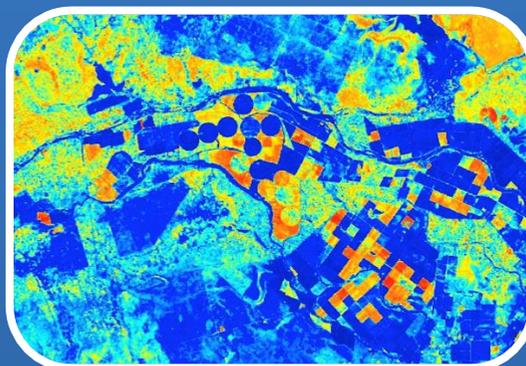


THE IWACA-TECH PROJECT

The IWACA-TECH project is funded by the Dutch Partners for Water program and brings together Dutch and Mozambican Partners. Satellite scientists, water experts, sugar producers and local operators will jointly develop a novel service for large irrigation schemes which will improve water efficiency, crop yield and water productivity without increasing the consumptive use.

Sustainable use of water resources in agriculture is becoming increasingly relevant. Climate change in combination with exponential growth will threaten production and require smart usage of vulnerable water resources throughout the world.



How will we do it

By combining smart mobile systems used by operators in the field with advanced satellite data, the project aims to boost both the water use efficiency and water productivity of large scale irrigation systems.

The measurements and control actions are performed by human operators who are guided by a mobile application. The operators dynamically interact with a control system where the system is continuously updated with satellite observations

IWACA-TECH

Improving water use efficiency at irrigation systems using advanced Remote Sensing Technology.



For more information about the project please visit our website www.iwacatech.com

or contact Nadja den Besten (ndenbesten@vandersat.com)

A software based solution that provides site-specific irrigation recommendations without the need of upgrading the irrigation system

Dutch Water Expertise

Agriculture is the largest water consumer in many river basins, and its expanding water requirements threaten the water availability for other users, including towns and cities as well as ecosystems, which include valuable estuarine and deltaic ecosystems such as mangroves and local fisheries.

Irrigated agriculture is also known to be a relatively inefficient water user. By increasing the water use efficiency of agriculture, which is one of the priority goals of Dutch development cooperation, the water security of other users will be enhanced.



“advances in irrigation technology and practices produce not only more but also higher quality plants with less water” Jim Costa

Cost-effective technology

To contribute to solving the increasing competing demands for water in river basins it is necessary to focus on the largest water consumer, irrigation. The key question is: how to do this cost-effectively? One way is to change the irrigation technology of an entire irrigation system, but changing the hardware is often too expensive or almost impossible to achieve. Our solution is to focus on alternative ways to improve current water allocation and water operations, namely through a combination of novel cost-effective information technologies that only recently have been developed.