



Omnia

Digital Farming



Maximise time and efficiency



Multiple users at no additional cost



British system for British farmers



Real time stock and inventory



All information in one place



Capture knowledge on the go

➤ **Translating data into knowledge**



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▶ We have complete control of our data, the ability to plan and then fine tune prescriptions before they are issued is a must in our climate, Omnia delivers that and more.

Andrew Booth, Savock Farms, Aberdeenshire



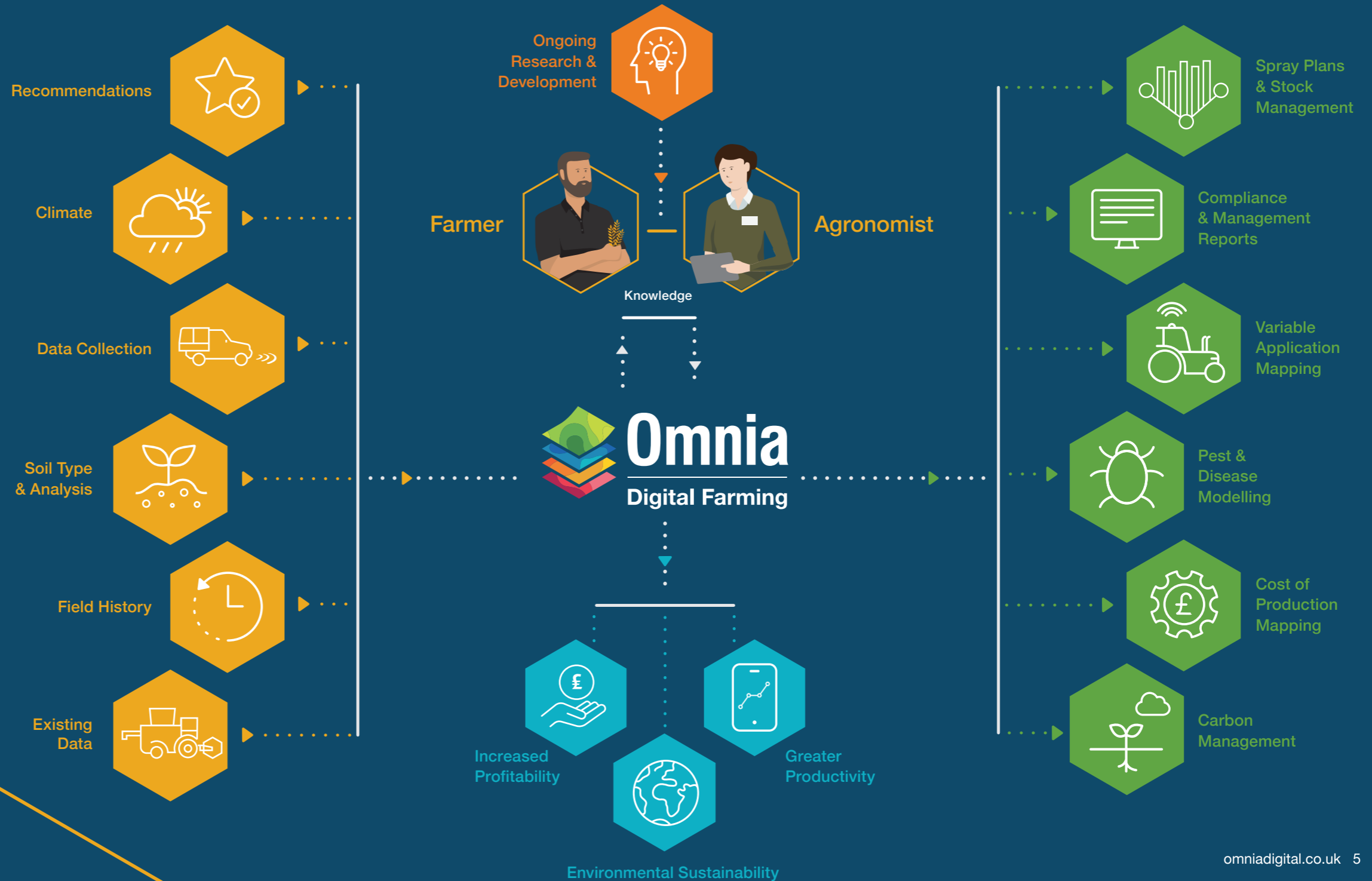
Translating Data Into Knowledge

Developed with the farmer and agronomist partnership in mind.

Omnia is a revolutionary digital farm management and recommendation system that analyses information from a variety of sources, for better informed decisions. With all your information in one place, Omnia will save you time.

