

Lobelia – Earth observation to address the climate emergency

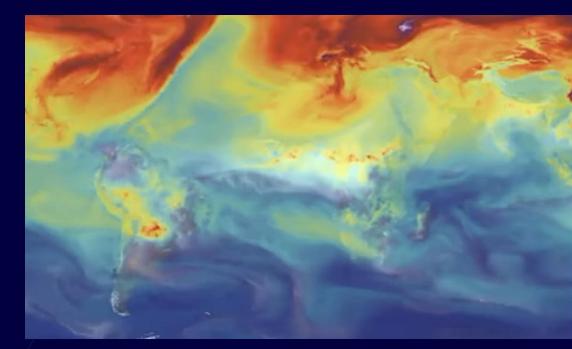
User Consultation Platform – Environmental Session Isadora Jiménez



UE23 PRESIDENCIA ESPAÑOLA CONSEDO DE LA UNIÓN EUROPEA



Earth observation to address the climate emergency.











Land ecosystems

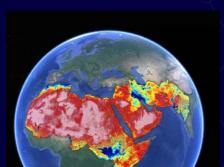


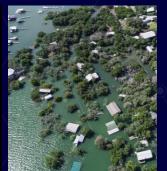
Cities & health





Physical Climate risks



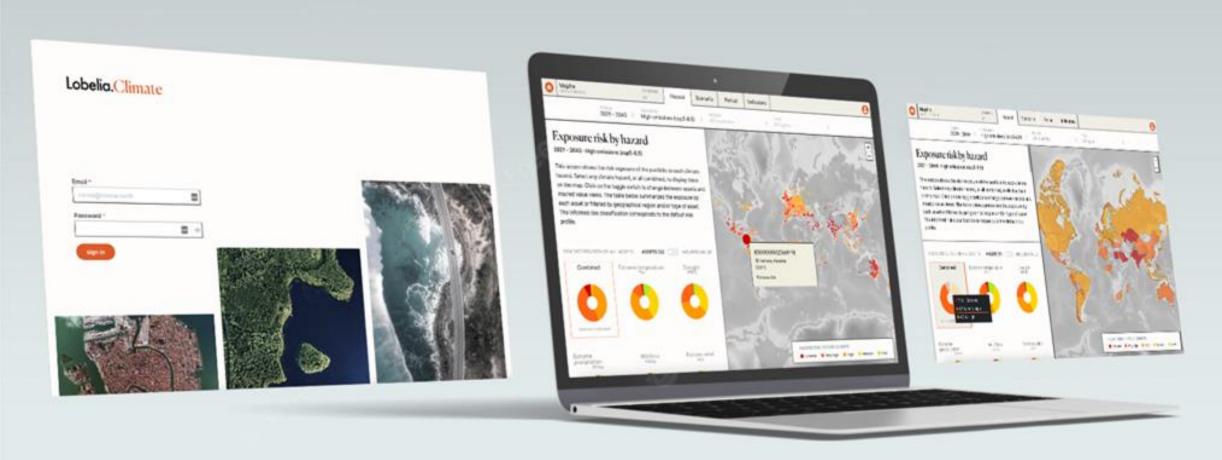




Ocean ecosyster

A dashboard to easily quantify climate risks at asset level





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Lobelia's climate services are used for:

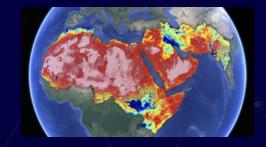
Climate risks disclosures In-depth analysis of climate risks

Climate adaptation strategies Present-time monitoring









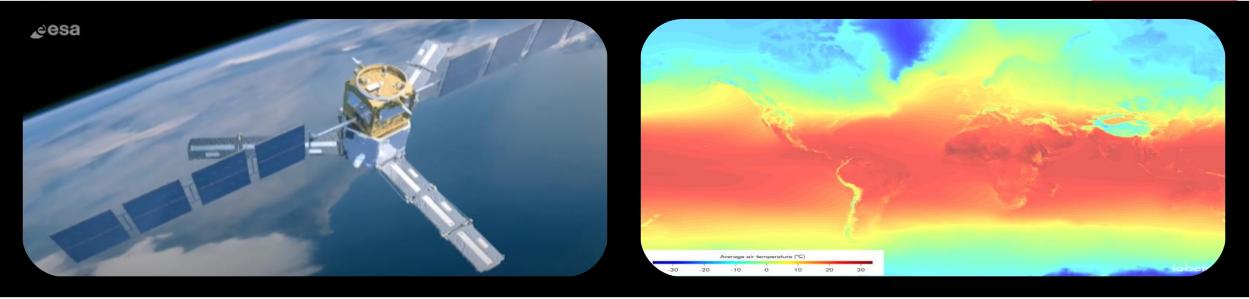




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Merging satellite and climate data





