

Second MEDA Water Regional Event

Marrakesh
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Comprehensive Approaches for Improving Water Management at Farm Level

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Context and Objectives


The project is implemented in Palestine and Jordan:

1. Where agriculture provides between 8 and 16% of the GNP,
2. Agriculture is using between 60 and 70% of available water resources,
3. Agriculture is facing hard competition on available resources by domestic and industrial uses.

Objectives

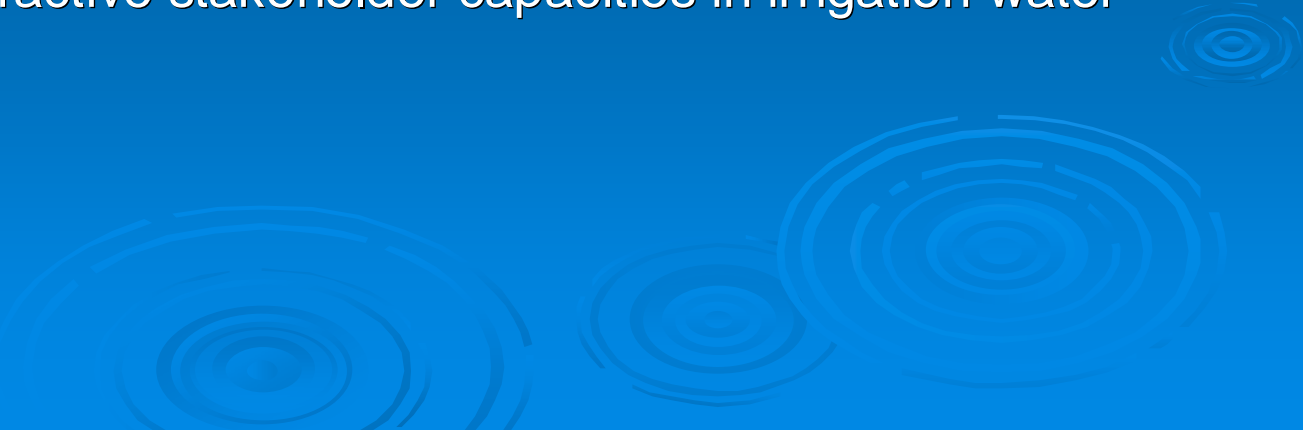
The overall objective of the project is:

Improving the stakeholder participatory sustainable water management at farm level through MEDA cooperation with Jordan and Palestine”

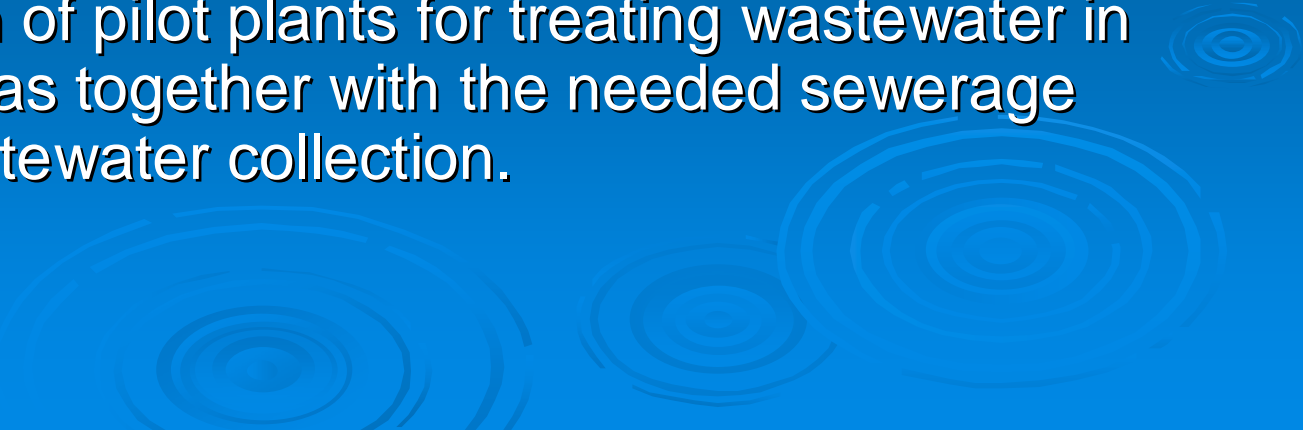
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Objectives

The specific objectives are:

1. Strengthen the interactive stakeholder capacity in irrigation water management in Jordan & Palestine.
 2. Implementation of efficient water demand management.
 3. Implementation of efficient water supply management.
 4. Establishment of effective for a for experience exchange to strengthen interactive stakeholder capacities in irrigation water management.
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The Activities

1. Rehabilitation of agricultural groundwater wells.
 2. Construction of metallic reservoirs for rainwater harvesting from the roof-tops of green houses.
 3. Rehabilitation of leaky irrigation networks and extending them to new areas.
 4. Construction of pilot plants for treating wastewater in the rural areas together with the needed sewerage lines for wastewater collection.
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Activities

5. Training of farmers on different techniques and skills, using different methods.
6. Providing the cooperatives that were established with the encouragement from the project's team with the consultancy and other institutional support.

Comprehensive approach of intervention:

The first level :

Manifest itself by complementarities of two kinds of activities :

1. Activities of Soft nature where the focus was on providing beneficiaries of support that aim at:
 - Raising skills.
 - Encourage the organization of beneficiaries in cooperative structures and provide them with the needed support.
2. **The infra structure activities at farm level and those supplying the farms with water**

Comprehensive approach of intervention:

The second level:

Complementarities that exist between the various types of interventions that focus at improvement of infrastructures them selves.

- Groundwater wells,
- Conveyance water system,
- Balancing tanks (supplying the network or at farm level)

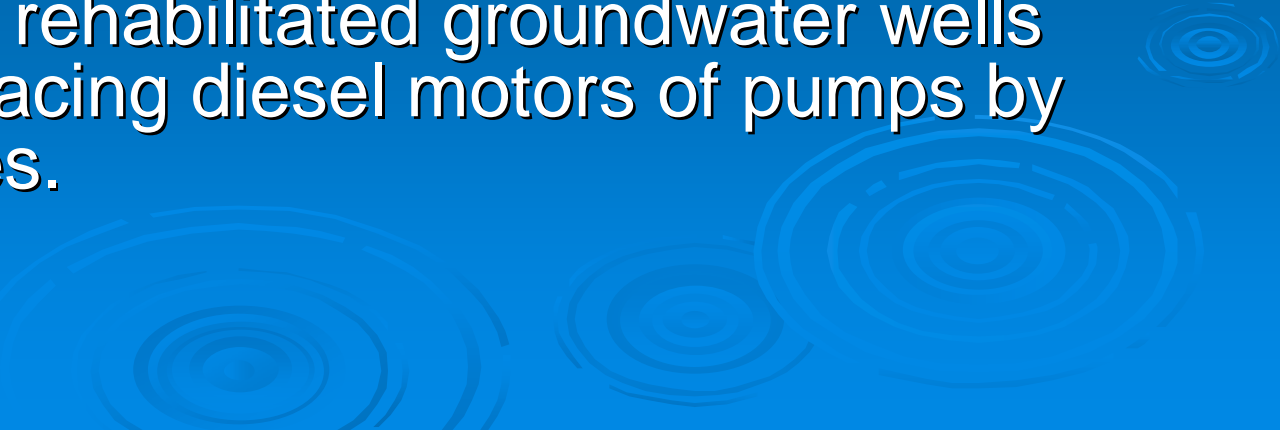
Comprehensive approach of intervention:

The third level:


Complementarities that exist between the different types of soft activities that aim at improving skills of farmers:

- Training of farmers on irrigation, IPM and other subjects,
- Demos on irrigation scheduling

The Outcomes

1. Increasing the available water resources for agriculture.
 2. Reducing the consumption of water per irrigated hectare of the various crops.
 3. Reducing the price of pumped cubic meter of irrigation water, by increasing the capacity of pumping of rehabilitated groundwater wells and by replacing diesel motors of pumps by electric ones.
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The Outcomes

4. Decreasing the bill of water at farm level through the rainwater harvesting, between 6000 – 9000 NIS/hectare.
 5. Establishment of four cooperatives of water users associations in the West Bank and Gaza.
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Metallic Reservoir Benefit

Name of Farmer	Recharging Surface Area	Served area (dunu m)	Harvested Water m ³	Water saved from purchased water	Water Saved Resulting from Tensiometer Use	Total Saved Water m ³	Price Of Saved Water (€)
Jamal Hassan	6	14	3700	2000	2700	8400	3360
Walid Radad	2.5	6.5	1450	950	1150	3550	1420
Rasmi Shhada	3	3	1800	700	500	3000	1200
Taher Amer	4.5	4.5	2400	1500	2000	5900	2360