We take data security very seriously and hold both ISO 27001 'Information Security Management' and Farm Data Principles certifications.




Visit our website for more information.



Omnia Packages

Each service is tailored to your needs and can be delivered by a specialist.

Omnia Access is a free entry point to Omnia. The Field and Business Manager packages are priced according to farm size and requirement.

	Omnia Access 	Omnia Field Manager 	Omnia Business Manager 
Fields Module	✓	✓	✓
Map Layers Module	✓	✓	✓
Data Imports	✓	✓	✓
Reports Module	✓	✓	✓
Climate Module	✓	✓	✓
Scout App	✓	✓	✓
Satellite Imagery		✓	✓
Pest & Disease Modelling		✓	✓
Nutrition Plans & NVZ Compliance		✓	✓
Seed Plans		✓	✓
Field Diary with Task Management	✓*	✓	✓
Stock Management		✓	✓
Spray Plans		✓	✓
HALO Crop Protection Audit			✓
Variable Rate Prescription Plans			✓
Field Performance Mapping			✓
Production Cost & Gross Margin Analysis			✓

*Extra functionality available for Hutchinsons Group agronomy clients



› We have been impressed with Omnia, as we have been able to make changes to what we are doing in a quick, efficient manner and we have not had to make a huge investment to do this.

Nick Wilson,
Hundayfeld Farm, Yorks



Omnia Access

Map Layers

Capture your thoughts and knowledge in one place

Map layer transparency and filters allow you to see what you need - all of which can be used to create reports.

- › Weed and slug pressure
- › Drainage
- › Pictures
- › Environmental features
- › Trial areas
- › Drone imagery
- › Tracks and field access points
- › Buffer zones
- › Irrigation equipment
- › Special points of interest

Never lose paper maps again, with the ability to load them into Omnia or manually draw them into Omnia's market leading 'Map Layers' function.



Omnia Access

Connectivity

Omnia can hold all your information in one system. There is no need to input data multiple times when connecting to machinery, so you can operate with maximum efficiency.

Omnia supports all common format standards from across the industry to ensure data transfer is quick and easy.

- › Import/Export common file formats
 - › Seamless links with third party apps
 - › Wireless data transfer
 - › Smartphone/Tablet applications
-
- › Omnia has made it super easy for us to import and export data with multiple platforms and brands. We are yet to find something Omnia doesn't work with.

Roy Fisher,
Airdrie Farming, Fife

Some features not available with Omnia Access



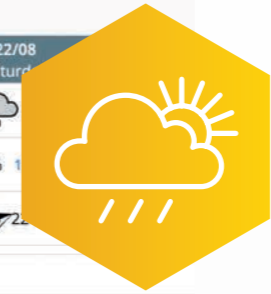
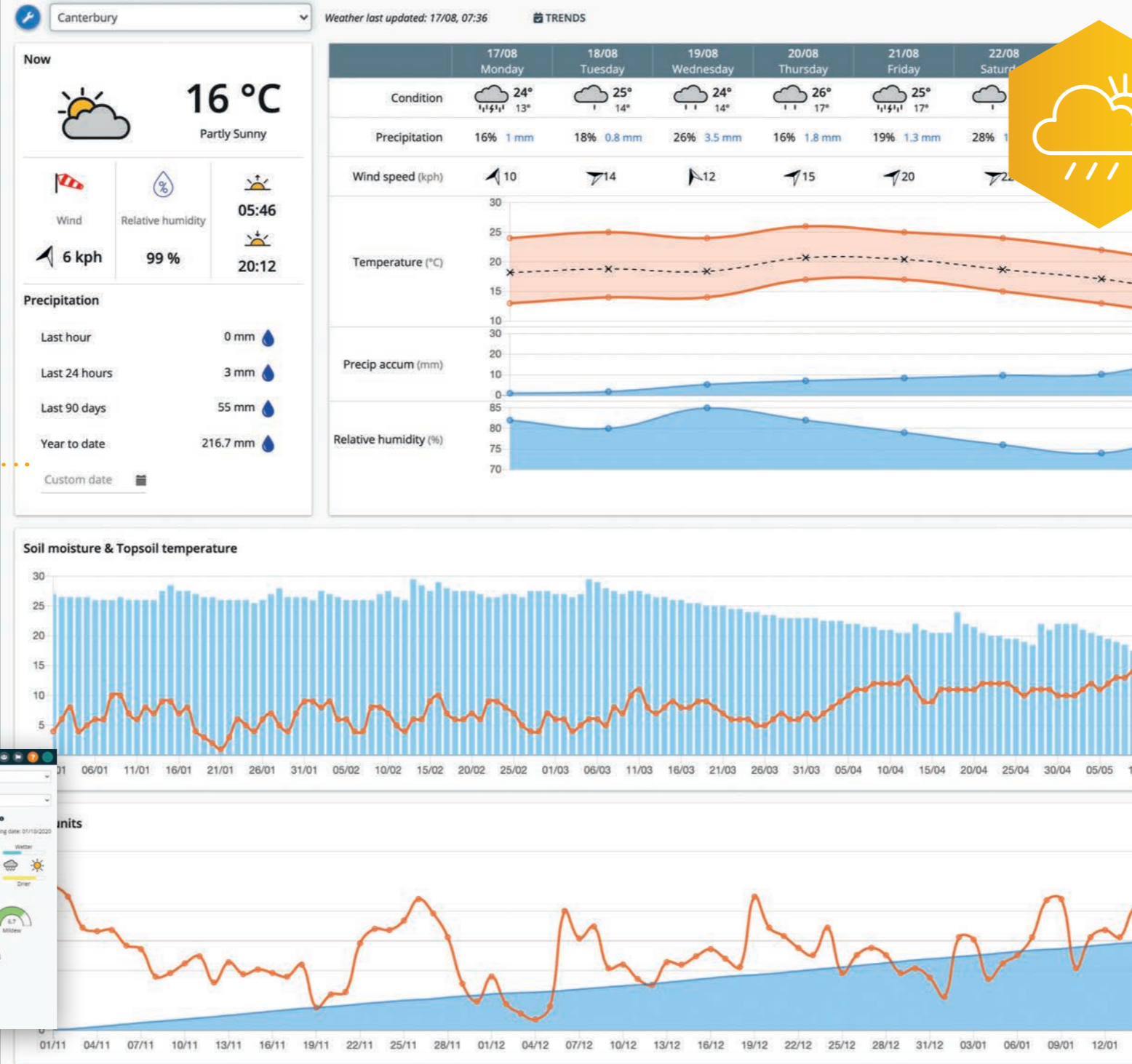
Omnia Access

