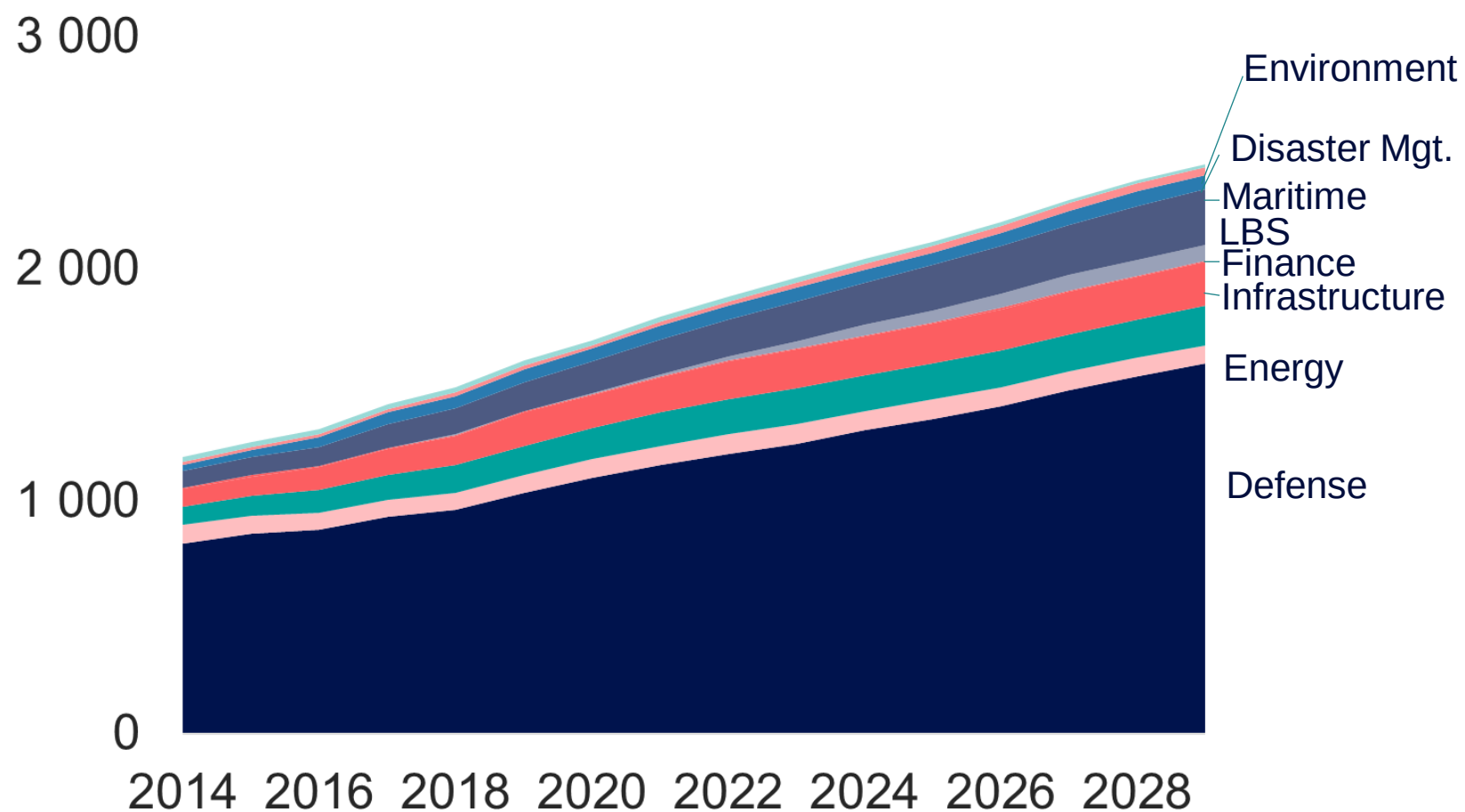


Mentimeter

Quiz Time

La licencia de Copernicus es gratis y abierta porque....

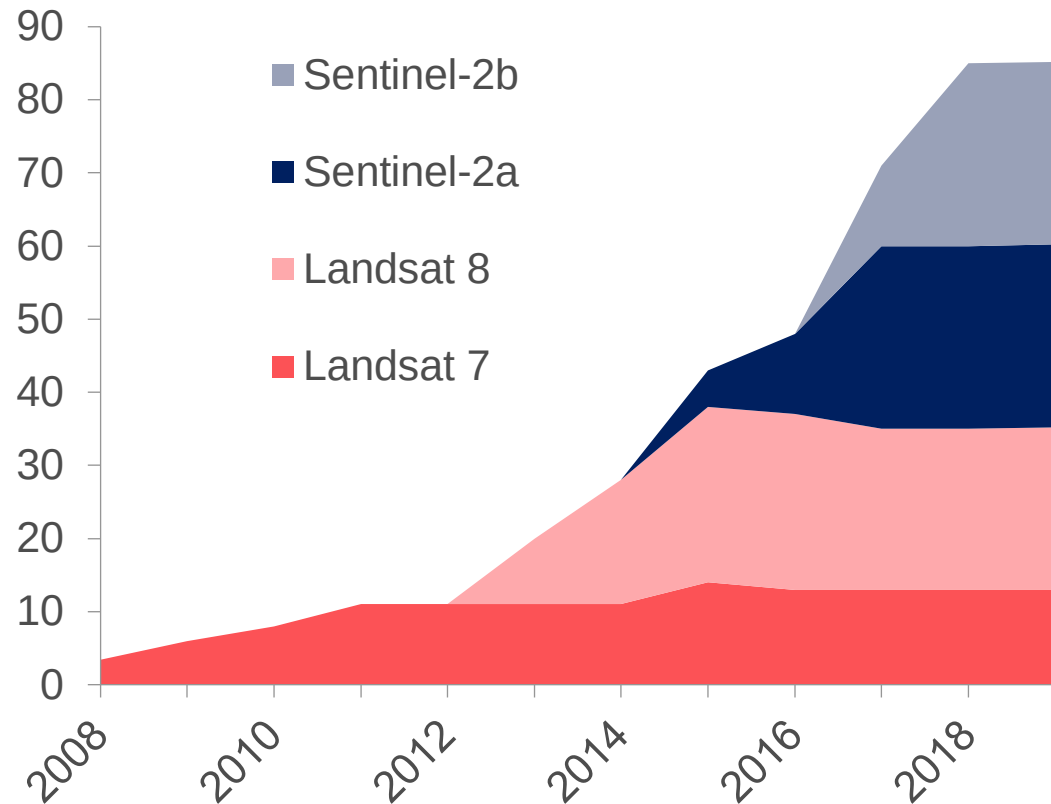
Modelo de Negocio



Modelo de Negocio

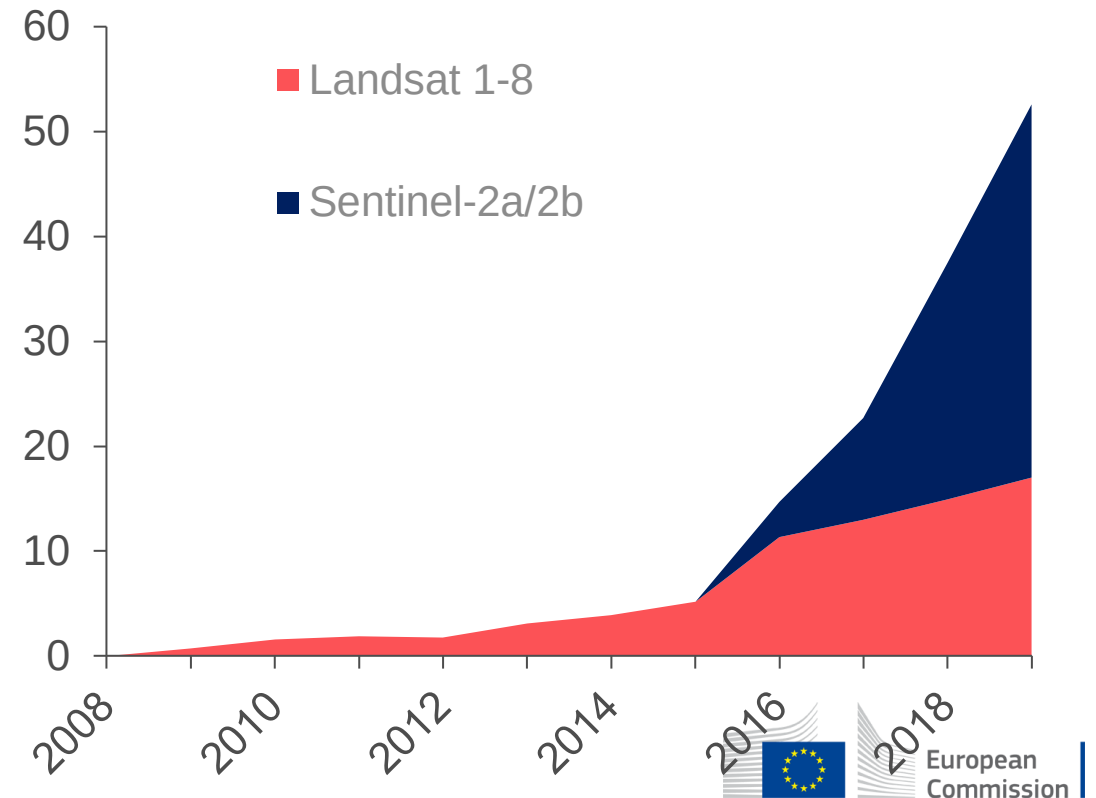
Adquisición de datos gratuitos

Optico, en Mkm2

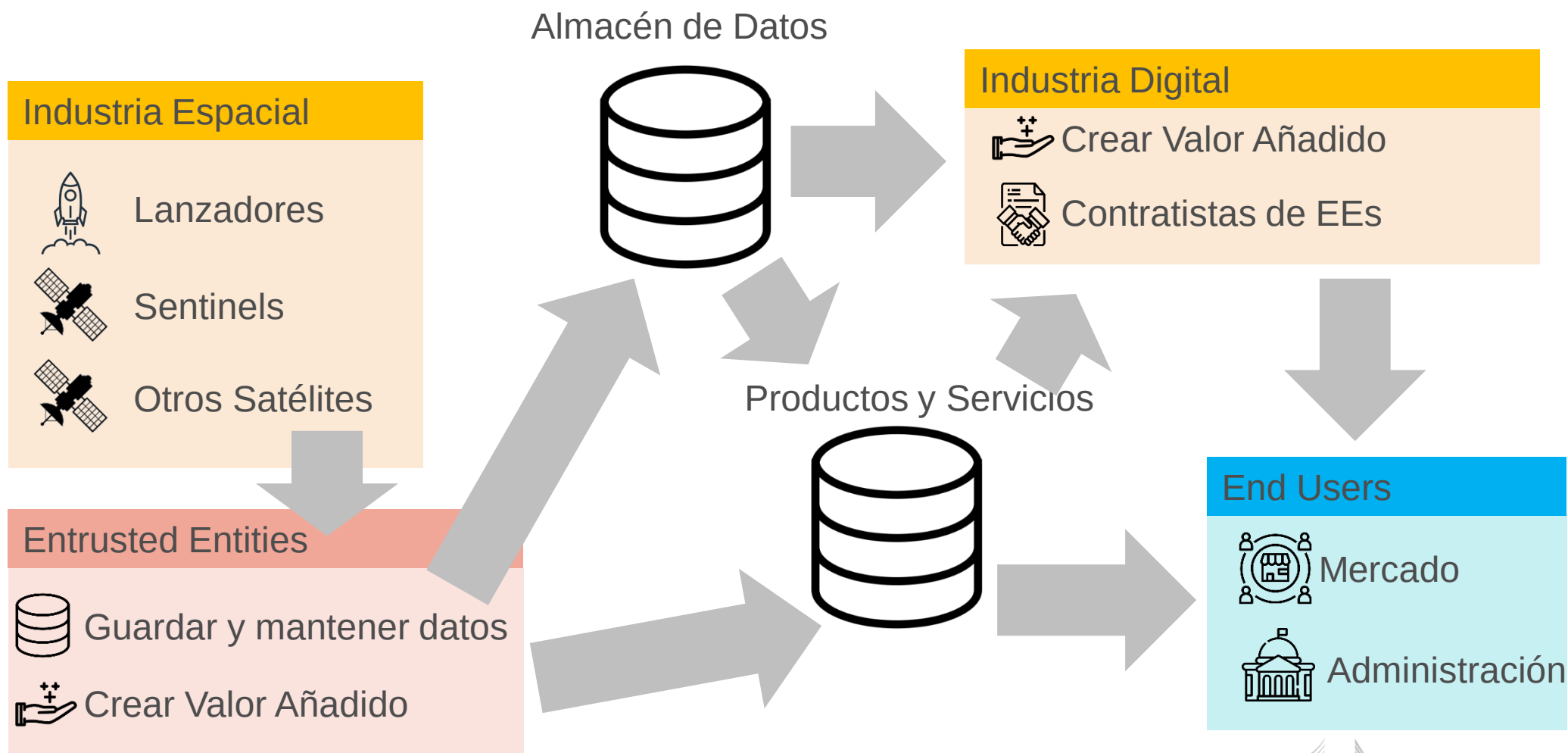


Consumo de datos gratuitos

Descargas en PBs



Modelo de Negocio



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Los 6 servicios temáticos



Atmosphere



Marine



Land



Climate Change



Security



Emergency



Mentimeter

Quiz Time

¿Las delegaciones de la UE son usuarias de qué Servicio?

Los 6 servicios temáticos

Atmósfera



Atmosphere



Marine



Land



Climate Change



Security

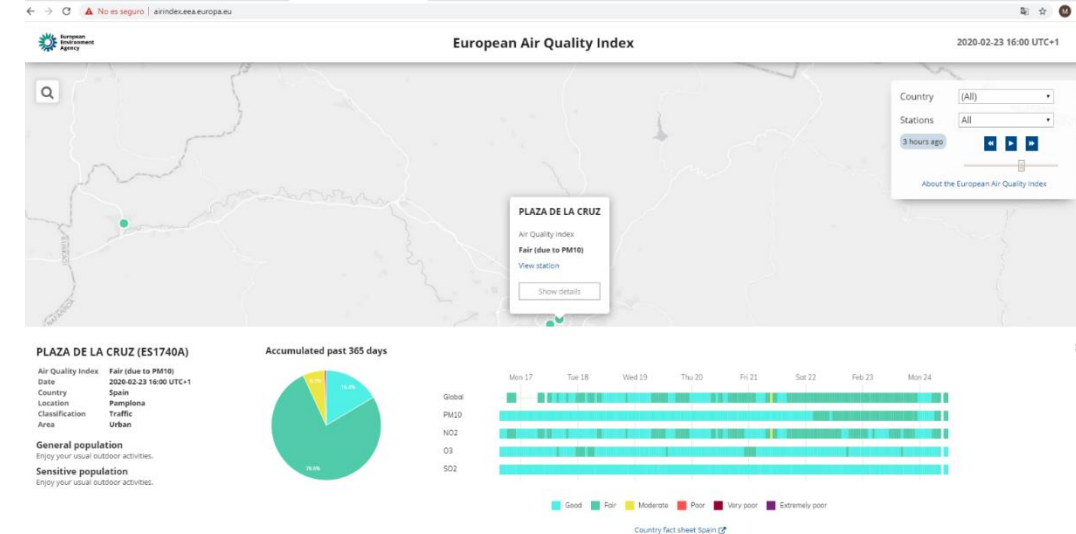


Emergency

Entrusted Entity:



El Servicio de Vigilancia de la Atmósfera de Copernicus (CAMS) proporciona información coherente y de calidad controlada relacionada con la contaminación atmosférica y la salud, la energía solar, los gases de efecto invernadero y el forzamiento climático, en todo el mundo.



