Research activities of the Department address a variety of hydraulic, technological, economic, agronomic, genomic and environmental aspects to make agricultural water use and reuse more sustainable and efficient.

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Department of Agricultural and Food Sciences - DISTAL

Adaptation strategies to climate change

Digitalization and precision irrigation

Environmental aspects and water reuse

Agrometeorology and agroclimatology

Effects of climate change on soil-plant-atmosphere relations and crop water balance

Drought stress effects and strategies to improve water use efficiency

Identification of drought tolerance and adaptation traits through genomic and phenotipical studies

Sustainable water use in agro-industry plants

Economic assessment of the impact of climate change on agriculture

Georeferenced maps and variable rate irrigation

Monitoring water status through soil and plant based sensors

Decision Support Systems (DSS) for irrigation scheduling

Strategies to reduce crop water use: application of Regulated Deficit Irrigation (RDI)

Economic assessment of new technologies and new policies analysis

Monitoring the **chemical** and **physical** water quality

Developing wastewater **depuration strategies** and new solutions for organic and inorganic pollutants abatements

Nature based solutions

Developing new **phyto-** and **bio-remediation** strategies

Agronomical effects deriving from the use of wastewater for irrigation

Microbiological risks deriving from the use of wastewater

Hydraulic and **environmental** aspects related to the water management at regional level

