

Ready to use EO based indicators for decision making for Insurance and Utilities markets

Environment and Climate session

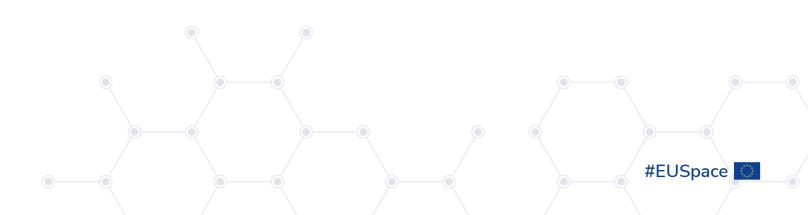
Laura Moreno, EarthPulse CEO



UE23 PRESIDENCIA ESPAÑOLA CONSEJO DE LA UNIÓN EUROPEA

AGENDA

- Company overview
- PULSES. Easy & ready to use aggregated indicators
- How EU space assets are used
- What are the user needs for EO
- Future evolutions needed



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\equiv **Democratize the use of satellite analytics**



Unlocking the value of satellite imagery

through artificial intelligence,

making satellite analytics accessible, easy, and useful for everyone.



Satellite

data access data exploitation data integration



Artificial Intelligence

unsupervised learning data fusion custom architectures



Infrastructure

Managed cloud Storage



Innovation

fast for developers easy-to-use for end users accessible for everyone useful for everyone

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EU S P A C E <u>W E E K</u> 2023

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EOTDL

- Funded in late 2020
- Turnever approx 1M€
- 15 staff now
- Expertise AI4EO: Unsupervised learning, Analytical Building blocks, NLP interface, labelling tool
- Al4EO projects: Al pathfinder, Al4EO Challenges platform, EO TDL, GDA APP & GDA FFF





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David Swanson/Reuters

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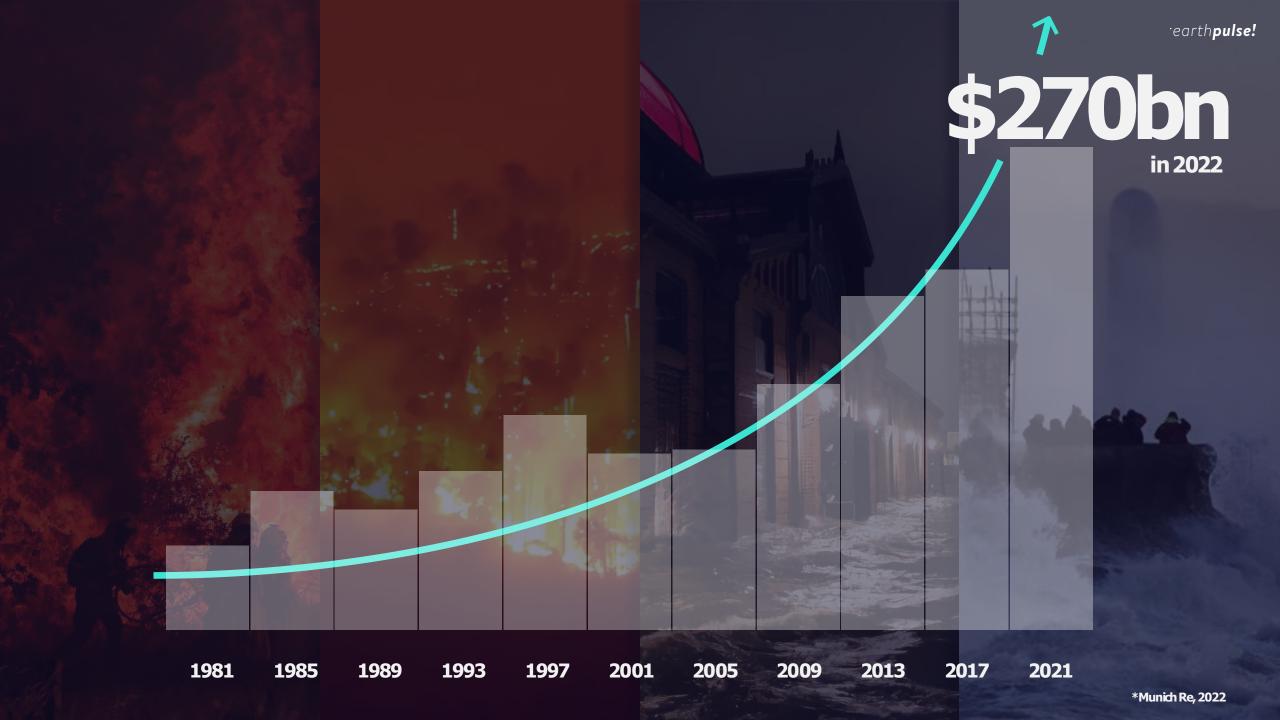
Daniel Bockwoldt/dpa /Picture alliance