Los 6 servicios temáticos

Marino



Atmosphere



Marine



Land



Climate Change



Security



Emergency

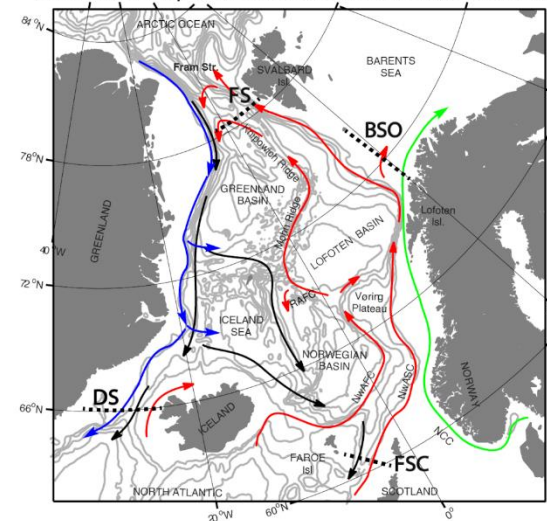
Entrusted Entity:



**MERCATOR
OCEAN**
INTERNATIONAL

El Servicio Marino de Copernicus (o Servicio de Vigilancia del Medio Marino de Copernicus) es el componente marino del Programa Copernicus de la Unión Europea. Proporciona información autorizada gratuita, regular y sistemática sobre el estado del océano Azul (físico), Blanco (hielo marino) y Verde (biogeoquímico), a escala mundial y regional.

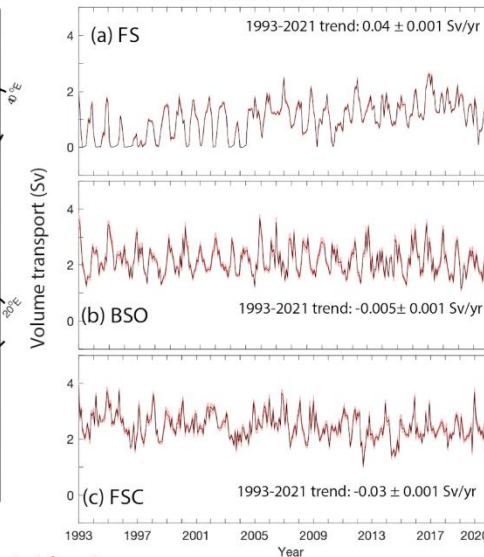
Schematic map of the circulation of the Nordic Seas



Data Type: Ocean Reanalysis
Credit: E.U. Copernicus Marine Service information

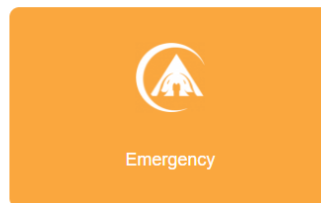
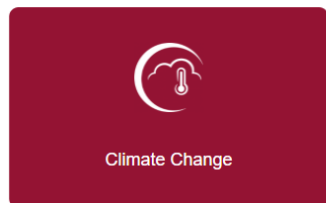
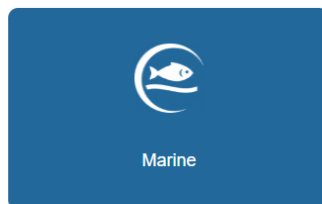
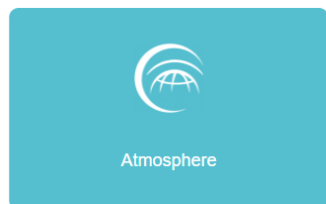


Atlantic Water volume transport through the Nordic Seas



Los 6 servicios temáticos

Tierra

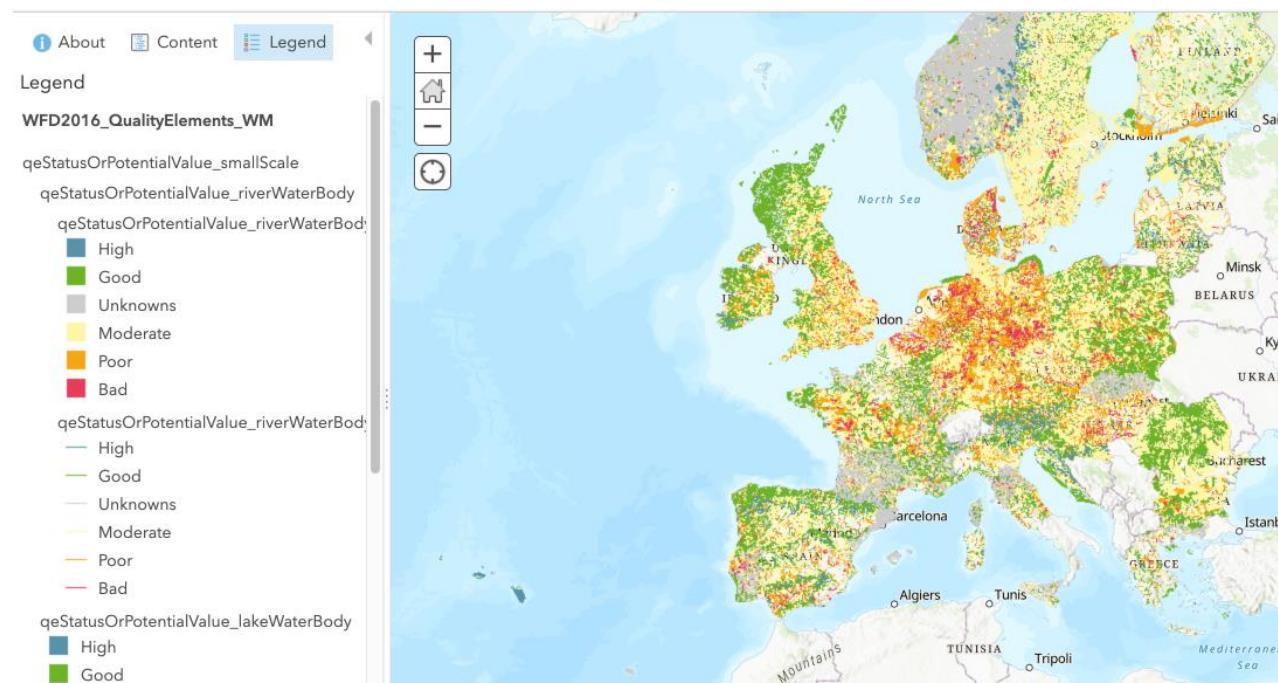


El Servicio de Vigilancia Terrestre de Copernicus (CLMS) proporciona información geográfica sobre la cubierta terrestre a una amplia gama de usuarios en el campo de las aplicaciones terrestres ambientales. Esto incluye el uso de la tierra, las características y cambios de la cubierta terrestre, el estado de la vegetación, el ciclo del agua y las variables de energía de la superficie de la tierra.

Entrusted Entity:

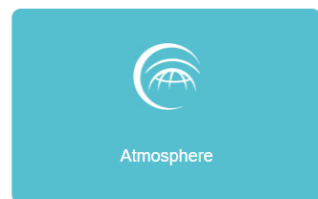


**European
Environment
Agency**

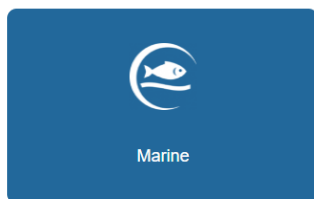


Los 6 servicios temáticos

Cambio Climático



Atmosphere



Marine



Land

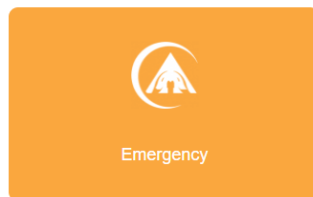
Entrusted Entity:



Climate Change



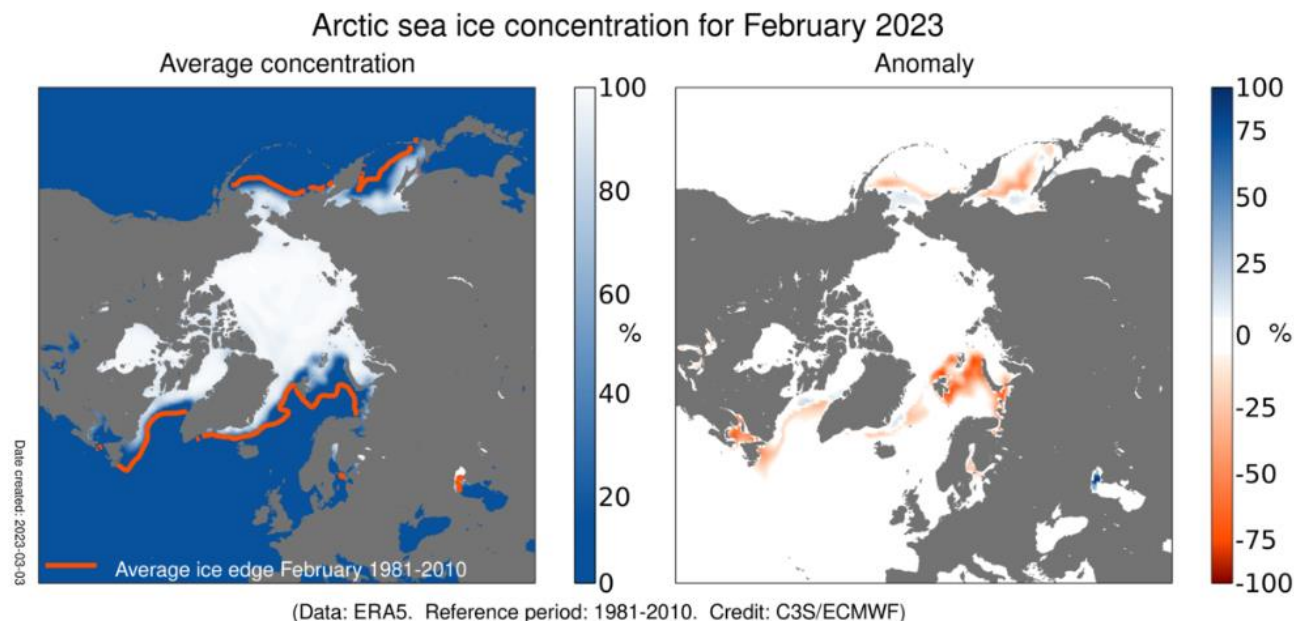
Security



Emergency

La misión de C3S es apoyar las políticas de adaptación y mitigación de la Unión Europea proporcionando información coherente y autorizada sobre el cambio climático. Ofrecemos acceso gratuito y abierto a datos y herramientas climáticas basadas en la mejor ciencia disponible.

Escuchamos a nuestros usuarios y nos esforzamos por ayudarlos a alcanzar sus objetivos para hacer frente a los impactos del cambio climático.



PROGRAMME OF
THE EUROPEAN UNION



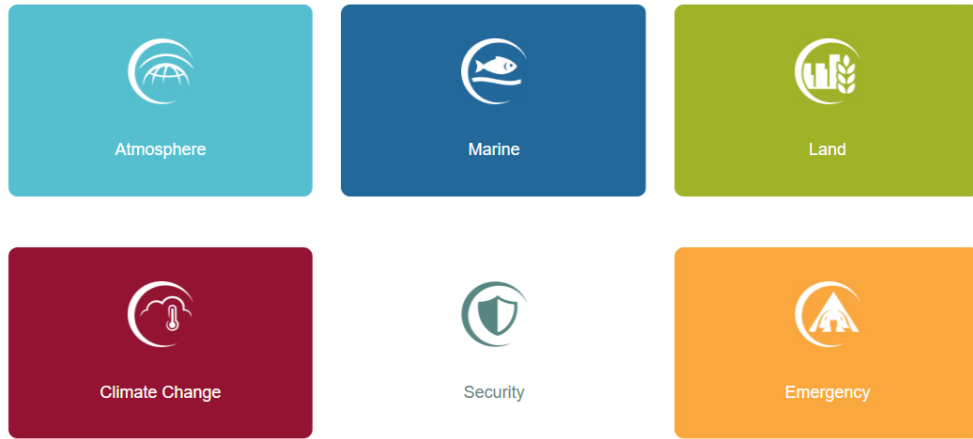
IMPLEMENTED BY
ECMWF



European
Commission

Los 6 servicios temáticos

Seguridad



Entrusted Entity:



El Servicio Copernicus de Apoyo a la Acción Exterior de la UE (SEA) es un servicio europeo de geointeligencia que asiste a la UE y a sus Estados miembros en sus operaciones e intereses fuera del territorio de la UE. Está diseñado para apoyar a la UE mejorando el conocimiento de la situación de las partes interesadas de la Comisión Europea, el Servicio Europeo de Acción Exterior y la Política Común de Seguridad Defensa. La información facilitada contribuye a mejorar las capacidades europeas en materia de prevención, preparación y respuesta ante las crisis. También tiene como objetivo ayudar en situaciones de crisis o crisis emergentes y las apoya para evitar que las amenazas globales y transregionales tengan un efecto desestabilizador.

Support to Evacuation Plan

EU citizens living abroad enjoy the protection of EU Member States and the EU as a whole. Individuals responsible for the protection and security of these citizens need to be able to anticipate crisis situations and create contingency plans to prepare for them. In this context, SEA provides a powerful multi-layered product category supporting the development of evacuation plans in urban areas. Products are built on a base layer comprising an accurate and up-to-date mapping of the road network. Using this base product as a reference, the optimal routes between key origins (such as diplomatic facilities) and destinations (such as airports) are calculated. Furthermore, an analysis of the distances and projected travel times is carried out and presented in a separate information layer. This provides decision-makers with ample data to design their evacuation plans.

Upon request, a live web mapping tool can be made available to users. The tool allows users to introduce modifications to the input data (origins, destination and restricted areas) and design their evacuation plans on demand, adapting them to changing situations in the field.

Imagery used

SAR and/or Optical Imagery

Observation mode

Single-look
Monitoring

Map scale

1:5 000
1:25 000

Products

Digital Geographic
Information - City Map
Mapbook

Information content



Transport

- Basic Transportation Network
- Road Blocks (e.g. checkpoints, destroyed, debris)
- Detailed Transportation Network (classified according to hierarchy, bridges, culverts, tunnels)
- Tools to input rally points and automatically generate evacuation routes and convey routes to the evacuation point



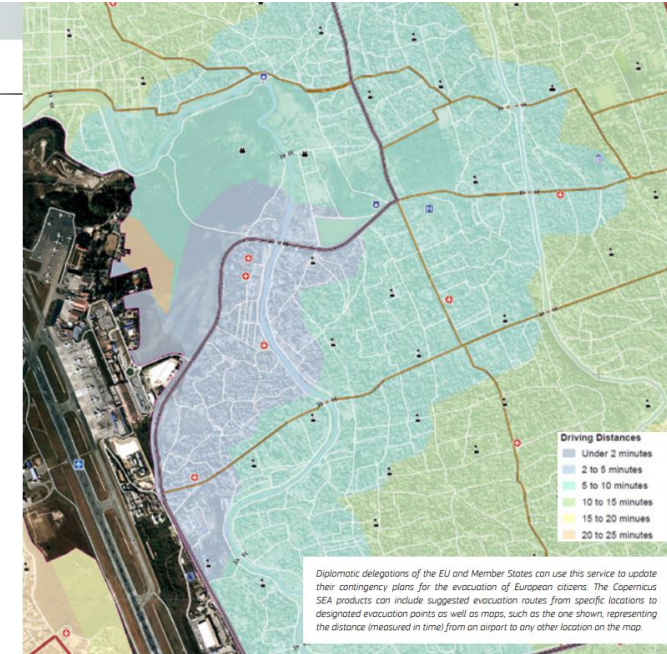
Points of Interest

- Diplomatic buildings
- Medical facilities
- Administrative buildings
- Public services (e.g. police, fire stations, schools)
- Transport-related buildings

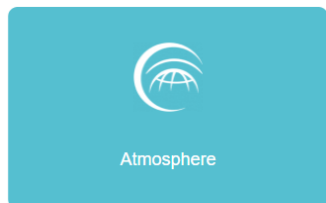


Analysis

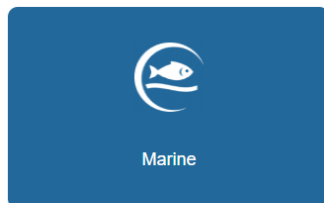
- Evacuation routes
- Potential helicopter landing areas
- Gathering areas
- Driving and walking distances



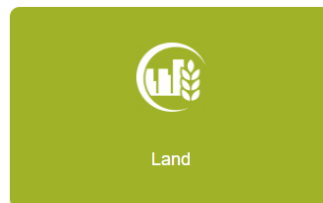
Los 6 servicios temáticos



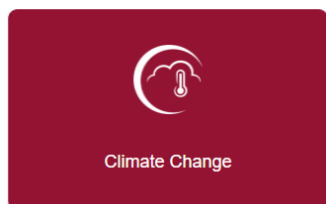
Atmosphere



Marine



Land



Climate Change



Security



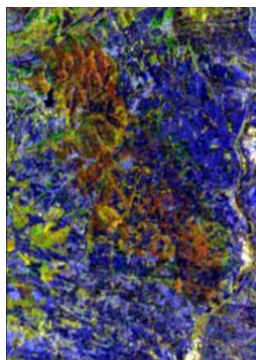
Emergency

Entrusted Entity:



Emergencias

El Servicio de Gestión de Emergencias de Copernicus (Copernicus EMS) proporciona a todos los actores involucrados en la gestión de desastres naturales, situaciones de emergencia provocadas por el hombre y crisis humanitarias información geoespacial oportuna y precisa derivada de la teledetección satelital y completada por fuentes de datos disponibles in situ o abiertas.



