

Future-oriented technologies and services for a sustainable land management

I-WALAMAR – Water- und land management in Morocco



Morocco is a long-standing partner country of FiW and BICC. Many projects have been realized through the financing of international cooperation such as GIZ and KfW Entwicklungsbank. A bilateral research project has now been developed on the basis of experience and networks. To this end, the Federal Ministry of Education and Research (BMBF) has made a financial contribution and the German-Moroccan research project I-WALAMAR was launched in summer 2019 for a period of 3 years. In this project, partners from both countries conduct research on innovative techniques that protect not only water resources but also the environment and soil.

Moroccan agriculture is currently experiencing intensification and commercialisation. In the Fès-Meknès region, in addition to the economic and social impact, there are also significant impacts on soil and water resources in highly cultivated areas. The large amounts of wastewater from olive processing and the discharge of municipal wastewater are, among the overuse of natural water, the main problems in the I-WALAMAR area (Saïss plateau). Soil degradation due to intensive land cultivation under semi-arid

conditions leads to increasing desertification. The climate crisis makes the situation even more difficult.

Turning residual materials into valuable materials

I-WALAMAR concentrates on the recycling of residues in agriculture. Agricultural material and sludge from municipal sewage treatment are analyzed. Residual materials which today lead to environmental pollution should help to improve resilience and fertility of soils in the future.



The aim of the I-WALAMAR project is therefore to research and implement innovative solutions for the Fès-Meknès region in Morocco in terms of local recycling, protection of ecosystem services, restoration of degraded soil and optimisation of crops

FiW has technical expertise in the management of water and environmental services and coordinates the project since July 2019. Parallel to the technical and scientific aspects, BICC also conducts social science research on the needs and requirements for innovative technologies as well as on the impact of agricultural change on people. In cooperation with research and corporate partners from Germany and Morocco, I-WALAMAR will provide practical research results for sustainable land management in Morocco.

Project overview

PROJECT TITLE

I-WALAMAR – Water- und land management in Morocco

PROJECT PERIOD

07/2019 – 12/2022

PROJECTPARTNERS

Bonn International Center for Conversion (BICC); Universität Hohenheim; Institut für Agrartechnik; Fg. Agrartechnik in den Tropen und Subtropen; FH Aachen; Institut für Angewandte Polymerchemie (IAP); Palaterra Betriebs- und Beteiligungsgesellschaft mbH; InnoAgri GmbH; SEBA Hydrometrie GmbH & Co. KG; + 8 weitere marokkanische Partner

FUNDING

SPONSORED BY THE



Federal Ministry
of Education
and Research

FONA
Research for sustainability

An Initiative of the Federal Ministry of
Education and Research

CLIENT II
International Partnerships for
Sustainable Innovations



SUPERVISED BY

German Aerospace Center e. V. (DLR)

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As a member of the JRF research community, FiW is funded by the state of North Rhine-Westphalia.

The FiW is a member of the Zuse-Gemeinschaft.

STATUS

Juni 2022