# **Early Vegetation Stress**

**Download Product Sheet** 



### Frequency / timeliness

Frequency: depending on satellite revisit rates

Timeliness: near real-time

#### **Delivery / output format**

Data type: Raster formats, vector formats

File format: GeoTIFF, shapefile

#### Accessibility

Commercially available on demand from EO service providers.

# CHALLENGES ADDRESSED - USE CASE(S)

#### Underwriting:

- Seasonal portfolio monitoring
- Online platforms or easy-to-use interfaces integrating various data sources (e.g. vegetation stress, field boundary changes, comparison, etc.)
   Actual crop health (vegetation)

- Procure better reinsurance terms/capacity from enhanced insurance practice
  Identification of vegetation stages (identify most sensitive stages when crop is the most vulnerable to a risk, e.g. flowering stage) Weather forecast tool

## Loss Adjustment:

- Workforce allocation and planning
   Benchmark physical field observations against yield loss detection (e.g. product calibration)
   Increase credibility of loss adjustment (e.g. show EO data/visualization to support loss adjustment communication to farmer)
- Enhance field survey (better precision with EO data support)
  Detect crop damage at field level

- Assess crop damage at field level
   Distinct field heterogeneity with crop damage
   Benchmark for anomaly indication of abnormal naturel occurrence of crop growth