YOUNG Mediterranean Water Heroes
Nature-based Solutions for a Water Secure Mediterranean

أبطال المياه في المتوسط
حلول مستقاة من الطبيعة من أجل الأمن المائي في المتوسط

#WaterHeroes
Water and Agroforestry for Rural Resilience in Mediterranean Agriculture - MARSADev project in Egypt
2014-2017

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Intervention Area

Bedouin communities  22,000 households, 500,000 people (2015)

Weather conditions:

• Hot summers and mild winters
• Mean annual temp. maximum 25 °C and minimum 15 °C
• Average annual rainfall 102 - 140 mm/year

October 2015 - March 2016 was exceptionally wet with about 250 mm of rainfall

Suitable Land for agriculture less than 7%
Gully erosion and abandonment: Wadi Kharrouba 2012
Gaining backing and support of local population
Innovative Solutions based on local traditional knowledge for Soil Erosion control and Water Harvesting

Land Leveling and Dikes Building
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Build cistern
Establish semicircles
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March 2016: 13 ha of reclaimed land were handed over to the local community to be planted with olives, figs and vegetables.
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**Wadi Kharouba** is equipped with instruments for detailed monitoring of the eco-hydrological behavior: soil moisture, weather parameters and discharge measurement.
In 2016 wadi Kharrouba harvested almost 50,000 m³ of water of which 18,000 m³ were still stored in the soil at the end of July.
Planting olives

Supplementary irrigation: drip system by gravity

A new variety of Vicia Faba is being tested
22 March 2016

Wadi Kharrouba is handed over
THANK YOU