

# Euralis Adopts Farmstar to Optimise Crop Production

Case Study

## Challenge

Provide regular and reliable agronomic guidelines for 2,100 hectares of wheat and rape fields for the Euralis cooperative.

## Solutions & Results

Roll-out of the Farmstar solution to apply the right dose, in the right place, at the right time.

## Benefits

Optimised inputs for higher yields, improved wheat protein levels and reduced costs.



“ I previously used the same amounts of fertiliser on all my crop lands. With Farmstar, my management is much more informed. By monitoring the status of my crops, I have reduced fertilising by 25 units.”

Nicolas Ponsan, GAEC HOURAT in Mont-Disse

“ Farmstar is an effective tool for calculating just the right input of fertiliser and crop protection products per plot. ”

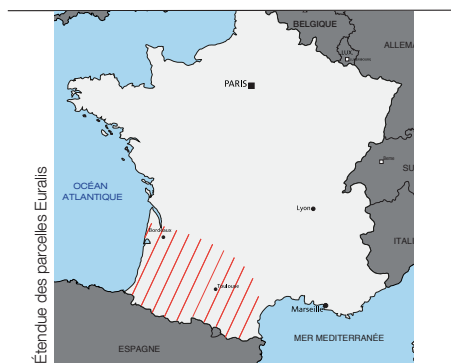
Daniel Salviac, Euralis Director and hard wheat producer in Bourg-Saint-Bernard



## Challenge

Euralis, a farming cooperative based in South-West France, was in search of a solution for its farmers to optimise their production and improve crop yields.

It also wanted to support them in the discovery and management of new species. This required regular monitoring of crop lands and reliable agronomic guidelines. Airbus proposed its decision tool Farmstar for the 2014-2015 crop year and beyond. The aim was to provide farmers with appropriate guidelines to improve management of fertiliser input and better protect crops from seeding through to harvest.



## Solutions and Results

This Farmstar campaign resulted in the acquisition of some twenty cloud-free satellite images between December 2014 and May 2015, very easily obtained by the SPOT 6/7 satellites thanks to their high agility and daily revisit capability. Their 1.5 metre resolution and 60km swath mean they are excellent assets for farming applications. The agronomic reports supplied on key dates by Farmstar result from a unique combination of remote sensing and agronomic expertise, and make lighter work for farmers in managing their crops. These guidelines can be imported into tractormounted modulators to automatically control inputs during spraying. The accuracy and reliability of Farmstar guidelines make it a real Decision Support System (DSS) which can also be used to justify nitrogen amounts to the authorities. Thanks to Farmstar, Euralis wheat yields have exceeded average local levels by 10-15% (7-11 quintals per hectare), which represents €145 to €225 of additional revenue per hectare.

Similarly, the wheat protein level has increased by 0.8 points from the cooperative's average level. Finally, savings of 10% on nitrogen input for wheat and 17% for rape compared to previous years has reduced environmental impact and lowered costs for farmers. During the first

year of Farmstar use at Euralis, 110 farmers subscribed for an equivalent of 2,100 hectares, a surface area that should double over the next year.

## Organisation Involved



Euralis is a farming cooperative based in Lescar, in the South-West of France



Arvalis - Institut du Végétal is a research organisation and a leading player in French agriculture.



Terres Inovia (ex-CETIOM) is a French technical institute responsible for research and development for agriculture. It specialises in oil and protein crops.

## Benefits

- Higher crop yields thanks to precise crop land management.
- Improved wheat protein quality by tailoring inputs to plant needs.
- Financial savings thanks to controlled investment in nitrogen inputs.
- Full leverage of the latest agricultural equipment solutions thanks to the compatibility of Farmstar guidelines with the various dose modulators managed by GPS.
- Compliance with the EU Nitrates Directive and respect for the environment thanks to the reduction of chemical inputs and/or justification by the Decision Support System.

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