MTC img. Sentinel-1,
20/08/2016 – 01/09/2016

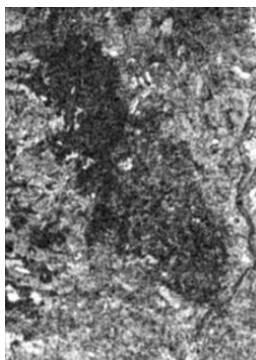


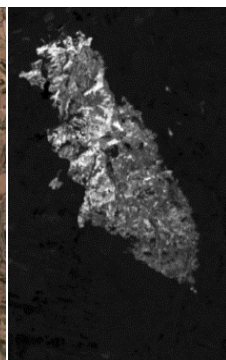
Imagen de coherencia
obtenida a partir de
Sentinel-1, 20/08/2016 –
01/09/2016



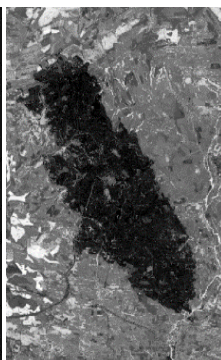
Sentinel-2,
22/08/2016



Sentinel-2,
02/09/2016



dBAI
(Sentinel-2,
22/08/2016 -
02/09/2016)



dNBR
(Sentinel-2,
22/08/2016 -
02/09/2016)

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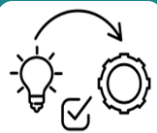
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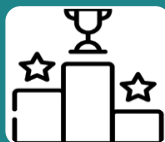
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Políticas de aplicación de
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Concursos y premios para
pymes y universidades



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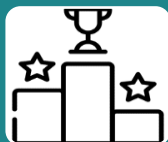
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Ted·tenders electronic daily
Supplement to the Official Journal of the EU

<https://ted.europa.eu/TED/browse/browseByMap.do>

Year	Contracts	Amount
2018	8	10,026,977.21 €
2019	36	149,882,450.00 €
2020	20	56,365,933.20 €
2021	10	40,950,000.00 €
2022	5	451,305,590.00 €

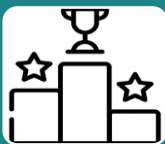
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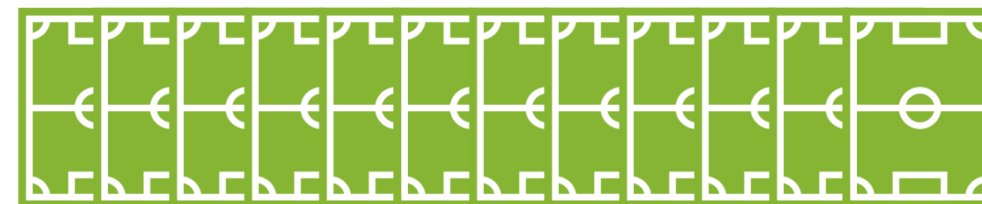


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alimentar el mercado

Petabytes de datos
cada año



Decision maker



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Global Gateway Panama & Chile

- Cooperación de políticas comunes
- Centro de Datos y Servicios
- Conectividad regional
- Cooperación Público Privada e innovación digital



Talleres del Foro de Usuarios

Oportunidades de Programa Copérnicus



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las autoridades públicas



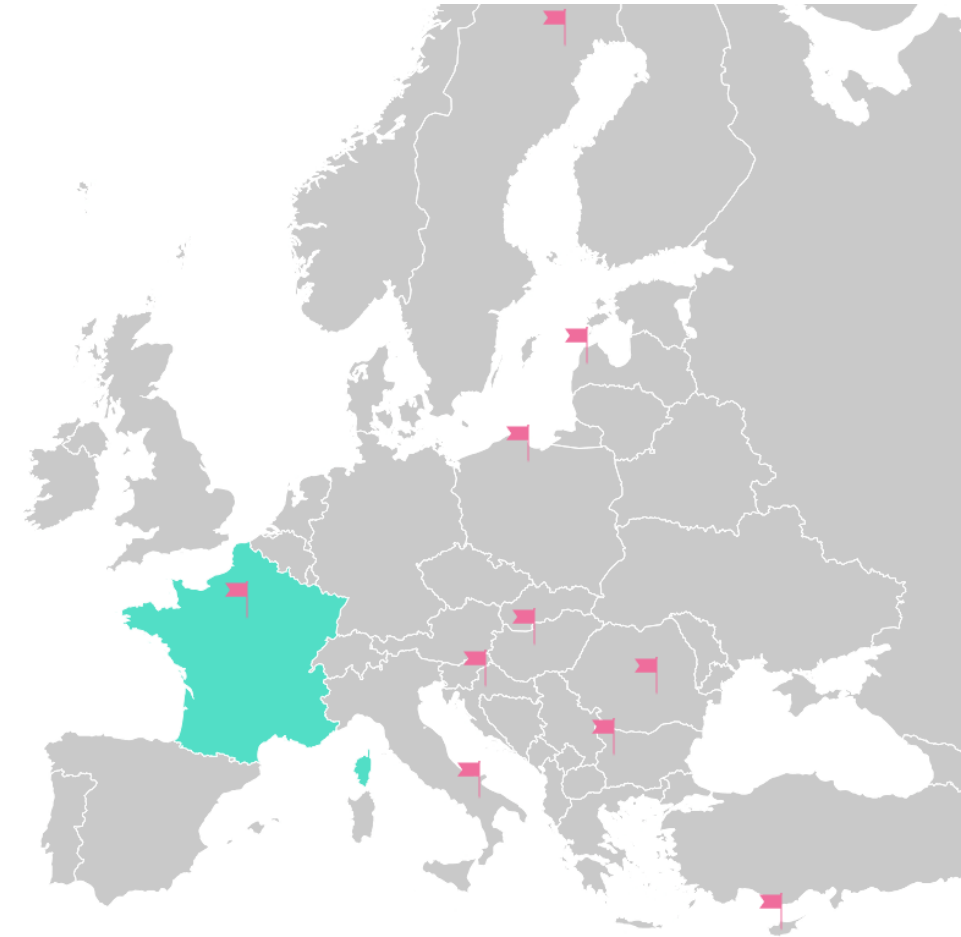
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5th Cassini Hackathon 24-26 March 2022:
Space for Defence & Security

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AI4EO Challenges

A bridge between EO and AI



Φ-lab

AI4EO is dedicated to **organising cutting-edge artificial intelligence-based challenges** in partnership with esteemed partners and sponsors.

Air Quality &
Health

Sentinel 2

Food
Security

HYPERVIEW

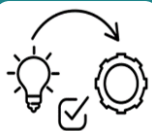
AutoICE

OrbitalAI

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alimentar el mercado



El Copernicus Masters es la competición global de innovación a la vanguardia de la utilización de datos de EO.



ESA Copernicus Frontier Tech
Challenge



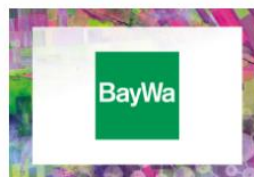
ESA Copernicus SpaceLeap
Challenge



DLR Environment, Energy &
Health Challenge



BMDV Digital Transport &
Mobility Challenge



BayWa Smart Farming
Challenge



Portugal Space Copernicus
Blue Challenge



UP42 Sustainable Urban
Planning Challenge

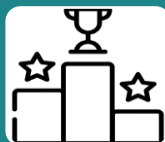
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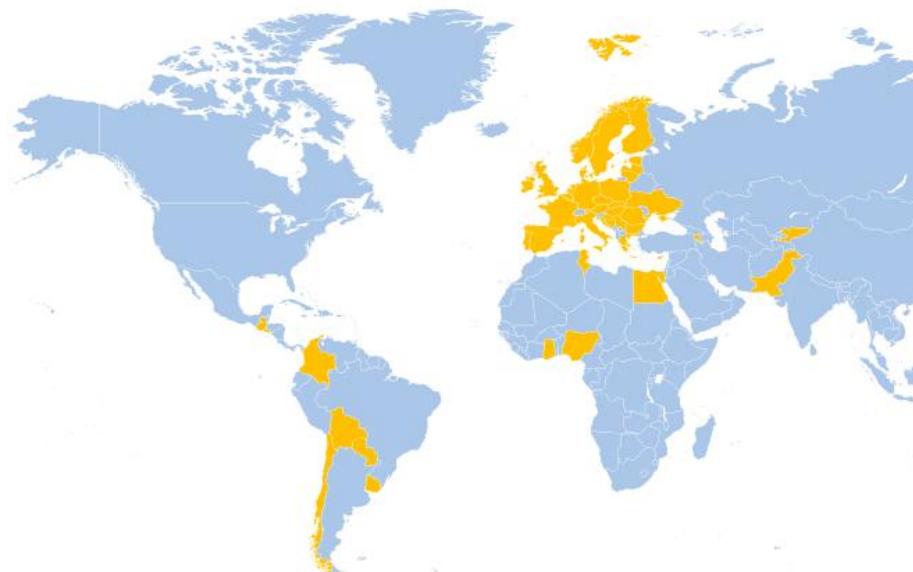
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Cerrar la brecha entre la investigación y las empresas.
Fomentar el desarrollo de cursos interdisciplinarios y organizar
prácticas entre la industria y la universidad.



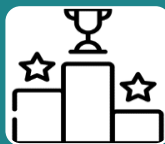
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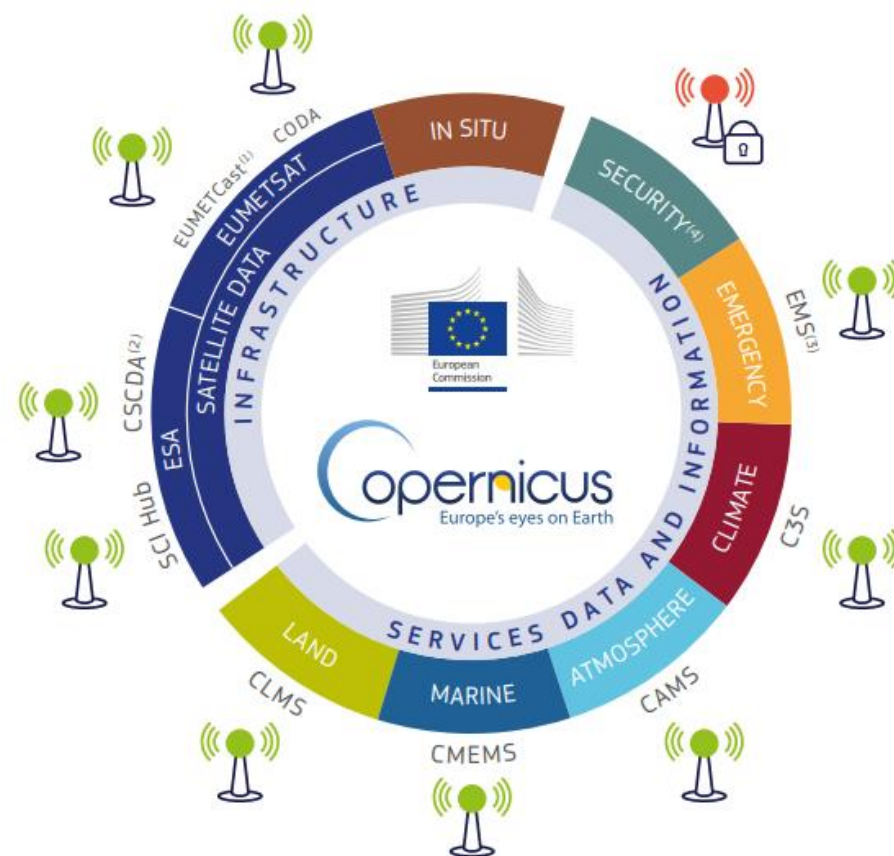
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Preguntas y Respuestas

Pausa

Módulo 2

Casos de uso en región LAC

Casos de uso en región LAC

Aeropuerto Internacional Arturo Merino Benítez. Santiago, Chile



https://apps.sentinel-hub.com/sentinel-playground/?source=S2L2A&lat=-33.390889498464695&lng=-70.79641342163086&zoom=14&preset=1_TRUE_COLOR&layers=B01,B02,B03&maxcc=89.91&gain=1.0&gamma=1.0&time=2022-07-01%7C2023-01-28&atmFilter=&showDates=false

Casos de uso en región LAC

<https://emergency.copernicus.eu/mapping/list-of-components/EMSR479>

Inundaciones. Villahermosa, Mexico. 2020-11-13



<https://apps.sentinel-hub.com/sentinel-playground/?source=S1-AWS-IW-VVHH&lat=17.953994541940737&lng=-92.90691375732422&zoom=13&preset=ENHANCED-VISUALIZATION-ORTHORECTIFIED&layers=VV,VH,HH&maxcc=99.95166666666667&gain=1.0&gamma=1.0&time=2020-04-01%7C2020-10-30&atmFilter=&showDates=false>

