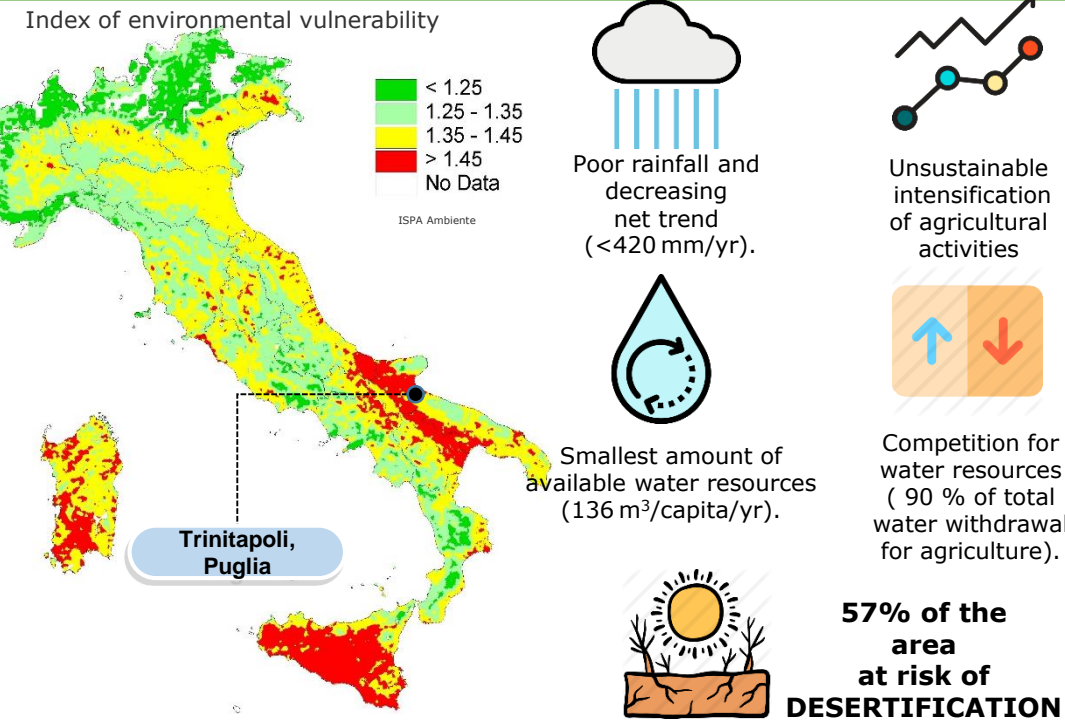


REUSE OF TREATED WASTEWATER FOR SUSTAINABLE AGRICULTURAL MANAGEMENT IN SEMI-ARID AREAS: THE CASE OF TRINITAPOLI, ITALY.

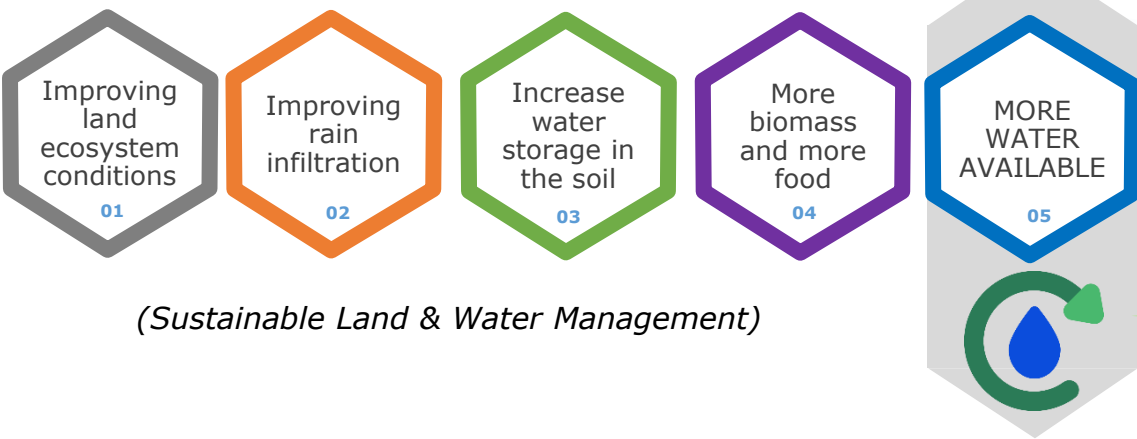
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CONTEXT AND CHALLENGE



FACING THE AGRICULTURAL CHALLENGE



Ensuring the availability of ENOUGH, good-quality water is a major challenge in combating desertification.

Wastewater Reuse:
A concrete tool to help areas where water scarcity is already a reality today.

THE EXPERIMENTATION OF TRINITAPOLI



IMPACTS

- 1.3 Mm³/yr Freshwater Supply.
- Combating soil salinization through washing, and aeration of the topsoil.
- Increase soil microbial Activity. C/N ratio decrease up to 45%.
- Preventing of land Erosion, rate 2 - 5 ton/ha/yr.
- Restoring soil nutrient Depletion. 45 kg ha⁻¹ of N & 90 kg ha⁻¹ of P.
- 500 Ha Potentially Irrigable Area.
- Improvement in the physical structure of soil.
- Increase capacity of the soil to store water, Augmentation of micropores (<0.01 μm) in the soil matrix.
- Maintenance of soil productivity, Cumulative 480 ton/ha.
- Contributing to a sustainable local economy, >5 M€ /yr.
- Preserving Groundwater exploitation. Min. 1500 m³/ha.
- Avoiding eutrophication & acidification of receiving waters and associated habitats.
- Improve carbon sequestration in soils.
- Reducing risk and uncertainty.
- Avoid Soil reclamation Cost (lime, manure, Gypsum).

FOR MORE INFORMATION



Interreg IR₂MA



<https://www.interregir2ma.eu/>

Acknowledgments:
 IR₂MA - Large Scale Irrigation Management Tools for Sustainable Water Management in Rural Areas and Protection of Receiving Aquatic Ecosystems.
 Project co-funded by European Union, European Regional Development Funds (E.R.D.F.) and by National Funds of Greece and Italy.