Climate Insight

Specific to your situation

- › Long term weather trends
- › Historic weather data
- › Soil temperature and moisture charts
- › Crop growth stage modelling
- › Pest and disease forecasting – optional email alerts
- › Wind speed and solar hours

Some features not available with Omnia Access

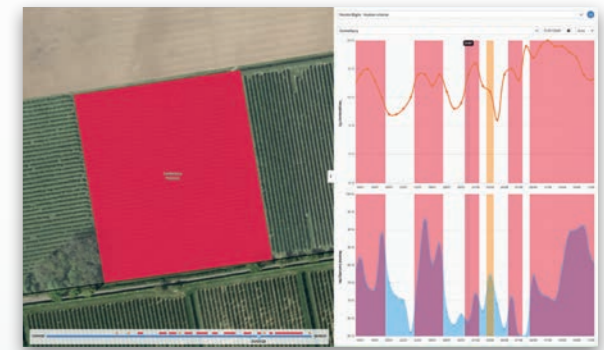


An Innovative Solution

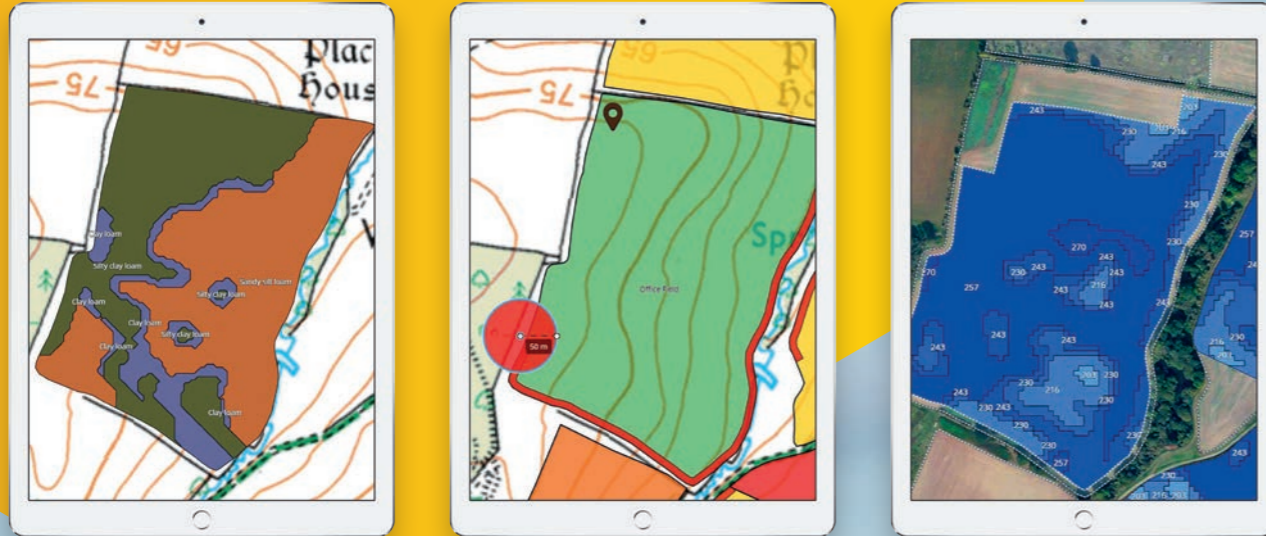
Get weather forecasts accurate to 1km² of a virtual weather station for a 10 day period.

