



# SCALING UP WATER INNOVATION FOR CLIMATE SECURITY IN NORTHERN JORDAN

## KEY CHALLENGES:

Jordan's ambitions towards sustainable development are challenged by multiple biophysical and socio-economic barriers including:



Water scarcity



Rapid population growth



High unemployment rates



Land degradation



Forced displacement and migration



Limited economic resources



Low levels of technology adoption

These challenges have left individuals, households and communities vulnerable to extensive asset and livelihood losses that are expected to worsen with climate change.

## THE ISSUE:

The above listed pressures are currently exacerbated by the observed and projected adverse impacts of climate change.

Based on dynamic downscaling and future projections until 2100, Jordan is likely subjected to:

1. Warmer climate with 2.1 degree Celsius increase in air temperature at RCP 4.5.
2. Drier climate with average decrease in annual rainfall by 21%.
3. Frequent droughts with increase in maximum number of consecutive dry days and SPI magnitudes.
4. Severe land degradation.
5. Shift in rainy season at both wet seasons tails, thus impact-

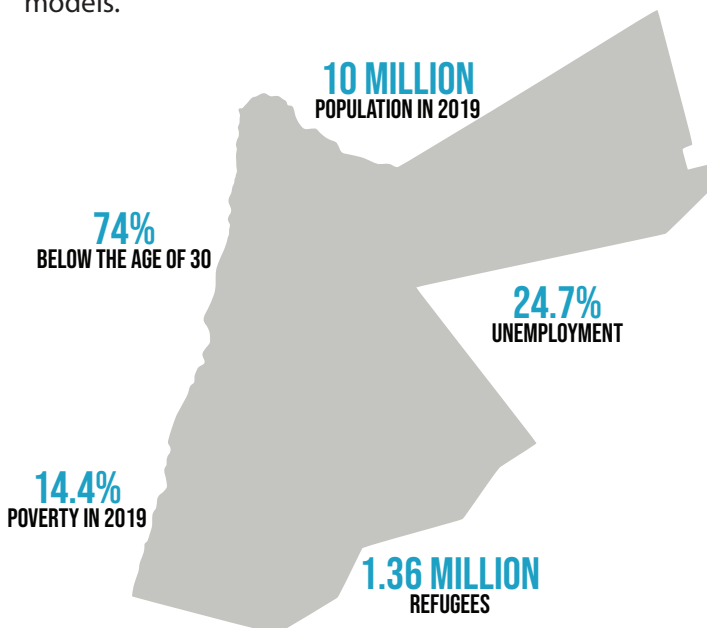
ing all sectors especially water and agriculture in achieving water and food security.

## PROPOSED SOLUTION:

1. The project will launch a call for action targeting entrepreneurs through an inclusive community outreach approach to identify eligible male and female entrepreneurs and start-ups with water innovation models to apply.

2. The project will provide one-to-one mentorship and customized business support to the selected water and agriculture innovation startups who arise as winners from the Business Call for Action, and support them in refining their business models to adapt their technologies to local market needs.

3. The project will provide water innovation start-ups with extensive training on advanced entrepreneurship skills development to improve their business and revenue models while focusing on leadership and management, innovation, targeted segments, market identification, business and financial models.





### PROJECT OBJECTIVES:

The project aims to identify and nurture innovative water-security entrepreneurs and SMEs in Northern Jordan. This pilot project seeks to contribute to multiple dimensions of sustainable development, including by aiming to create additional job opportunities for Syrian refugees and Jordanian host communities in Mafraq and Jerash.

### OUR WORK:

1. At least 10 local start-ups will receive business support training to develop and refine market-ready business models or technologies in the water sector.
2. At least 10 community-managed pilot projects for water efficiency, on-site water reuse and reclaimed waste-water systems, soil water conservation and innovative water security technologies implemented at each target governorate.
3. Fifty water users at each target governorate trained in Jordanian water reuse regulations, standards, and techniques.

### TARGETED SDGS:



**QUICK INFORMATION:**

**Project timeframe:** 24 months

**Grant:** USD 450,000

**Targeted areas:** Mafraq and Jerash Governorates



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