Casos de uso en región LAC

<https://emergency.copernicus.eu/mapping/list-of-components/EMSR647>

Incendio Forestal. Talcahuano, Chile. 2023-02-07

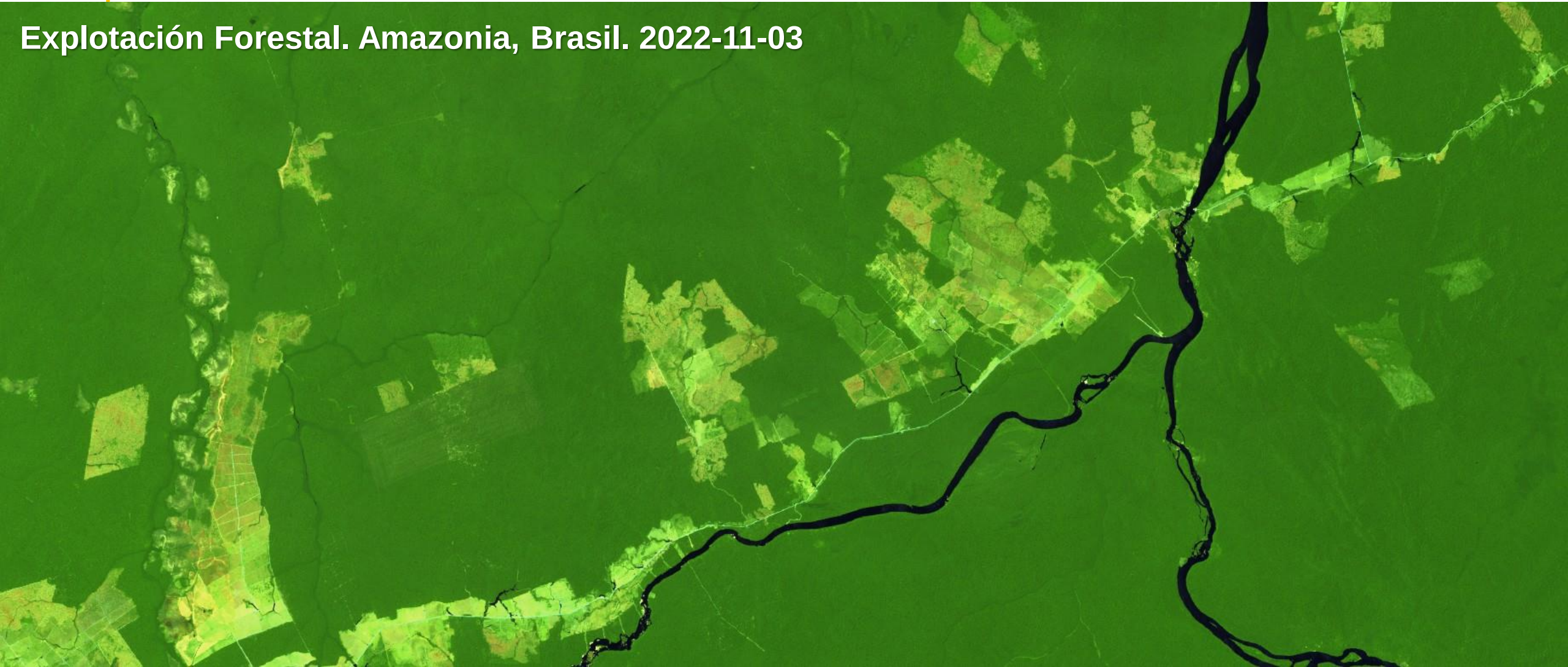


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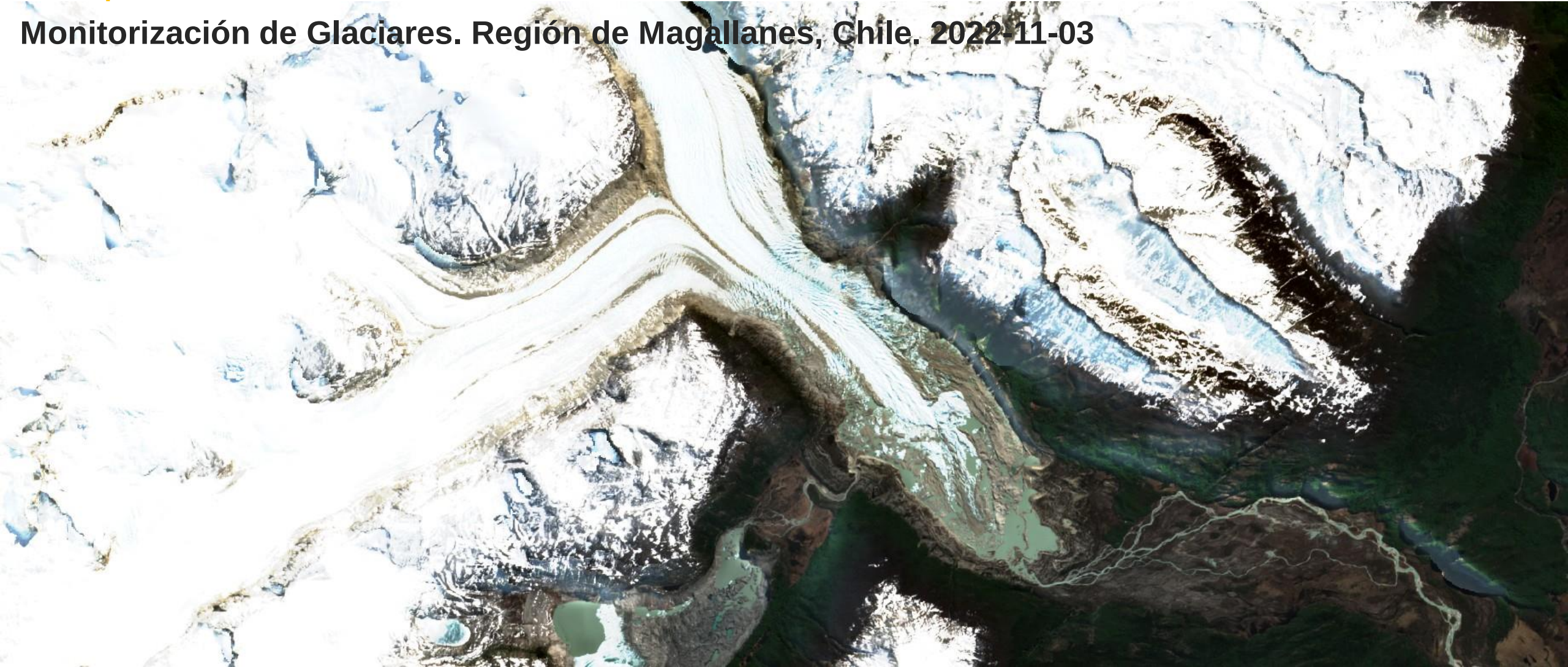
Explotación Forestal. Amazonia, Brasil. 2022-11-03



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Casos de uso en región LAC

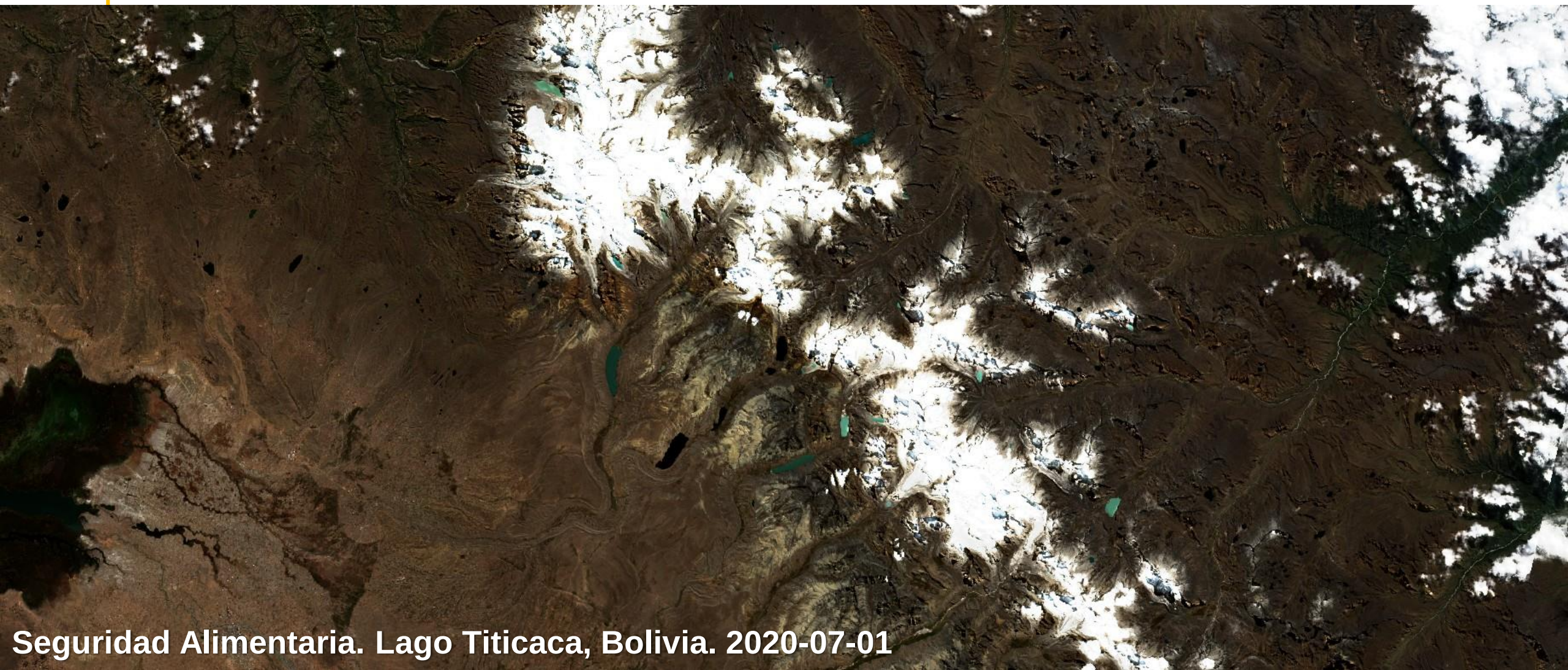
Monitorización de Glaciares. Región de Magallanes, Chile. 2022-11-03



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Casos de uso en región LAC

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Seguridad Alimentaria. Lago Titicaca, Bolivia. 2020-07-01

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Casos de uso en región LAC

Cultivos Ilegales. Yungas de La Paz, Bolivia. 2020-07-01



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Casos de uso en región LAC

Monitorización de Infraestructura. Refinería Cardón, Venezuela. 2022-11-21

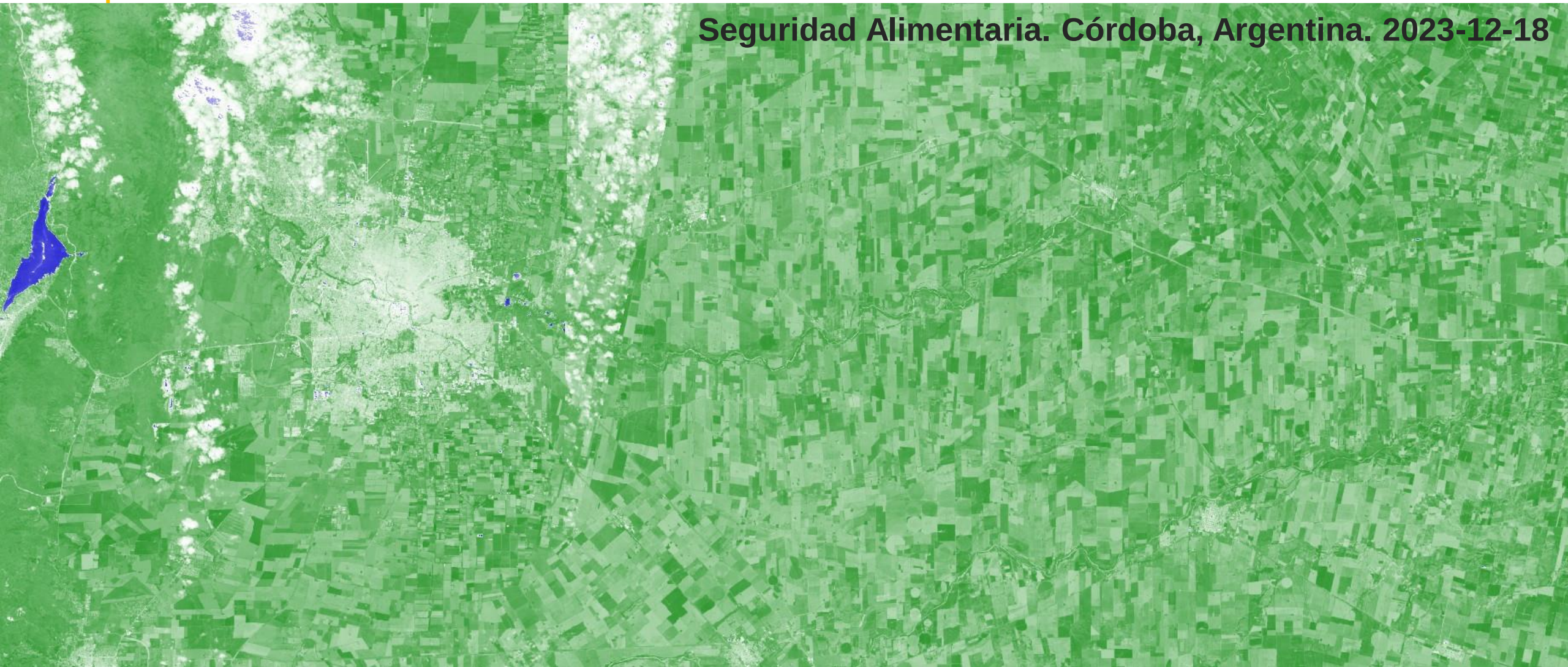


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Seguridad Alimentaria. Córdoba, Argentina. 2023-12-18



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Casos de uso en región LAC

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Análisis de Infraestructura. Canal de Panamá. 2022-12-30

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Casos de uso en región LAC



Medioambiente Marino. Barbados. 2023-04-13

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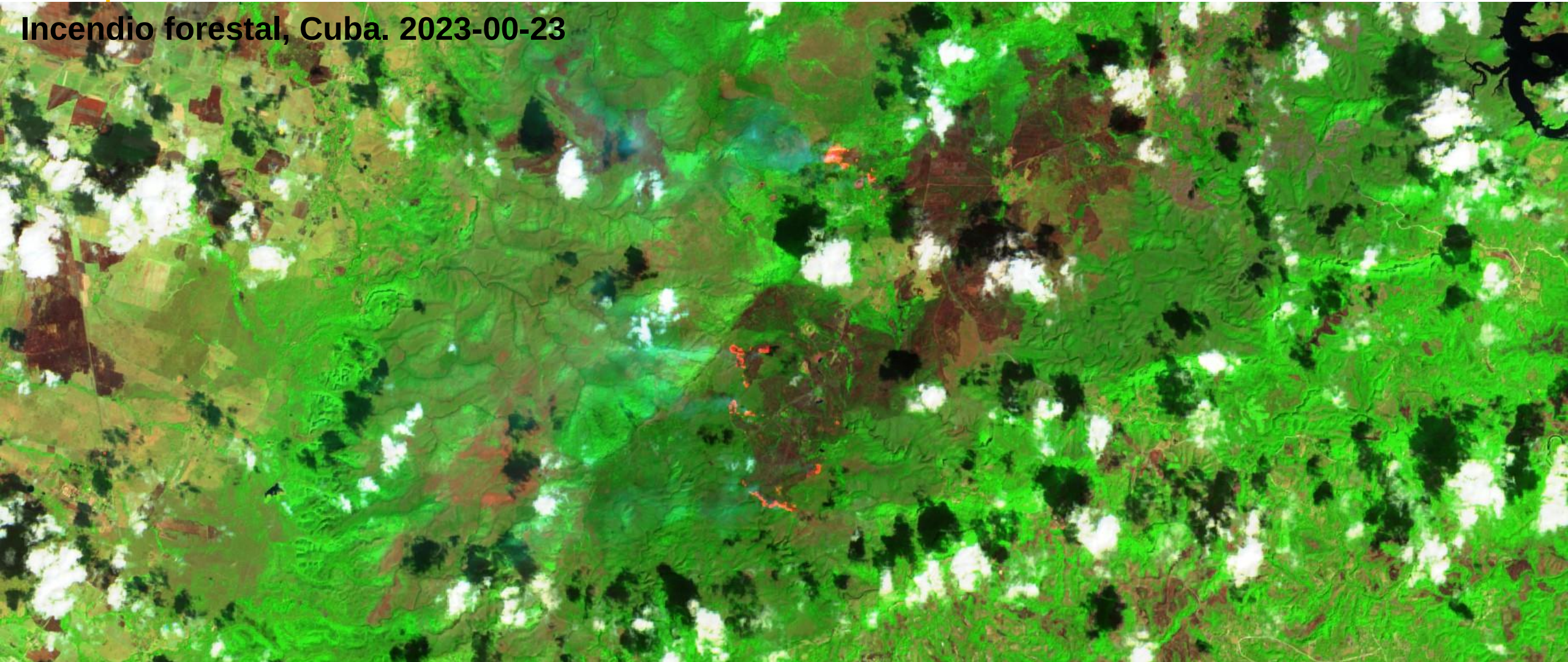
Inundaciones. Sao Paulo, Brasil. 2023-01-26



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Incendio forestal, Cuba. 2023-00-23



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Casos de uso en región LAC

Infraestructura Crítica. Minas de Chuquicamata. Chile.



