

SOLUTIONS FOR ENERGY



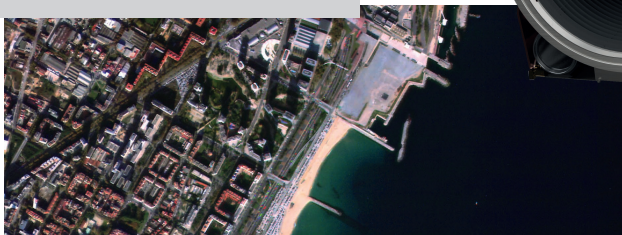
COMPANY PROFILE

Satellogic specializes in Earth Observation data collection and analytical imagery solutions for a diverse set of industries.

- Satellogic **designs, builds and operates its own fleet of Earth Observation satellites** to collect affordable high-resolution imagery with high recurrence for decision-making in a broad range of applications.
- Specialized in computer vision and big data analytics, Satellogic uses state-of-the-art artificial intelligence (AI) and proprietary algorithms to help industry professionals solve problems and meet their goals.

MULTISPECTRAL CAMERA

Sub-meter Resolution



HYPERSPPECTRAL CAMERA

25-meter Resolution



APPLICATION EXAMPLES IN THE ENERGY SECTOR

INFRASTRUCTURE MONITORING: OIL FIELDS

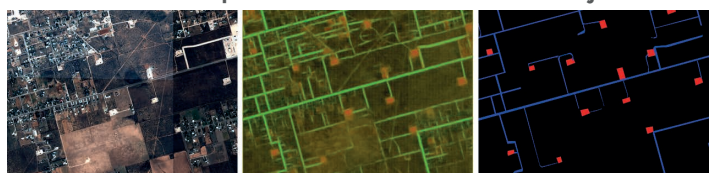
SOLUTION FEATURES:

- Semantic change detection of pads, roads, pools, pipelines, storage tanks and heavy machinery
- Automated learning of new landscapes and arbitrary new objects
- Frequent global coverage of large surfaces

CLIENT BENEFITS:

- Customized up-to-date information about infrastructure changes that matter to you
- Automated GIS updates on infrastructure and asset status
- Low-cost market intelligence at your fingertip

Neural Network response to different infrastructure objects



Yearly change detection results



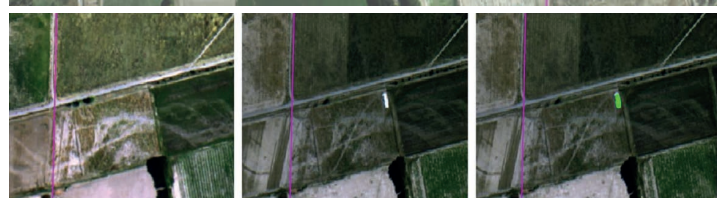
INFRASTRUCTURE MONITORING: PIPELINE

SOLUTION FEATURES:

- Regular inspection to detect hazards in proximity of oil and gas pipelines
- Customizable alerts by type (man-made vs natural change), priority level, distance to asset, etc
- Single solution provides satellite and optional drone inspection for recurrence and resolution needs
- Change and alert history, mobile access

CLIENT BENEFITS:

- Timely info about any incident or change, detailed inspections on-demand
- Reduction of theft and prolonged damage risk
- Historical analysis can provide new insights and inform decisions e.g. identifying risky pipeline sections over time
- Reduction of manual inspections at lower cost and higher coverage



Before, after and semantic change detection results
(new man-made structure)

APPLICATION EXAMPLES IN THE ENERGY SECTOR

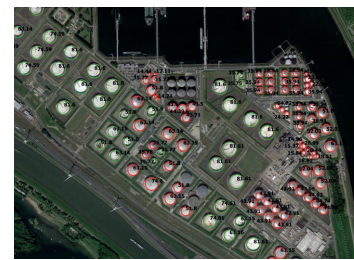
INFRASTRUCTURE MONITORING: OIL TANKS

SOLUTION FEATURES:

- Detection and monitoring of oil storage tanks
- Classification and size estimation of external floating roof tanks and other storage tanks
- Automated and scalable approach

CLIENT BENEFITS:

- Intelligence for oil volume estimates and commodity trading
- Timely information about changes in tank size and type, occupancy and infrastructure
- Highly accurate results



Detection of storage tanks (green) and oil storage tanks (red)

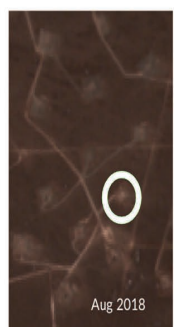
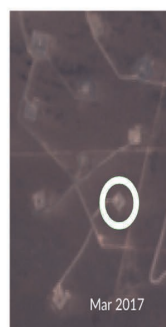
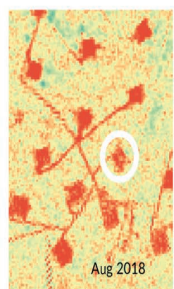
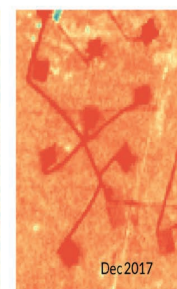
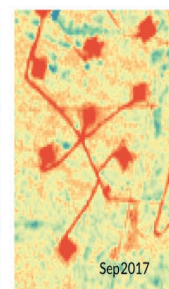
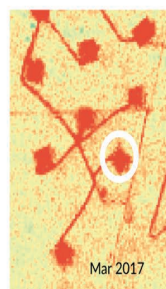
ENVIRONMENTAL COMPLIANCE

SOLUTION FEATURES:

- Vegetation recovery monitoring post location abandonment, or natural and man-made events
- Customized and standard and customized vegetative indices
- Client selects areas of interest and receives recurrent reports for regulatory bodies

CLIENT BENEFITS:

- Ability to supply concrete evidence of compliance with reclamation regulations
- Provide regulators with both visual and quantitative proof, at a low cost with no manual intervention
- Track evolution of applicable indices
- Directly embedded in reports



Evolution of abandoned well

APPLICATION EXAMPLES IN THE ENERGY SECTOR

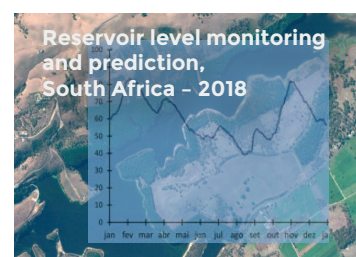
RESERVOIR MONITORING

SOLUTION FEATURES:

- Monitor multiple production fields simultaneously
- Predict reservoir levels
- Compare providers, optimize operations
- Estimate production levels (MW)
- Trace compliance policies
- Detect changes

CLIENT BENEFITS:

- Early predictions of yield and production levels
- Impact assessment of natural events / disasters
- Supply chain optimization
- Competitive and market intelligence



EVENT MANAGEMENT

SOLUTION FEATURES:

- Multiple asset monitoring
- Assessment of damage extent
- Early detection of failures in remote areas
- Prediction of natural disasters: flooding, landslides, etc

CLIENT BENEFITS:

- Global emergency alerts
- Historic catalog of pre/post event for insurance purposes
- Access to suitability analysis of areas prone to natural disasters
- Latency reduction between information and action



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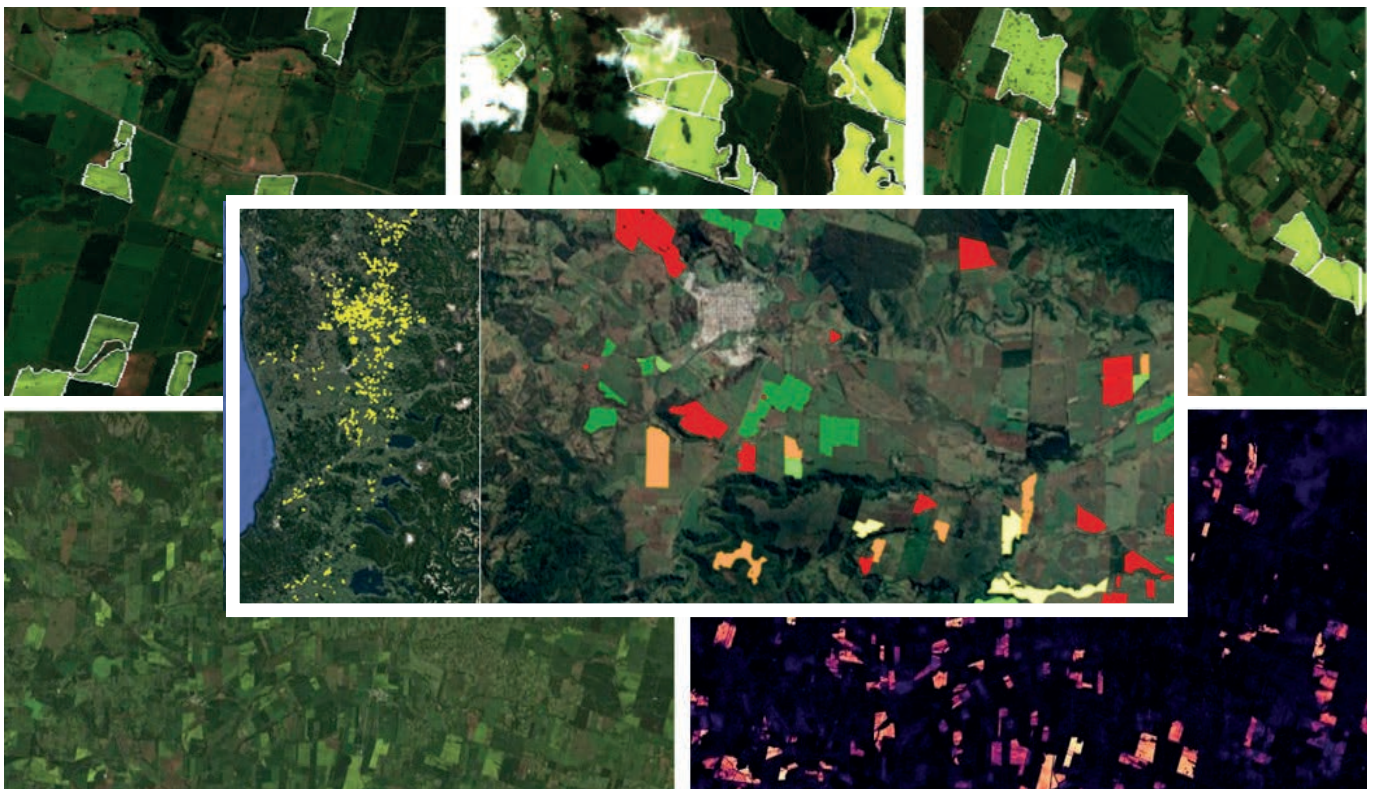
SUPPLY CHAIN MONITORING

SOLUTION FEATURES:

- Monitor multiple production fields simultaneously
- Compare providers and optimize operations
- Estimate production and anticipate supply needs
- Trace compliance policies
- Alerts and change detection

CLIENT BENEFITS:

- Optimize supply chain
- Predict yield
- Assess impact of natural events / disasters
- Competitive and market intelligence





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