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CLIMATE CHANGES IMPACT FINANCES EXPONENTIALLY

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Ebro river, Dec 2021

200M€ OFLOSSES

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Ebro river, Dec 2021

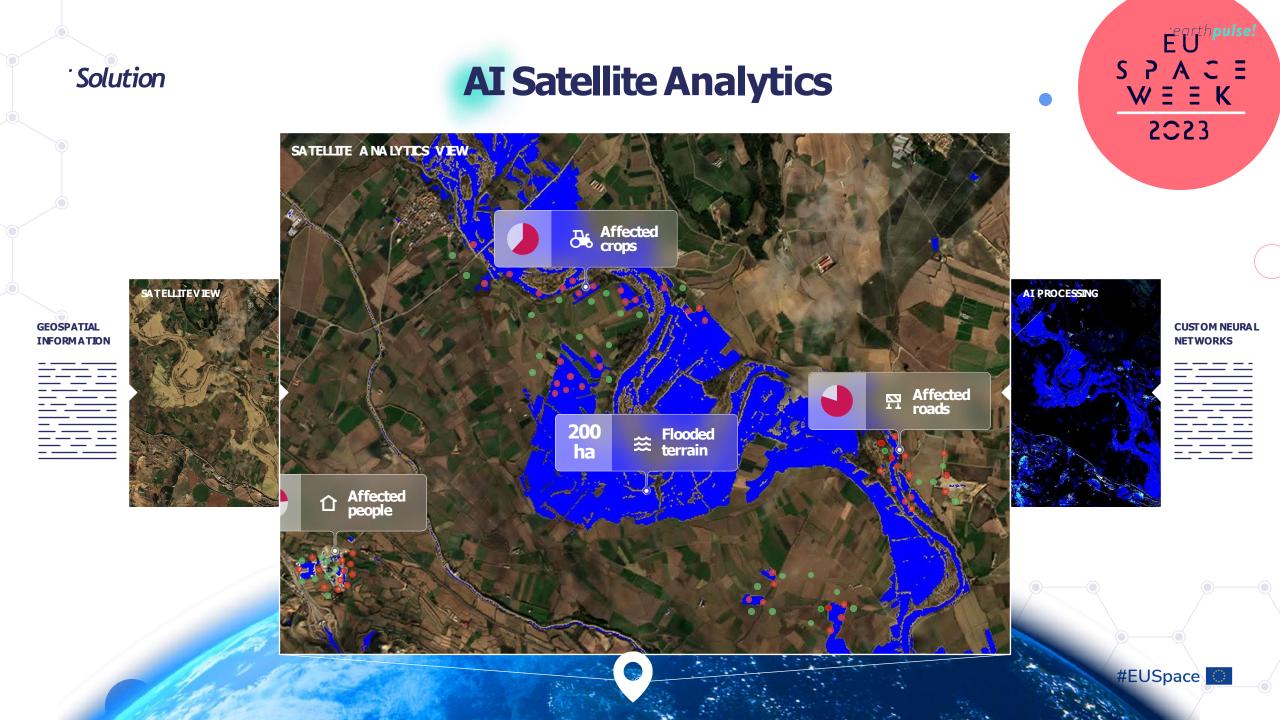
200M€ OFLOSSES

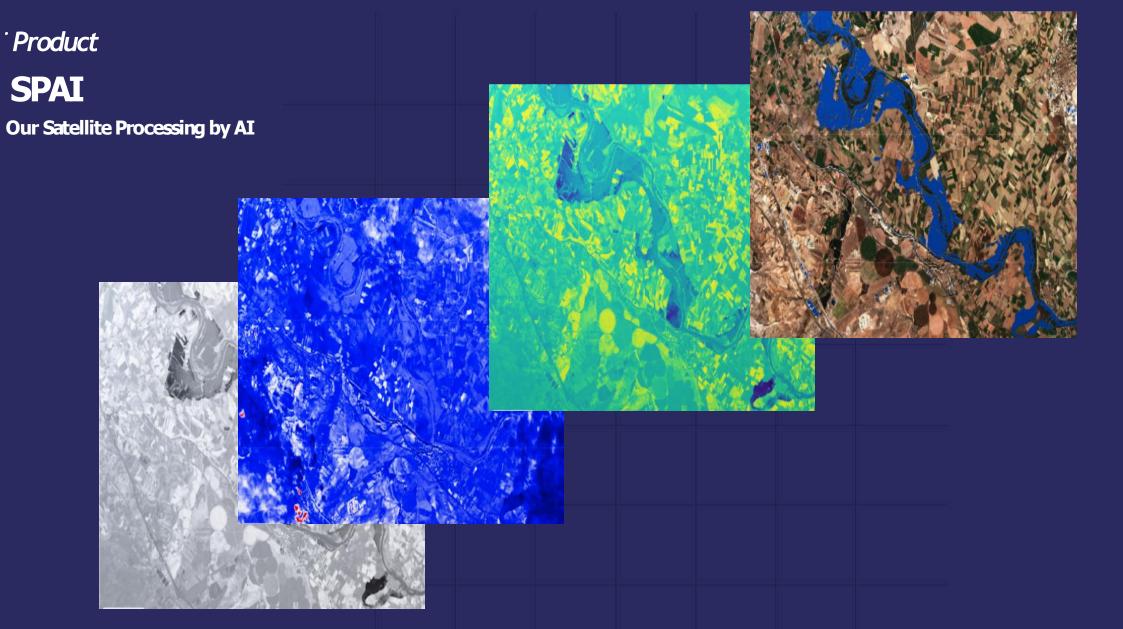
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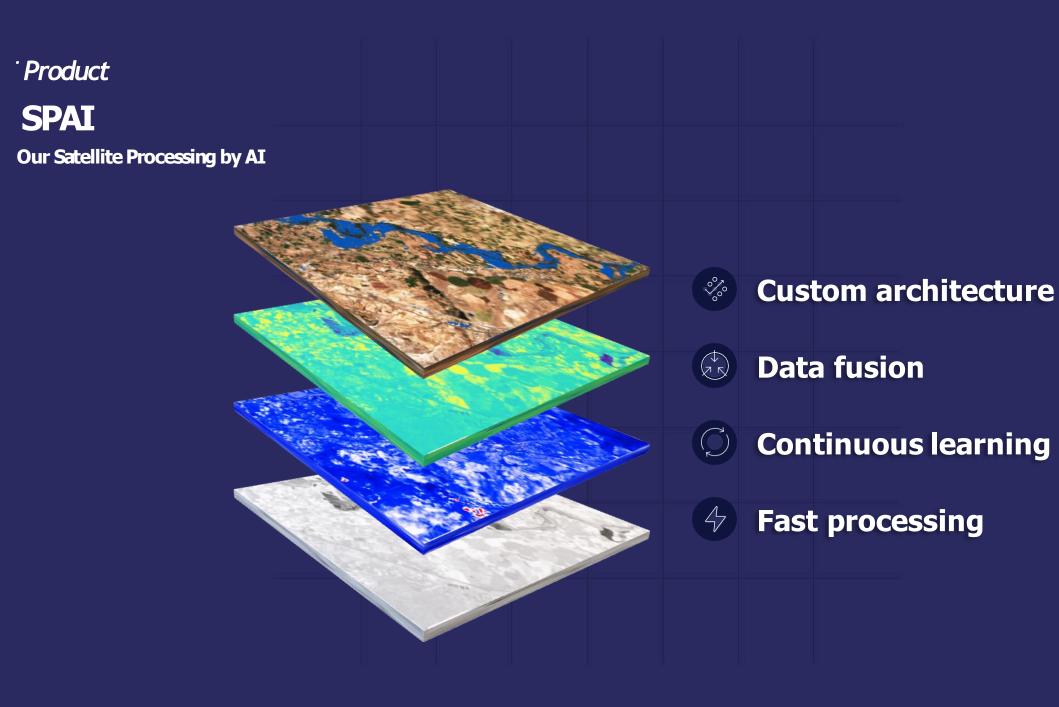
Thousands of satellites image the Earth.

Every corner. Every day.









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SPAI

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PRODUCT



EASE OF USE Easy-to-interact dashboard that No expert knowledge required



100% FLEXIBLE Built on a modular foundation to be easily adaptable and agile



RELIABLE Evidence-based information, Objective and unbiased



COST EFFICIENT Rapid and remote monitoring of vulnerabilities and impacts, optimizing resources and costs



