

Water and Environment Support

in the ENI Southern Neighbourhood region

Explore the Potential of Natural Water Retention Measures (NWRM) and Water Harvesting (WH) at the catchment scale Activity No.: N-W-JO-2

Final Consultation Workshop

15 May 2024

Kempinski Hotel, Amman, Jordan



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Overview of the Water and Environment Support (WES) Project

Presented by: Suzan TAHA, WES Key Water Expert



WES in a Snapshot



**Water and
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- WES aims at protecting the environment and improving the management of scarce water resources in the Mediterranean.
- It strives to address the country needs for creating the enabling environment and enhancing the capacities of stakeholders in the Partner Countries (PCs) to tackle problems related to pollution prevention and water use efficiency.
- WES capitalises on previous successful EU funded regional projects (Horizon 2020 CB/MEP; SWIM SM; SWIM-Horizon 2020 SM).



WES Identity



**Water and
Environment Support**
in the ENI Southern Neighbourhood region



Partner Countries:

8 Countries in North Africa and the Middle East



Duration: May 2019 – November 2024 (66 months)



Budget: 9.508.054 Euros



Team Leader: Professor Michael Scoullou, scoullou@wes-med.eu

Water Expert: Ms Suzan Taha, taha@wes-med.eu

Environment Expert: Mr Anis Ismail, a.ismail@wes-med.eu

Communication & Networking Expert: Ms Lisa Papadogeorgaki, lpa@ldk.gr

Stakeholders Engagement Expert: Dr. Emad Adly, wes.gc@raednetwork.org



WES Identity



Water and
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Our Consortium



LDK Consultants Global EEIG (Leader)



Mediterranean Information Office for
Environment, Culture and Sustainable
Development
(MIO-ECSDE)



Arab Network for
Environment and Development (RAED)



Association of Cities and Regions for
Sustainable Resource Management (ACR+)



CIHEAM – Mediterranean Agronomic Institute
of Bari (CIHEAM Bari)



