

Resilient Nature Based Water Solutions (RNBWS) in the Middle East and North Africa (MENA region)

Shifting productive agricultural landscapes from drivers of environmental impact to providers of environmental solutions and services.

Nature Based Solutions for Water (NBSW)

Actions to protect, sustainably manage, and restore natural and modified ecosystems that address societal challenges effectively and adaptively, simultaneously providing human well-being and biodiversity benefits, focusing specifically on addressing water resource challenges.

Jordan

Spring Rehabilitation

Lebanon

Flash Flood Management

Occupied Palestinian Territories

Spring Rehabilitation

Egypt

Land Health Management

Support and Training

Support and Training

NBSW are designed to build local community ownership of the interventions, prioritising women and youth cooperatives through establishing farmer field schools

Resilient Nature-Based Water Solutions (RNBWS)

Solutions in agricultural landscapes that strategically integrate Nature Based Solutions for Water with Agricultural Water Management. RNBWS can enhance water security and ecological agricultural production systems by improving water availability and water quality whilst simultaneously reducing water-related risks and generating a range of additional social, economic, and environmental benefits.

%40

Estimated global gap between water supply and demand by 2030

NBSW interventions increase water availability within a catchment

AWM interventions reduce agriculture demand for water

Enhanced overall water security for rural communities

Project name: Al Murunah - Building Climate Resilience through Enhanced Water Security in MENA

Project lead: International Water Management Institute

Project partner:

Funded by: UK International Development
Partnership | Progress | Prosperity

Challenges

+4°C temperature increase due to Climate Change

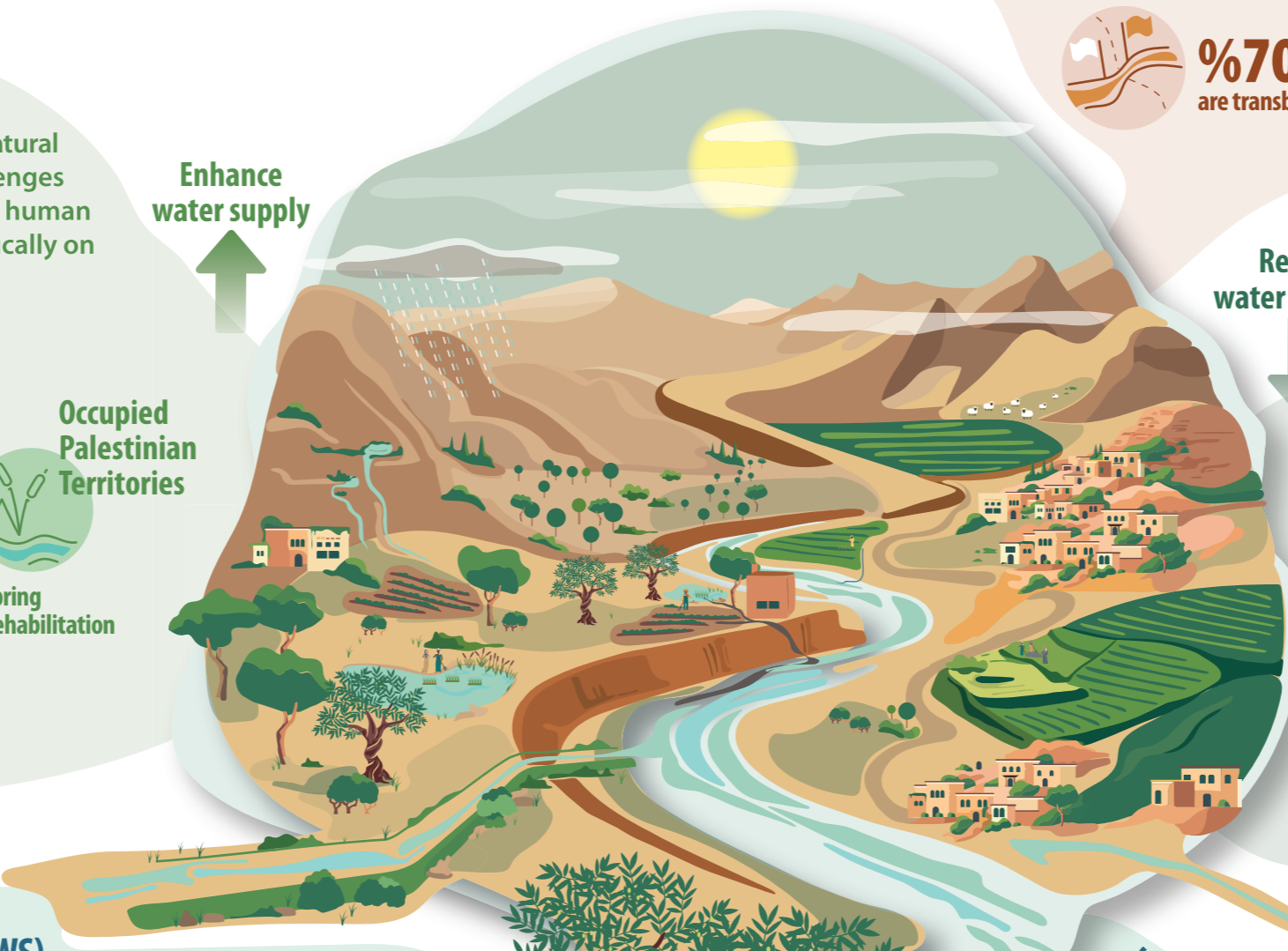
%60 of the population lives in high water stress areas

%52 of agricultural land is severely or moderately degraded

3/1 of global GHG emissions comes from the food system

%70 of river basins are transboundary

%65 of the water demand is used for agricultural activities



Enhance water supply

Reduce water demand

Agricultural Water Management (AWM)

Use of water in a way that provides crops and livestock the amount of water they need, enhances productivity, and conserves natural resources for the benefit of downstream users and ecosystem services.

Crop Selection and Cultivation Practices

Irrigation Systems and Water Storage

Support and Training – Market Scaling

Benefits of RNBWS

Provide Ecosystem Services & Promote Biodiversity

Ensure Resilient Food Systems

Improve Soil Health & Agricultural Productivity

Build Livelihood Resilience

Enhance Water Availability & Quality

Gender Equity & Social Inclusion

Mitigate Climate-Induced Water Stresses