



ENI Thematic Cluster

Presentazione buone
pratiche di progetti
ENI MED 2014/20



PROSIM Project

Description

PROSIM project will bring innovative solutions combining water use efficiency and NCW and build local capacities to adopt/upscale them. Cross-border capacity building and roadmaps and plans for improved water management based on project results will be carried out while enhancing public-private cooperation will be fostered together with investments for the adoption/upscale of the proposed solutions.

Countries

Italy, Jordan, Lebanon, Tunisia, Spain

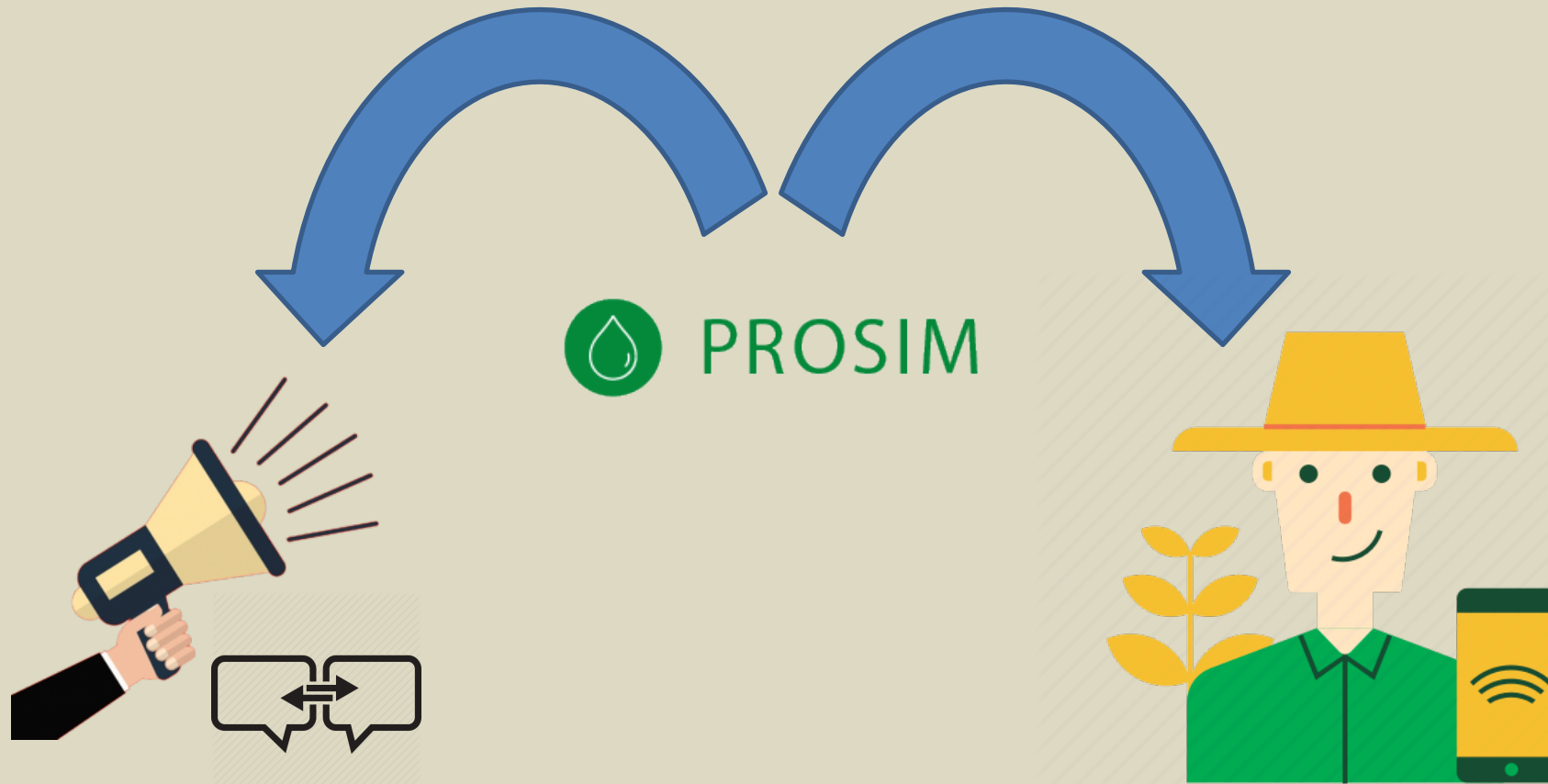
Budget

€ 3.3 Million

PROSIM Partners

BEN	ICU – Institute for University Cooperation	Italy
PP1	National Center for Agricultural Research and Extension	Jordan
PP2	Lebanese Ministry of Agriculture	Lebanon
PP3	Ministry of Agriculture, Hydric Resources and Fishery of Tunisia-General Directorate of Agricultural Engineering and Exploitation of Water Resources (Direction Générale du Génie Rural et de l'Exploitation des Eaux Ministère de l'Agriculture) DGGREE	Tunisia
PP4	Spanish National Research Council (CSIC) - Center for Edaphology and Biology of Segura	Spain
PP5	Sicilian Region - Regional Department of Agriculture, Rural Development and Mediterranean Fisheries	Italy
AP1	Agricultural Engineering Research Institute (AEnRI) - Agricultural Research Centre (ARC) of the Ministry of Agriculture and land reclamation of Egypt	Egypt
AP2	National Institute of Agronomic Research - Ministry of Agriculture, Fisheries, Rural Development, Water and Forests	Morocco

PROSIM drivers

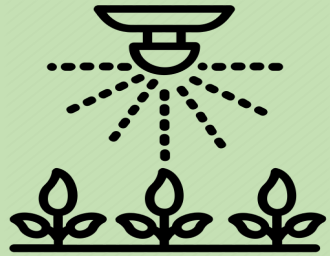


THEMATIC WEB TALK, FIELD VISITS,
TRAINING AND DISSEMINATION
ACTIVITIES

WORK ON THE FIELD,
DEMONSTRATIONS INVOLVING 237
FARMERS IN 91 HECTARES

PROSIM objectives

PROSIM will face water scarcity challenges focusing on both water demand and supply for irrigation, in particular to:



Demonstrate new/enhanced sustainable irrigation solutions that ensure an increased water-use efficiency and entail a larger use of NCWs, adapt their technical complexity to local conditions and capacities of target areas and make tailored solutions available to stakeholders at Med basin level



Strengthen cross-border cooperation, capacity building and engagement in sustainable irrigation water management of relevant **local institutions and private stakeholders** at Med basin level, by sharing and capitalising know-how; providing mutual support in the implementation of innovative solutions



Support farmers' adoption of sustainable irrigation water management solutions combining environmental, technical and economic advantages and foster civil society engagement in environmental sustainability at Med basin level.

Expected output

WPs	Description	Output
WP1	Management	1.1 Progress reports
		1.2 Manual on project procedures: overall monitoring, reporting, risk management
		1.3 Stakeholders map and baseline database
WP2	Communication	2.1 Communication plan
		2.2 Communication toolkit
		2.3 Report on communication and awareness raising activities
		2.4 Capitalisation plan
WP3	Institutional capacity building and public-private cooperation	<u>3.1 Cross border training initiatives on WUE and NCWs for partner institutions</u>
		<u>3.2 Capacity-building training programme on WUE and NCWs use for EAs and WUAs</u>
		3.3 Joint Letter of Commitment on adoption of WUE and NCWs solutions
		<u>3.4 4 Memorandum of Understanding (MoU) on local WRM plans based on public-private cooperation</u>
WP4	WUE innovative solutions demonstration plots	4.1 WUE irrigation systems demonstrated
		4.2 WUE technology solutions demonstrated
WP5	NCWs innovative solutions demonstration plots	5.1 TWW reuse solutions demonstrated
		5.2 Desalination solutions demonstrated
		<u>5.3 Mixed waters solutions demonstrated</u>

Innovative Solutions - IS



WATER USAGE EFFICIENCY IS (Irrigation systems and technologies)