Several stations can be placed on the holding, and fields can be associated with individual stations.

You can also view historic data which makes record keeping and treatment justification much easier.



Accurate management of manure and fertiliser



➤ It all comes down to the same requirement; using manures to maximum benefit, saving money where fertiliser is not needed, reducing harmful impact on the environment, whilst complying with NVZ rules.

Michael Howie,
Morwick Dairy, Northumberland



Omnia Field Manager

Nutrient & Manure Management

Meeting Rules for Water and easing burden of NVZ regulations

Maximising Nutrient Use Efficiency

Omnia delivers unrivalled whole field nutrition planning to help manage optimum uptake. Calculations are fully justified to meet specific farm needs, including Nitrogen breakeven ratio.

Regular soil sampling can be included for P, K, Mg and S. Other essential soil attributes can be measured including:

- pH
- Organic Matter
- Cation Exchange Capacity
- Micronutrients

Manure Management Planning

Manure and slurry should be treated as a valuable resource of nutrients and organic matter.

An Omnia manure management plan is split into five specific sections:

1. Risk Map
2. Farm Limit
3. Field Limit
4. Storage
5. Imports and Exports

Use your manures to maximum benefit and reduce harmful impact on the environment.



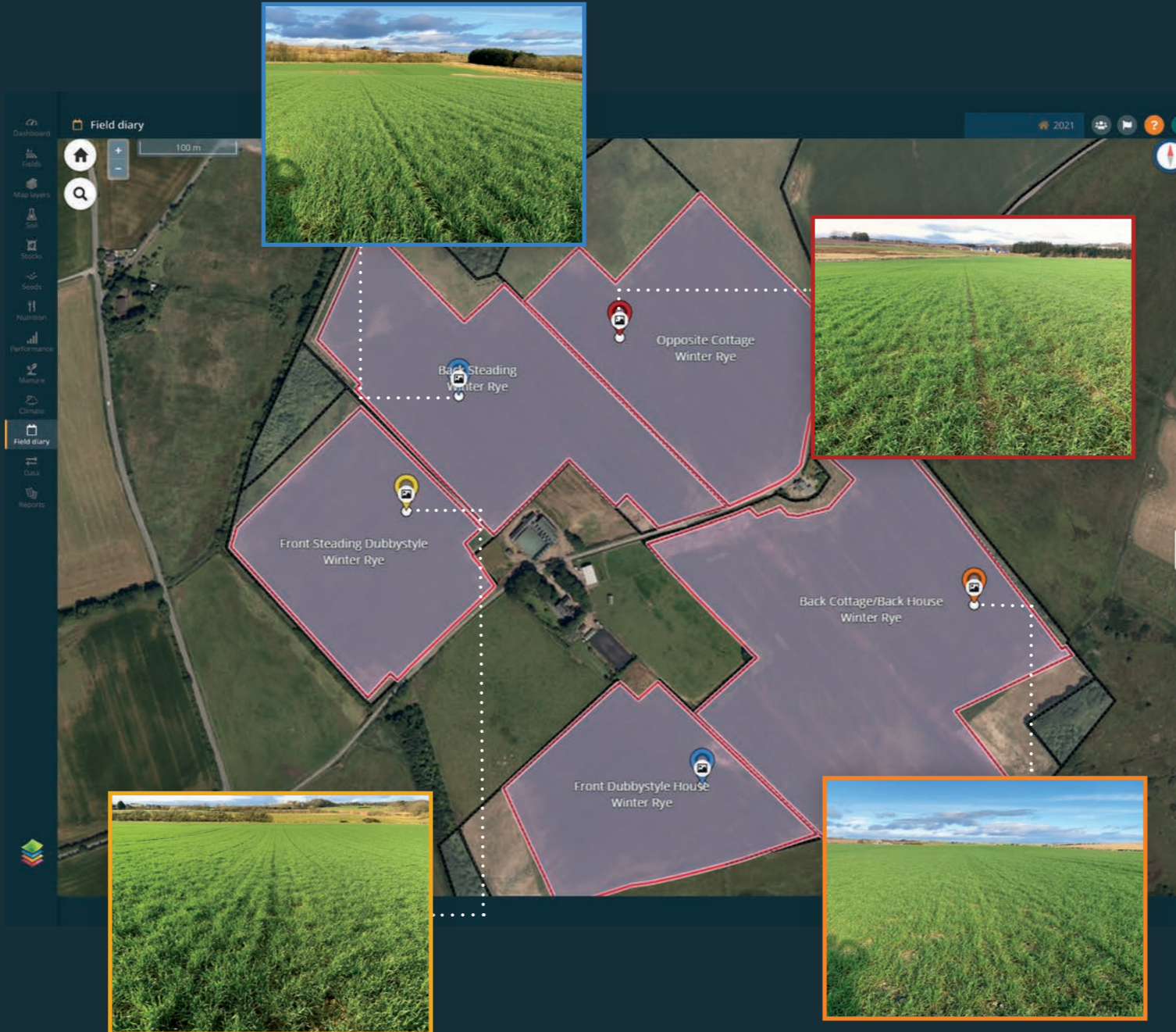
Field Diary

Field Diary allows you to plan tasks and record operations and field inspections throughout the season.

With paperless records, you can be more productive planning farm operations and save time when creating compliance reports.

Task Manager

- › Create and plan tasks for any operation across the farm, from drilling and spreading to spraying and combining
- › Assign tasks to operators
- › Seed, nutrition, or spray plans can be included in tasks
- › View tasks by calendar, crop, field group, plan type and status



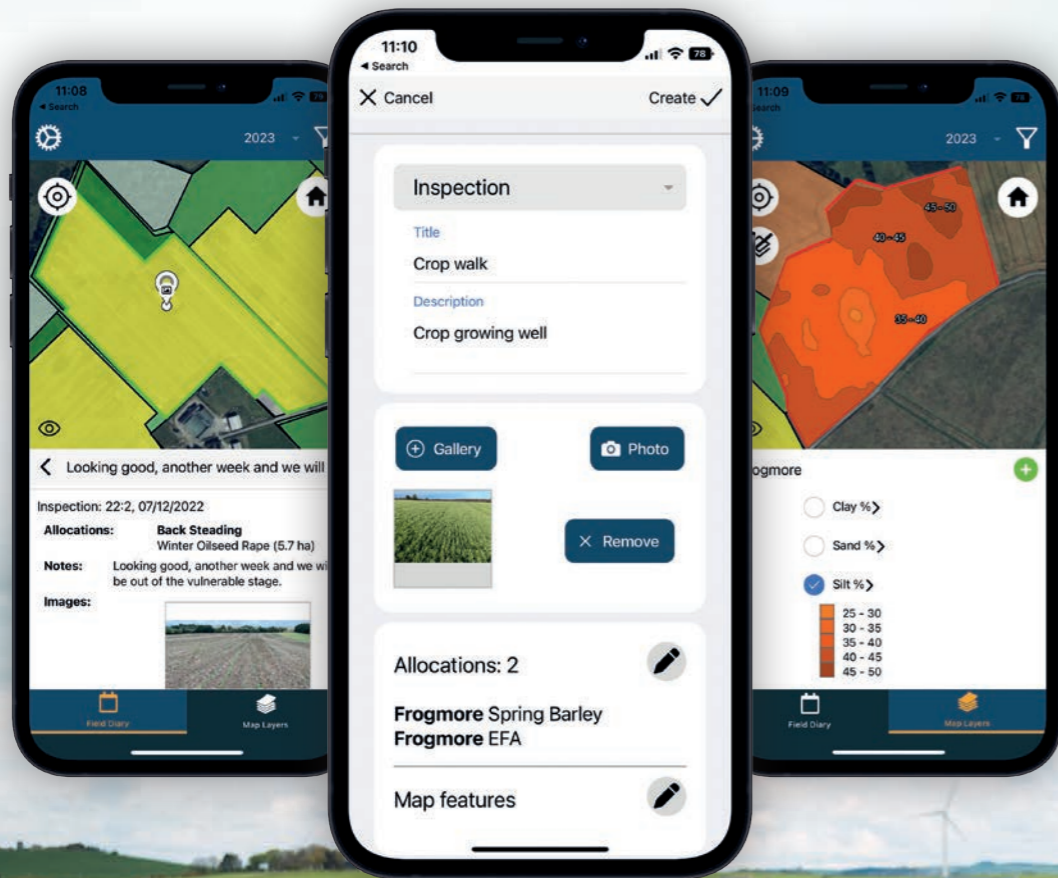
Tasks

- › Farm operators can view and complete tasks assigned to them
- › Manage activity for paperless record keeping

Records

- › View/Record inspections and operations
- › Confirm application of plans
- › Store and view crop pictures
- › Create reports of diary entries
- › Enhance traceability and justifications
- › Interactive tank mix tool

Use the Scout app to record activity and complete tasks on-the-go.



