Decision Agriculture.

Arable measures microclimate and crop productivity, enabling seed breeders to monitor and evaluate phenotype performance under varying environmental conditions.

**Weather for Open-Field Breeding**

- Monitor environmental stressors with hourly field-level weather updates that correlate precipitation events, humidity, dew point, leaf wetness and temperature.
- Identify disease risk and fungal pathogen tolerance windows with daily sunlight hours and temperature ranges.
- Baseline photosynthesis of high-performing varieties with solar radiation measurements.

**Insights on Plant Growth**

- Understand drought tolerance, plant water levels and transpiration rates by linking plant canopy temperature with ambient air temperature.
- Identify changes in the plant development process affected by nutrition and environmental stressors through NDVI and Chlorophyll content.
- Track accumulated heat units to evaluate plant performance crop growth stages using field-level GDD.

- The Arable Mark 2 is the first IoT-enabled weather and crop monitor with extended LTE-M & 2G coverage.
- Solar power, fit-for-the-farm durability, and easy installation increase efficiency to boost your bottom line.
- Access your data anytime, anywhere via our intuitive, user-friendly web platform and mobile app.
- Connect third-party sensors to pull in soil, wind, water flow data, and more.

Arable Mobile, our new mobile app for on-the-go data access. Arable API 2.0 allows for integration into the business tools you already use.

Arable Mark 2 Tech Specs
Unique Data. Unique Insights.

- **Precipitation**
  - Rainfall to +/- 6%/hr
  - Dew Detection

- **Evapotranspiration**
  - Dynamic Kc
  - Forecasted Crop ET

- **Radiation**
  - Solar Radiation

- **Plant Health**
  - NDVI
  - Chlorophyll Index
  - 7-Band Spectrometer

- **Weather**
  - Temp to +/- 0.8°C at solar noon
  - Rel Humidity to +/- 5%
  - Pressure < 0.5 kPa

- **Harvest / Event Timing**
  - Growing Degree Days

- **Integrations / Accessories**
  - Soil Moisture Probes
  - Wind Speed & Direction
  - Pressure Switch/Transducer
  - And More

- **Cellular Connectivity**
  - LTE-M
  - NB-IoT*
  - 2G
  - *Availability dependent on location