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Mentimeter

Quiz Time

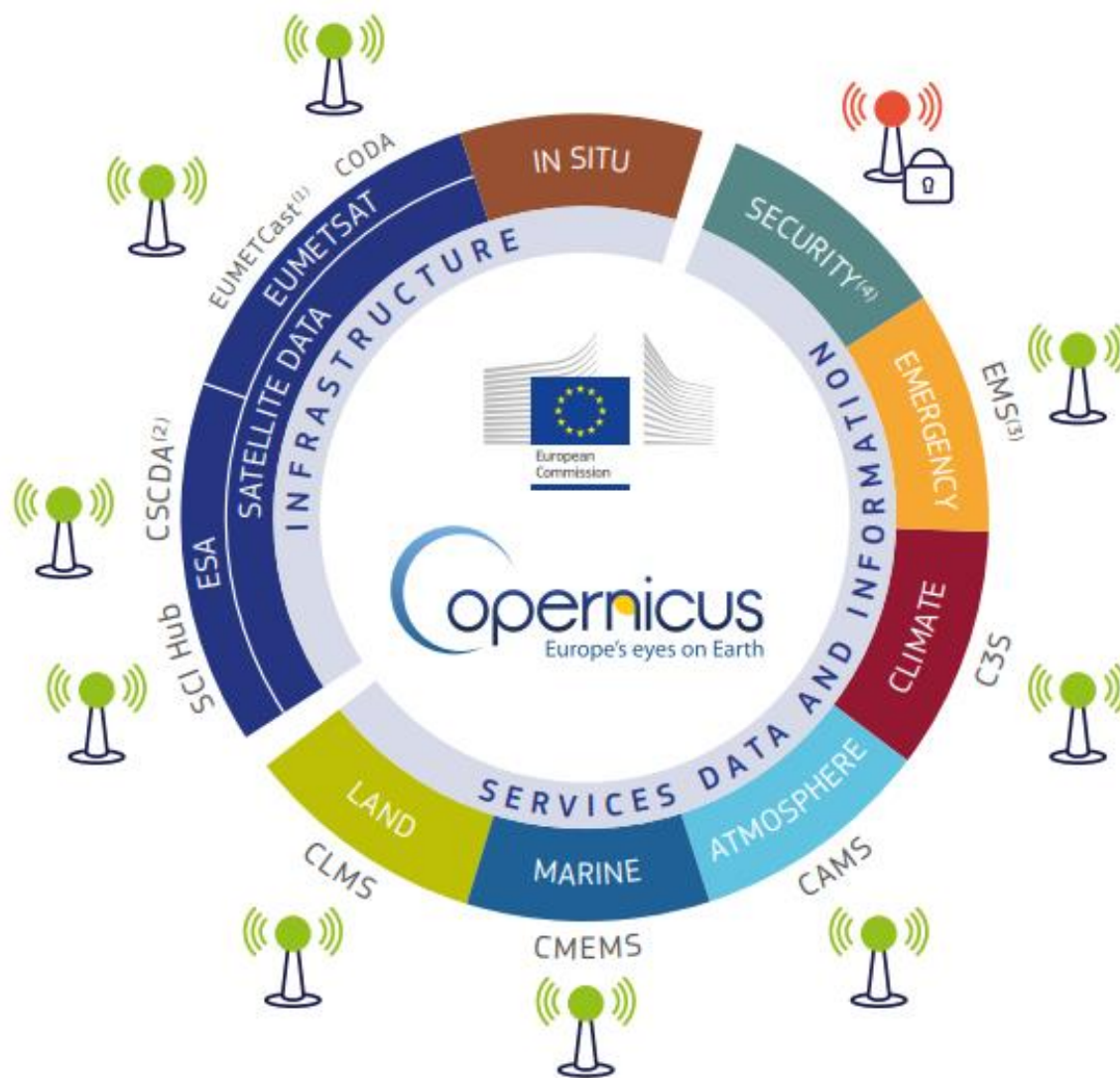
¿Qué característica hace que los satélites sean una fuente valiosa de información?

Preguntas y Respuestas

Módulo 3

Acceso a los datos

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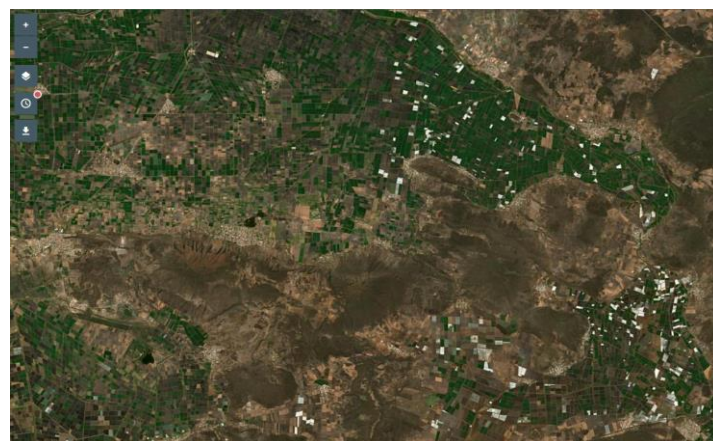
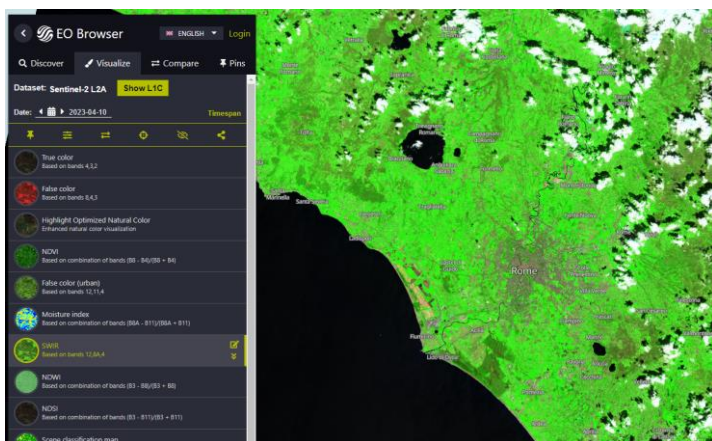
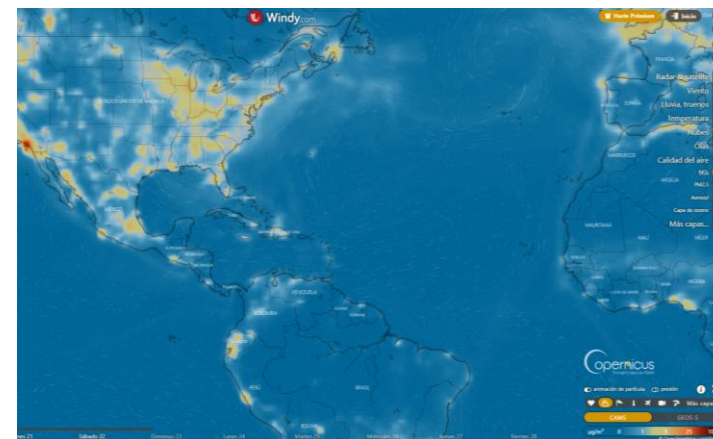
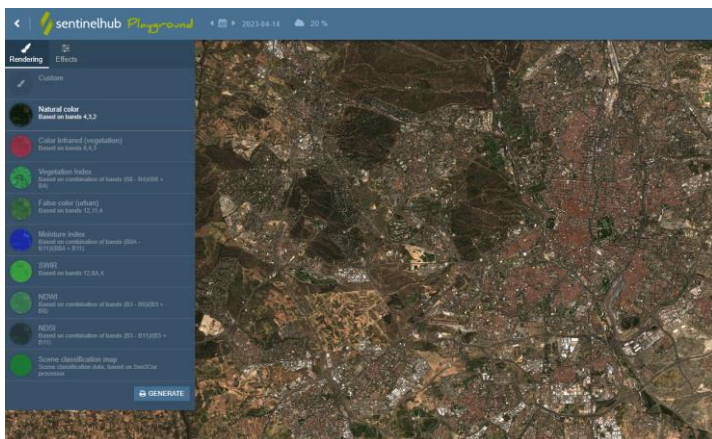
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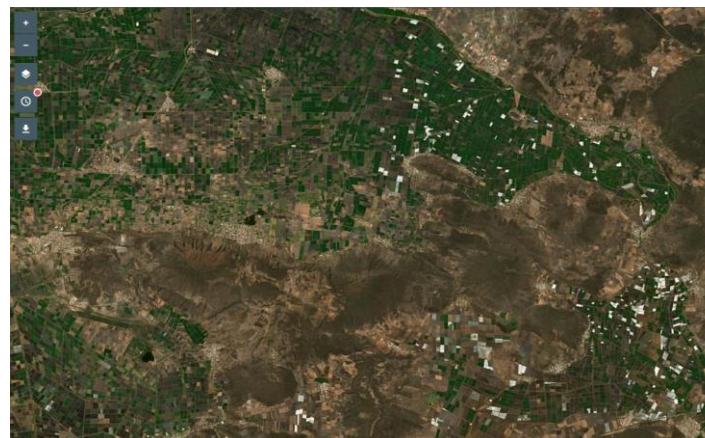
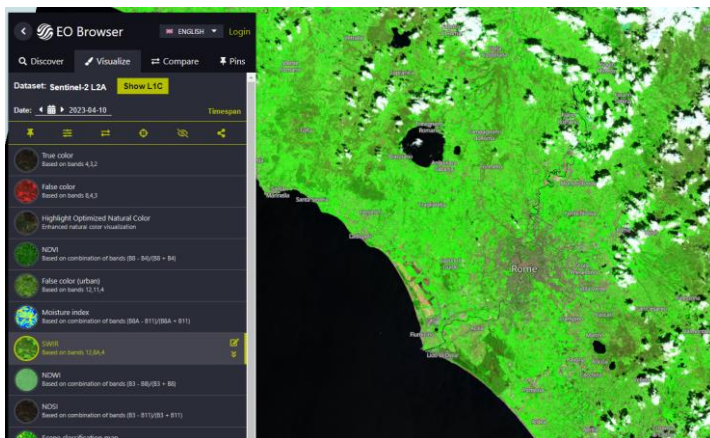
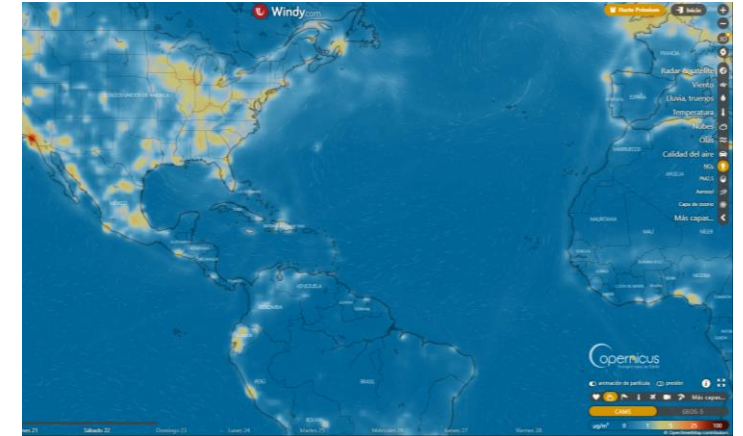
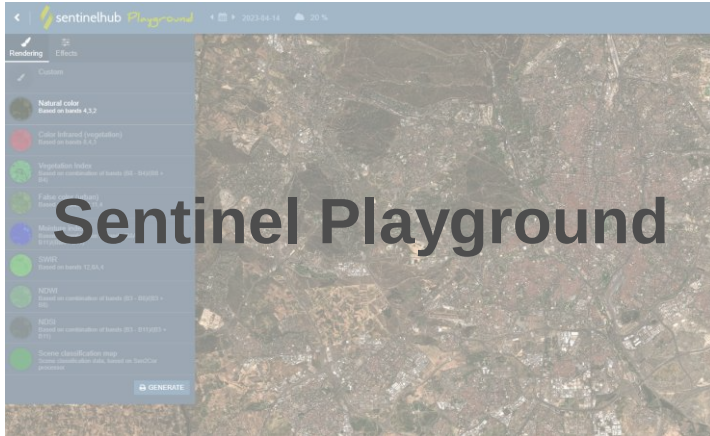
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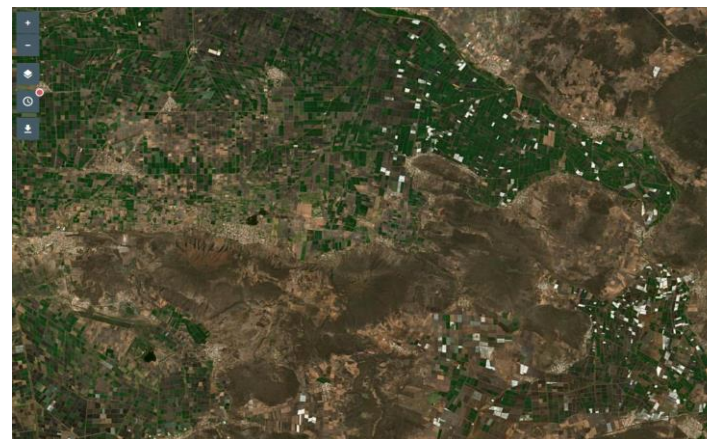
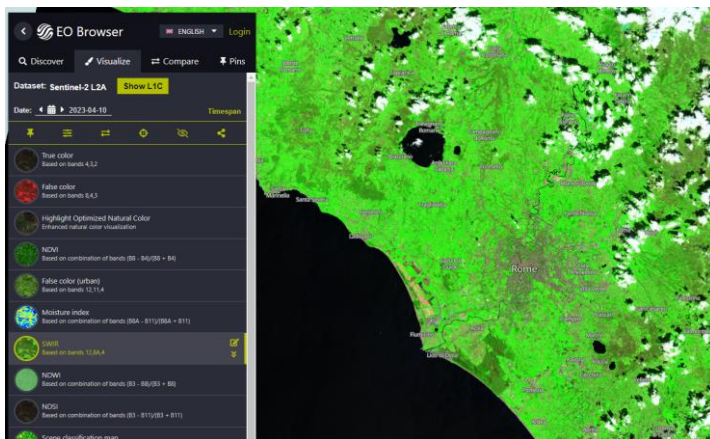
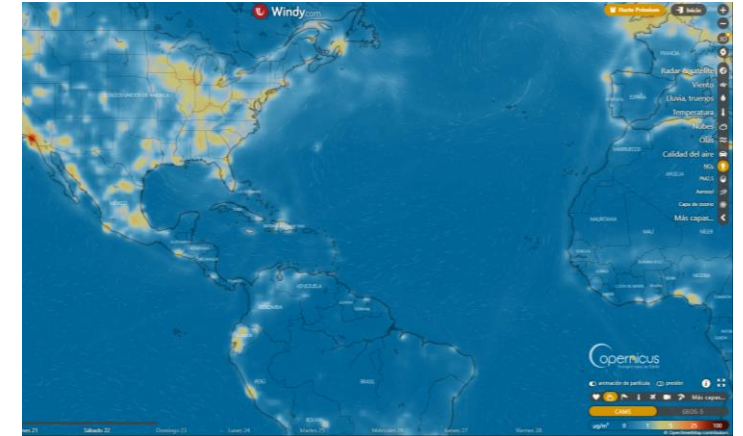
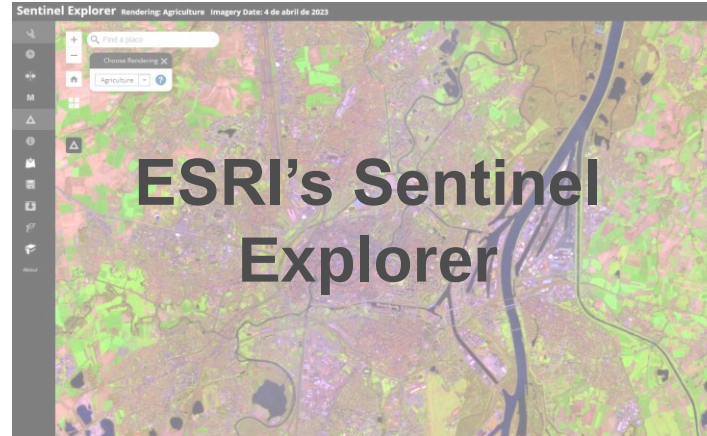
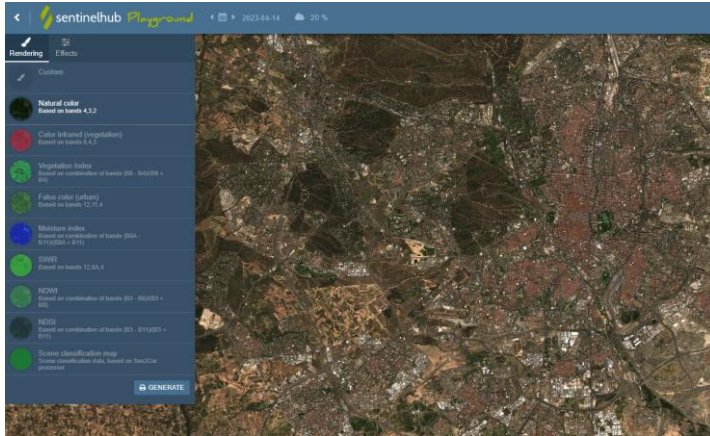


