



THE INTELLIGENCE TO ACT

Geospatial World Forum 2023

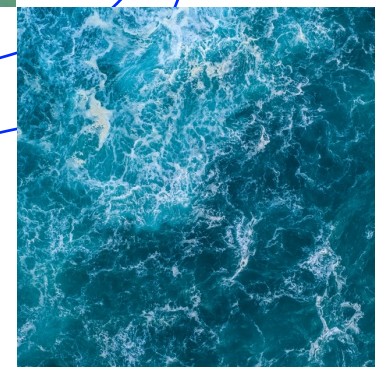
Elly Perets, CEO





OUR MISSION

ASTERRA will become humanity's eyes, guiding it through Earth's changes by applying advanced analytic capabilities to synthetic aperture radar.



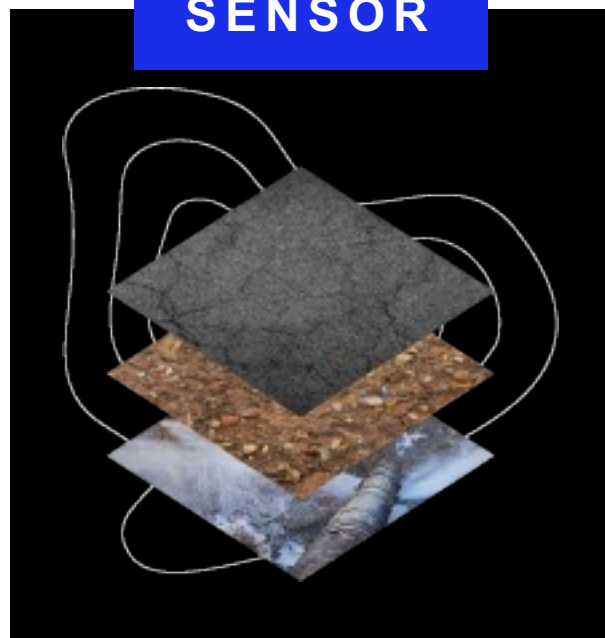
Making SAR Data Analytics Usable and Accessible for a More Sustainable World

VIEW



Satellite-based for
wide-area view

SENSOR



Earth Observation
Synthetic Aperture Radar
above & below surface

ANALYSIS



Geophysics & AI
algorithmic analysis
for actionable intelligence

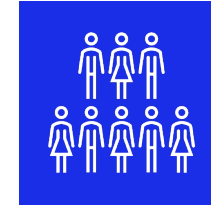
A Proven Technology



**Downstream
pioneers in PolSAR
11 Patents**



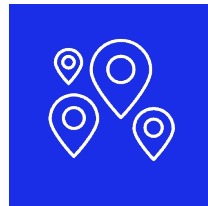
**Customer base:
64 Countries
650 Projects**



**Multidisciplinary
team**



**Largest commercial
user of L-band
satellites**



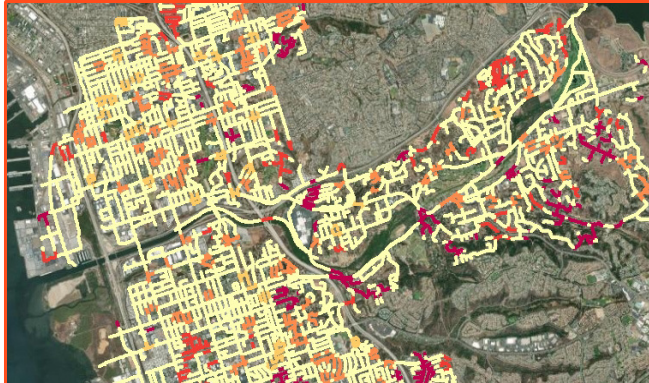
**Worldwide presence
4 offices
(USA, Israel, UK, Japan)**



