RHIZA

PLANNING MADE SIMPLE

FIELD
FOCUSED

Welcome to RHIZA

RHIZA. The only fully integrated digital agronomy and precision farming service for arable, grassland and high value crop businesses.

By delivering an unparalleled level of insight, RHIZA enhances yields, reduces risks, saves time and optimises inputs. We support growers and agronomists in achieving sustainable and profitable crop production and farming.
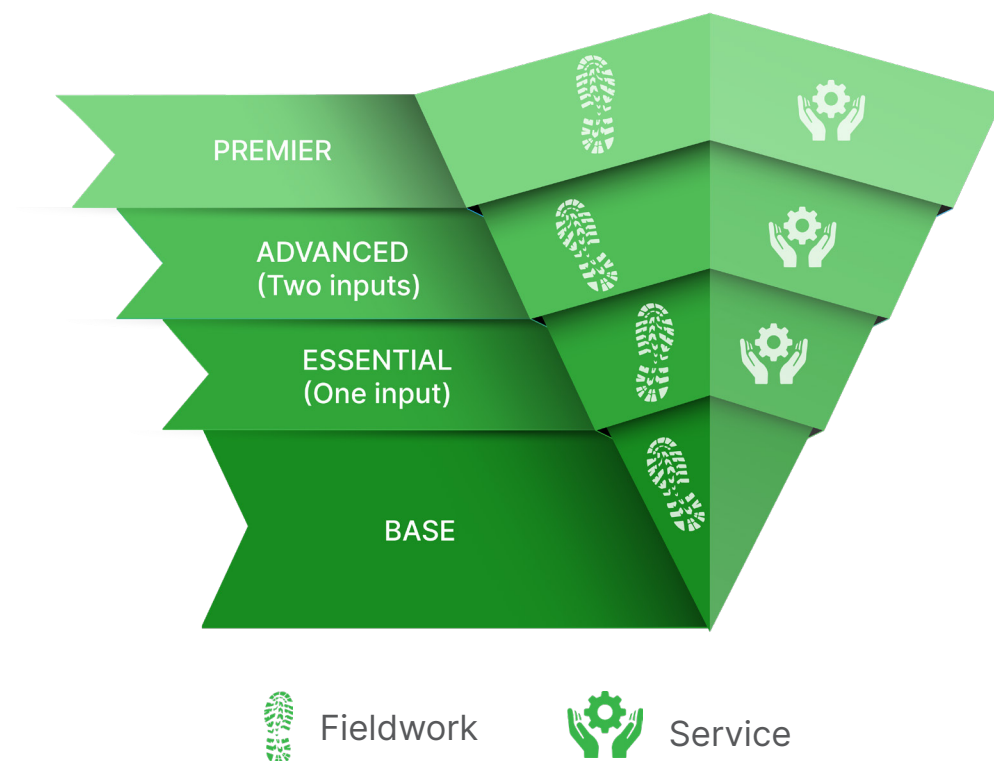
RHIZA combines satellite imagery, hyper-local weather data, pest and disease forecasting, plus physical fieldwork to highlight and adapt to potential in-field variances.

Every year our agronomy partner, Agrii, makes significant investments into Research and Development. Together, we jointly established Digital Technology Farms to investigate and validate the return on investment from agronomised precision solutions. These findings are available via your RHIZA Account Manager, Agrii agronomist and through the RHIZA platform.

Discover RHIZA

Step 1 – Select the digital package that is best for you
Get the most accurate information and advice you need, in the ways you need it, precisely when you need it. With four packages available, you can start at any level to suit your business.

