

USE CASE

Decision-ready visual intelligence for risk and operational impact across industrial infrastructure

Target

Continuously detect, explain, and act on physical changes across distributed industrial infrastructure, including construction sites, mining operations, pipelines, oil and gas assets, transmission lines, rail corridors, and energy infrastructure.

Challenge

Industrial operators manage vast physical networks with limited, intermittent visibility.

- ⚠ Subtle terrain, structural, or environmental changes can hold catastrophic risk or hidden opportunities, but these are difficult to detect and track at scale.
- ⚠ Inspections are manual, periodic, and expensive, leaving long gaps between observations.
- ⚠ Existing monitoring tools surface imagery or alerts but fail to explain what changed, why it matters, or what action is required.
- ⚠ Environmental encroachment, third-party activity, and gradual degradation often go undetected until they cause outages, safety incidents, or regulatory exposure.
- ⚠ Regulators and insurers require not just raw imagery, but defensible, auditable evidence of monitoring and response.

Solution

SeekrGeo delivers true geospatial intelligence by combining multimodal remote sensing with explainable AI reasoning.

Built on Seekr's Native Remote Sensing Foundation Model, SeekrGeo analyzes multi-temporal satellite, aerial, and SAR imagery to detect meaningful physical change over time. AI agents reason across imagery, asset registries, inspection history, and environmental context to determine risk relevance or uncover hidden opportunities.

Every alert is paired with a transparent explanation and traceable evidence, enabling teams to understand what changed, why it matters, and what to do next.

EXAMPLES

- Track construction progress analytics with automated anomaly detection.
- Detect vegetation encroachment near a pipeline right-of-way.
- Correlate imagery changes with growth patterns, inspection gaps, and prior mitigation.
- Distinguish between man-made structures vs natural environmental changes.
- Generate prioritized, defensible action plans for field response and compliance reporting.

Impact

- ☑ Uncover opportunities hidden in multi-vector data.
- ☑ Earlier detection of asset risk before failures or outages
- ☑ Reduced inspection costs through targeted, condition-based response
- ☑ Faster operational decisions with explainable, actionable intelligence
- ☑ Audit-ready documentation for regulators, insurers, and stakeholders
- ☑ Improved infrastructure reliability and resilience at scale