Gopa Infra GmbH



MedWaves the UNEP/MAP Regional
Activity Centre for SCP



Ramboll Denmark A/S



Royal HaskoningDHV



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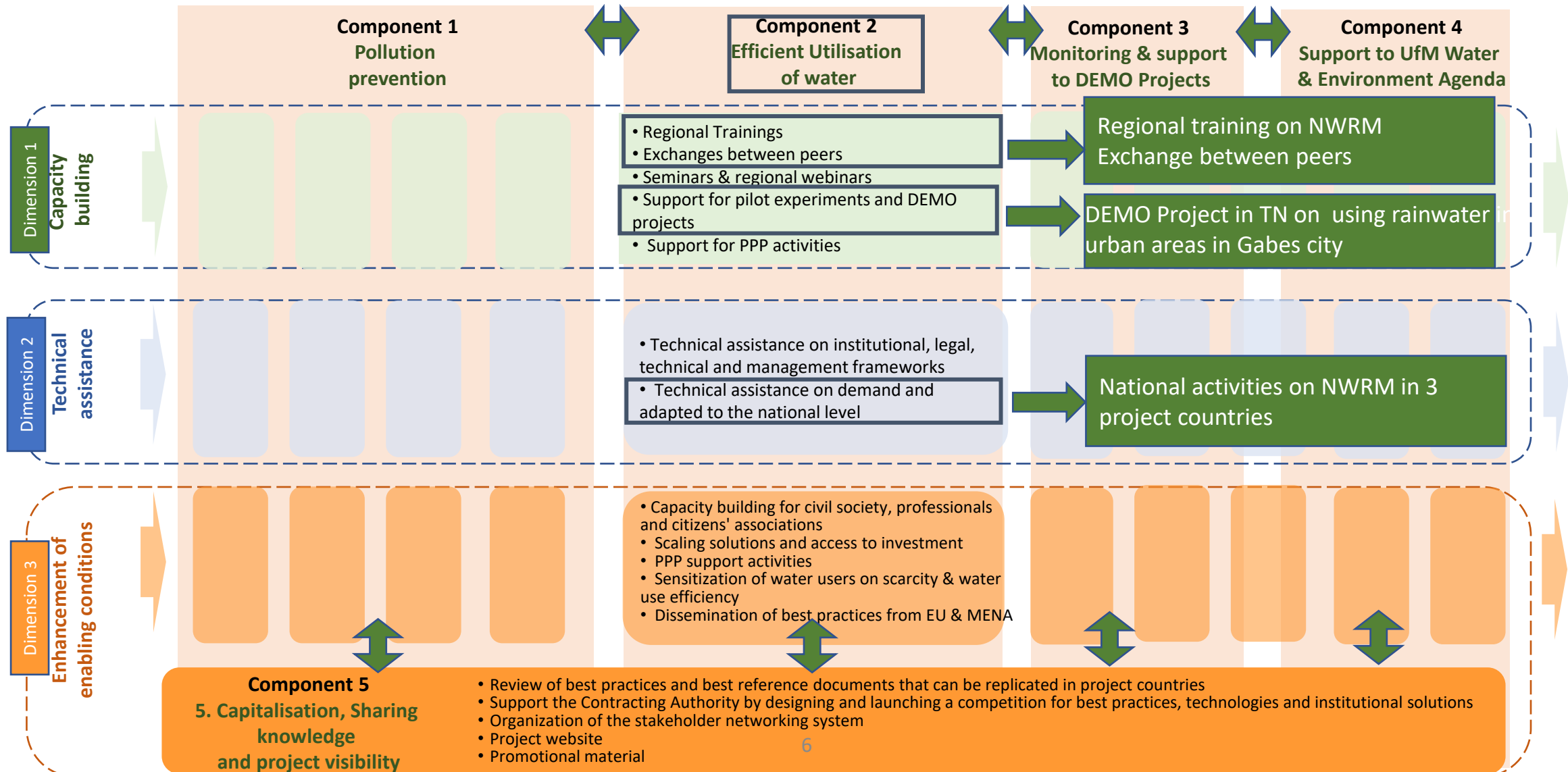
This Project is funded
by the European Union



Project Architecture



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WES progress at a glance






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29 Regional activities:

- ✓ All 5 Study Visits carried out
- ✓ 12 Regional Trainings completed  3 ongoing
- ✓ 5 Peer-to-Peer exchanges  2 ongoing
-  1 Combined Triple Training planned

10 Horizontal activities:

- ✓ 4 Trainings completed  2 ongoing
-  1 Peer-to-Peer Exchange ongoing
-  2 Trainings and 1 Peer-to-Peer Exchange planned

33 National activities:

- ✓ 16 completed
-  14 ongoing
-  3 more planned



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Project beginning
May 2019
Year 1

Year 2

Year 3

Year 4

Year 5

5th Steering Committee Meeting
(58th Month)

End of Project
November 2024

This Project is funded
by the European Union





Project Activities

Component 2 – Regional Activities

- **RW-1-REG:** water-energy-food-ecosystem nexus
- **RW-2-REG:** water accounting
- **RW-3-REG /RW-3-P2P:** Water Demand Management (WDM)
- **RW-4-REG / RW-4-P2P:** water harvesting and NWRM
- **RW-5-REG/RW-5-ST :** Treatment of wastewater for reuse
- **RW-6-REG/RW-6-P2P/RW-6-ST:** Non-Revenue Water (NRW)
- **RW-7- REG/RW-7-ST:** optimal irrigation management and practices
- **RW-X-WEB: Two webinars**





Project Activities

Component 2 – Horizontal Regional Activities

- **HW-1-REG / HW-1-P2P:** Capacity building on PPP, entrepreneurship in the green / blue economy and banking services for the water / wastewater sector
- **HE-3-REG:** Education for sustainable development: focusing on treatment for the reuse of wastewater and unconventional water resources





Project Activities

Component 2 – Technical Assistance (Jordan)

