



REPORT 11

2 ZERO HUNGER



2025



Ambassador of SDG 11

Pr. Lamia MOKADDEM



The University of Tunis El Manar: Advancing Sustainability through Education and Innovation

PAQ Collabora Assur Cereals Project

The overall objective of the PAQ Collabora Assur Cereals project is to contribute to reducing Tunisia's trade deficit in the cereal sector. Specific objectives include supporting agricultural risk management related to drought and strengthening the capacity to process satellite imagery for climate adaptation.

The project is implemented by a consortium of five partners, led by the National Engineering School of Tunis (ENIT), and includes CTAMA, APAD, CNCT, and the Bizerte Competitiveness Pole. It was funded to support the doctoral research of Nesrine Abid in Hydraulic Engineering, whose thesis was defended in 2018. The project contributes to developing indices that facilitate the adoption of drought insurance by cereal producers and stakeholders in Tunisia's cereal sector.

FIT4REUSE: Sustainable Water Solutions for Agriculture

The FIT4REUSE project will develop integrated water management and wastewater treatment systems through applied research and cogeneration technologies. By bridging the gap between agricultural water needs and treated wastewater reuse, the project will provide sustainable solutions for the agricultural sector.



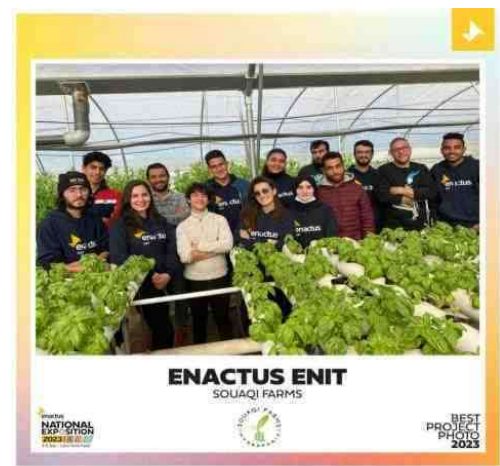
The initiative will also introduce innovative technologies and analytical tools to address challenges in water quality and agricultural water management. Methodological frameworks and assessment instruments will be specifically designed to support the project's objectives and enhance water reuse practices.

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Enactus: Advancing Social Innovation Through Entrepreneurship

Enactus is a global network of leaders dedicated to leveraging business principles to drive positive social and environmental change. Its mission is to educate, inspire, and empower youth to address pressing global challenges through innovation and entrepreneurship. In Tunisia, Enactus Tunisia coordinates and promotes this vision across higher education institutions, fostering a culture of impactful student-led initiative



Enactus ENIT: Student-Led Innovation in Sustainable Agriculture

Enactus ENIT is a nonprofit student association based at the National School of Engineers of Tunis (ENIT), operating under the coordination of Enactus Tunisia. Composed entirely of ENIT students, the association focuses on developing projects that combine engineering expertise with entrepreneurial action to address local and national challenges.



SOUAQI Project: Hydroponic Solutions for Sustainable Agriculture

The SOUAQI project, initiated by three doctoral students in biology and qualified hydroponics trainers in collaboration with Enactus ENIT, addresses critical agricultural issues such as excessive water consumption and pesticide use. By promoting soilless cultivation techniques, the project achieves a 90% reduction in water usage and eliminates the need for pesticides.

Key achievements of the SOUAQI project include:

- Establishing a distribution network for unprocessed organic agricultural products.
- Raising awareness and providing training in hydroponics for enthusiasts and aspiring agripreneurs.
- Launching nine hydroponic projects across Tunisia, showcasing the scalability of this approach.

By integrating engineering, agriculture, hydroponic technology, and digital tools, SOUAQI represents a transformative model for sustainable farming in Tunisia. It not only addresses immediate environmental challenges but also creates new opportunities for innovation and productivity in the agricultural sector.

B-CONNECT: Protecting Beekeeping Ecosystems

B-CONNECT is dedicated to supporting beekeepers and preserving their essential role within the ecosystem. The platform facilitates optimal hive placement for beekeepers and incorporates innovative security features to prevent hive theft. This initiative contributes directly to the protection of bee populations and the promotion of biodiversity.

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Living Labs: Collaborative Solutions for Environmental Challenges

1. Fish Living Lab (Gel Gintel - Bizerte)

Led by the LEDDRNA laboratory at the University of Tunis El Manar, this Living Lab addresses complex environmental issues in the Bizerte lagoon. It employs a novel approach for small-scale fisheries, analyzing the interplay between socio-economic factors—such as local industry and fishing communities—and natural conditions, including biodiversity loss and climate change.

2. Mar2Protect Living Lab (ISSBAT)

On May 23, 2024, ISSBAT organized a Living Lab as part of the Horizon Europe Mar2Protect project. The event convened researchers, industry representatives, public institutions, and civil society to co-create innovative solutions for Tunisia's groundwater challenges. The session focused particularly on groundwater recharge strategies for the Oued Souhil study site in Nabeul.

Working Workshop for Cereal Producers

A workshop titled "Productivity Index Estimated from Satellite Information and Hydroclimatic Projections" was held on October 5, 2023, at the Bizerte Competitiveness Pole.

This event, part of the Pack-Collabora Assur Cereals project, demonstrated the partnership's progress in utilizing meteorological and satellite data to support cereal production in Tunisia. Attendees learned how these tools can monitor crop health, contextualize agricultural campaigns within climate variability, and ultimately predict harvests to optimize production costs.

PRIMA SWATCH Project Closing Seminar

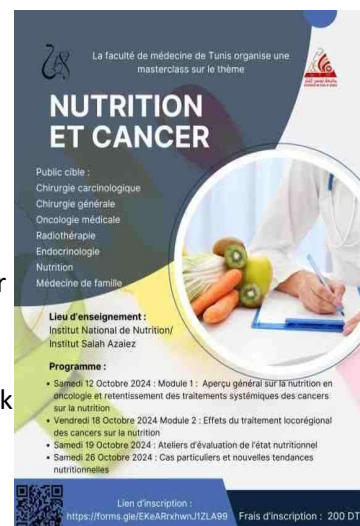
The concluding seminar for the PRIMA SWATCH Project took place on June 13, 2024, at the KANTRA agricultural training center in Siliana. The project focused on "Strategies for increasing the water efficiency of agro-sylvo-pastoral systems under climate change, in semi-arid watersheds of the Mediterranean."

Master Class: Nutrition and Cancer

April 24 – Organized by the Faculty of Medicine of Tunis

This specialized session focuses on the intersection of nutrition and oncology. Participants will develop competencies in:

- Relating evidence-based dietary approaches to cancer risk reduction
- Analysing dietary patterns associated with decreased cancer incidence
- Identifying molecular and biological mechanisms of nutrients and herbs within the hallmarks of cancer framework



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Cooperation Agreement: National Institute of Nutrition and University of Tunis El Manar

February 16, 2024

A cooperation agreement was formalized between the National Institute of Nutrition and Food Technology and the University of Tunis El Manar. The signing ceremony was attended by Mrs. Najwa Ben Amara, General Director of the Institute, and Professor Moez Chafra, President of the University.

This partnership establishes a framework for scientific and research collaboration between the Institute's laboratories and the University's research structures. During the ceremony, Professor Chafra honored both Mrs. Ben Amara and Professor Jalila Al-Ati in recognition of their significant contributions to advancing scientific cooperation with the University's research institutions.