

## Satellite Imagery

# Monitor crop growth and health for better, more informed decision-making.

A range of imagery services automatically delivered to your account for use in crop monitoring and variable rate applications.

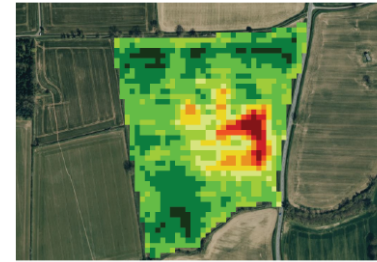


'A powerful tool that gives me a bird's eye view of crop growth. It saves me time, and enables me to walk directly to any problem area.'

### BENEFITS

The benefits you can expect from satellite imagery:

- Improves crop profitability, yield and quality, through targeted application of inputs
- Identifies crop stress, nutrient deficiencies, and waterlogging for timely intervention
- Enables early detection of pest and disease outbreaks for easier management
- Supports precision farming practices for efficient use of inputs and machinery
- Enhances sustainability by reducing environmental impact and improving soil health



Satellite Imagery is one of an ever-expanding suite of apps available within KORE - the online precision farming portal, powered by SoilEssentials giving you the opportunity to monitor and manage your crops and fields more effectively.

Improve and maximise your agricultural efficiency.

Making your life easier and more profitable by farming smarter.

Start the conversation  
Call 01356 650459 / 07425 338545 . Email: [enquiries@soilessentials.com](mailto:enquiries@soilessentials.com)

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## Historic Potential Index (HPI)

### A quick cost-effective solution to map historic field variability.

Understand your inherent field variability by combining multiple years of historic imagery to produce a map of field productivity.



View maps easily in KORE, our online precision farming portal.

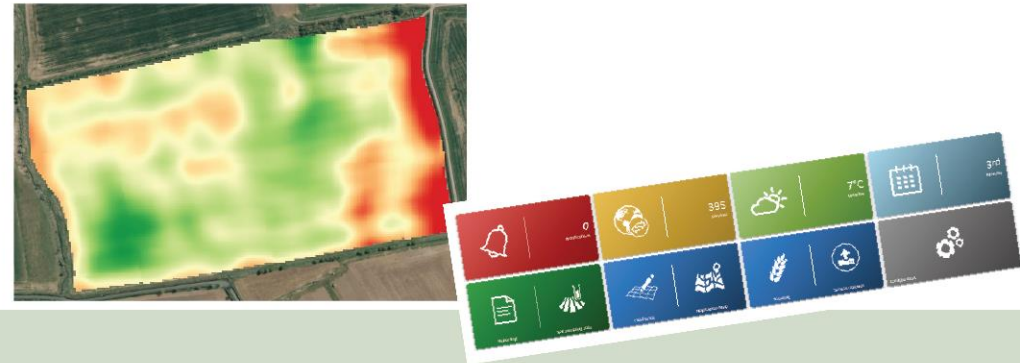
Making your life easier and more profitable by farming smarter.

'The HPI map provides a simple, clear way to view field productivity over the years in a single image, making it an easy starting point for precision farming.'

#### BENEFITS

The benefits you can expect from using an HPI map:

- Integrates multi-year imagery to map historic soil and weather related field variability
- Provides a quick and robust estimate of field variability
- Identifies the changes in yield potential across the field
- Enhances decision-making for crop management, soil analysis and VRA
- Provides valuable insights for long-term farm planning and management



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## VRA Nitrogen

# Improve your crops yield response to nitrogen applications.

Variable Rate Application (VRA) of nitrogen enables precise applications of nitrogen based on variations in soil and crop conditions, leading to improved yields, nitrogen use efficiency and cost savings.



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'By using VRA Nitrogen I have a better understanding of the crop variability in my fields and can ensure that the crops get exactly what they need to deliver yield.'

## BENEFITS

The benefits you can expect from using VRA Nitrogen:

- Target N inputs to where they are most cost-effective
- Achieve higher and more consistent grain protein levels
- Create a more uniform crop canopy
- Reduce the risk of crop lodging and disease
- Increase nitrogen use efficiency (NUE)



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## VRA Seed

Optimum plant populations lead to better crop performance in varying soil and yield conditions.

Achieving the right plant population helps ensure that each plant receives the necessary inputs to reach its full potential, leading to increased yields and healthier crops.



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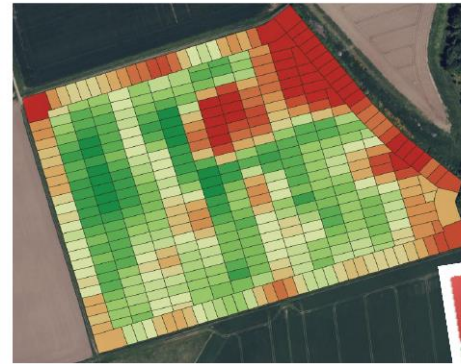
Making your life easier and more profitable by farming smarter.

'Using VRA Seed helps me be more efficient in knowing where and how much seed to use, improving crop establishment and reducing crop variability.'

