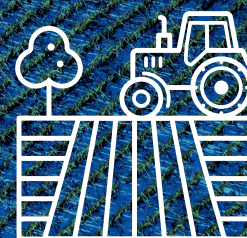




SATELLOGIC

SOLUTIONS FOR AGRICULTURE



COMPANY PROFILE

Satellogic specializes in Earth Observation data collection and analytical imagery solutions for agriculture.

- 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 agricultural applications.
- Specialized in computer vision and big data analytics, Satellogic uses state-of-the-art artificial intelligence (AI) and proprietary algorithms to help agriculture professionals solve problems and meet their goals.

MULTISPECTRAL CAMERA

Sub-meter Resolution



HYPERSPPECTRAL CAMERA

25-meter Resolution



APPLICATIONS FOR AGRICULTURE

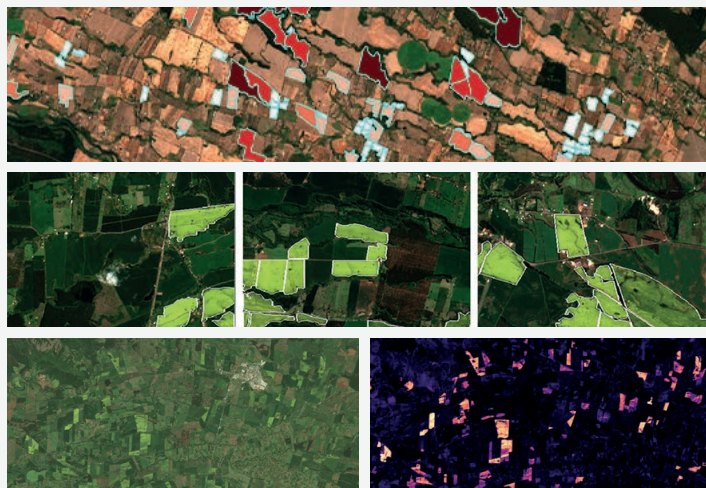
CROP SUPPLY CHAIN MANAGEMENT

SOLUTION FEATURES:

- Monitor multiple production fields simultaneously
- Compare providers, optimize operations
- Estimate production levels
- Trace compliance policies
- Change detection

CLIENT BENEFITS:

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



USE CASE: MONITOR COUNTRY-LEVEL PRODUCTION OF RAPESEED.

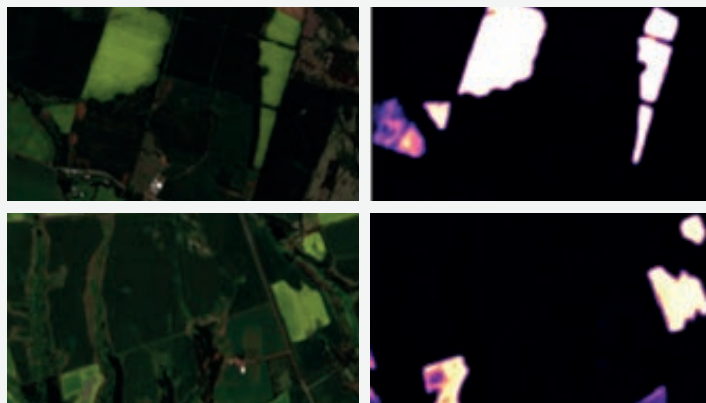
CROP STAGE ESTIMATION

SOLUTION FEATURES:

- Provides probability map of crops
- Given ground truth, trainable to learn new crop stages
- Generates time series to compare fields, species, weather effect, etc

CLIENT BENEFITS:

- Campaign management
- Species selection
- Dynamic yield prediction



USE CASE: RAPESEED BLOOMING STAGE ESTIMATION.

FIELD STATUS MONITORING

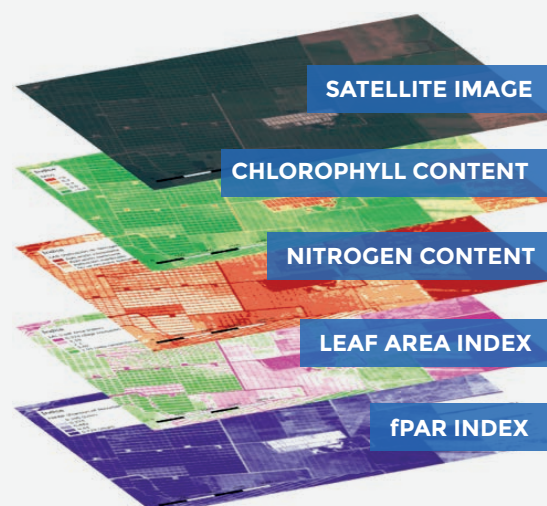
PREDICTION OF BIOPHYSICAL VARIABLES

SOLUTION FEATURES:

- Predict biophysical variables and crop health with remote sensing (Leaf area, chlorophyll, nitrogen, canopy water, etc)

CLIENT BENEFITS:

- Improve field inventories activities, like status and performance of crops
- Improve growth models
- Improve fertilization and irrigation scheduling



USE CASE: MONITORING AND PREDICTION OF BIOPHYSICAL VARIABLES FOR HIGH-VALUE CROPS BASED ON VEGETATION INDICES DERIVED FROM SATELLITE IMAGERY.

