



TerrAria

INFORMATICA | AMBIENTE | RICERCA



PRECISION FARMING SOFTWARE

Web platform to support precision farming



Where technology meets the soil

A digital solution to support agronomists and agricultural businesses during key stages of the season

A software solution developed through a collaboration between TerraAria s.r.l. and leading companies in the agricultural sector, with the aim of providing agronomists and farms with a technological tool to support them during key periods of the growing season



Data, maps and analyses that boost productivity day by day

Since 2016, the application has grown significantly, demonstrating the high scalability of its architecture. In total, 5'023 businesses are using this service to improve the quality and productivity of their land.



30K
SHAPES



1.8K
USERS



159GB
IMAGES



5K
COMPANIES



1.37M
NDVI



81K
SAMPLES

Plant life cycle



Functions common to all stages

- Draw or import KML files of agricultural field boundaries
- Download of files that can be used directly on agricultural machinery (shapefiles, KML)
- Reporting

pre-sowing

Soil preparation and treatment

- Definition of the sampling grid within the field
- Maps of soil analysis parameters (e.g. organic matter, nutrients, pH)

sowing

Planting

- Definition of a sowing plan specifying the quantities to be sown, which vary across the field depending on the NDVI index or the specific soil parameters of the field

growth

Plant care, monitoring and fertilisation

- Assessment of plant health and stress using satellite index maps (NDVI, NDWI)
- Fertilisation plan with field-variable application of individual nutrients

harvest

Crop ripening and harvesting

- Yield maps
- Electrical conductivity maps



TerrAria is an innovative SME founded in 1999 in Milan and boasts extensive experience in developing platforms dedicated to environmental protection

It currently has a multidisciplinary team of 25 staff members.

Governance and environmental energy models

It assesses environmental impacts in order to develop policies for pollution reduction, mitigation and offsetting, as well as for energy efficiency, using a modelling approach.

Software design and development

The IT department develops Decision Support Systems (DSS), engineers open-source and cross-platform solutions, and creates WebGIS for the provision of georeferenced services (thematic maps).

Research and development

TerrAria is very active in establishing partnerships for European and regional funding schemes, either as lead partner or as a partner. TerrAria has secured funding through more than 15 schemes, including LIFE, ESA, UIA, IEE, Interreg and FP7.

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