

# Water and Environment Support

in the ENI Southern Neighbourhood region

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Capacity building/trainings with pilot farmers' associations and relevant communities on optimal irrigation management and practices  
Activity No. : N-W-PS-2

Kick-off meeting  
video-conference

2 December 2020, Ramallah, Palestine



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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

- 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

| Facts & Figures                              |  |
|--|--|
| Partner Countries:                           | Algeria, Egypt, Israel, Jordan, Lebanon, Morocco, Libya, Palestine* and Tunisia  |
| Project value:                               | 7.917.200 Euros  |
| Duration:                                    | May 2019 – May 2023 (48 months)  |
| Project team:                                | <b>Team Leader:</b> Professor Michael Scoulllos, <a href="mailto:scoulllos@wes-med.eu">scoulllos@wes-med.eu</a><br><b>Water Expert:</b> Ms Suzan Taha, <a href="mailto:taha@wes-med.eu">taha@wes-med.eu</a><br><b>Environment Expert:</b> Mr Anis Ismail, <a href="mailto:a.ismail@wes-med.eu">a.ismail@wes-med.eu</a><br><b>Communication &amp; Networking Expert:</b> Ms Pam van de Bunt, <a href="mailto:vandebunt@wes-med.eu">vandebunt@wes-med.eu</a><br><b>Stakeholders engagement expert:</b> Dr. Emad Adly, <a href="mailto:wes.gc@raednetwork.org">wes.gc@raednetwork.org</a> |
| <b>WES Focal Points (FP)<br/>(Palestine)</b> | <b>FP Water :</b> Ms. Mageda Alawneh, Water Quality Department Director, Palestinian Water Authority<br><b>FP Environment :</b> Mr. Ahmed Abu Thaher, Director General for Projects and International Relations, Environment Quality Authority (EQA)   |

\*This designation is not to be construed as recognition of the State of Palestine and is without prejudice to the individual positions of the Member States on this issue.



# WES Identity



**Water and  
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in the ENI Southern Neighbourhood region

## 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



Ramboll Denmark A/S



Royal HaskoningDHV



Regional Activity Centre for Sustainable  
Consumption and Production  
(ARC-SCP/RAC) of UN  
Environment/Mediterranean Action Plan



