



Water and Livelihoods Initiative (WLI)

Middle East - North Africa

Annual Regional Coordination Meeting

3-4 November, 2015, Amman Jordan





Goal: To improve the livelihoods of rural households and communities, through the development and **pilot testing** of integrated water, land, and **livelihood strategies** on selected benchmark sites for **scaling out**

Objectives

- Develop and pilot-test integrated water, land-use, and livelihoods strategies in selected benchmarks that represent the major agro-ecosystems
- Build Institutional Capacity to address Agricultural Problems
- Engage stakeholders in a policy dialogue
- Adoption of water saving and productive options and practices



Three predominant agro-ecosystems in MENA

Irrigated



Sustainable irrigation
Cropping systems
Cropping patterns
Salt-affected soils
Treated wastewater
Protected agriculture
Use of drainage water
Water productivity
Fertilizer efficiency

Rainfed



Supplemental irrigation
Deficit irrigation
Conservation agriculture
Management of ground
& surface water
Alternative crops/ higher
income
Watershed management
(upstream/downstream)

Rangeland



Rehabilitation of
degraded rangelands
Alternative grazing
systems
Water harvesting
Livestock productivity

Gender mainstreaming, extension services,
institutional capacity development and training

Selected Indicators

- 4.5.2(2): Number of **hectares under improved technologies** or management practices as a result of USG assistance
- 4.5.2(5): Number of **farmers** and others who have **applied new technologies** or management practices as a result of USG assistance
- 4.5.2(7): Number of **individuals** who have received USG supported short-term agricultural sector productivity or food security **training**
- 4.5.2(11): **Number of food security** private enterprises (for profit), producers organizations, **water users associations, women's groups,** trade and business associations, and community-based organizations (CBOs) receiving USG assistance
- 4.5.2(34): Number of **stakeholders implementing risk-reducing practices/actions** to improve resilience to climate change as a result of USG assistance
- 4.5.2(39): **Number of new technologies** or management practices in one of the following phases of development



NARES Progress Towards WLI Goals in 2015

Partners	Capacity Building	New Tech	New Hectares	ISI Papers
Egypt	105/35	3	1750	2
Yemen	3/0	3	7	1
Iraq	141/14	4	39	7
Jordan	64/0	5	36	2
Tunisia	30/7	6	57	7
Palestine	162/61	7	224	
Total	505/117 = 23%	28	2113	19



Regional Progress for 2015 Cross-referenced with CRP Goals

- A total of 2113 ha of land were brought under various improved integrated water and land management technologies (IDO 2 Wealth generation)
- Over 500 people (23% women) benefited from various short term trainings (IDO 5 Gender Empowerment)
- Over 90 stakeholders implementing risk-reducing practices/actions to improve resilience to climate change (19% are women) (IDO 1 Resilience)
- 20 different CBOs were engaged in either planning or decision making regarding the mgm't of their natural resources (IDO 4 NRM)
 - Private enterprises, producer organization, WUAs, Women groups and CBOs



Complementary Projects to WLI

- Modernizing Extension and Advisory Services- (UFL)- Willingness to Adopt
- Cross-Regional Grants Competition – (ARIJ)- Waste Water Reuse
- Middle East Partnership Initiative- (USDA Forest Service)- Jordan Watershed Restoration Project
- Embassy Science Fellowship- (US State Department, FAS)



