

Ministry of Water and Irrigation Jordan Valley Authority

Regional Experts Group Meeting Development of Comprehensive M&E System for Participatory Irrigation Management & Irrigation Management Transfer Process 2-4 Sept.,2013,Athens,Greece

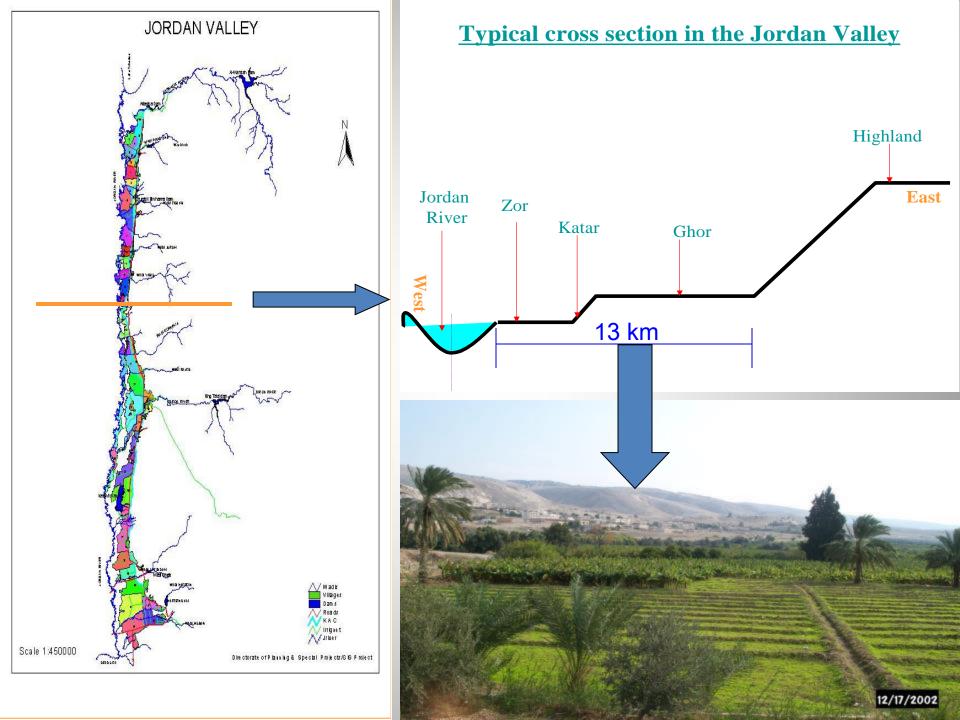
By

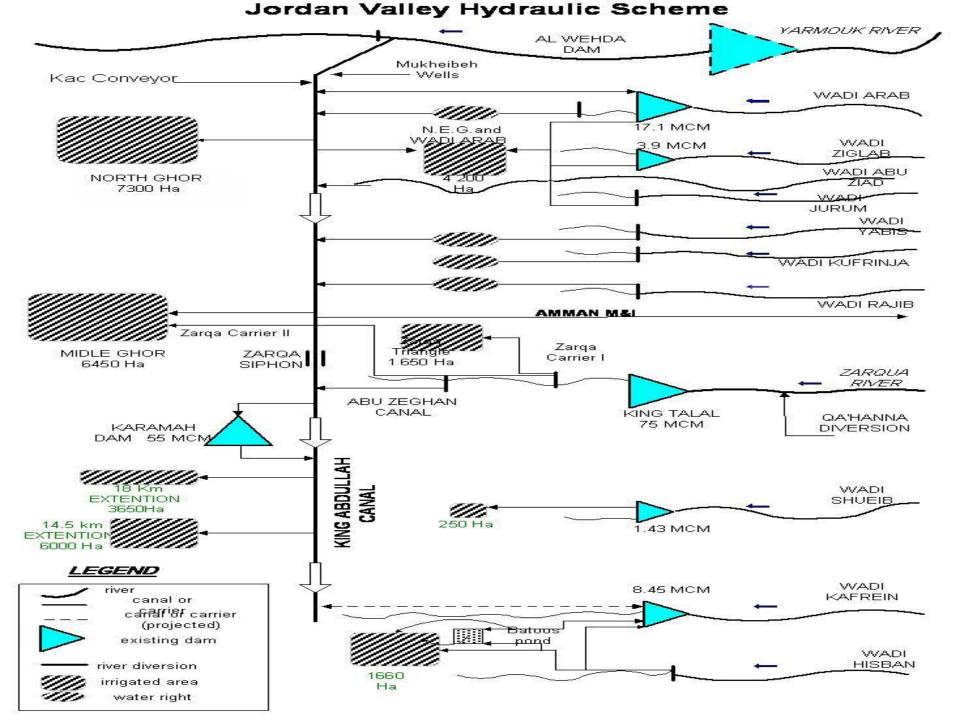
Eng.Qais Owais Secretary General Assistant for Jordan Valley