› The Omnia Scout app has been really useful to get my clients to record fertiliser and manure applications quickly and easily – this helps me with crop nutrition requirements and also keeps them compliant with legislation.

Jim Clark, Agronomist, Cumbria



Omnia Field Manager

Omnia Scout

The Omnia Scout app allows you to view and record activity on the go, so you can keep up to date with what is happening in the field.

It is intuitive to use and extends your use of Omnia, wherever you are.

- › View/Add/Edit layers
- › Add field inspections
- › Add field operations
- › Farm operators can complete tasks on their phone or tablet using the 'Tasks' tool
- › Interactive tank mix tool

Data captured on the Omnia Scout app flows seamlessly into Field Diary.

Dashboard

Fields

Map layers

Soil

Stocks

Seeds

Nutrition

Manure

Climate

Field diary

Business

Data

Reports



Satellite imagery

LAYERS

IMAGERY



Omnia Field Manager

Satellite Imagery

Whether you are looking to monitor crop development and health over the season, create variable Nitrogen plans, or scout fields; Omnia satellite imagery has you covered.

View available Sentinel 2 data and choose which images to save as layers against your crops.

- > RGB True Colour
- > NDVI
- > Chlorophyll Index



Stock Management

Manage stock levels in real time across multiple sites.

- › Keep an accurate record of stocks in your stores
- › Inventories can be edited by multiple users
- › Produce stock records as required
- › Interactive stock tables to find out information about stock items
- › Get an alert when pesticides are approaching their legal end of use date
- › Keep track of stock financial costs and values

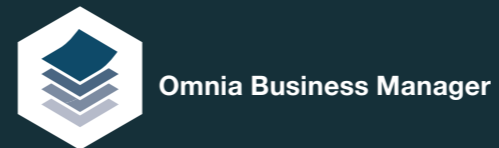




Spray Plans

Create and manage your spray plans in Omnia. Whether you make your own spray plans or use an agronomist, we have created a range of unique tools to make the process easy and efficient.

- > Automatic tank mix sequence
- > Intuitive interface
- > Map based field selection
- > Tools for part field and headland options
- > Easy split plan function
- > Product approval information



HALO Auditing Database

Pesticide audit reassurance with our HALO system.

Audited spray plans with our bespoke HALO crop protection database available through Omnia Business Manager.

- > Uses industry standard regulatory data
- > Checked and enhanced daily by our in-house experts
- > 15 comprehensive checks to ensure spray plans are compliant with crop protection legislation



Connected

Save time with your data in one place



Compliance

Industry regulatory data

Reassurance

Checked by experts daily





Omnia Business Manager

Targeted Nutrition

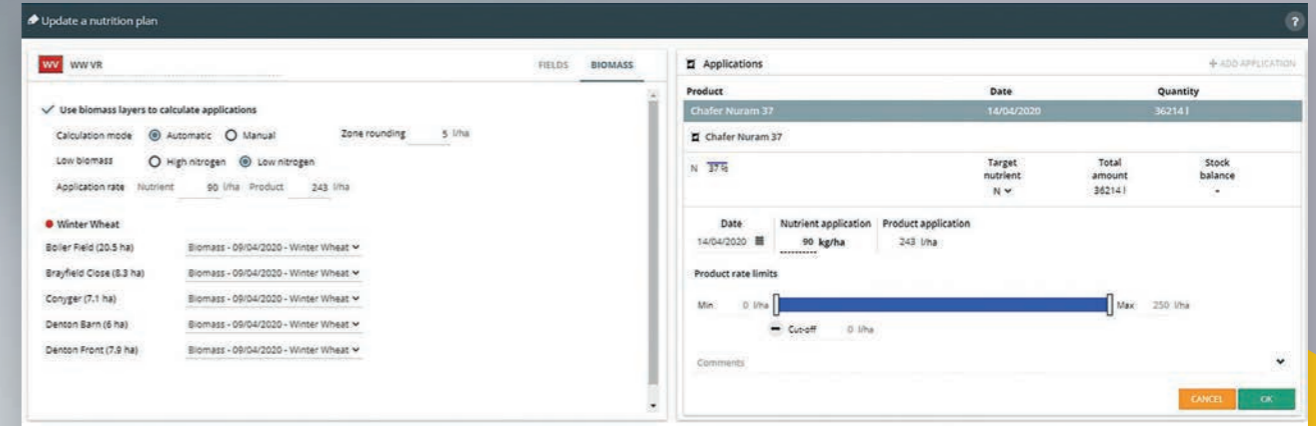
Supplying crop demand accurately and cost effectively.