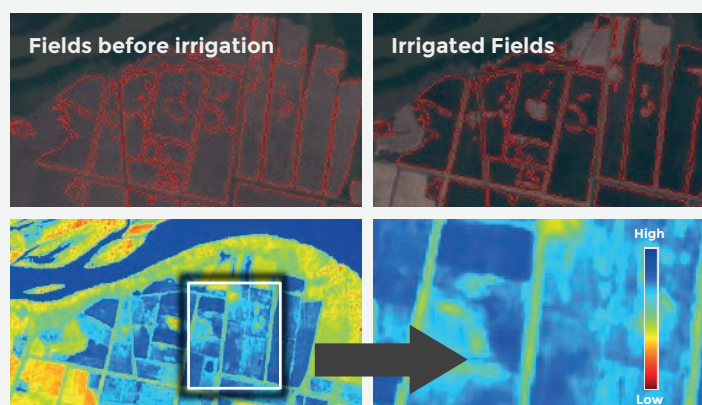
IRRIGATION MONITORING

SOLUTION FEATURES:

- Monitor field irrigation operations
- Assess water level and distribution

CLIENT BENEFITS:

- Cost-effective continuous operational data for timely decision making
- Early detection of irregular irrigation patterns allowing quick countermeasures
- Increase water-use efficiency



USE CASE: WIDE-AREA FLOOD IRRIGATION MONITORING OF RICE FIELDS TO IMPROVE TRADITIONAL FIELD MEASUREMENTS, ARGENTINA.

FIELD STATUS MONITORING

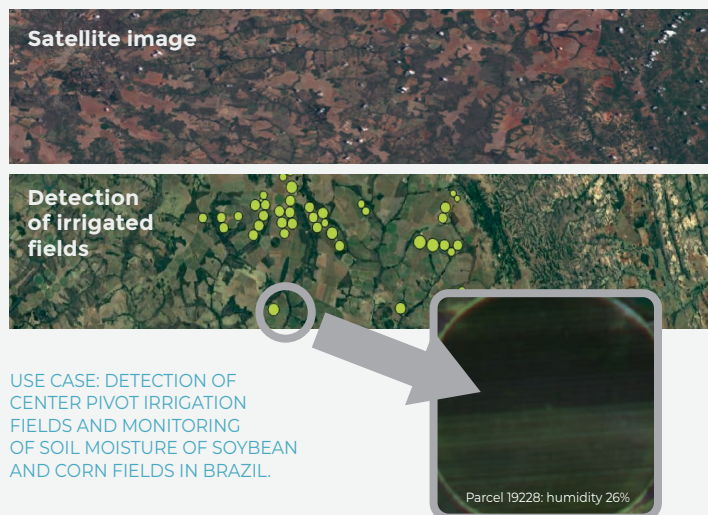
SOIL MOISTURE MONITORING

SOLUTION FEATURES:

- Monitor soil moisture level per field

CLIENT BENEFITS:

- Increase crop productivity and lower risk of failed crops by maintaining ideal soil moisture conditions
- Make accurate decisions with timely cost-effective data
- Schedule irrigation for optimal growth



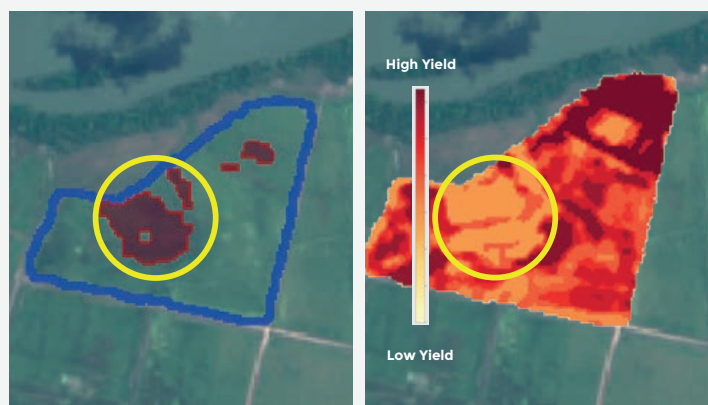
YIELD PREDICTION AND SPATIAL CROP PERFORMANCE

SOLUTION FEATURES:

- Analyze yield prediction
- Monitor spatial variability and detect poor performance areas at an early stage

CLIENT BENEFITS:

- Manage irrigation based on growth stage to maximize yield
- Assess and predict yield at a local and regional scale



USE CASE: YIELD PREDICTION AND EARLY MAPPING OF POOR PERFORMANCE AREAS WITHIN FIELDS.

