

Precision Agriculture and the Sustainability of Agricultural Systems

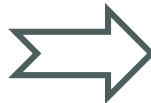
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[Catalogo delle Competenze](#) e [Progetti e Contratti di Ricerca](#)

RESEARCH ACTIVITIES:

- Real-time monitoring systems for spatial and temporal variability of soil and crops.
- Variable-rate application of agronomic inputs for environmental sustainability.
- Comparison of remote and proximal sensing technologies (satellites, UAVs/drones, proximal sensors) for detecting biotic and abiotic crop stress.



SERVICES OFFERED:

- Technical and scientific support for the adoption of innovative precision agriculture solutions aimed at improving both environmental and production sustainability.
- Scientific support for enhancing the precision of agronomic practices (irrigation, fertilization, and crop protection) and for reducing the use of agricultural inputs.
- Development, processing, and interpretation of crop vigor, yield, and prescription maps to support variable-rate applications of fertilizers and water.
- Scientific assistance in the preparing farm management plans, Rural Development Programme (PSR) applications, and regional and national funding proposals focused on the implementing precision agriculture technologies (sensors, decision support systems—DSS, variable-rate technologies—VRT, and yield mapping).