Omnia offers effective solutions to managing variable fertiliser applications.

- › Optimise fertiliser use for yield and quality
- › Increase applications to low or high biomass areas
- › Vary liquid or solid fertiliser applications
- › Use satellite imagery data
- › Compliance with Rules for Water
- › Nmax calculation

› We used to blanket treat everything, but now fertiliser is only applied where it's needed.

Daniel White, Bottisham, Cambs



Target nutrients where they are needed most

Compare historic and recent analysis to determine the actual crop demand accurately and cost-effectively.

Soil sampling results can also be uploaded into the software.



Omnia Business Manager

Targeted Seed Rates

Variation in crop establishment within a field can be considerable.

Using the crop type, variety and anticipated drilling date Omnia suggests a target plant population, which you can modify to meet your individual situation.

Maps of soil types and additional factors such as seedbed condition, weed or slug pressure, can then be overlaid.

A seed rate map that matches the agronomic requirement of the field more closely than ever before.

Without a uniform plant stand you are always playing 'catch up' and have already lost potential.

Chris Wade,
Graham Wade Farms, Lincs



Increase yields by 0.6t/ha
Reduce blackgrass tillering by 50%



WEED PRESSURE: High
WEED TYPE: Black grass
MAP YEAR: 2019

SEEDBED CONDITION: Good
GERMINATION RATE: 95%
TGW: 57

SLUG PRESSURE: High
CROP TYPE: Winter Wheat
PREVIOUS CROP: OSR

SOIL TYPE: Sandy Clay Loam
DATE: 20 October
TARGET PLANTS: 320



Omnia Business Manager

Financial Performance

Providing the tools to assess in field profitability and gross margins.

Explore the financial performance of a field, taking account of variable application of inputs and yield maps, to give a greater level of understanding than ever before.

The business planning tools allow you to focus on the areas where you can make the biggest difference, assess alternative cropping and mitigate risk.

The screenshot displays the 'IMAGERY' tab in the software. On the left is a sidebar with navigation options: Dashboard, Fields, Map layers, Soil, Stocks, Seeds, Nutrition, Manure, Climate, Field diary, Business, Data, and Reports. The main map area shows a satellite view of a farm with various colored overlays representing different data layers. Three prominent callouts are visible: 'Variable Costs' with a wheat bag icon, 'Direct Costs' with a tractor icon, and 'Output' with a milk can icon and the text '100t @ £280/t'. A 'Cost of Production Mapping' header is also present. At the bottom, a 'Production' summary window is open, showing a table of financial data for 'Winter Wheat'.

Item	Value	Unit
Target Yield	308.88T	
Budget Price/T	£220	
B/Tonne	£68	
Actual Yield	153.84T	
Actual Price/T	£246	
B/Tonne	£38	
Actual Price/T	£246	
B/Tonne	£38	
Actual Price/T	£246	
B/Tonne	£38	
Actual Price/T	£246	
B/Tonne	£38	

Below the table, there are sections for 'Variable Costs' and 'Fixed Costs/Operations' with their respective values and units.

» We really wanted to drill down into our costings but we had never been able to do this accurately, until now.

Andrew Mason,
Low Lindrick Farms, Yorks



Soil Samples Taken and Data Processed

Data is collected by scanning and taking reference soil samples.

The raw scan, soil data and soil samples are combined and processed to produce high-definition soil property layers.



Measures Four Naturally Emitted Isotopes

The TerraMap system uses passive gamma-ray detection technology to map all common nutrient and physical soil properties.

The scanner, which is manufactured by SoilOptix® Technology, measures Caesium, Uranium, Potassium and Thorium.



800 Reference Points Per Hectare

TerraMap produces the highest resolution soil mapping layers at over 800 data reference points per hectare.

In comparison, grid sampling map layers have only a single data point per hectare.

› TerraMap offers a big jump in accuracy.

Charles Parkinson,
Manor Farm, Lincs

TerraMap

TerraMap is a soil service that enables better informed decisions for crop management and soil stewardship.