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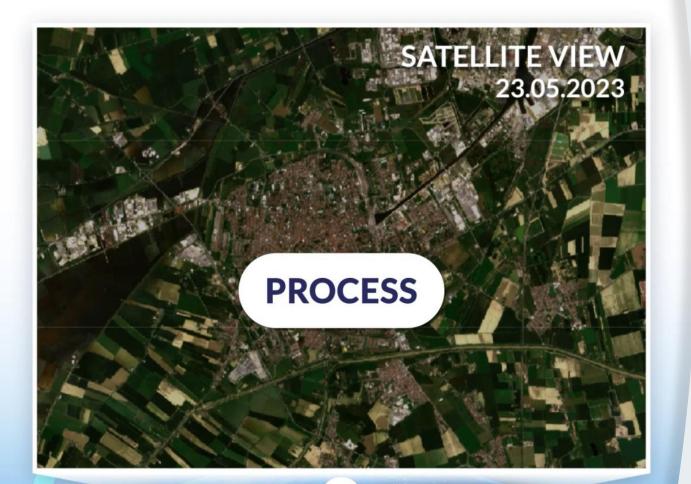
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[•] PULSES for risk managers







IMPACT PULSE

Quantify impacts and analyze them in real time. To react fast and prioritize the actions.



VULNERABILITY PULSE

Score asset vulnerabilities to identify weak points. Improve prepardeness and reduce future impacts.

Risk prevention saves 70% of losses

*YouseffNassef,UNFCC

FLOOD IMPACT PULSE

- Crops, roads, hospitals, schools or any Open
- Geospatial data or assets front

• Useful for validating claim management and underwriting



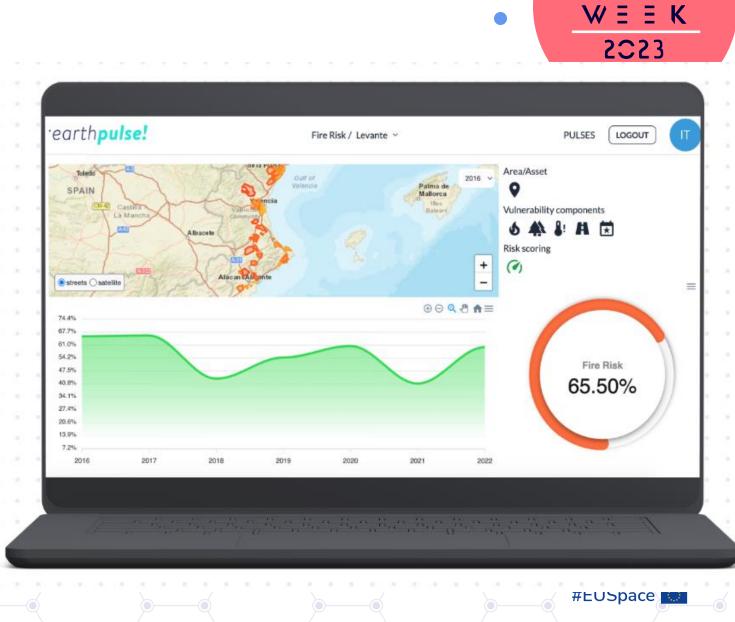
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FIRE RISK PULSE

- Vulnerability components:
 - Copernicus Fire risk index
 - Crop data/humidity
 - Extreme temperature condition and
 - Other assets selected by client / user
- Area: specific locations, areas such as district city or country level
- Needed aggregation (week, month, year)
- Risk: fire/ flood /drough or multi risk



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PRODUCT DELIVERY

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DASHBOARD

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Dashboard that provides a clear and real-time visualization of indices, such as the projection of work or the climate impact on an infrastructure. It facilitates informed decision-making, project management, and continuous monitoring.

REPORT

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Monthly, quarterly, or as-needed progress report. It can be exported in office, Excel or PDF.

DATA INTEGRATION

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We integrate our data into your internal systems and processes according to your needs. They can be downloaded in geospatial format, or integrated via API or XYZ tile service into a viewer, a GIS, and a multitude of other platforms.

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EU assets use

User needs

- Copernicus Data: S1, S2, S5P
- Copernicus Services: Climate Change, CMEMS, CEMS
- Copernicus Space Component Data Access (CSCDA)

• More on forescasting & scenarios

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WEEK

2023

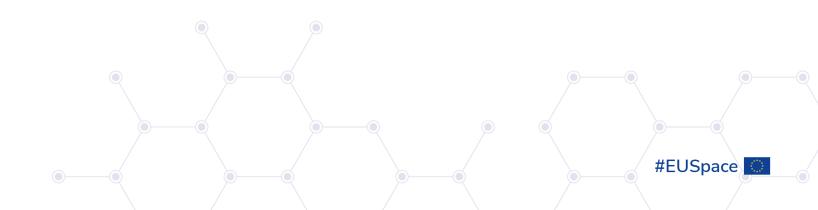
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- Closer to NRT
- Usability, usability, usability
- Understanding how this data adds value to their businesses



Future evolution

- More resolution / more frequency
- Quicker access to data
- APIs in Copernicus Services to ease
- Statistics and info in monetization value







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