PREMIER

ADVANCED
(Two inputs)

ESSENTIAL
(One input)
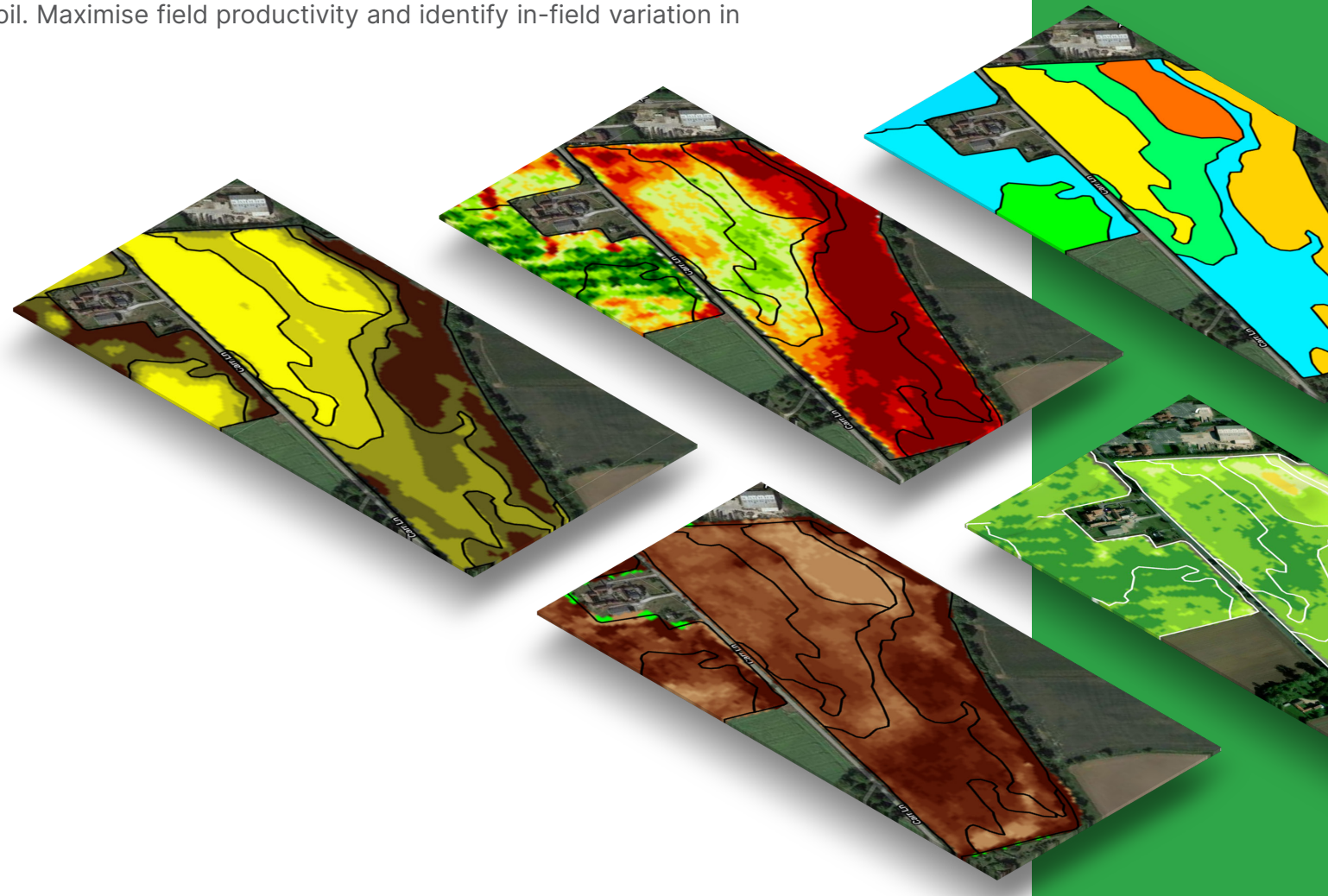
BASE

Fieldwork   Service

ADVANCED
AGRICULTURE

Step 2 – Add your required service level (optional)

If you are on the Premier package, expert advice from your account manager is already included, but for those on Essential and Advanced who want to save the time of running your own plans, and want to have the support and expertise of an account manager, just let us know. If you are happy with Base, we will always be available to provide support remotely.

