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SMART FARM & AGRI-ENVIRONMENTAL BIG DATA VALUE



The AgriDataValue project is funded by the European Union under Grant Agreement No. 101086461. This publication reflects the views only of the author, and the Commission cannot be held responsible for any use which may be made of the information contained therein.

AgriDataValue: Climate & Agri-Environmental Intelligence

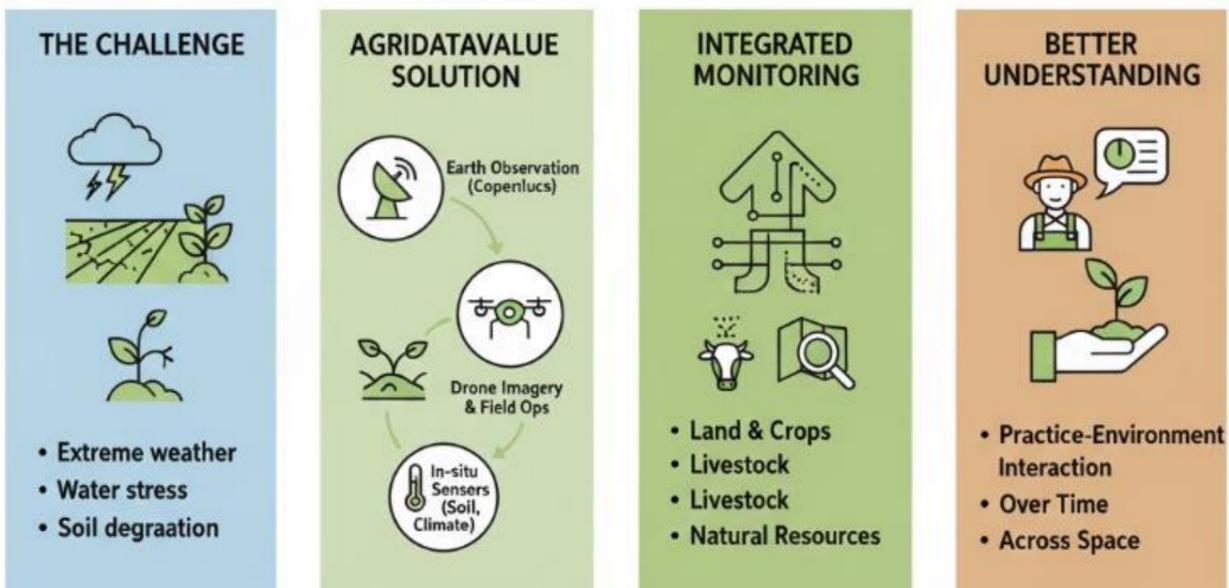
Monitoring Agriculture in a Changing Climate

Climate change is already reshaping agricultural landscapes across Europe. Extreme weather events, shifting rainfall patterns, soil degradation and increasing water stress are affecting production systems, ecosystems and rural communities.

AgriDataValue strengthens agri-environmental monitoring by integrating multiple sources of information:

- Earth Observation data from Copernicus
- Drone-based imagery and targeted field observations
- In-situ environmental, soil and climate sensors

By combining these data sources, AgriDataValue enables continuous and objective monitoring of land, crops, livestock and natural resources. This integrated perspective supports a better understanding of how agricultural practices interact with environmental conditions over time and across different spatial scales.



From Observation to Climate Resilience

Beyond monitoring current conditions, AgriDataValue develops **climate impact and projection models** that help anticipate future risks and support medium- and long-term planning.

The Climate & Environment toolbox enables:

- **Assessment of climate vulnerability at farm and regional level**
- **Monitoring of soil health, water quality and emissions**
- **Evaluation of land use, biodiversity and environmental practices**
- **Support for climate-related CAP requirements and policies**

By linking observed data with climate projections, AgriDataValue transforms environmental information into **actionable knowledge**. This supports adaptation strategies, risk-aware decision-making and evidence-based policy development, helping agriculture become more resilient in the face of long-term climate and environmental change.