**Founded:
2016**

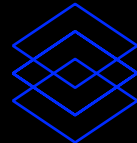
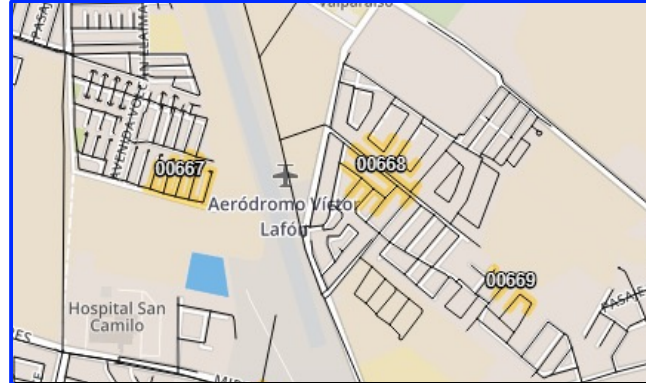
Solutions for a Sustainable Future

Real-time insights with ASTERRA's risk assessment and monitoring platform.



MasterPlan

Pipe deficiency assessment for replacement planning models



Recover

Underground leak detection, city-wide and at a glance



EarthWorks

Soil moisture mapping for road/rail, dams, mining, property

Impact



Ensure availability and sustainable management of water and



Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation



Take urgent action to combat climate change and its impacts

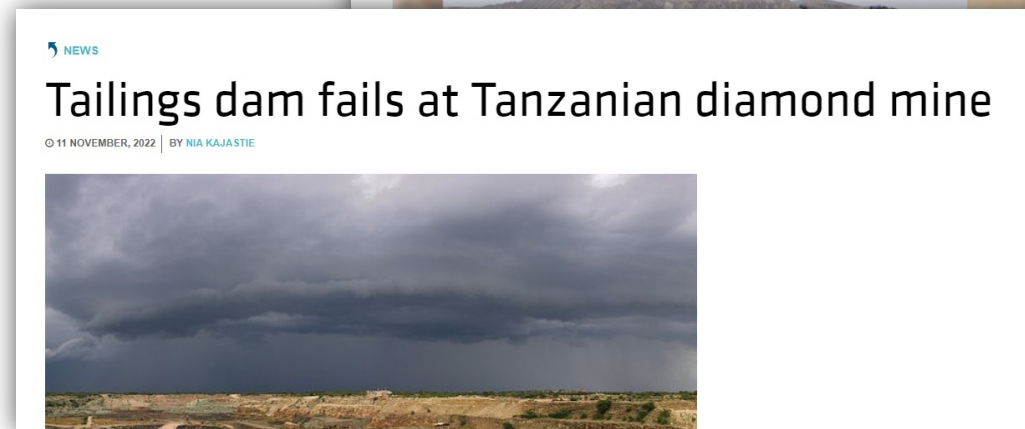
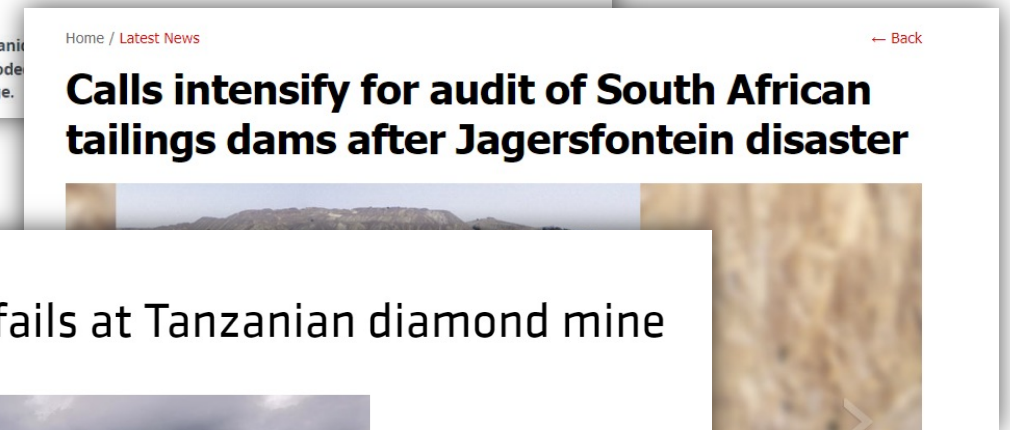
Mining Safety