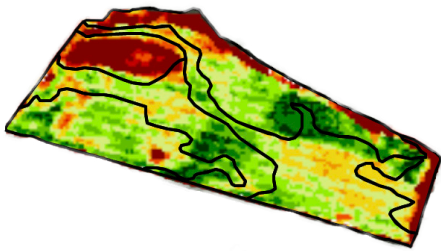**Step 3 – Choose your fieldwork requirement (optional).**

As you know, it all starts with your soil. Maximise field productivity and identify in-field variation in three simple steps.
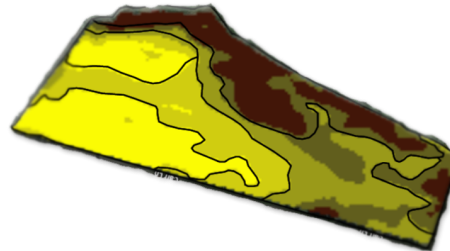
1. IDENTIFY

Use high resolution satellite images provided with one of our four packages to determine the variation within your fields. Take action by iden- tifying the cause of the variation through soil evaluation.
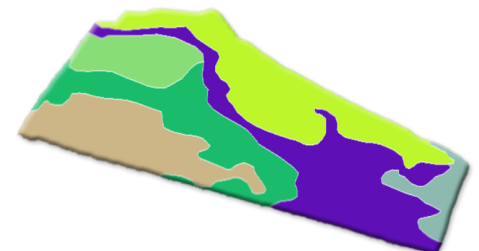
2. ZONE

Determine the right way to manage every field with one of our three methods available, allowing you to choose the right option for your farm.

3. SAMPLE

Sample each zone individually and identify the true variation. This will allow you to make the final decision on your nutrient or seed management plans, based on what is really happening in your field.

Ƶ Full Nutrient analysis available. As standard P, K, Mg, pH. Additional elements - OM, broad spectrum, laser soil texture analysis

Ƶ Access your data online via the RHIZA platform 'Contour'

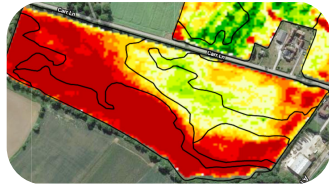Ƶ Create variable application plans from your data to optimise your investment

Fieldwork is available across all the packages at an additional cost to the digital subscription, at any time. Upload existing results on Base, an upgrade is required to Essential, Advanced or Premier for variable applications
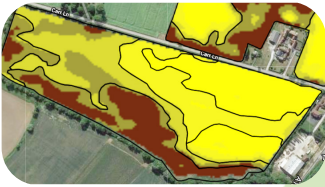
Process

1. IDENTIFY

NDVI and Farmer Knowledge
3-5ha average

Self-zone
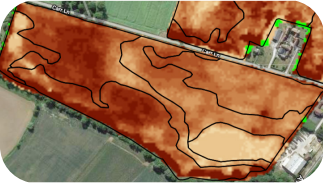Historical imagery or local knowledge used to create known variation zones

OR

Soil Scan
2ha average

Electrical Conductivity Measurement of soil conductivity. Clay has a higher resistance than sand or silt, allowing variance to be shown across two depths of your soil – both topsoil and subsoil (30-90cm)

OR

Soil Brightness
3.5ha average

Using satellites, we create a compound image of your bare soil, and use near-infrared sensor results from the satellite to map your soil. The reflectance of soil particles to this infrared light highlights changes within your topsoil profile

2. ZONE

Management Zones
Management zones are then created according to selected method

3. SAMPLE AND PLAN

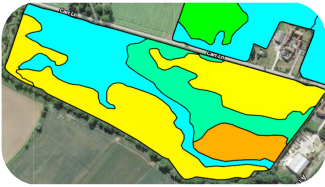### Soil Sample
Management zones are individually sampled. Results determine the variation of nutrients and texture across your farm

Nutrient Map
Recommendations are created using nutrient or texture results to optimise inputs

Application
Variable rate maps generated reduce the limiting factors and optimise your yield. The plans are compatible with all major variable rate controllers

Explore digital packages

BASE

The Base package is the entry point into precision farming. Improve in-field decision making with our range of powerful tools.