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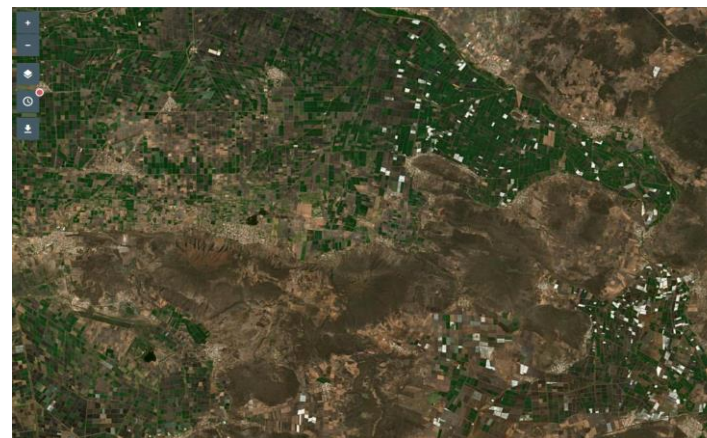
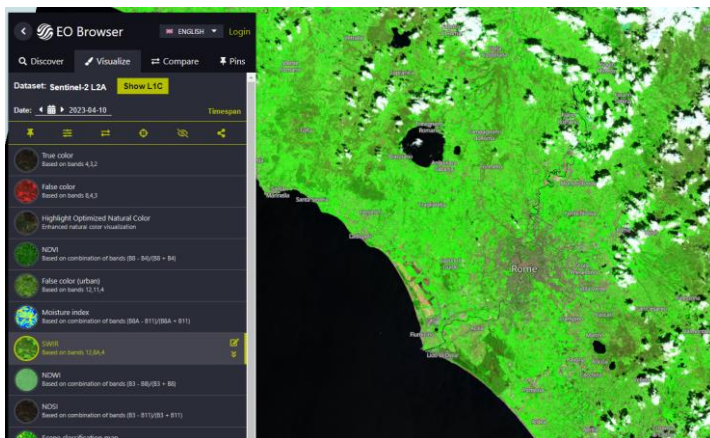
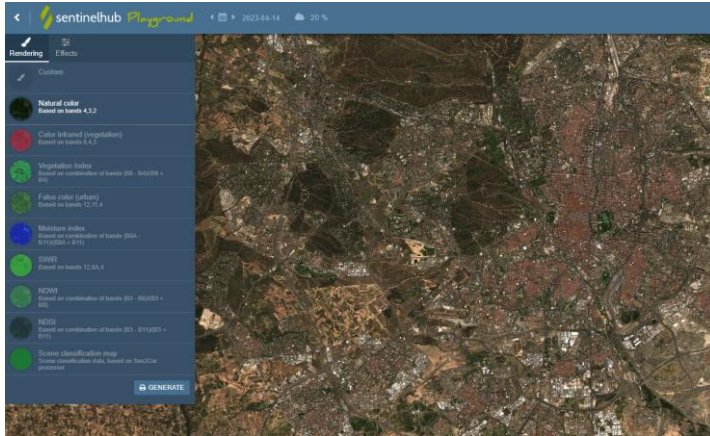
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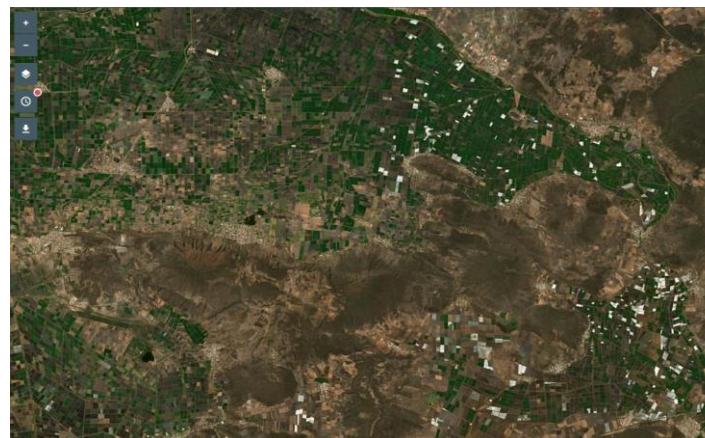
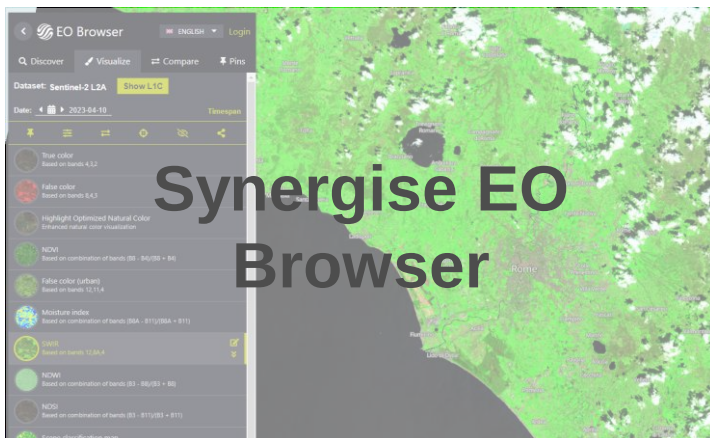
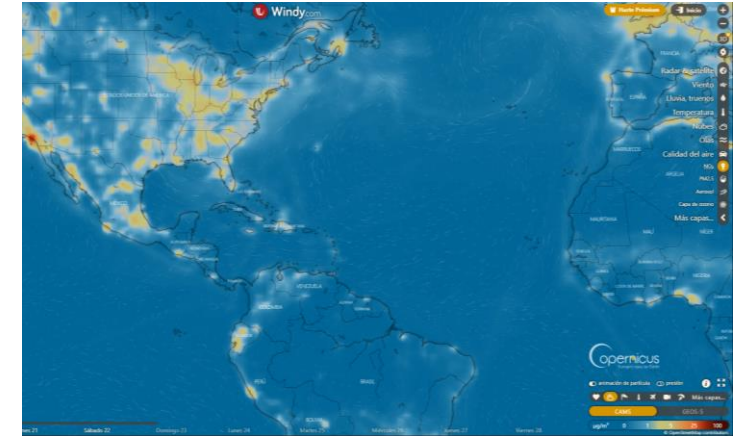
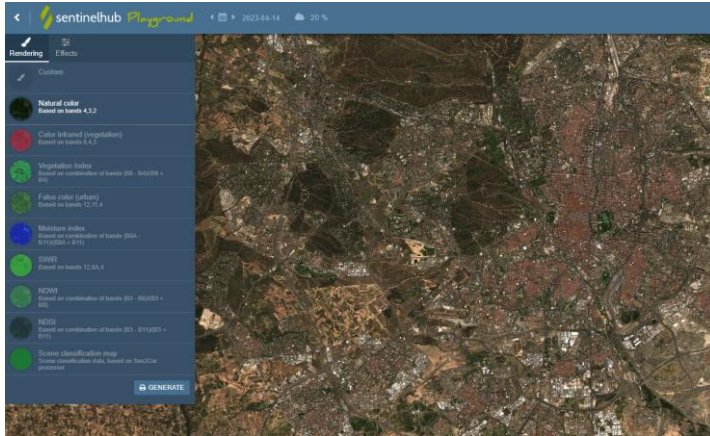


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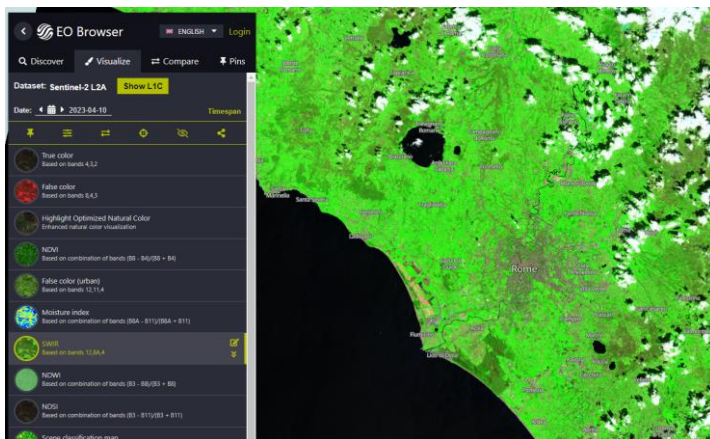
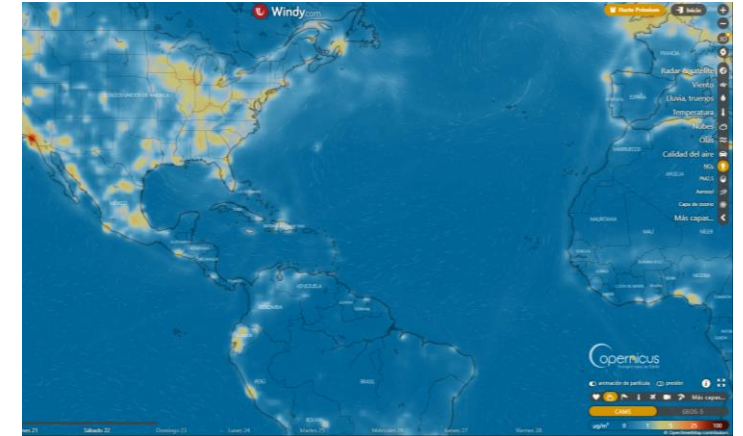
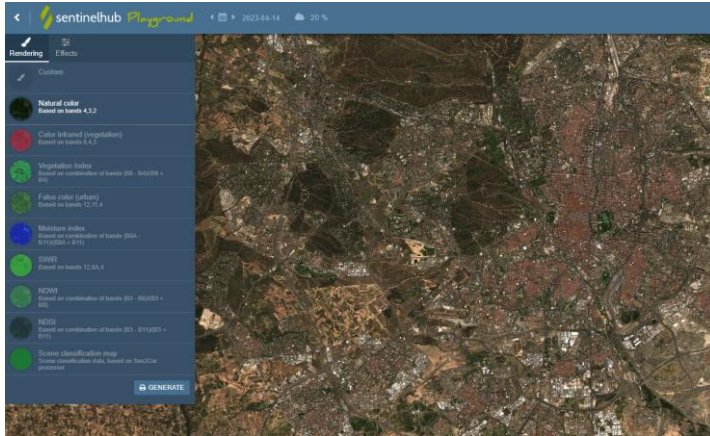


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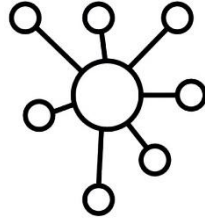
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- Browse products
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Copernicus DIAS

- User Friendly
- Cloud Based Platform
- Access to other vendors
- Marketplace of Services



Other Providers

- Amazon Web Services
- Azure
- Google Earth Engine

ESA SciHub/International Hub

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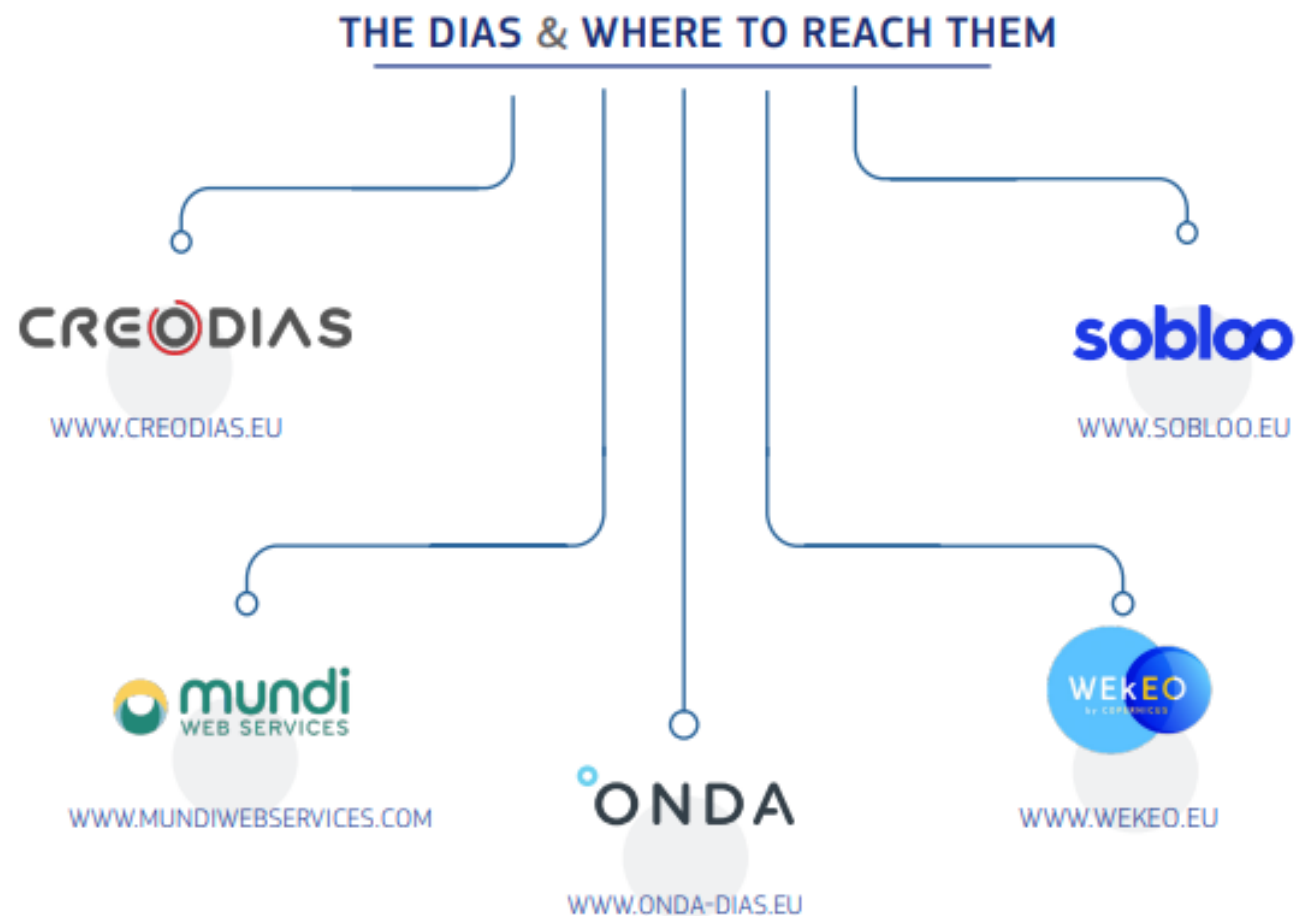
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European Commission

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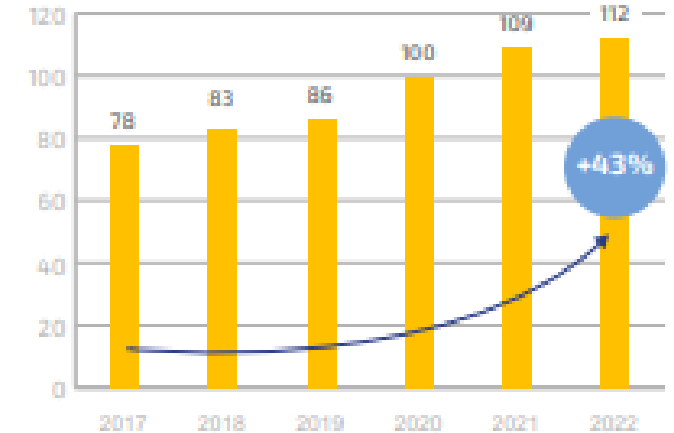
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✉ support@copernicus.eu



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Status of networks:
as of January 2023,
there are **115**
Relays.



