



SWMED Technical Meeting

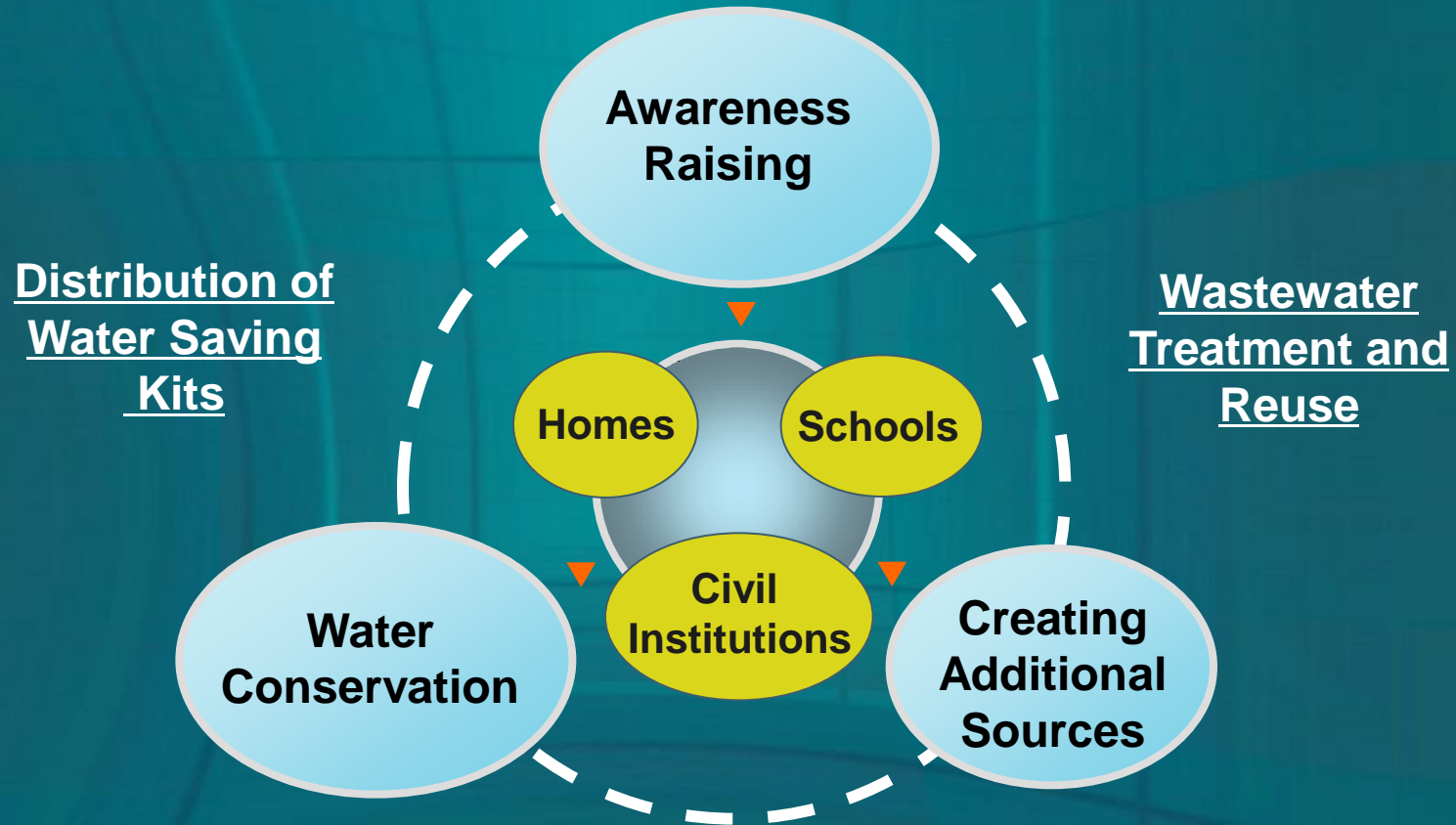
PWA Projects Relation A Holistic Approach

April, 2013

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Introduction to the Projects Relation



Integrated Management Plan
Implemented by PWA with the support of the
international donors and local institutions

“School Teachers”

Fostering the transfer of knowledge between professionals in wastewater treatment field and community.

Applying Non-Conventional Solutions” for Wastewater Treatment and Reuse

“Students”

Fostering the transfer of knowledge to next generations (teachers to students) to ensure sustainability

**“WATER FUN”
Hands, minds and hearts on water for life!**

**Capacity Building/
Awareness Raising**

Capacity Building

First Level (School Teachers)

Training Scope and target groups

The training targeted science teachers from 120 different schools spread over 11 governorates in the West Bank.

Training Subjects

Participants learned about untreated wastewater impact, treatment processes, reuse options, and how to apply the knowledge they gained and transfer it to their schools.



Selected Models for Wastewater Treatment Systems –Discussed in the Training Course

Anaerobic Wastewater Treatment Systems: Upflow Anaerobic Sludge Blanket (UASB)



Second: Aerobic Wastewater Treatment Systems: Extended Aeration System



Third: Low Cost Domestic Grey Water Treatment Systems: Fermentation tank (Gravel Filter



Forth: Natural Wastewater treatment Systems: Constructed Wetlands

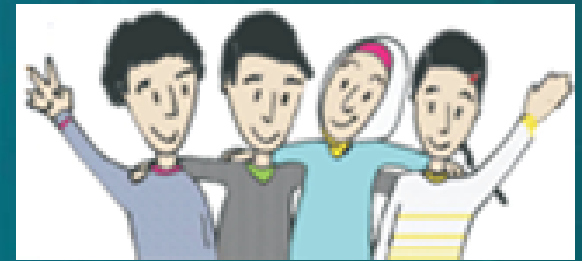


Recommendations

- Communicating with, educating, and training school teachers in wastewater field and include field visits in the process.
- Integration of students in environmental protection activities through science projects, competitions and awards to stimulate their creativity.
- Increasing environmental awareness in the Palestinian community, focusing on green schools concept.

Capacity Building

Second Level (Water Fun Program)



Training Scope and target groups

- This training is part of the SMART project “Sustainable Management of Available Water Resources with Innovative Technologies”. In cooperation with MoE & PHG
- The training targeted the science/environmental teachers of the 6th-9th grades in 65 schools distributed over the West Bank area

Training Subjects

Participants learned about untreated wastewater, reuse options, and how to apply the knowledge gained from this training course to their own schools.



Wastewater Treatment & Reuse Program

6 schools will be selected from the 65 schools to have wastewater treatment plant for the grey water treatment, the selection criteria includes:

- The commitment of the school in implementing the water fun program,
- The availability of the area,
- Proximity and networking with other schools to maximize the field visits and “learning by doing” activities to cover not only the selected school but also the nearby others.

Water conservation program

Supplying 280 water saving kits, that will be provided to:

- Municipalities,
- Schools,
- Mosques,
- Houses.

This activity will be supported by the SWMED project, the selection criteria and the expected impact of this activity will be discussed thoroughly in the 2nd technical session.

Next Steps

Support and enhance the principle of “from science to application” through the following activities:

- Support the school labs with the needed instrumental tools to examine the water quality in addition to the treated wastewater quality produced by their school's WWTP,
- Provide the Bachelor and master degree students with the needed tools for their scientific research.