## BENEFITS

The benefits you can expect from using VRA Seed:

- Save on seed costs by targeting seed rates to soil types and conditions
- Enhance crop yield potential by optimising plant population
- Create a more uniform crop canopy
- Reduce the risk of weed growth, crop lodging and disease risk
- Improve crop resilience and tolerance to stress



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## Soil Sampling

Accurately measure your soil pH, health, organic matter and nutrient indexes.

Soil sampling provides accurate and reliable measurements of soil health and fertility enabling the targeted and efficient use of fertilisers and lime.



Improve and maximise your agricultural efficiency.

Making your life easier and more profitable by farming smarter.

'I took soil samples from my fields to measure the health of my soil. The results help me monitor, understand, and improve my soils.'

### BENEFITS

The benefits you can expect from soil sampling:

- Enables precision management of soil fertility and pH levels
- Provides field-specific data for more effective decision-making
- Identifies low and high nutrient indexes
- Improves crop yield and quality
- Enhances soil health and biodiversity for long-term productivity
- Supports sustainable farming practices



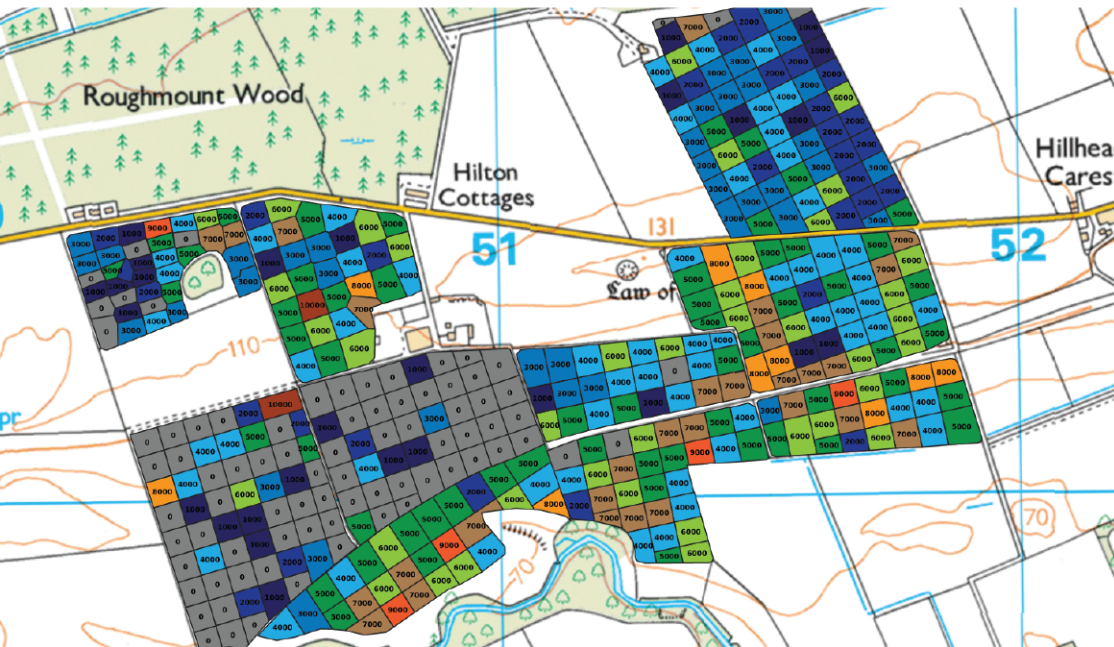
Soil Sampling is one of an ever-expanding suite of apps available within KORE - the online precision farming portal, powered by SoilEssentials giving you the opportunity to monitor and manage your crops and fields more effectively.

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**VRA Lime, P and K**  
**Targeting crop inputs to soil indexes**  
**maximises the benefits from your**  
**fertiliser and lime costs.**

Variable Rate Application (VRA) of fertilisers and lime targets inputs more effectively, avoiding unnecessary cost while improving soil health, crop performance and yield.



Improve and maximise your agricultural efficiency.

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'Variable application of lime and fertilisers helps me manage costs and soil health which benefits crops and my wallet.'

BENEFITS

The benefits you can expect from using VRA Lime, P and K:

- Reduces input costs by applying the right amount of lime and fertiliser
- Tailors lime application to soil pH levels for optimal nutrient uptake
- Improves crop quality and yield by optimising nutrient availability
- Supports precision farming practices for efficient use of resources
- Enables better compliance with regulations and nutrient management plans
- Improves sustainability by reducing environmental impact
- Uses RB209 best industry practice guidelines



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## Mapping Crop Yield

**Our yield map processing service saves a unique record of past agronomic and economic crop performance.**

Yield maps provide a historical record of crop performance showing which management practices have worked well and allows more informed decisions to be taken about future crop management.



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'Looking at cleaned yield maps lets me compare the high and low yielding areas of the field which helps me make better agronomy decisions in the future.'

### BENEFITS

The benefits you can expect from Yield Maps:

- Enables data-driven decision-making that can improve profitability and overall farm management
- Reduces costs by identifying areas where inputs can be reduced or eliminated
- Provides accurate data on crop yields
- Provides a better understanding of crop variability across different fields and seasons
- Enables targeted interventions in areas of low yield, such as drainage improvements or soil amendments
- Increases crop quality by identifying variations in soil health and nutrient levels
- Facilitates better agronomic decisions by trialing new varieties and techniques



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