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What is needed from EU Earth Observation data to support climate services

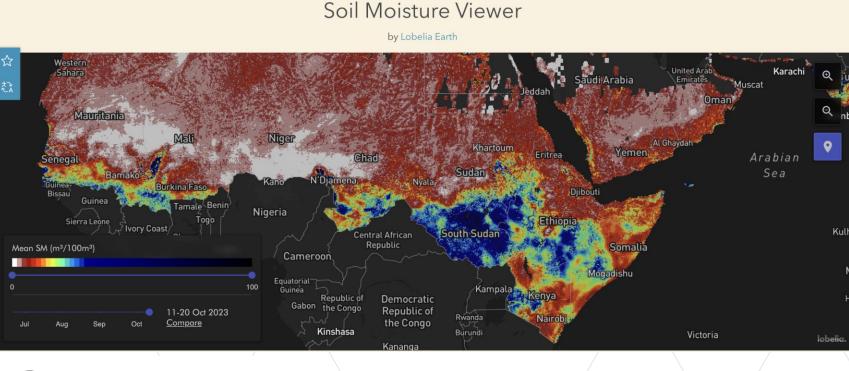


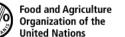
Soil moisture with L-band radiometer

SMOS sensitivity helps us monitor soil moisture and inform droughts, floods and heatwaves.

SMOS is beyond its life cycle and Sentinel 1 does not provide the same quality in semi-arid areas.

Need for L-band radiometers





Locust Hub

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High resolution surface Temperature

High temporal and spatial resolution is key for:

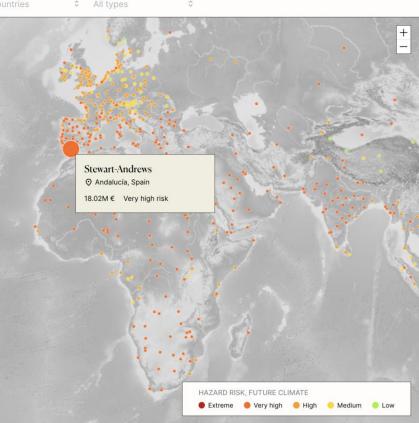
- Drought monitoring
- Process SMOS data
- Bias adjust climate data

0	Atlas DUPLICATED DEFAULT PROFILE	COMPARE BY	Hazard	Scenario	Period	Ind	licators		θ
		PERIOD 2061 - 2080 0	SCENARIO High emission	is (ssp5-8≎	REGION All countries	0	TYPE All types	٥	

Exposure risk by hazard 2061 - 2080 · High emissions (ssp5-8.5)

This screen shows the risk exposure of the portfolio to each climate hazard. Select any climate hazard, or all combined, to display them on the map. Click on the toggle switch to change between assets and insured value views. The table below summarizes the exposure by each asset or filtered by geographical region and/or type of asset. The informed risk classification corresponds to the default risk profile.





EU

2023

A Service Level Agreement (SLA)

Land, ocean and climate data have SLAs.

3

Space data need similar SLAs

Operational services for clients can't fail. We need reliability in the delivery of images and the expected release dates.



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SPACE WEEK

4 Data access without quotas



Data quotas can kill some commercial opportunities.

The download of large volumes of data without quotas should be possible.

Serving geospatial big data is not easy and requires work on the alignment of data access technology.



Transparency on delivery

EU S P A C E W E E K 2023

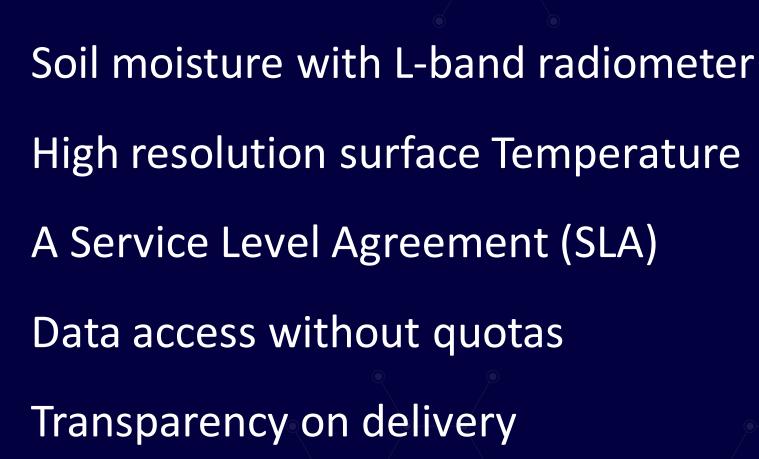
If there is an error, all users need to know it as soon as possible.

Operational services require all related information, including possible errors.

This is key to avoid penalties for breaching our SLAs with final clients.















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