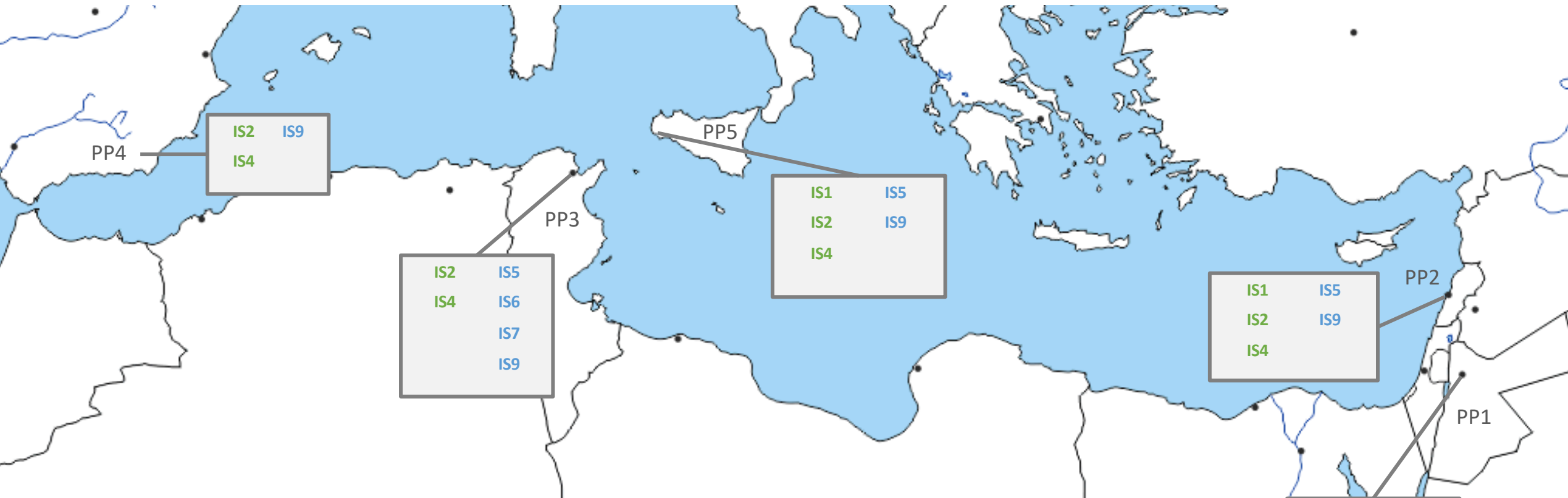
- ✓ **IS1:** Sub-surface irrigation with Treated Waste Water (JOR, LEB, ITA)
- ✓ **IS2:** Drip irrigation system with Non Conventional Waters (all countries)
- ✓ **IS3:** Evaporation pan (JOR)
- ✓ **IS4:** Sensors for irrigation scheduling applied to Conventional and Non Conventional Waters (JOR, LEB, TUN, ITA)



NON CONVENTIONAL WATER IS (*Treated Waste Water, surface brackish waters, groundwater, mixed waters*)

- ✓ **IS5:** Filtration for Treated Waste Water reuse (JOR, LEB, TUN, ITA)
- ✓ **IS6:** Reverse osmosis desalination + PVs (JOR, TUN)
- ✓ **IS7:** Nano-filtration desalination (TUN) + PVs (JOR)
- ✓ **IS8:** Capacitive deionization (JOR)
- ✓ **IS9:** Decision support system for mixing Conventional and Non Conventional Waters in compliance with national laws (JOR, LEB, TUN, ITA, SPA)

Solutions per partner



Green: Water Usage Efficiency IS

- ✓ **IS1:** Sub-surface irrigation with TWW (JOR, LEB, ITA)
- ✓ **IS2:** Drip irrigation system with NCWs (all countries)
- ✓ **IS3:** Evaporation pan (JOR)
- ✓ **IS4:** Sensors for irrigation scheduling applied to CWs and NCWs (JOR, LEB, TUN, ITA)

Blue: Non Conventional Water IS

- ✓ **IS5:** Filtration for TWW reuse (JOR, LEB, TUN, ITA)
- ✓ **IS6:** Reverse osmosis desalination + PVs (JOR, TUN)
- ✓ **IS7:** Nano-filtration desalination (TUN) + PVs (JOR)
- ✓ **IS8:** Capacitive deionization (JOR)
- ✓ **IS9:** Decision support system for mixing CWs and NCWs in compliance with national laws (JOR, LEB, TUN, ITA, SPA)

Target groups

		IDENTIFIED NEEDS
5	Project Partners institutions and 80 extensionist agents that lead and support IS adoption/upscale among FBs	
2	Associate Partners that want to build capacities to replicate IS in their countries	Widen knowledge on WUE and NCW best practices in Med basin; develop capacity to adapt and introduce Innovative Solutions locally, involving all IPs; strengthen cooperation with stakeholders, linking up local and regional level; improve service to farmers
4	Water Usage Associations that cooperate with Extensionist Agents and farmers in demonstrations and support in IS implementation/diffusion	Widen range of tested Innovative Solutions to share among farmers
4	Innovative Solution product/service providers that supply farmers with IS and installation/maintenance services	Tailor product/service offer on farmers' needs
237	Pilot farmers that spread IS across Final Beneficiaries in target areas	Rationalize water use and related costs while increasing production; improve agriculture and irrigation practices



Thank you for your attention

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