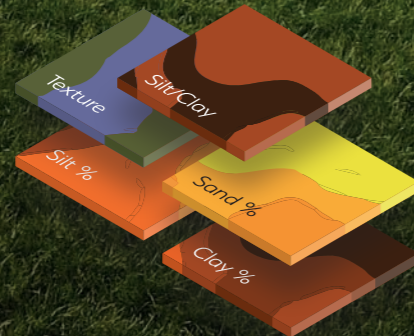
- › Measures and maps common nutrient properties
- › Defines soil textural changes within the field
- › Provides more data points, greater definition and more detailed soil maps than any other system in the world
- › Use data to produce variable rate application for seed and crop nutrition
- › Tailored to the specific soil conditions with unprecedented accuracy
- › The TerraMap Gold service measures soil's 'plant available' and 'non-readily available' nutrients, allowing greater understanding of soil dynamics



Standard Properties



Soil Texture



Other Properties



Additional Elements



SoilOptix® is the registered trademark of SoilOptix Inc. and is used under license.

Hardware Solutions

iPad Variable Rate Solutions – Streamline your precision farming operations.

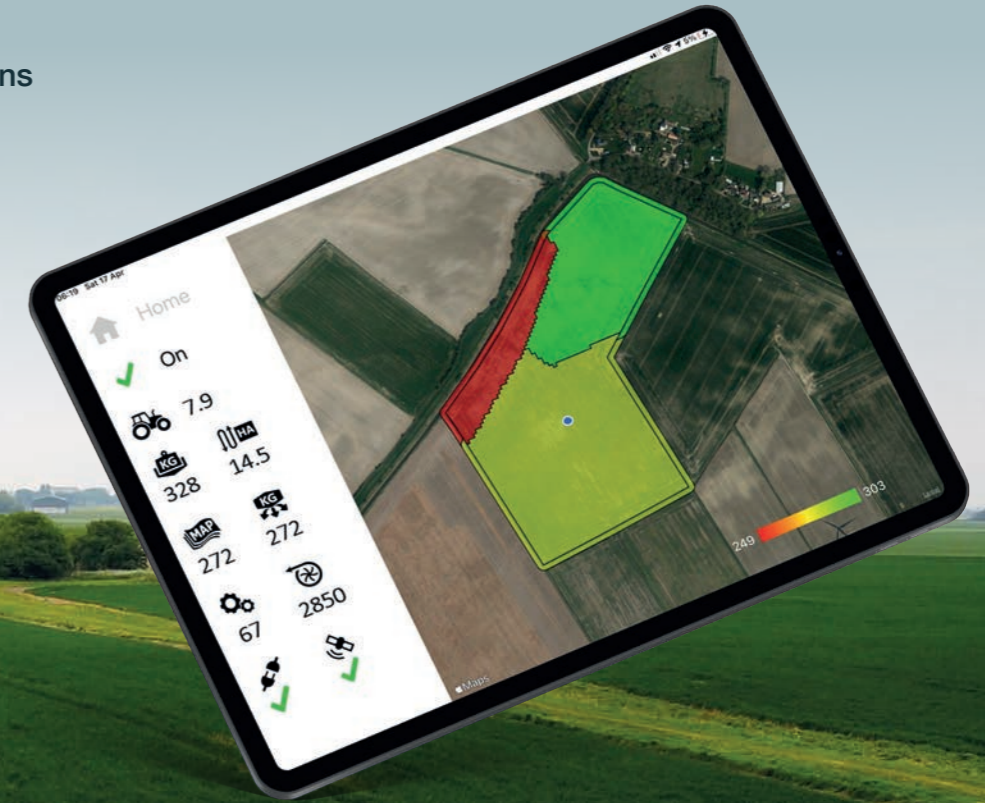
Connect and E-Seed are low cost solutions that have been designed to simplify precision farming. The iPad apps allow you to seamlessly and instantly send variable application maps created in Omnia to the field, and control the machines as well.

- › Cost effective
- › Intuitive
- › Greater control
- › Wireless data transfer
- › Improves efficiency
- › Wide range of compatibility

Visit the Omnia website for a full list of compatible machines.

› iPad Variable Rate Solutions

Streamline your precision farming operations



Omnia Connect

Easily connect your drill, spreader, or sprayer to an iPad for variable rate applications. A low cost solution to enable variable rates where you do not have GPS rate control technologies.

Omnia E-Seed

Upgrade any mechanical drive drill with the E-Seed conversion kit. Variable rate drilling is now possible with the land wheel replacement electric drill module.



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of our Omnia services contact:

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HUTCHINSONS
Crop Production Specialists

MB24