Risk Factors and Safety Issues

- Unseen Dangers
- Climate Change →
Structural Weakening
- Open-Pit Hazards
- Subjective Assessment

"...average cost of \$543 million per failure categorized as “very serious”"

Source:
The RISK, PUBLIC LIABILITY, & ECONOMICS of TAILINGS STORAGE FACILITY FAILURES Lindsay Newland Bowker¹ & David M. Chambers² July 21, 2015



Current Monitoring Methods

Reactive Response

Problem can only be addressed once it's **visually** identified.

- Sensors (Motion, Saturation)
- Seismic Monitoring
- INSAR
- Drones



2014



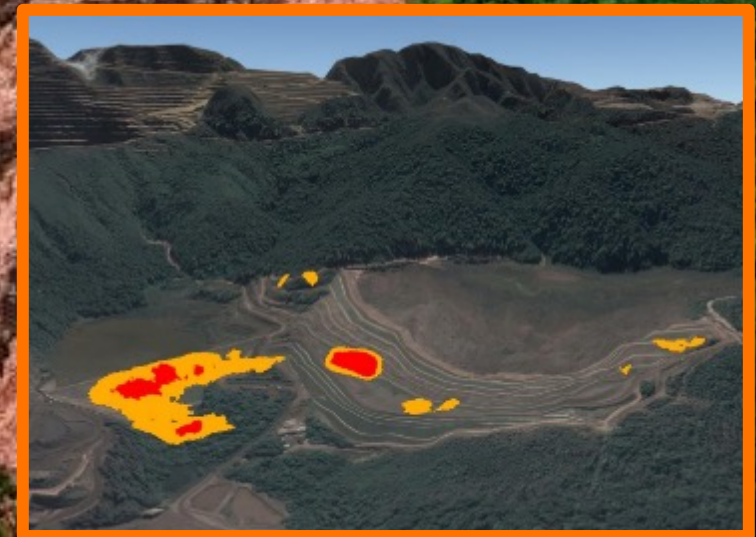
2023





ASTERRA's Technology

Our L-band SAR technology enables ongoing infrastructure assessment and empowers better-informed and sustainable decision-making.



Mineral Exploration

Current Model Challenges

Resource-intensive process that demands significant investments of **time** and **money** from planning → breaking ground.