Satellite imagery
We source satellite imagery to assess the crop biomass, health and performance. This imagery can be used to create management zones and variable rate applications, subject to the package you have chosen.

Weather data
The satellite and radar data we source is accurate up to $1km^2$ and provides you with decision making tools such as when to drill based on soil moisture, or surface windspeed to plan optimum spray window.

Pest and disease forecasting
Our P&D models can be used to better plan applications. They are weather driven, providing granularity and forecast at your individual farm level.

Mobile scouting app
Our scouting app Contour Mobile provides quick access to in-field observations and satellite imagery, enabling targeted crop walking. Aid communication and joint decision making by sharing findings with your agronomist.

Crop growth stage
We derive crop growth stage estimations from radar, satellite imagery, weather data and drilling dates. These also tell you more information about the crop structure, such as Leaf Area Index (LAI) and Biomass helping you to determine crop growth stage and yield potential.

Soil data
Soil information such as classification, organic matter and calcium levels are provided by Cranfield and James Hutton Institute. Integrate your farm's historical soil data onto the platform at any time.

ESSENTIAL & ADVANCED

The Essential package provides simple access to variable rate planning and also includes all the Base features. Choose either nutrient (N, P&K, Lime) or seed as an option to either improve establishment or increase yield. Choosing the Advanced package gives you access to planning for two inputs and maximises the benefits you receive.

Seed

Easily create variable rate seed plans based on chosen imagery layer or other data available. Address variation in your soil and improve establishment.

Nutrient

React to crop variance in season with biomass imagery. Optimise nitrogen applications to target spend. Choose to variably apply other P&K or lime products based on the soil nutrient levels.

Optional support

The Essential and Advanced packages can be supported by a dedicated FACTS qualified account manager to interpret the data and assist with the decision making throughout the year.

PREMIER

The Premier package offers an integrated approach to optimising all inputs and includes all of the Base, Essential and Advanced features. This package is serviced by an account manager who will work with you maximise your investment, incorporating our full precision and digital package.

Nutrient management plan

Apply the same level of thought and accuracy to your seed and nutrition, as you do your crop protection applications.
Fieldwork is essential to create a nutrient management plan. Upload your data at any time, or speak to a RHIZA account manager to book your fieldwork.

Digital Technology Farms

The ten national DTFs are a way to demonstrate and test the benefits of RHIZA and host further development of digital and data-based information systems. Our account managers have access to these latest results, so they can provide you with the best advice based on precision and Agrii R&D data.

FACTS

Remain compliant with support from a FACTS qualified advisor, to sign off any nutrient management plans created.

"

I've been using RHIZA for 4 years and it has now become an everyday go to tool helping me make informed decisions on the best course of actions for our crops.

"

Peter Cartwright
Revesby Farms, Farm Manager

"

You only have one set of soil. Understanding and measuring with RHIZA gives you the ability to optimise your inputs.

"

Sam Fordham
RHIZA, Technical Manager

"

NDVI images showed up any in-field variations on my farms which was a valuable tool to allow me to prioritise areas of the fields to investigate further when crop walking.

"

Katy Downie
Agronomist

RHIZA's Contour Mobile

Remote digital agronomy from your mobile

ℤ A simple tool used on thousands of farms which you can use offline

ℤ Scout and record over 260 pests, weeds and diseases

ℤ Track problem areas across your business

ℤ Monitor every hectare and share observations with other users

ℤ Crop walk in conjunction with NDVI, GCVI, EC scan and SOB maps

ℤ Data is date and geo stamped

ℤ Simple to use

ℤ Used on thousands of farms

ℤ Optimise yields while targeting nutrients, reducing costs and risks

ℤ P, K, Mg and pH soil analysis information

ℤ Use in conjunction with RHIZA desktop platform

ℤ Available with every package

Observations in three simple steps

RHIZA

For more details regarding our services or how RHIZA can support you to obtain the optimum yield from every field, please visit www.rhizadigital.co.uk