

CICLICA PRIMA

Smart Agriculture optimization to
Climate Change Adaptation



PARTNERS:



Financial Support has been provided by PRIMA; a program supported by the European Union. Project ID 1727.

This activity is part of the R&D Project Ref. N° PCI2022 – 132959 funded by MCIN/AEI/10.13039/501100011033/ and by "NextGeneration EU/PRTR"

Principal Investigator of TUM at CICLICA PRIMA

Dr. Omar Hijazi, Research Assistant and Lecturer at the Technical University of Munich, TUM.



[linkedin.com/in/dr-omar-hijazi-747b211b](https://www.linkedin.com/in/dr-omar-hijazi-747b211b)

What is the focus of TUM at CICLICA PRIMA?

TUM research staff is focused on add value to the CICLICA Project and achieve its noble objectives by **working alongside like-minded individuals in order to make a tangible difference in creating a greener and more sustainable future.**

Describe the role of TUM at CICLICA PRIMA

A huge proud reason for TUM at the CICLICA project, is the fact that goals and objectives are totally aligned with make a positive impact on the environment and society.

At the CICLICA Project, TUM's role **revolves around conducting comprehensive research on sustainable practices, analysing data to identify areas for improvement, and devising strategies to promote eco-friendly initiatives within the project.**

Furthermore, the collaboration with the diverse team which make up this international consortium ensures the actions keep aligned with the project's mission and values.

How does TUM do it?

By addressing several critical issues in the EU countries.

Environmental Sustainability: One of the main concerns in EU countries is the degradation of natural resources, deforestation, and pollution. The CICLICA Project aims to promote the farming systems in the Mediterranean region based on agrolological principles, to face the growing pressures from natural resources degradation and climate change, through:

- Introduce integrated on-farm practices aiming to mitigate the impacts of abiotic stresses over crop health and productivity.
- Boost the sustainable balance between agricultural productivity and ecosystem services, considering the application of low-quality water and non-conventional-water for irrigation, managing water quantity and quality during irrigation using superabsorbent polymer, crop-water productivity, soil health, and environmental footprint. By encouraging eco-friendly initiatives, the project seeks to mitigate the environmental impact and create a healthier ecosystem for present and future generations.

Community Empowerment: The CICLICA Project recognizes the importance of community involvement and empowerment. By fostering strong partnerships with local stakeholders, the project ensures that decisions are made collaboratively, considering the unique needs and aspirations of the communities. This approach fosters a sense of ownership and active participation, enabling sustainable development at the grassroots level.

Which are the expected impacts?

i) **Environmental Restoration:** The project's sustainable practices will contribute to the restoration of ecosystems, promoting cleaner air and water, and preserving biodiversity. This will **positively impact the overall health and resilience of the environment.**

ii) **Socio-Economic Development:** The CICLICA project will help create a more inclusive and economically vibrant region. Increased income and improved livelihoods will **enhance the quality of life for many individuals and families.**

iii) **Empowered Communities:** Through active community involvement, the project will empower local residents to become agents of change in their own communities. This empowerment will lead to a **greater sense of responsibility and collective action towards achieving sustainable development goals.**

What's the importance of this work?

Overall, **the CICLICA Project's comprehensive approach** to environmental sustainability, poverty alleviation, and community empowerment **promises to create a lasting and positive impact in the EU countries, setting the foundation for a more prosperous and sustainable future.**

Keep posted at

<https://www.ciclica-prima.org/>

<https://www.linkedin.com/company/ciclica-prima/>