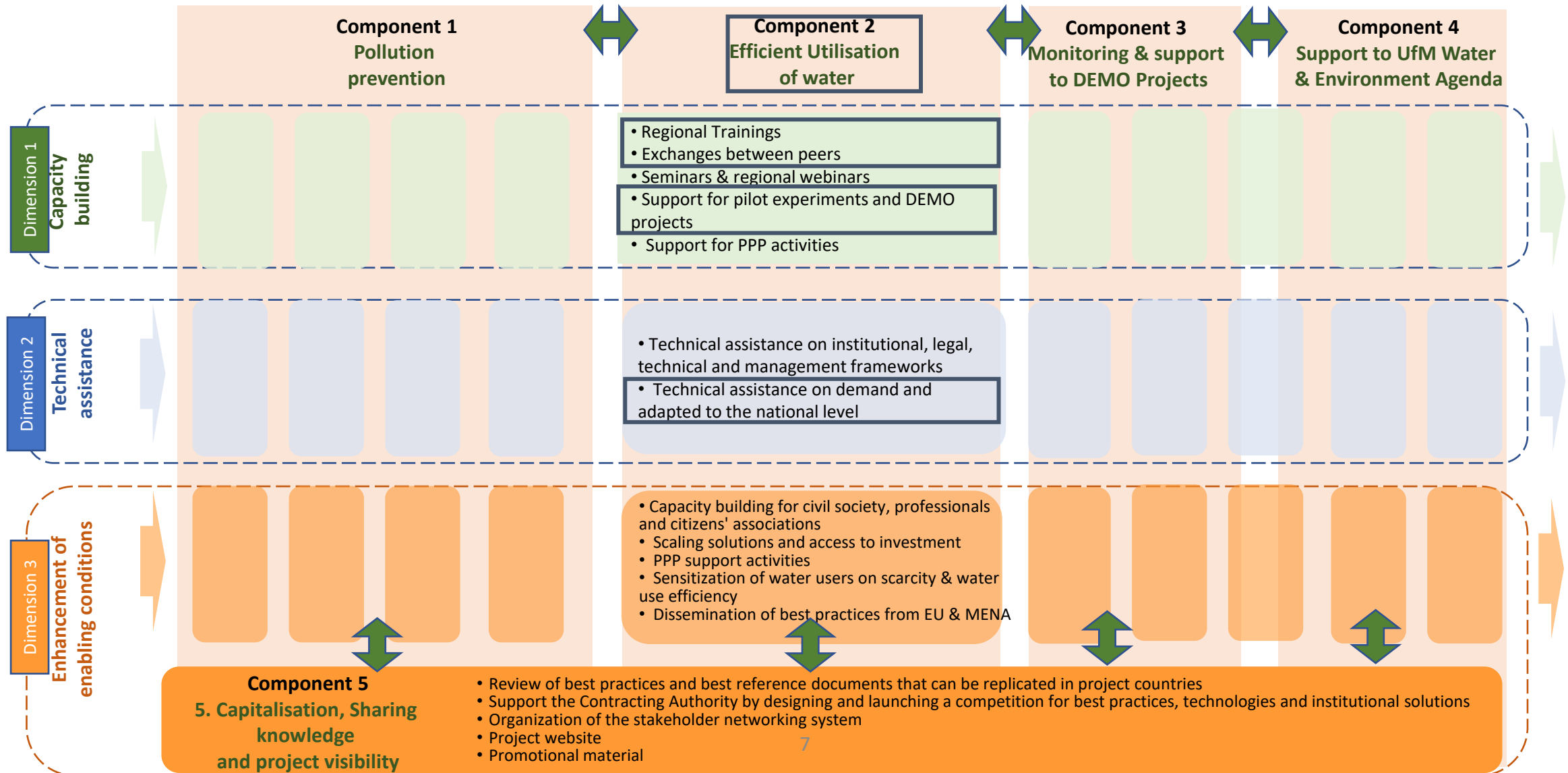
LDK Consultants Engineers &  
Planners SA



# Project Architecture



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



# Technical assistance, Capacity building, Networks between stakeholders



**Water and  
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in the ENI Southern Neighbourhood region

- **Regional Level :**

- ✓ **20 regional activities**  
trainings / workshops, study tours to European or South Mediterranean Countries, webinars and guided peer-to-peer exchanges).

***Regional Trainings :***

*8 on water, 8 on environment, 4 Horizontal*

***Study Tours:***

*4 to 8 Study Tours*

***Exchanges between peers:***

*10 peer-to-peer exchange exercises combined with 4 webinars*

- **National Level:**

- ✓ **4 national activities** in each partner country (**2 on water and 2 on the environment**).
- ✓ **2 WES national meetings** acting as collaboration platforms, to assess progress, plan next steps, etc.



# Project Component



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in the ENI Southern Neighbourhood region

## Component 1: Pollution prevention topics

- **Theme 1:** Reduce **plastic pollution** and **marine litter**
- **Theme 2:** Promotion of mechanisms, tools and conditions for the transition to a **circular economy**
- **Theme 3:** Prevent and reduce **Pollution** reaching the Mediterranean from **specific industrial sectors**
- **Theme 4:** Support for the implementation of **integrated environmental management**







# Project Component

## Component 2: Topics related to efficient water use

- **Theme 1:** Assessment and estimation of **water use (by sector)**
- **Theme 2:** Investigations and introduction of water efficiency gains at the decentralized level
- **Theme 3:** Water resources assessment, cost recovery **and** affordability of water services
- **Theme 4:** Legal and regulatory aspects related to the integration of water use efficiency into national and regional frameworks
- **Theme 5:** Improving water efficiency and productivity in agriculture





# Project Activities

## Component 2 – Regional Activities

- **RW-1-REG:** Training on the practical application of the water-energy-food-ecosystem nexus and related policies and regulations WEFE
- **RW-2-REG:** Training on water accounting
- **RW-3-REG /RW-3-P2P:** Capacity Building (CB) on Water Demand Management (WDM)
- **RW-4-REG / RW-4-P2P:** CB on non-conventional water resources with a focus on water harvesting, including retention and recharge of aquifers with storm water
- **RW-5-REG/RW-5-ST :** CB on Treatment of wastewater for reuse
- **RW-6-REG/RW-6-P2P/RW-6-ST:** Training on Non-Revenue Water (NRW)
- **RW-7- REG/RW-7-ST:** Training of WUAs on optimal irrigation management and practices using appropriate irrigation methods for improved irrigation efficiency and soil fertility, and highlighting the benefits of using treated wastewater and rainwater harvesting.
- **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 (Palestine)