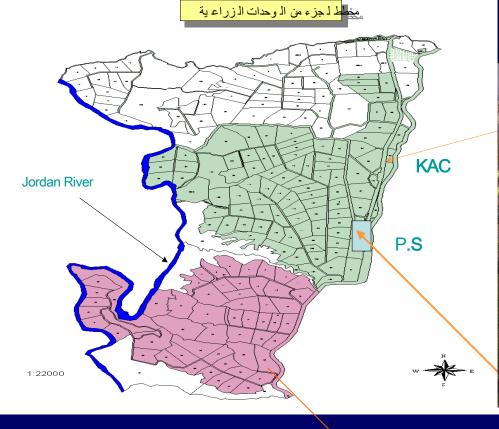
Jordan Valley: General Overview

- 360 km long.
- 10 km average width.
- 1.8% over all slope.
- It is comprises of three parts:
 - Jordan Valley.
 - Dead Sea.
 - Southern Ghors and Wadi Araba.



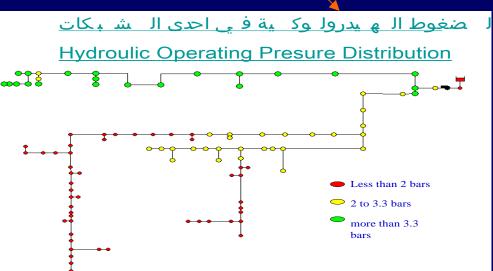








KAC

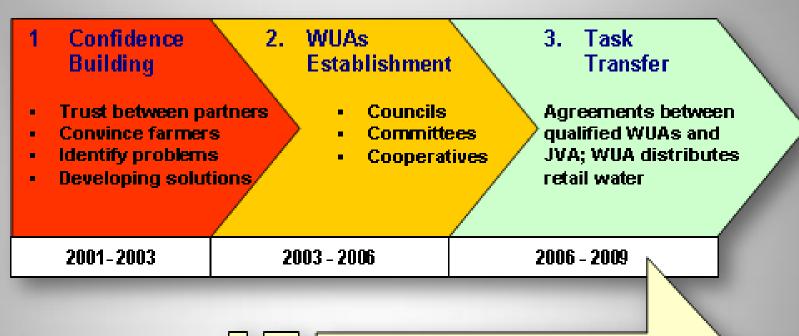


Pump station on KAC



WUAs in Jordan

Implementation phases



4. WUAs Sustaining Phase

- Prepare the bylaw for the WUAs
- Institutional framework for the WUAs and a federation.
- Establish new WUAs

October 2009 onwards . . .

WUA Legal Umbrella:

•WUA's in Jordan are registered in independent financial and administrative cooperative (under cooperative law and by law)- legal umbrella for JCC.

•JCC makes periodic visits to monitor WUAs and monitors the General Assembly Meetings.

JCC provides auditing services.

ICC provides training courses (management, accounting, computer skills,...)