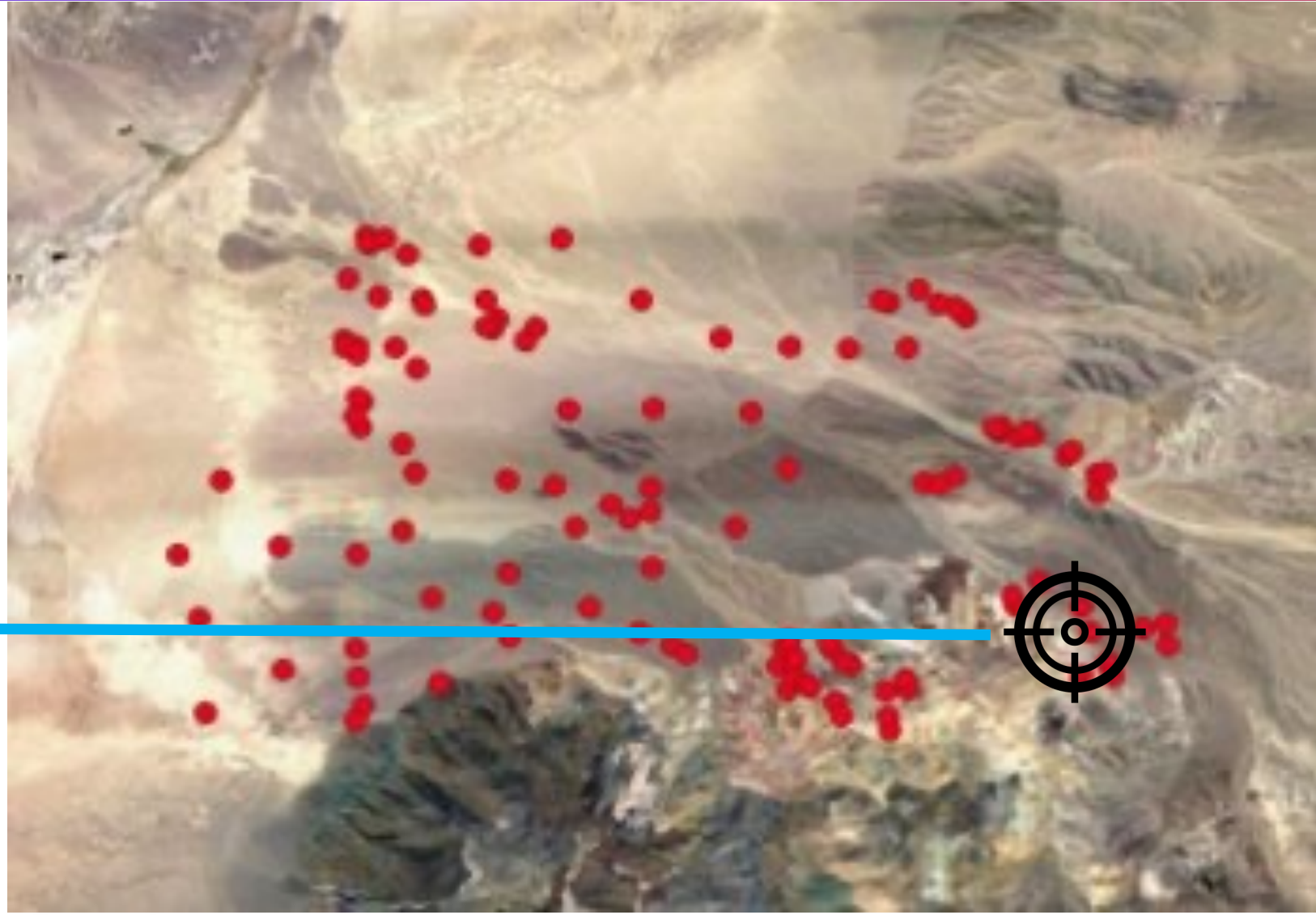
prospecting
extraction drilling
excavation operations
logistics
sampling investment
analysis
permits



ASTERRA's Solution

Quickly and accurately pinpointing optimal drilling points even before the permit process, saving valuable time and **millions of dollars** in costs.

