

Capacity Building Workshops

Non-Conventional Water Resources Management: Local Solutions Communicating Water Trends & Innovation to Engage Locals and Tourists

Malta, 12-13-14 November 2019



The Non Conventional Water Resources Programme in the Mediterranean

Programme overview



www.youtube.com/watch?v=hxyVDFWaXY&t

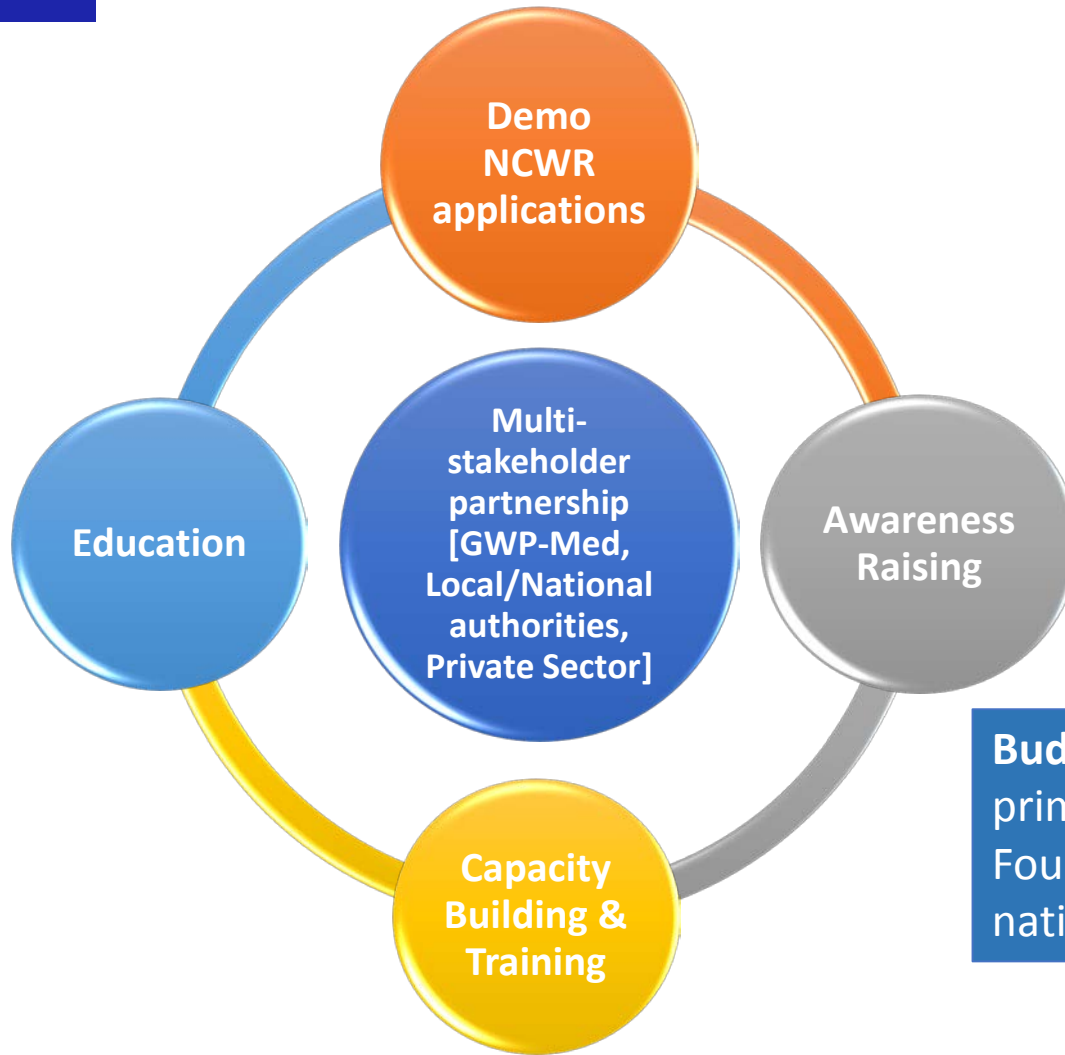
NCWR

NON CONVENTIONAL WATER RESOURCES
- PROGRAMME IN THE MEDITERRANEAN -

The Geography & the Partners



The Methodology



Budget: > 5 million USD, primary by The Coca-Cola Foundation, co-funded by national and local authorities

REVIVING TRADITIONAL WATER MANAGEMENT PRACTICES

Challenges

- Increasing water demand
- Decreasing precipitation due to climate change
- Abandoning remarkable local craftsmanship to harvest rainwater





Reviving traditional water management practices

LESSONS

1 Modern means can revive traditional water management practices

2 Our heritage points to cost-efficient and sustainable water solutions for our future



PROMOTING INNOVATIVE NON CONVENTIONAL WATER RESOURCE MANAGEMENT TECHNOLOGIES

Challenges

- Greywater and treated wastewater remain untapped
- Desalination is the main source of water in most islands
- Agriculture ranks at the top of water consumption



Promoting Innovative Non Conventional Water Resource Management Technologies

LESSONS

1 Showcasing innovative water technologies promotes use, replication and scaling up of solutions

2 ICT based solutions can optimise irrigation with water



OPTIMISING EXISTING INFRASTRUCTURE AND ACHIEVING WATER EFFICIENCY

Challenges

- Aged water infrastructure causes extensive water and energy losses
- Old system design and existing capacities cannot cater for extended needs and increasing demand