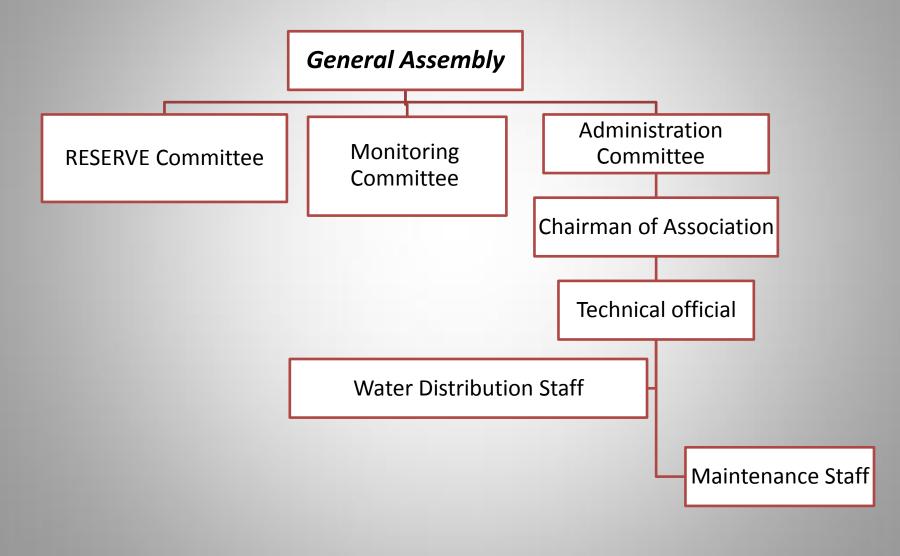
JVA plans to remove WUA's from the umbrella of JCC and bring them under the over sight of JVA (JVA has drafted a set of amendments)

JVA began to transfer water distribution function to qualified WUA's based on JVA article No.30

•JVA plans to create one representative body for all WUA's covering the JVA.

WUAs Structure

Organizational Structure of cooperative WUA



WUAs Boards

Boards	Total	Elected	Acclamation
Number of management boards	19	11	8
Number of monitoring committees	16	0	16
Number of monitoring members	145	0	145
		Volunteers	Paid by JVA
Number of board members	145	133	12

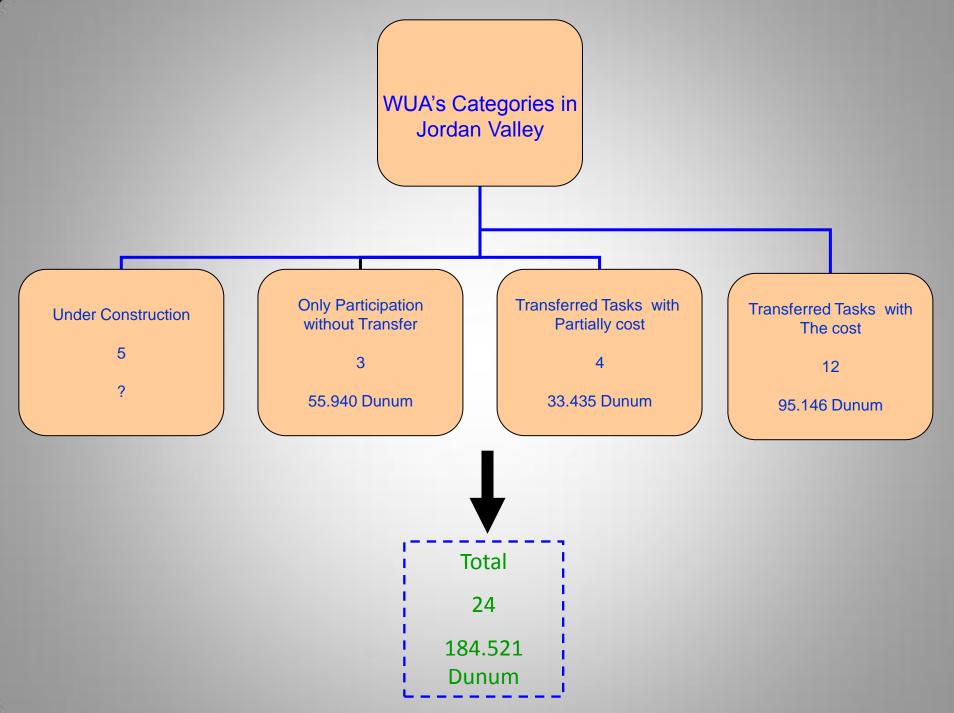
WUAs Boards Members Qualifications

Board Members Education	Number
BSc +	39
High School	57
Below High School	42
"Retired" (from military or civil service)	7
Total	145