CROP DAMAGE ASSESSMENT

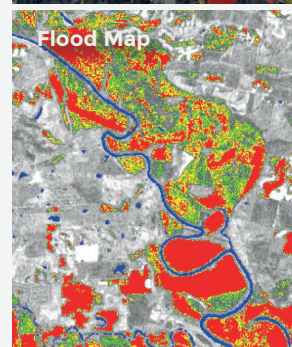
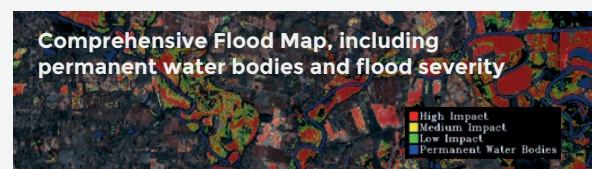
FLOOD MAPPING MONITORING OVER CROPS

SOLUTION FEATURES:

- Accuracy enabled by Optical and Radar Imagery
- Automated identification of water bodies and soil moisture using state-of-the-art artificial intelligence
- Mapping of flood extent and impact (depth and duration of standing water)

CLIENT BENEFITS:

- Verification of insurance claims
- Timely accurate assessment of flood extent and damage
- Risk model updates
- Low-cost market intelligence at your fingertip



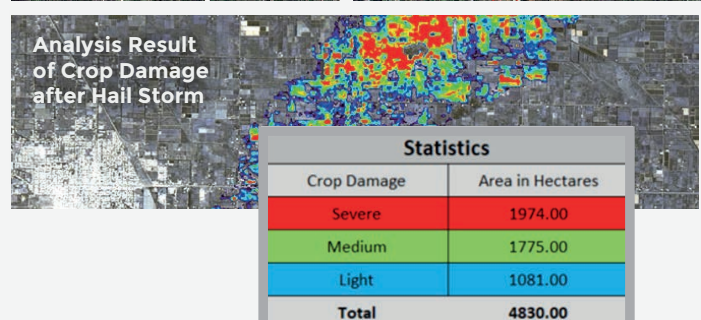
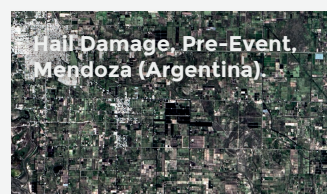
HAIL DAMAGE ASSESSMENT

SOLUTION FEATURES:

- Detection and monitoring of crop damage
- Damage estimate per parcel
- Automated and scalable approach

CLIENT BENEFITS:

- Before and after assessment of fields
- Highly accurate results
- Customizable online reports, including damage, area size, severity, field status before event, like crop type, growth stage (optional)



CROP DAMAGE ASSESSMENT

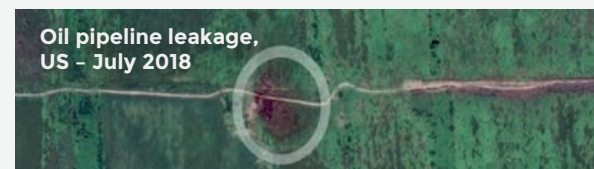
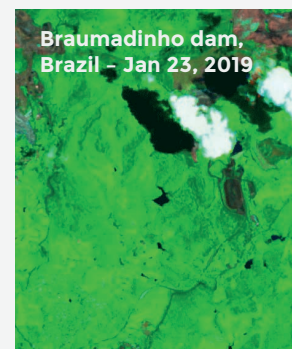
RAPID EVENT RESPONSE TO DAMAGING THREATS

SOLUTION FEATURES:

- Assessment of damage extent (area size, severity, description of affected area)
- Risk assessment of the affected and surrounding areas
- Mapping of natural disasters: flooding, landslides, etc

CLIENT BENEFITS:

- Global response - even in remote areas
- Historic catalog of pre/post event
- Access to suitability analysis of areas prone to natural disasters
- Latency reduction between information and action



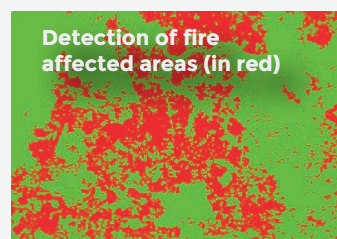
WILDFIRE IMPACT ASSESSMENT

SOLUTION FEATURES:

- Detect and map the area affected by all wildfires within days
- Monitor the recovery level of timber after the wildfires

CLIENT BENEFITS:

- Cost-effective data for detailed decision making with fast turnaround time
- Assess impact and damage caused by the wildfire



USE CASE: ANALYSIS OF DEVASTATING JANUARY 2017 WILDFIRE THAT BURNED CROSS CHILE AND CAUSED SUBSTANTIAL ECONOMIC DAMAGE



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