Optimising Existing Infrastructure and Achieving Water Efficiency

LESSONS

1

Optimising infrastructure requires small capital investment and yields multifold environmental and economic gains

2

Combining the use of water saving devices and mindful use significantly improves efficiency of resources



ADVANCING INTEGRATED SOLUTIONS FOR URBAN GREEN

Challenges

- Increasing urbanization
- Few green spaces in the cities
- Climate change intensifies urban water vulnerabilities, such as flooding, heat stress and water scarcity



Advancing Integrated Solutions for Urban Green

LESSONS

1

Green – blue infrastructure prevents flooding and increases urban green

2

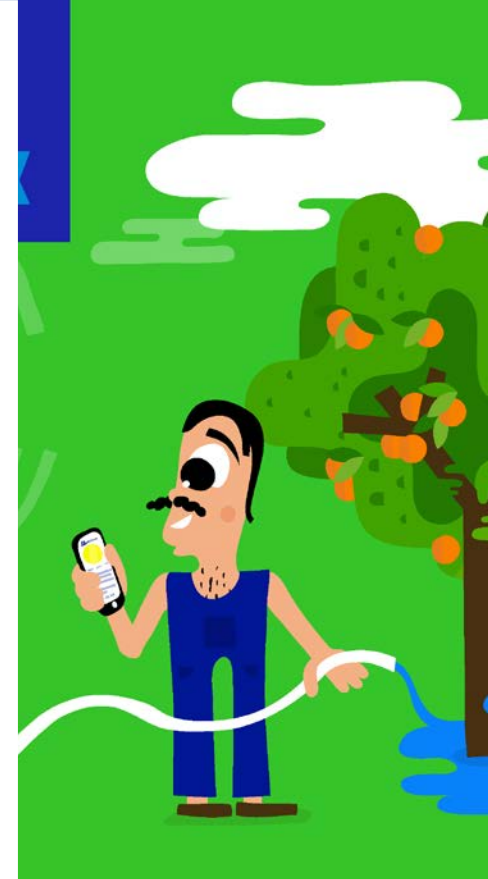
Green roofs and vertical gardens can improve the microclimate and living conditions in cities



NURTURING A NEW WATER CULTURE

Challenges

- New water culture
- Required changes in our values
- Governance change
- Different production and consumption patterns



Nurturing a New Water Culture

LESSONS

1

Education for Sustainable Development empowers learners to transform their attitudes towards mindful water use

2

Awareness raising can create the acceptance of NCWR at local level and facilitate the expansion of such cost-effective



FOSTERING JOB CREATION AND KNOWLEDGE SHARING

Challenges

- Increasing youth unemployment rates
- Skills mismatch in youth
- Technology advances and the knowledge generated must be shared among peers who face similar water challenges.



Fostering Job Creation and Knowledge Sharing

LESSONS

1

Knowledge sharing has a multiplier effect towards improved management of water resources

2

NCWR can provide new employment and entrepreneurial opportunities

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NON CONVENTIONAL WATER RESOURCES
- PROGRAMME IN THE MEDITERRANEAN -

10+ years of impact



113 SITE SPECIFIC APPLICATIONS
39 WATER SCARCE INSULAR & COASTAL COMMUNITIES
4 COUNTRIES

630,000,000 L water
280,000 Beneficiaries
38,600 students
5,200 teachers
380 technicians
20 farmers



The distinctions

NCWR

NON CONVENTIONAL WATER RESOURCES
- PROGRAMME IN THE MEDITERRANEAN -

alter
aqua



The NCWR Programme in Malta (Alter Aqua)

Phases I & II

PARTNERS :



MINISTRY FOR ENERGY AND HEALTH



Sustainable Energy and Water Conservation Unit



MINISTRY FOR GOZO



a better gozo



Global Water Partnership
Mediterranean



GSD Marketing Ltd



COLLABORATORS :



Nature Trust (Malta)



EkoSkola

PHASE I : 2011 – 2013

Aims to advance the utilization of Non Conventional Water Resources (NCWR) in the Maltese Islands in order to secure water availability and facilitate sustainable development.

PHASE II : 2014 – 2017

Aims to extend activities in the Island of Malta, to promote the use of NCWR, to expand the NCWR agenda in the Mediterranean



8+ years of impact in Malta



17 SITE SPECIFIC APPLICATIONS
2 ISLANDS

17,884,000 L water
71,800 Total Beneficiaries
17,650 students
1,380 teachers
56 technicians

Phase III

PARTNERS :



COLLABORATOR :



PHASE III : 2019 – 2020

Aims to promote NCWR as a solution to water scarcity and climate change adaptation

COMPONENTS :

- Technical interventions (NCWR applications)
- Capacity Building & Youth Engagement
- Awareness Raising and Communication

NCWR

NON CONVENTIONAL WATER RESOURCES
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Capacity Building & Youth Engagement

CALLS FOR YOUTH-LED PROPOSALS

PARTICIPATION IN PROJECT EXECUTION



Non Conventional Water Resources technical projects in Malta

bit.ly/NCWRProjects

PARTICIPATION IN OPEN FOR YOUTH EVENT & LARGE END OF PROJECT EVENT



Proposals for communicating water in Malta

bit.ly/CommsProjects

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