WUAs Employees

Employees	Total	JVA employees seconded to WUAs	WUAs employees
Engineers	5	0	5
Distributers	56	16	40
Maintenance	5	0	5
Administrators	14	2	12
Guards	13	0	13
Others	3	0	3
Total	96	18	78

WUAs Categories & Tasks

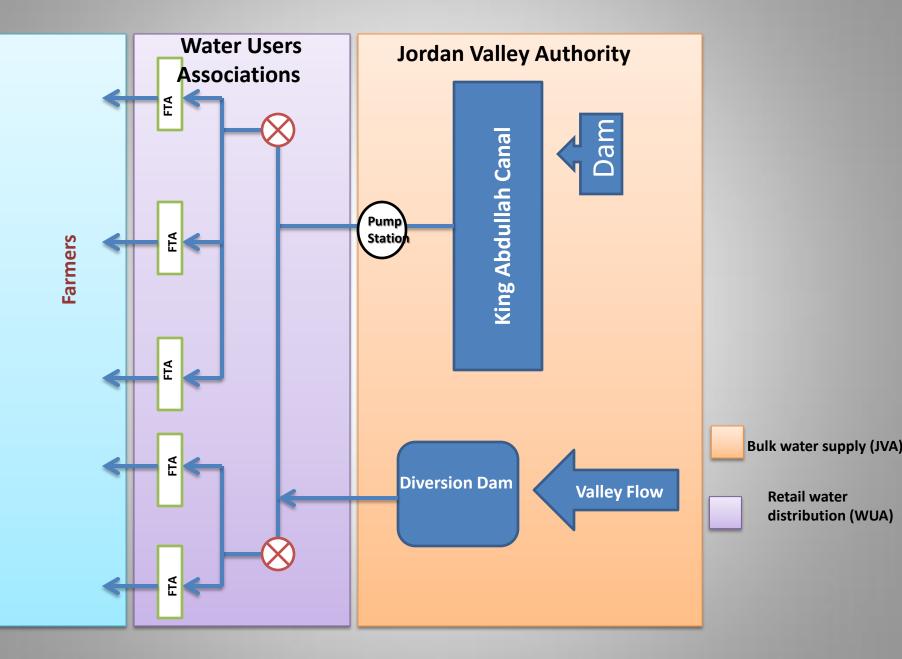


Current Tasks of WUA's

- 1. Distribution of irrigation water by watering program prepared in cooperation between the authority and the association
- 2. FTA Maintenance
- 3. Monitoring and control of illegal uses of water and attacks on irrigation facilities
- 4. Recording and documenting the quantity of consumed water
- 5. The agricultural cropping pattern documentation
- 6. Some associations help in collections

Region	Distribution & Maintenance	Distribution only	Maintenance only	Neither
Southern Ghors & Wadi Araba	ο	3	0	1
North JV	2	4	0	1
South JV / Karamah	4	0	0	1
Middle JV	2	0	0	1
Total	8	7	0	4