- **N-W-PS-2:** Capacity building/trainings with pilot farmers' associations and relevant communities on optimal irrigation management and practices

*Launched 2 December 2020 with PWA as partners*

- **N-W-PS-1:** Design actions/modalities for improved water billing and fees' collection rates also with a view to support outsourcing and PPP and engagement through Micro PSP

*TOR under preparation*

| Name of non-key expert       | Function in the activity   |
|------------------------------|--|
| Professor Nicola Lamaddalena | International Non-Key expert (NKE) <sup>1</sup> , specialized in irrigation and hydraulic engineering, and technical coordinator |
| Dr. Fawzi Abdoh              | Local Expert in Irrigation and Environment   |





**Water and  
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in the ENI Southern Neighbourhood region

**Thank you for your attention**



# Water and Environment Support

in the ENI Southern Neighbourhood region



Capacity building/trainings with pilot farmers' associations and relevant communities on optimal irrigation management and practices  
Activity No. : N-W-PS-2

Kick-off meeting by video conference  
2 December 2020, Ramallah, Palestine

## General context of the project and proposed actions

Presented by: Eng. Omar Zayed, Acting director  
General of Water Resources directorate,  
Palestinian Water Authority





# Plan

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**Water and  
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in the ENI Southern Neighbourhood region

- Who are we?
- General context of the WES activity
- Objectives of the Activity
- Contribution of Palestinian Water Authority (PWA)



# Who are we?



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- ***The Palestinian Water Authority***

was established pursuant to Presidential Decree No. 90 of 1995, which has an independent legal personality, and has its own budget, to follow the president, and to have a president appointed by the Palestinian president.

- ***Our message:***

The Water Authority seeks to devote the concepts and foundations of integrated management of water resources as the most important pillars of the sustainable development process, by setting up plans and strategies to develop the Palestinian water sector with all its components and overseeing the implementation of these plans, and to involve all relevant authorities locally and internationally, including the local community, to develop water services and the exchange in Palestine.

- ***Our Vision :***

Achieving Palestinian water security by securing sustainable water resources capable of fulfilling the basic and developmental needs of the Palestinian people, through integrated management of water resources, and pursuing Palestinian water rights as a guarantee for building a true sovereign Palestinian state.





# General context of the WES activity



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## Existing strategic framework in Palestine in support of optimal irrigation management and practices

- ❖ This activity is in line with the National Water Strategy for Palestine
- ❖ The reform of the water sector took place and the new water law 2014 has been established
- ❖ two main articles about the establishment of Water Users Associations:

### - Article 48:

indicates that the **Water Users Associations** shall be established with the aim of **managing the service of irrigation water supply at the local level in a sustainable manner**, Users Associations.

### - Article (49):

explains the Legal Personality of Water Users Association



# General objective of the activity



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Improve the productivity and the efficiency of the irrigation water at the plot level (on-farm) and at the scheme level (off-farm) in two pilot WUAs;

- **one using fresh water**



- Wadi Sha'eer farming field, which is located in Tulkarm Area, in the West part of the West Bank, which is served by Wadi Sha3eer WUA

- **and another using treated wastewater (Arouba).**



- Al Aroub Farming field in Hebron is in the South of the West Bank for which the water users Association is under establishment

The ultimate objective is to support reduction of the total abstractions of fresh water used in irrigation including through expansion of the safe use of TWW in irrigation.

