



AQUAGRI-KNOW Operational Groups

Empowering farmers with practical knowledge and innovative solutions for efficient on-farm water management

Operational Groups (OGs) are at the heart of rural innovation in Europe. These EU-funded partnerships bring together farmers, researchers, and other experts to co-create and test practical solutions directly in the field. AQUAGRI-KNOW amplifies this work, acting as a bridge to share the knowledge and successful outcomes from these projects, ensuring their innovative and practical solutions can benefit farmers across Europe.

Operational Groups in Italy



Country Challenges: Drought has become a particular concern in Italy since the turn of the century, with 5 severe drought periods in the last 20 years.



Operational Groups in Italy



Innovare



Focus: WaterSmart crops

Duration: 2019-2022

Implemented an automated platform for the intelligent, sustainable management of crop water requirements. By using real-time data from soil sensors and aerial systems, the system led to substantial water savings and a 12.47% increase in red tomato yield.



Nitrati Ferrara



Focus: Water-soil interface

Duration: 2016-2019

Developed agronomic practices to reduce nitrate losses by increasing soil organic matter. The project markedly reduced nitrate leaching and decreased the water footprint by around 5%.



InnovaLegumi



Focus: WaterSmart crops

Duration: 2020-2022

Introduced a legume–cereal rotation to enhance soil fertility and sustainability. Farmers benefited from lower reliance on synthetic nitrogen fertilizers, improved soil structure, and reduced water use.

Learn more about AQUAGRI-KNOW Operational Groups and discover how innovation is shaping sustainable water use in European agriculture



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the European Union**

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