List of Copernicus Relay members in EU and non-EU Countries

Country	Organisation	Main Contact		E-Mail
		First Name	Last Name	
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Argentina	Space Latam	José	Medina Bosleman	jose@spacelatam.com
	SUR Emprendimientos Tecnológicos SRL (SpaceSUR)	Melina	Pagura	melinapagura@spacesur.com
Austria	FFG – Austrian Research Promotion Agency	Thomas	Geist	thomas.geist@ffg.at
	SKYWIN [Coordinator of Copernicus Relay Wallonia]	Michel	Stassart	michel.stassart@skywin.be
	ISEEP [Member of Copernicus Relay Wallonia]			

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Marine

<https://marine.copernicus.eu/contact>



Land

<https://land.copernicus.eu/contact>



Climate Change

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Security

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Atmosphere



Marine



Land

Uno para todos



Climate Change



Security



Emergency

A demanda



Mentimeter

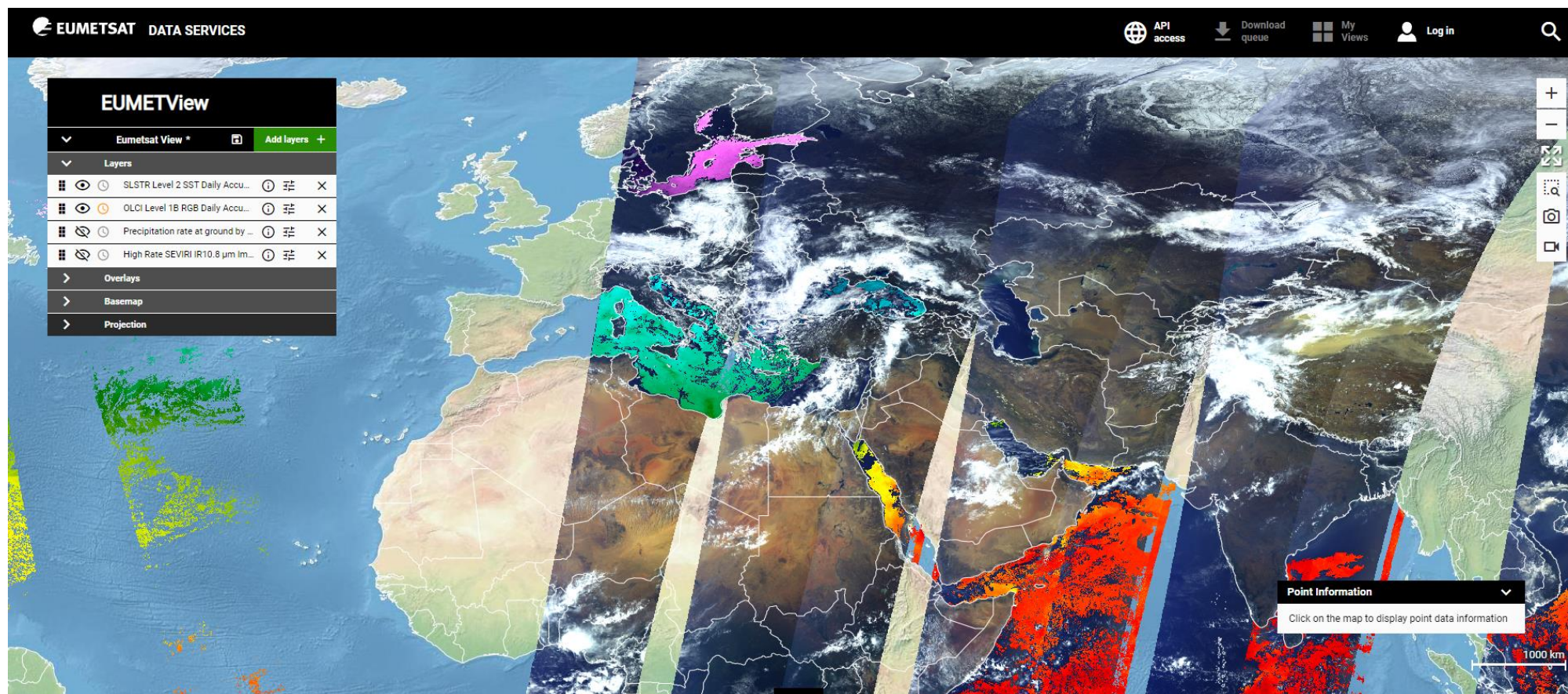
Quiz Time

¿Qué servicio creen que puede aportar más para los objetivos de las delegaciones UE en la región LAC?

Servicios



Atmosphere

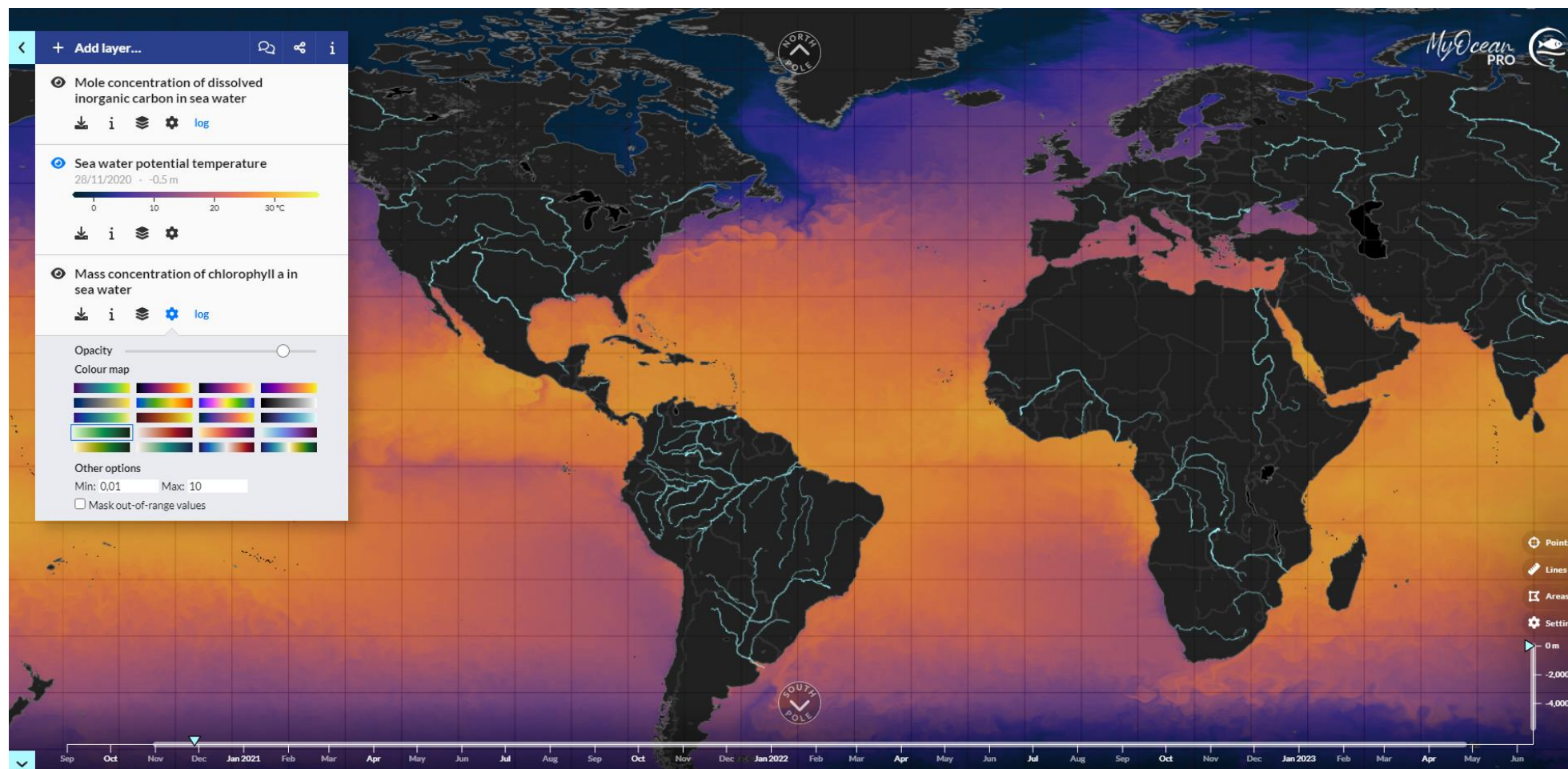


<https://view.eumetsat.int/productviewer?v=default>

Servicios



Marine



<https://data.marine.copernicus.eu/viewer/expert?view=viewer&crs=epsg:4326&t=1681732800000&z=0¢er=0,0&zoom=9.871906840654567&layers=W3siaWQiOiJjMilsImxheWVySWQiOiJHTE9CQUxfQU5BTfITSVNGT1JFQ0FTVF9QSFIfMDAxXzAyNC9jbWVtc19tb2RfZ2xvX3BoeS1jdXJfYW5mY18wLjA4M2RlZ19QMUQtbS9zZWFFd2F0ZXJfdmVsb2NpdHkiLCJ6SW5kZXgiOiJAsImxvZ1NjYWxlljpmYWxzZX1d>



European
Commission

Servicios



Land

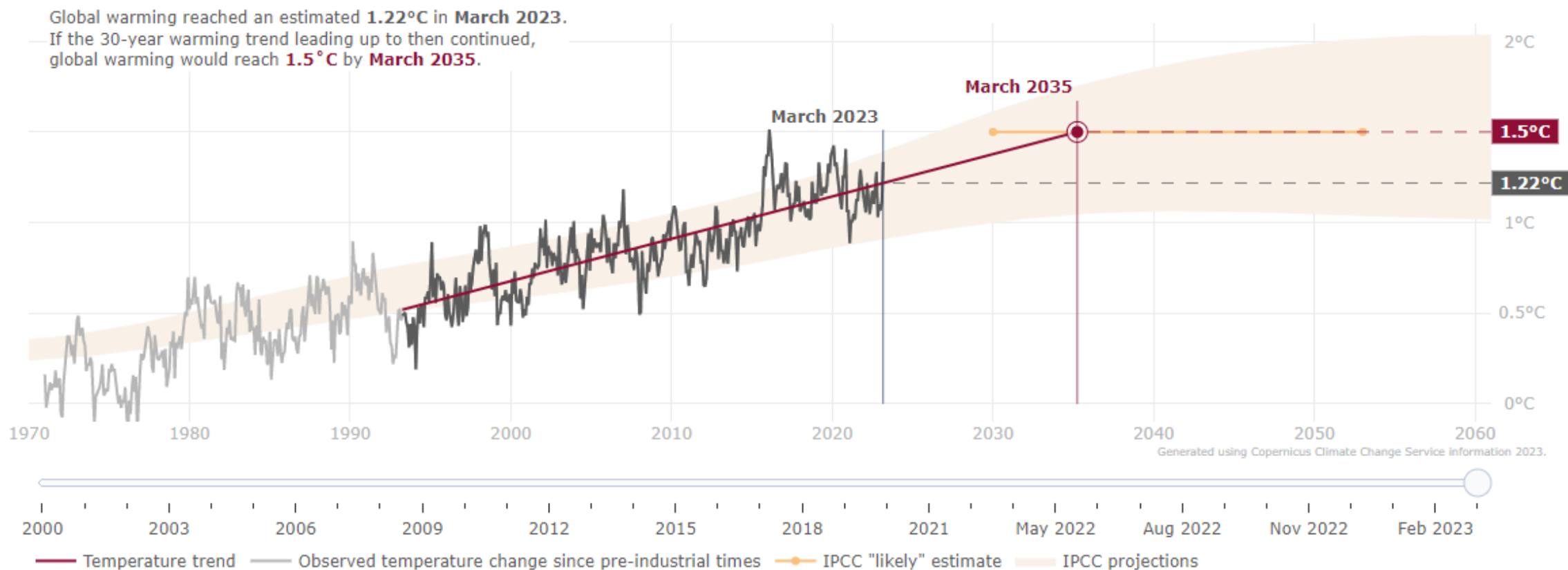


<https://lcviewer.vito.be/2019>

Servicios



Climate Change



<https://cds.climate.copernicus.eu/apps/c3s/app-c3s-global-temperature-trend-monitor?month:float=3&year:float=2023>

