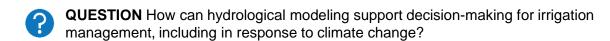




Evaluating the effectiveness of risk reduction strategies

Understanding natural hazard risk management in Italy

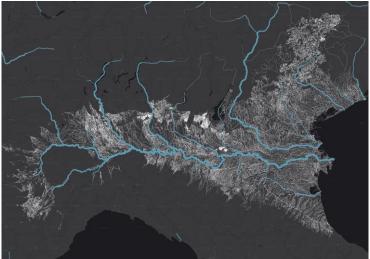
Agricultural Irrigation Demand Analyzer - AIDA



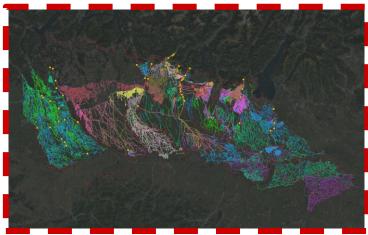
OBJECTIVE To provide continuous and accurate information on water flows and volumes associated with agricultural production.

DESCRIPTION AIDA combines the latest methodologies for producing weather data for the Italian territory with the best available data on soil properties and crop-specific agrohydrological modelling. This will allow the generation of information on irrigation needs for individual crops in specific cultivation areas. These insights will be available for the entire national territory at a 1 km resolution, distinguishing between crops and also offering higher resolution zoom-ins for specific areas.

HOW IT WORKS By analyzing soil data (available water content and maximum infiltration rate), weather/climate data (precipitation and evapotranspiration), as well as crop and irrigation data, a digital twin will be created to support water management policies for agricultural use.







Analysis of command areas

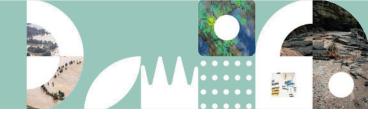


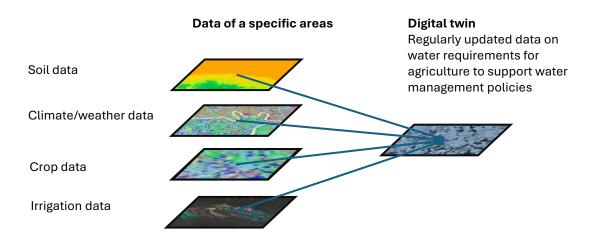














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"Impact-based decision making allows the prioritization of strategies for targeted future investments."