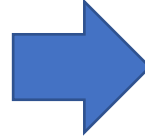


# Specific Objectives of the activity and overview of the proposed actions



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- Increase the level of knowledge of relevant authorities in Palestine, in addition to the responsible technical WUA staff, and representatives from the private sector & NGOs/civil society organisations active in the field with the aim to enable them to train other government technical staff, farmers and WUAs, in the following aspects; (as applicable):
  - measures to increase the efficiency of water use in collective irrigation systems
  - the application of irrigation water (fresh water or treated wastewater) and optimal irrigation water management and practices at the on-farm level in order to increase the efficiency of water use and water productivity;
  - Impact of increased on-farm water productivity on the total fresh water withdrawals at the watershed level and irrigation scheme level.
- Development of awareness-raising materials on on-farm irrigation water savings and management (using fresh and treated waste water) targeting the farmers
- Elaboration of technical guides targeting the WUAs for monitoring the WUA management performance and for improved management, operation and maintenance of collective irrigation networks.



## Overview of the Tasks

Overview of irrigation water management in the two pilot areas

Preparation and execution of training of trainers (TOT)

Development of awareness-raising materials and technical guides

Prepare the synthesis report



# Contribution of PWA 1/2



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- Timely provision of relevant data and information;
- Welcoming experts and providing the assistance necessary for the success of their missions;
- Providing the necessary assistance to the experts and to the project in order to identify the stakeholders concerned and invite them to the kickoff workshop according to the scope of tasks 1.1 & 1.2
- Providing the necessary assistance to the experts to identify the main suppliers of irrigation services, material and equipment in the country according to the scope of tasks 1.1 & 1.2



# Contribution of PWA 2/2



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- Agree during the kick off workshop on concrete commitments, including possible follow-up actions; once the WES activity is over
- Validation of work programs and approval of reports
- Facilitate the implementation of the communication plan proposed by the key communications expert from WES (See ANNEX 1).
- Formulation of the group of experts responsible for examining the results of the evaluation;
- Facilitation of experts' work (contact with local representatives of the pilot areas)
- Organization of two training workshops (invitations in due time)





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in the ENI Southern Neighbourhood region

**Thank you for your attention**





# Water and Environment Support

in the ENI Southern Neighbourhood region



Capacity building/trainings with pilot farmers' associations and relevant communities on optimal irrigation management and practices

Activity No. : N-W-PS-2

Kick-off meeting  
(By video conference)

2 December 2020, Ramallah, Palestine

## Presentation of the WES Technical Assistance activity in Palestine

Presented by: Prof. Nicola Lamaddalena, International Non-Key expert, specialized in irrigation and hydraulic engineering, and technical coordinator



# Plan

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

- 1 - Target beneficiaries and stakeholders involved
- 2 - Proposed actions & Expected results
- 3 - Schedule of the activity
- 4 - Human resources implemented





# Target beneficiaries



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- Palestinian Water Authority (PWA)
- Ministry of Agriculture (MoA)
- Ministry of Local Government (MoLG)
- Farmers' community in Wadi Sha'eer, located in Tulkaram
- Farmers' community in Al Aroub, located in Hebron
- Water User Associations (WUA)



# Stakeholders involved



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- Stakeholders concerned will be identified with the focal point and targeted according to the scope of the work.
- Proposed stakeholders will be presented by the stakeholders engagement expert



# Proposed actions & Results



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## Task 1: Overview of irrigation water management in the two pilot areas

- Desk study: based on documents and data provided as available at the PWA, MoA, MoLG, the targeted farmers' community and WUA.
- Inception Mission: In order to supplement the information obtained during the desk study.
- Analysis of the current situation in the two pilot areas and prepare recommendations for training of trainers.

## Results

- A general overview of the current irrigation management situation in the target areas is obtained.
- Gaps in farmers' awareness of optimal irrigation practices using fresh water or treated wastewater under various irrigation systems for increased WUE and WP are identified.
- The needs and areas for which the training of the technicians (trainers) is necessary are highlighted.
- The various stakeholders involved are identified.
- A dialogue between the different stakeholders is established.

## Tools for deployment:

- Literature review
- Data obtained from local partners in Palestine.
- 



# Proposed actions & Results



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## Task 2: Preparation and execution of training of trainers (ToT)

- Training of trainers on on-farm irrigation management, and on-farm irrigation systems.
- Training of trainers on the management and analysis of the performance of collective irrigation networks, water allocation and distribution and its impact on productivity.

