

Innovative Sanitation Solutions & Reuse for Arid Regions (ISSRAR): Sanitation Solutions for Underserved Communities in Jordan/Azraq



With the collaboration and supervision of the :



Water Authority of Jordan (WAJ)
Ministry of Water and Irrigation (MoWI)
Ministry of Agriculture (MoA)



The **scarcity of water resources** poses a significant challenge for Jordan, acting as a constraint on economic development. Despite previous improvements, a substantial imbalance between water supply and demand persists. Therefore, the Government of Jordan places a high priority on the **efficient and sustainable management of water resources**.

Presently, households in Azraq lack a sewer system with a wastewater treatment plant, resulting in the **discharge of raw or inadequately treated sewage** into the ground from leaky cesspits and septic tanks. This uncontrolled disposal adversely **affects the environment**, particularly groundwater quality, posing a **threat to public health** due to the potential spread of waterborne diseases.

Acted Jordan's project aims to enhance the efficiency of wastewater treatment systems in Azraq by **supporting an integrated, biological wastewater treatment plant (WWTP)**. The objective is to convert wastewater streams into valuable physical and financial resources. This initiative not only increases the availability of water but also mitigates health risks caused by untreated or partially treated wastewater.

The project will **secure a supply of treated wastewater for agricultural purposes**, while fostering **increased public awareness** of Sustainable Sanitation Solutions, leading to improve living conditions and strengthen Azraq community resilience.

LOCATION

Azraq city, Zarqa governorate

DATE

01/06/2023
- 31/05/2026

DURATION

36 months

BENEFICIARIES

16,600 indirect beneficiaries
30 farmers, entrepreneurs, local authority and operators
150 water professionals, farmers, entrepreneurs, and community stakeholders

This project aligns with **SDG 6 "Clean water and sanitation"**, more precisely target 6.3 :



IMPROVE WATER QUALITY, WASTEWATER TREATMENT AND SAFE REUSE

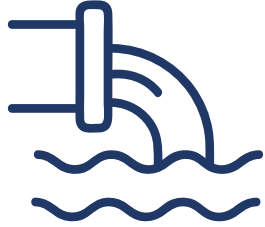
MAIN ACTIVITIES

The action is designed in a holistic three-tiered approach :

Treatment

Support the local government of Azraq to provide functioning wastewater treatment services to its citizens

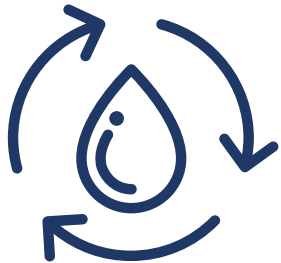
- Design, construction and operation of a **treatment plant for wastewater** /faecal sludge in Azraq with a capacity of 250 m³/d.
- Implementation of **technical and operational capacity-building measures** for the WWTP operator to ensure efficient operation.
- Development and piloting of a **quality control system** for wastewater treatment, as well as for the reuse and disposal of treated water.



Reuse

Promote the benefits and economic opportunities from using reclaimed water in greening and agriculture to Azraq community

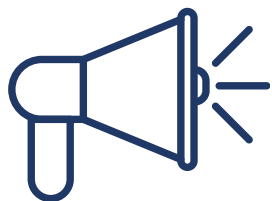
- Provide treated water of high and guaranteed quality to farmers and support them in the development of appropriate **technical and business approaches and methodologies**.
- Facilitate the **participation of farmers and agricultural cooperatives** during WWTP construction.
- **Build the capacities of 20 farmers** to develop and launch reclaimed water usage as an unconventional source of water for irrigation purposes, to reduce pressure on freshwater resources. Following the training, **10 farmers** with the highest potential business plans will be selected to receive **15,000 JOD grants** and supported in their project implementation.



Dissemination

Demonstrate to communities and local public authorities in and beyond Azraq the relevance of implementing innovative and sustainable sanitation solutions.

- Establish a **Technical Steering Committee** to exchange knowledge.
- Produce **policy recommendations** for the implementation of sustainable sanitation solutions to the relevant authorities.
- Facilitate the **replication of project's approaches and methodologies**.



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