

# Precision Farming

PartnerRe's partnership with Farmers Edge combines real-time field and satellite data and agricultural insurance – a “game changer” with the potential to close the protection gap across the world's main crop-growing areas.



## Analytical Platform

The all-in-one farm management platform, driven by field-centric data, automatically integrates all sources of data and delivers what growers need most: swift, accurate, in-field decision support. This information can be used for growth stage modeling, pest prediction, nitrogen management, yield predictions and virtual soil sampling.

## Farmers

- Make decisions based on real-time data
- React to crop stress as it emerges to protect yield
- Increase efficiency



## Insurers

### Insurance Policies Based on Real-time Data

- Ascertain increases in guaranteed yield and adjust in real-time depending on farmers' response to alerts and instructions from the precision farming platform
- Increase or decrease sums insured dynamically
- Eliminate anti-selection at the time of risk selection via soil sampling and weather stations, including soil moisture
- Allows for comparison of controlled and uncontrolled variables simultaneously
- Saves time



### Enhanced Loss Adjustment

For MPCI and Named Perils insurance policies, satellite imagery makes it possible to evaluate crop damage early. It also simplifies logistics for loss adjustment teams in conducting pre-harvest loss adjustment and significantly reduces the need for immediate post-loss preliminary loss adjustment. In some instances, for MPCI type policies for example, data collected via CanPlugs could be used to assist loss adjusters in improving accuracy and efficiency of claims handling.



## Field



### Data Collection

**On-farm Weather Stations.** Advanced on-farm weather stations installed across farms track accurate, site-specific data. Access to the full network of weather stations allows for detailed analyses of regional trends.

**Satellite Imagery.** High-resolution daily imagery powered by the largest constellation of satellites in the world help farmers to monitor fields, identify changes and make informed decisions using both in-season and historical satellite imagery.

**Soil Sampling.** Zone-based soil sampling delivers a plan based on farmers' individual specifications and needs.

### Soil Moisture Sensors.

**CanPlug™.** In-field telematics devices for every piece of equipment enable passive agronomic and machine data collection and transfer.

### Data Analytics

**Scouting Maps.** Detect and alert farmers to day-to-day variations in vegetation and soil: decline in vegetation, need for additional spraying, requirements for not spraying, pests and diseases.

**Crop Health Maps.** Provide a consistent view of fields from planting to harvest. Notifications for crop health changes make it easy to identify issues as they develop and take corrective actions before yield is impacted.

**Harvest Maps.** Measure the season more accurately with harvest maps that provide enhanced yield visualization.