Servicios



Emergency



Mapping



Flood



Wildfires



Drought

Servicios



Emergency



Mapping



Flood



Wildfires

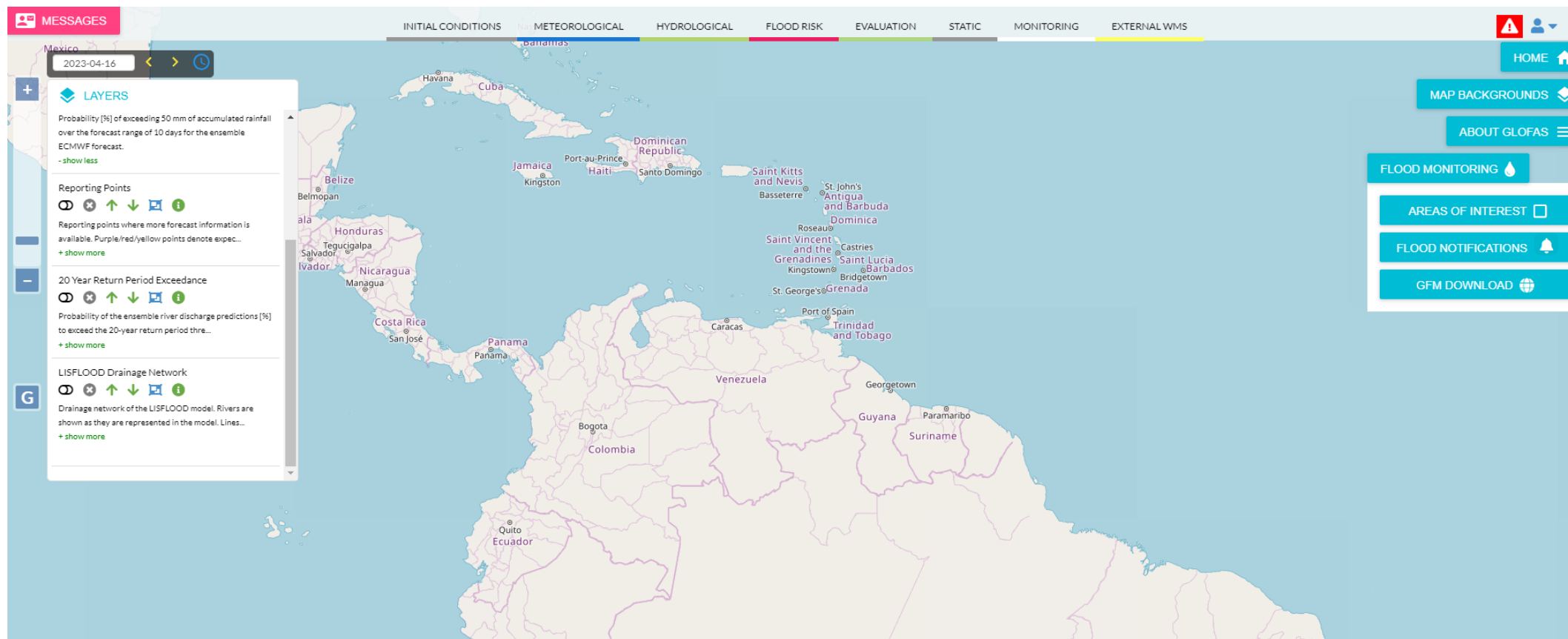


Drought

Servicios



Emergency



<https://www.globalfloods.eu/glofas-forecasting/>

Servicios



Emergency



Mapping



Flood



Wildfires

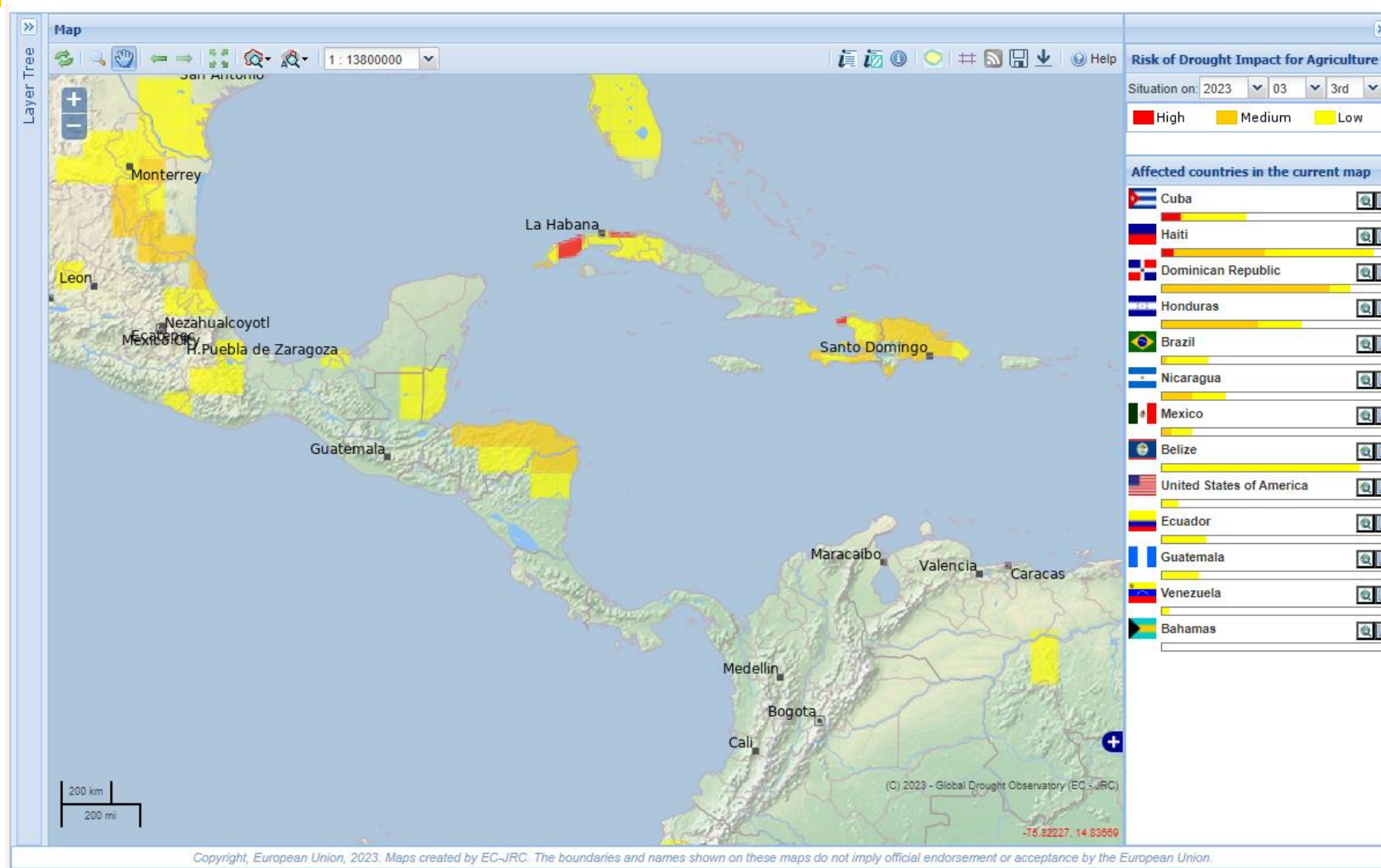


Drought

Servicios



Emergency



<https://edo.jrc.ec.europa.eu/gdo/php/index.php?id=2001>

Servicios



Emergency



Mapping



Flood



Wildfires



Drought

Title

Activation Status

Apply

Reset

Event Type

Event Date (UTC)

Start date

E.g., 2023-04-16

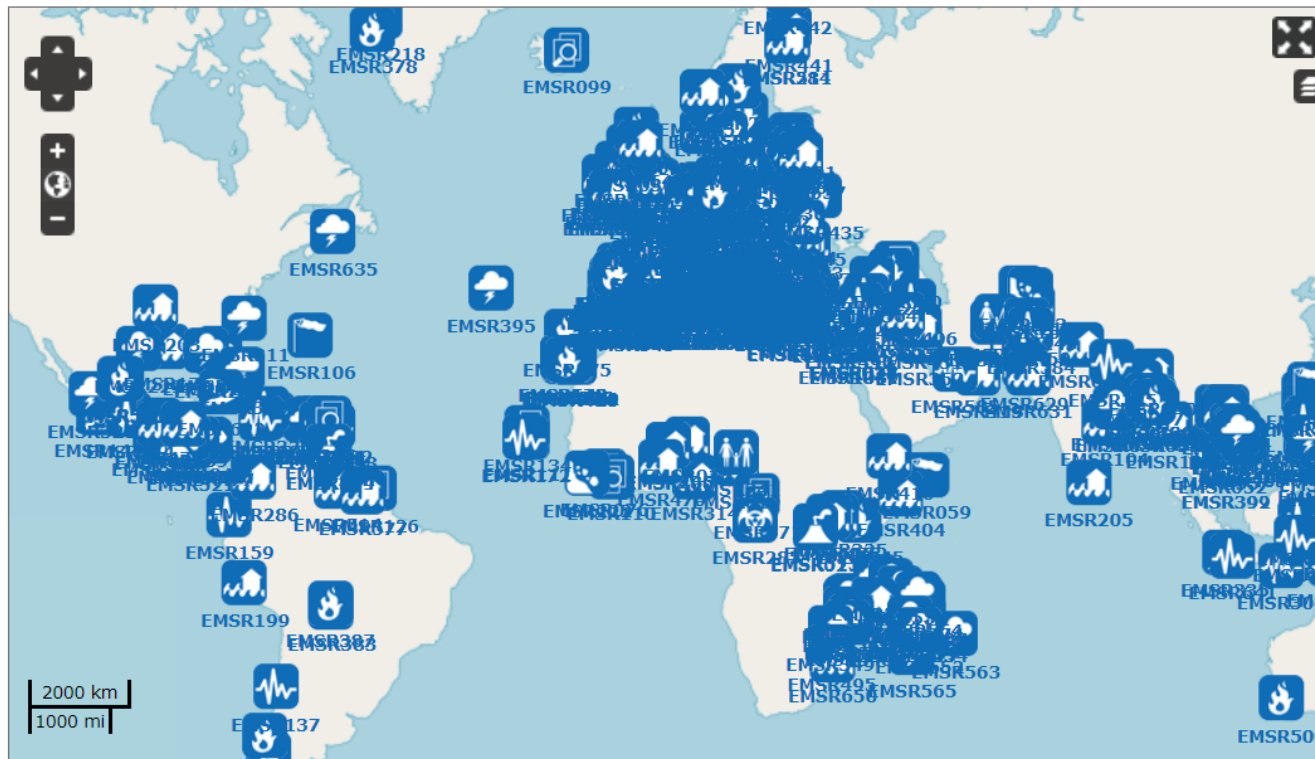
End date

E.g., 2023-04-16

Affected Countries

Select multiple countries with Ctrl/Cmd

<https://emergency.copernicus.eu/mapping/map-of-activations-rapid#zoom=2&lat=24.0421&lon=1.92545&layers=BT00>



Servicios



Security

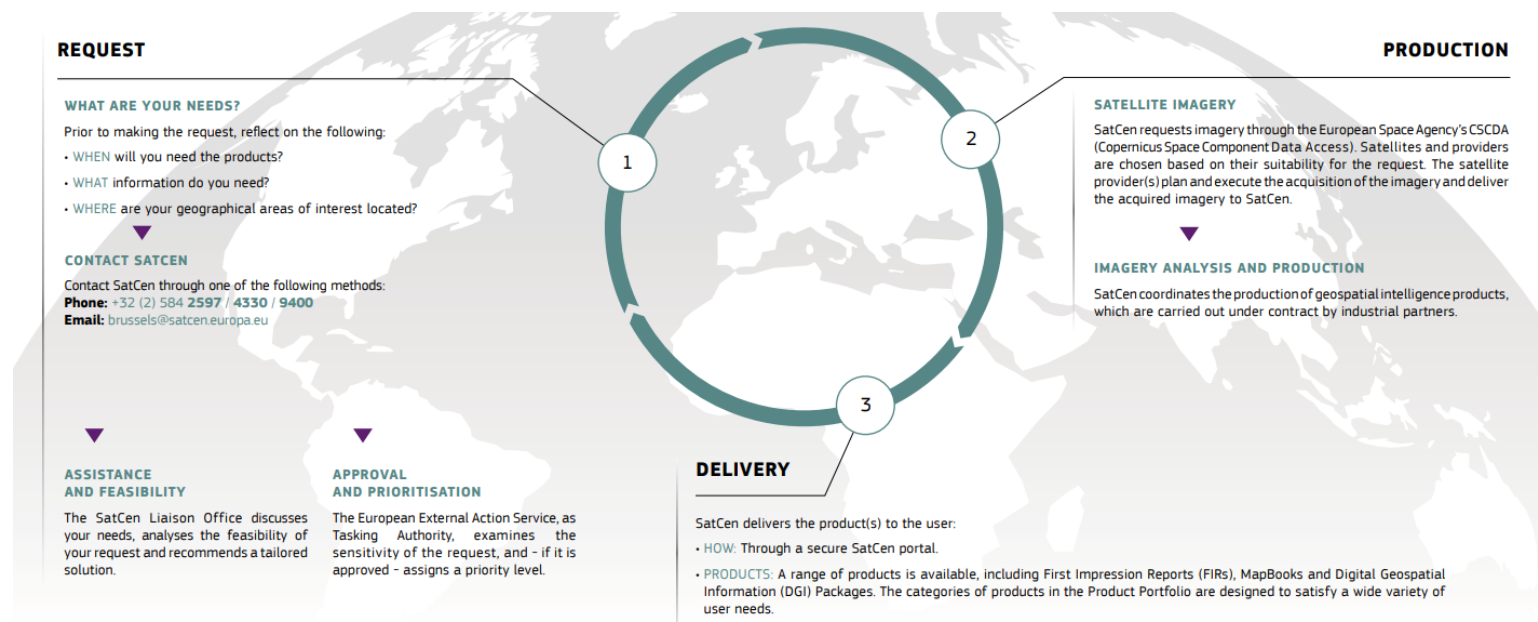


Servicios



Security

https://sea.security.copernicus.eu/wp-content/uploads/2018/11/CopernicusSEA_User_Start_Guide_web.pdf



Servicios



Security

https://sea.security.copernicus.eu/wp-content/uploads/2018/11/CopernicusSEA_Product_Portfolio_web.pdf



Product Portfolio

Support to Evacuation Plan

EU citizens living abroad enjoy the protection of EU Member States and the EU as a whole. Individuals responsible for the protection and security of these citizens need to be able to anticipate crisis situations and create contingency plans to prepare for them. In this context, SEA provides a powerful multi-layered product category supporting the development of evacuation plans in urban areas. Products are built on a base layer comprising an accurate and up-to-date mapping of the road network. Using this base product as a reference, the optimal routes between key origins (such as diplomatic facilities) and destinations (such as airports) are calculated. Furthermore, an analysis of the distances and projected travel times is carried out and presented in a separate information layer. This provides decision-makers with ample data to design their evacuation plans.

Upon request, a live web mapping tool can be made available to users. The tool allows users to introduce modifications to the input data (origins, destination and restricted areas) and design their evacuation plans on demand, adapting them to changing situations in the field.

Imagery used
SAR and/or Optical Imagery

Observation mode
Single-look
Monitoring

Map scale
1:5.000
1:25.000

Products
Digital Geographic Information - City Map
MapBook

Information content

Transport

- Basic Transportation Network
- Road Blocks (e.g. checkpoints, destroyed, debris)
- Detailed Transportation Network (classified according to hierarchy, bridges, culverts, tunnels)
- Tools to input rally points and automatically generate evacuation routes and convoy routes to the evacuation point

Points of Interest

- Diplomatic buildings
- Medical facilities
- Administrative buildings
- Public services (e.g. police, fire stations, schools)
- Transport-related buildings

Analysis

- Evacuation routes
- Potential helicopter landing areas
- Gathering areas
- Driving and walking distances

Driving Distances

- Under 2 minutes
- 2 to 5 minutes
- 5 to 10 minutes
- 10 to 15 minutes
- 15 to 20 minutes
- 20 to 25 minutes

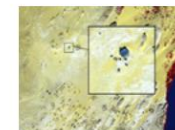
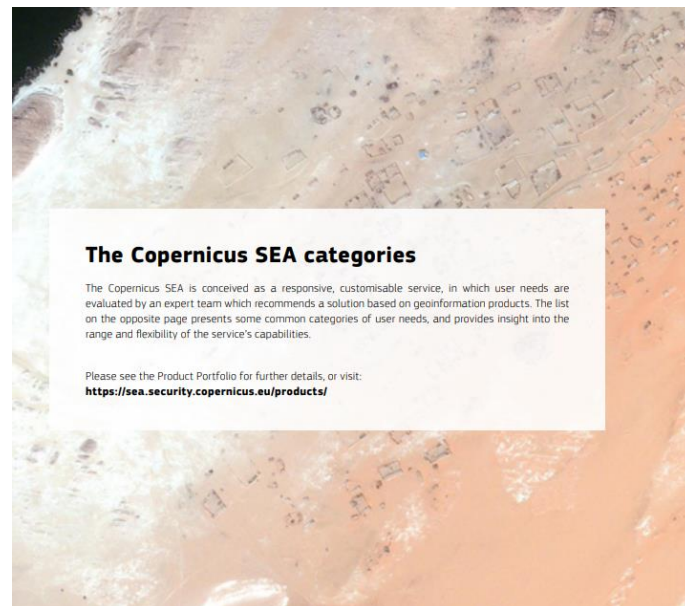
Diplomatic delegations of the EU and Member States can use this service to update their contingency plans for the evacuation of European citizens. The Copernicus SEA products can include suggested evacuation routes from specific locations to designated evacuation points as well as maps, such as the one shown, representing the distance (measured in time) from an airport to any other location on the map.

Servicios



Security

https://sea.security.copernicus.eu/wp-content/uploads/2018/11/CopernicusSEA_Service_Overview_web.pdf



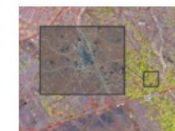
Activity Report



Support to Evacuation Plan



Road Network Status Assessment



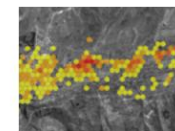
Camp Analysis



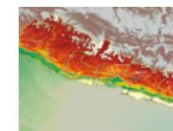
Critical Infrastructure Analysis



Non-EU Border Map



Conflict Damage Assessment



Crisis Situation Picture



Reference Map

Preguntas y Respuestas

Gracias!



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