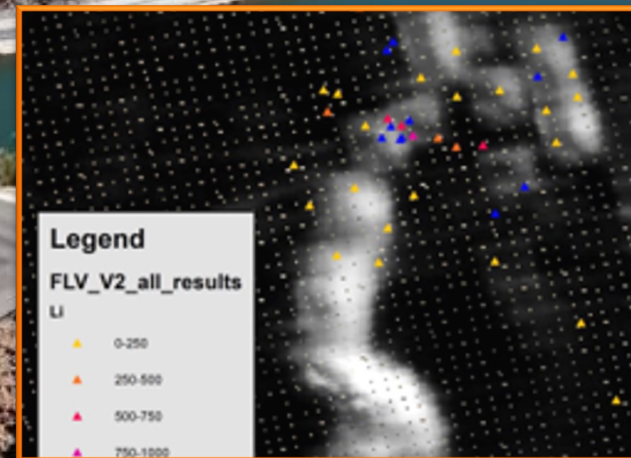
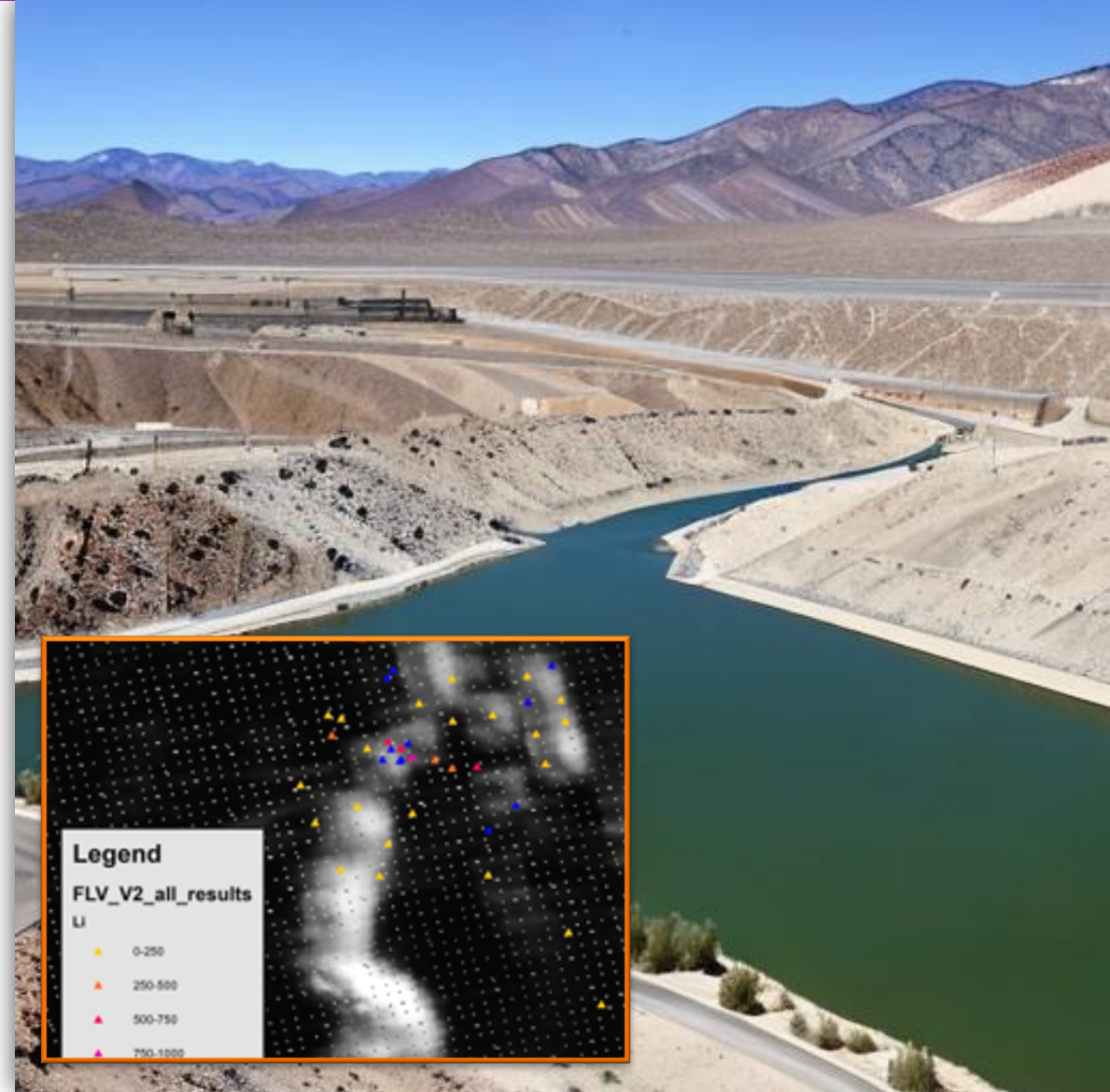
30 sq. km to 0.2 sq. km to never-before-seen lithium quantities in under two months.



Key Takeaways: Safety and Exploration

ASTERRA's Innovative Approach

- **Accuracy** – Needle in a haystack
- **Savings** – Fraction of the cost
- **Efficiency** – Matter of weeks
- **Risk Mitigation** – Unproductive land
- **ROI** – Increase success outcome
- **Sustainability** – Environmental impact





Thank You!