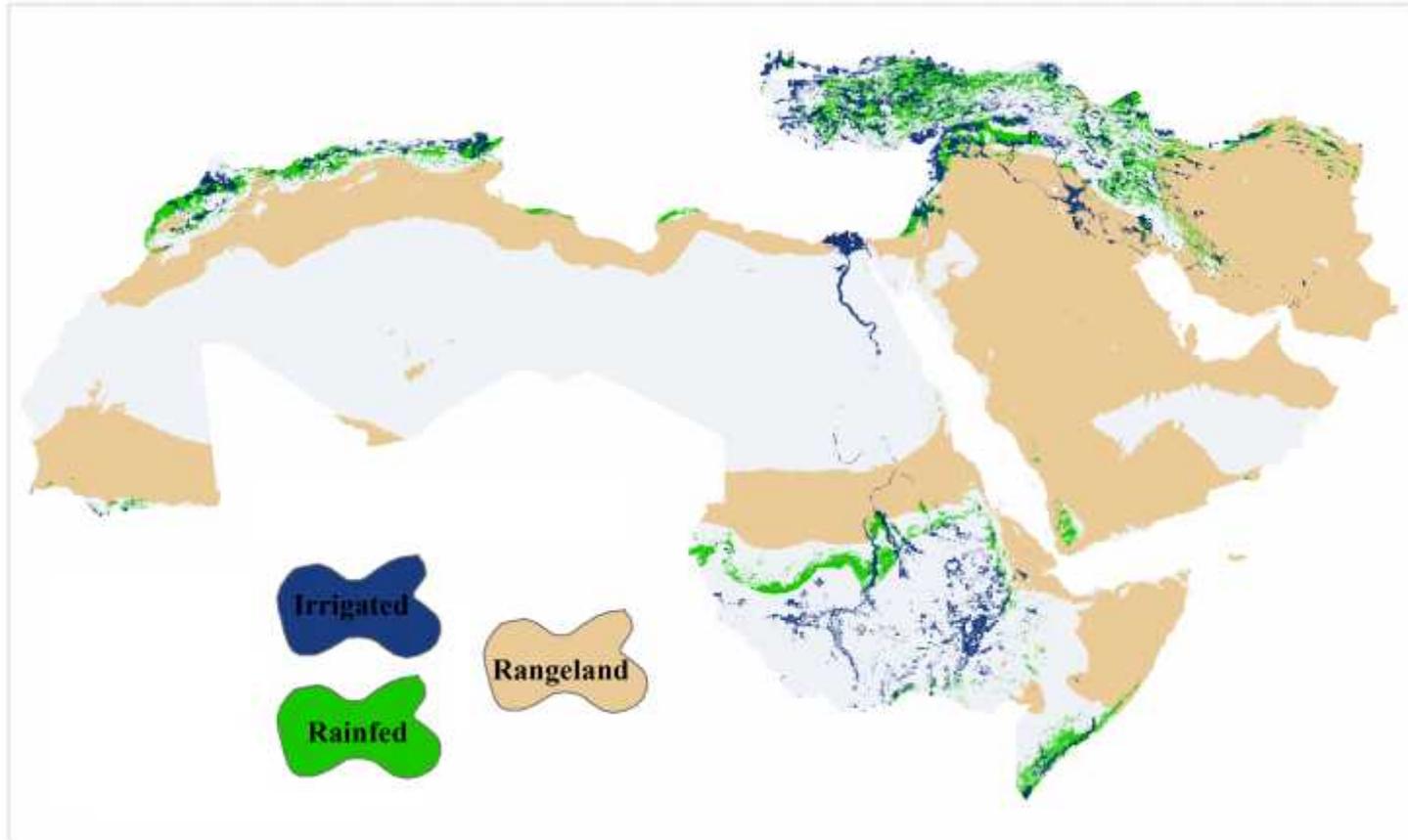
Motivation for out-scaling ...

- Technologies are being developed and tested in the Benchmark sites to improve productivity and livelihood
- Examples:
 - Rainfed** Agro-ecosystem: supplemental irrigation
 - Rangeland** Agro-ecosystem: positive soil water balance
 - Irrigated** Agro-ecosystem: raised bed package

Out-scaling of proven technologies and best bet practices to broader groups of beneficiaries, but first need to be acceptable in terms of **physical feasibility**, **culture** and **economics**.

Similarity map for three agro-ecosystems Regional level

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Mohammed Karrou, Theib Oweis, Tarek Kandakii**



Coarse maps at regional level & verification at country level

Tools to Guide WLI Community Interventions for Saving Water and Creating Economic Opportunity

Cost – Benefit Analysis Tool

Determine Costs

Calculate Benefits

Compare Alternatives

Report and Plan Action



Predicts the likely peak of adoption and the likely time to reach that peak;

Encourages users to consider the influence of a structured set of factors affecting adoption;

Engages R,D & E managers by involving them in the process and making adoptability knowledge and considerations readily available and understandable.

Impact Pathways and Theories of Change- Willingness to Adopt

Countries	Technologies
Egypt	Raised bed
Iraq	Sub-surface irrigation
Jordan	Marab
Lebanon	Conservation Ag.
Palestine	Silage production
Tunisia	Deficit irrigation for citrus production

- Assess *farmers'* perceptions of, and exposure to, the technology
- Assess *researchers'* perceptions of technology development and existing dissemination strategy
- Assess *extension agents'* perspective on existing technology dissemination strategies
- Identify potential challenges and opportunities for adoption by farmers including gender-based constraints
- Initiate dialogue between extension agents and researchers for good practices that can accelerate adoption rates
- Develop new and effective technology dissemination strategies with regional applicability.



7th Annual Regional Coordination Meeting Agenda

- Photo
- 2) Tech Development and Community Understanding in the Irrigated Systems
- 3) Rangeland Ecosystems
- 4) New Tech Packages for Water Conservation
- 5) Adoption of WLI technologies-Dissemination Strategy
- 6) Day 2, Partner Involvement
 - Keynote on Irrigation Management Practices in California
- 7) Mechanics of Rural Development/Conservation
- 8) Work Plan Prep
- 9) Finalization of Work Plan
 - Dinner



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