- **N-W-JO-2:** Explore the potential of Natural Water Retention Measures (NWRM) at the catchment scale

Launched on 15 December 2020 with MWI, WAJ and JVA as partners

- **N-W-JO-1:** Elaboration of a Non-Revenue Water (NRW) Policy for Jordan

Launched 15 Feb 2022 with MWI and WAJ



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Introducing the WES activity in Jordan

Presented by: Suzan TAHA, WES Key Water Expert

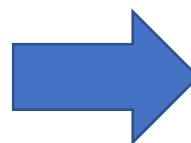


Objectives of the activity and overview of the proposed actions



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- Enrich knowledge and know-how of NWRM including storm water management in peri-urban areas as well as in rural/natural areas according to water usage.
- Review of best management practices for NWRM.
- Learn from the experience achieved from designing NWRM in two pilot cases in Jordan at the feasibility level.
- Review of economic incentives and regulation to support and amplify storm water management.
- Better understand the relationship between rural/natural and peri-urban storm water in the context of storm water management.



Review of Best Management Practices in NWRM for storm water management, aquifer recharge, debris retention transported by runoff, direct use in agriculture etc., and holding a workshop

Selection of pilot case studies in Jordan

Basic design of NWRM in the selected pilots including assessing its feasibility

Review of economic incentives and regulation regarding storm water management

Concluding workshop



Workshop Objectives



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- Present an overview of the national activity in Jordan.
- Present the findings of the final screening of the Best Management Practices and NWRMs demonstrating the application of selected best practices in natural and peri-urban environments in arid or semiarid areas with restricted area availability.
- Present, discuss, obtain feedback and validate the outcomes of the study with respect to:
 - The designs of the NWRMs for the two pilot areas
 - The applicability of the selected measures in Jordan and alternative techniques.
 - The cost-benefit analysis of the application of the proposed NWRM in the two pilot areas.
 - The proposed economic incentives and regulation framework regarding Natural Water Retention Measures and storm/flood water management in the country.
 - The proposed guidelines/criteria for the selection of appropriate sites of retention and detention systems.
- Agree on a set of actions that the country could implement beyond the duration of the WES project. → evaluation of the impact of this activity.



Agenda



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0:00-10:15	WELCOME & GENERAL INTRODUCTION
0:15-11:50	PRESENTATION OF THE ACTIVITY AND GENERAL DISCUSSION <ul style="list-style-type: none">- Introducing the WES Activity in Jordan and the Terminology - Natural Water Retention Measures (15 min) <i>Dr. Demetris ZARRIS, Non-Key Expert, specialised in Hydrology and Technical Coordinator representative of WES experts' Team</i>- Analysis of Natural Water Retention Measures in Natural Areas – Application in Azraq City Lowland Area (30 min) <i>Dr. Demetris ZARRIS and Mr. Stelios VAVOULOGIANNIS, Hydrologist, WES</i> <i>Mr. Farouk TADROS, Local expert in Landscape Architecture, WES</i>- Analysis of Natural Water Retention Measures in Urban Areas – Application in Aljoun Town Area (30 min) <i>Dr. Demetris ZARRIS:, Mr. Stelios VAVOULOGIANNIS, Mr. Farouk TADROS</i>- Q&A (10 min)
1:50-12:00	COFFEE BREAK
2:00-13:15	<ul style="list-style-type: none">- Assessment of the adopted NWRMs overall efficiency ((technical and economical) (15 min). <i>Dr. Demetris ZARRIS,</i>- Proposed economic incentives and regulation framework for NWRM & storm water management in the country (15 min) <i>Dr. Demetris ZARRIS,</i>- Proposed guidelines / criteria for the selection of appropriate sites of retention and detention systems (15 min) <i>Dr. Demetris ZARRIS,</i>- Feedback on the applicability of the proposed NWRMs in the country



Thank you
for your attention
and keep up with
our latest news!



QR Code Stakeholders Commitment Form



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QR Code Evaluation Form



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