### Results

- The capacity of the relevant technical staff of the MOA, farmers and WUAs is strengthened in terms of best irrigation management practices to improve WUE and WP at the plot level.
- The capacity of the relevant technical staff from MOA, PWA, and WUAs is strengthened in terms of management of collective irrigation networks.
- Trained technical staff are able to train other farmers and WUAs.

### Tools for deployment:

- Cropwat
- Aquacrop
- COPAM
- 



# Proposed actions & Results



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## Task 3: Development of awareness-raising materials and technical guides

- Consultation with extension workers.
- Development of awareness-raising materials and technical guides

## Results

- Awareness-raising materials (leaflets targeting farmers) on optimal irrigation practices and management using fresh or treated wastewater are prepared.
- A simplified manual for monitoring the management performance of the WUA (targeting the WUA Administrative Council and WUA technical staff).
- A technical guide on the management, operation and maintenance of collective irrigation networks targeting technical staff from the WUAs and government.

## Tools for deployment:

- Literature review



# Proposed actions & Results



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## Task 4: Prepare the synthesis report

Prepare the synthesis report presenting the context of the activity, the tasks carried out and summarizing:

- the main results and deliverables,
- main impacts / changes,
- future actions (sustainability / replicability) to be undertaken by the partners,
- the main challenges and lessons learnt with recommendations based on the training evaluation.

## Results

- Synthesis report
- 
- 
- 

## Tools for deployment:





# Schedule of the activity

| Tâche  | Dec 20 | Jan 21 | Feb 21 | Mar 21 | Apr 21 | May 21 | Jun 21 | Jul 21 |
|--|--------|--------|--------|--------|--------|--------|--------|--------|
| <b>Task 1: Overview of irrigation water management in the pilot areas</b>  |        |        |        |        |        |        |        |        |
| <i>Task 1-1: Desk study</i>  |        |        |        |        |        |        |        |        |
| <i>Task 1-2: Inception mission including kickoff workshop</i>  |        |        |        |        |        |        |        |        |
| <i>Task 1-3: Analysis of the current situation in the two pilot areas and prepare recommendations for training of trainers</i> |        |        |        |        |        |        |        |        |
| <b>Task 2: Preparation and execution of TOT</b>  |        |        |        |        |        |        |        |        |
| <i>Task 2.1: Training on field irrigation management and field irrigation systems</i>  |        |        |        |        |        |        |        |        |
| <i>Task 2.2: Training on the management and analysis of the performance of collective irrigation networks</i>                  |        |        |        |        |        |        |        |        |
| <b>Task 3: Development of awareness-raising materials and technical guides</b>   |        |        |        |        |        |        |        |        |
| <i>Task 3.1: Consultation with extension workers</i>   |        |        |        |        |        |        |        |        |
| <i>Task 3.2: Development of awareness-raising materials and technical guides and distribute to those concerned</i>             |        |        |        |        |        |        |        |        |
| <b>Task 4: Prepare the synthesis report</b>  |        |        |        |        |        |        |        |        |

**Note:** Due to the impact of the COVID-19 pandemic in the region, the date of the missions, workshop, trainings, field visits will be revised according to the evolution of the health crisis and the restrictions imposed accordingly in Palestine and in the countries of residence of the International NKE.



# Actions made necessary by Covid-19 crisis



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- Task 1:
  - ✓ Inception mission may be organized remotely.
- Task 2:
  - ✓ Training of trainers can be organized remotely depending on lockdown measures in Palestine and travel restrictions.
- Task 3
  - ✓ Consultation with extension workers is done remotely.





# Water and Environment Support

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Capacity building/trainings with pilot farmers' associations and relevant communities on optimal irrigation management and practices

Activity No. : N-W-PS-2

Kick-off meeting  
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2 December 2020, Ramallah, Palestine

Presentation of local non-key experts - 5 minutes

Suzan TAHA (WES Key Water Expert)



# Human resources and implementation



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## The project will be led by a team of experts (02) non-key experts

| Name of non-key expert       | Function in the activity  |
|------------------------------|---|
| Professor Nicola Lamaddalena | International Non-Key expert (NKE)1, specialized in irrigation and hydraulic engineering, and technical coordinator |
| Dr. Fawzi Abdoh              | Local Expert in Irrigation and Environment  |

Also with contributions from the Senior Expert in Stakeholders Engagement Dr. Emad Adly and Senior Expert in Communication: Ms. Pam van de Bunt



# Water and Environment Support

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Capacity building/trainings with pilot farmers' associations and relevant communities on optimal irrigation management and practices

Activity No. : N-W-PS-2

Kick-off meeting  
(By video conference)

2 December 2020, Ramallah, Palestine

Discussion: Requirements and Challenges –  
20 mins

Moderated by: Suzan TAHA (WES Key Water Expert) & Nicola Lamaddalena (Non-key Thematic Expert and Technical Coordinator of the activity)



# Discussion – Requirements & Challenges



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## General

- Experts Mobility & Remote work
  - Collection of documents and data for analysis can be done remotely and with the assistance of the local expert, but only with full collaboration from local partners.
  - It may be difficult for international experts to travel to the West Bank due to Covid-19 restrictions and/or conflicts.
- Stakeholders identification and engagement in the activity
- Provision of data and equipment
  - Timeliness
  - Data accuracy and sharing

# Discussion – Requirements & Challenges



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## Data availability and quality :

- Water resources and water use data
- Information about farmers, WUA and local communities
- Use of treated wastewater in agriculture, regulation and capacity

## Tools and Software (S/W)

- ArcGIS
- Cropwat
- Aquacrop
- COPAM





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# Water and Environment Support

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2 December 2020, Ramallah, Palestine

Improving the impact of communication and dissemination

Presented by: Pam van de Bunt– Key Communication and networking Expert



# Communicate !

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## Why do we need to communicate?

- Spreading information about the project and its results is essential for understanding and duplication of results
- We need to go beyond communicating only with our direct partners and stakeholders
- An increased awareness is the basis for action





# WES general communication objectives



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- To increase awareness of water and environmental issues currently under pressure in the Mediterranean
- Increase the commitment of decision-makers and other stakeholders
- Mobilise civil society
- Ensure visibility of WES and the EU support for water and environmental issues in the region





## Specific communication objectives

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- Raising awareness on issues and consequences related to irrigation projects and irrigation savings in Palestine
- Promoting knowledge of the relevant authorities for monitoring irrigation projects and irrigation savings including water saving, irrigation techniques and the use of unconventional water resources for irrigation (like treated waste water).



# Target groups

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- Water Users Associations
- Municipalities
- NGOs including Palestinian Hydrology Group and PARC
- Farmers in all Palestine (West Bank and Gaza)
- Media outlets with a focus on community radio stations





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# Communication tools

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- **Short video**
- **Social media**
- **Posters**
- **Media**  
(PBC, Ma'an el Wattan, local radio stations)





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Thank you



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## Stakeholders Engagement and Evaluation of Impact

Presented by: Dr. Emad ADLY, Stakeholders engagement expert and impact evaluation



# Stakeholders' Engagement



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## Stakeholders' Engagement → important impacts

- The main stakeholders will be identified and targeted with the focal point and the partners.
- Stakeholders who could be involved in the workshops (as applicable):
  - ✓ environmental and water-related NGOs,
  - ✓ the Academia,
  - ✓ local consultants,
  - ✓ women's and youth organizations in the region
  - ✓ representatives of local authorities,
  - ✓ representatives of communities,
  - ✓ media concerned with local water issues.





# Evaluate the impact of WES Capacity Building



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- In general, WES measures direct results during the implementation of capacity building activities: quizzes, exercises, scorecard, engagement sheet, etc.
- Indicator NW-PS-1: Number of actions actually implemented by the targeted actors, compared to those that were committed to during the inception workshop
- WES measures mid-term results after activities have taken place
  - ✓ post-training impact survey (online) sent to all participants
  - ✓ direct contact / direct interview with a few selected participants

**"WE CAN WORK TOGETHER FOR A  
SUSTAINABLE MEDITERRANEAN  
REGION"**







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in the ENI Southern Neighbourhood region

Thank you



# Pour plus d'informations



**Water and  
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in the ENI Southern Neighbourhood region

Consultez notre site internet :

[wes-med.eu](http://wes-med.eu)

 [info@wes-med.eu](mailto:info@wes-med.eu)

Ou suivez-nous sur les réseaux  
sociaux :