JVA & WUAs Tasks area

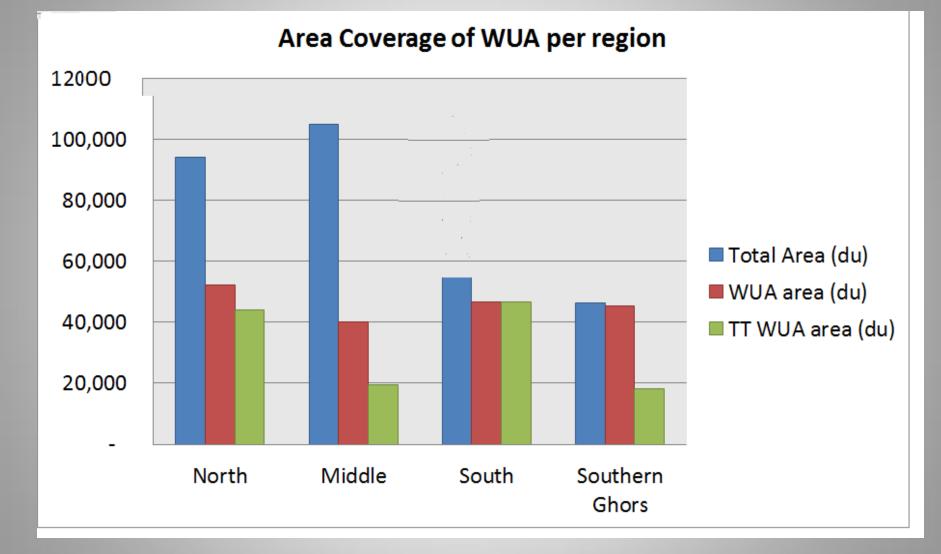


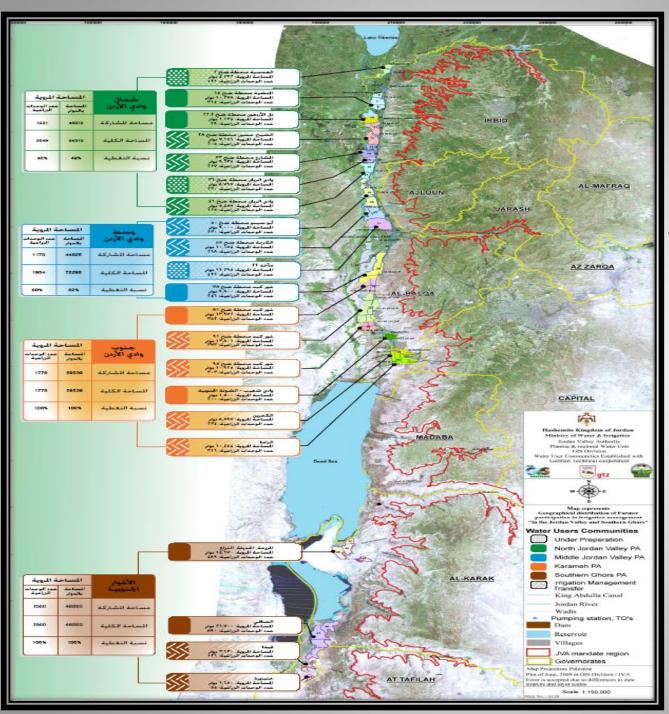
WUAs Coverage & Area Distribution

Coverage Area by WUAs

Category	Number of Farm Units	Percentage
Total Farm Units in JV & S-Ghors	8,422	100%
Farm Units at WUAs	5,987	71% of total units
	Area (du)	
Total area in JV (irrigated)	296,736	100%
WUAs service area (members & non- members)	184,521	62% of total area

One Farm Unit = 30 – 40 du (1 du = 1000 m2)

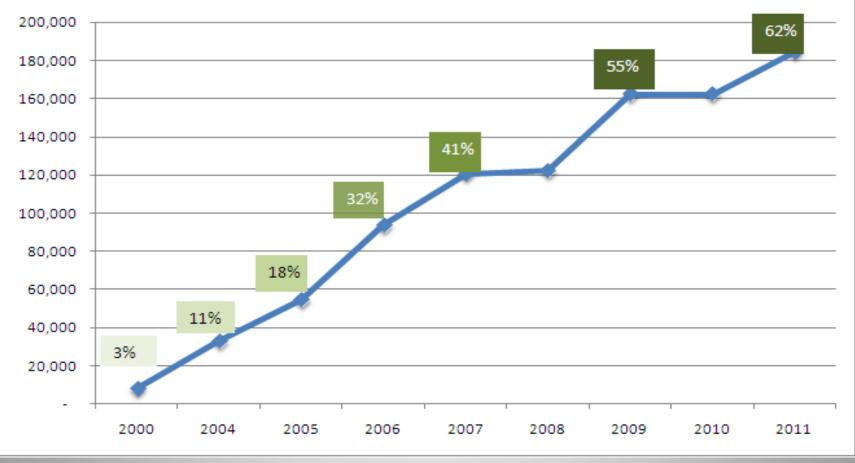




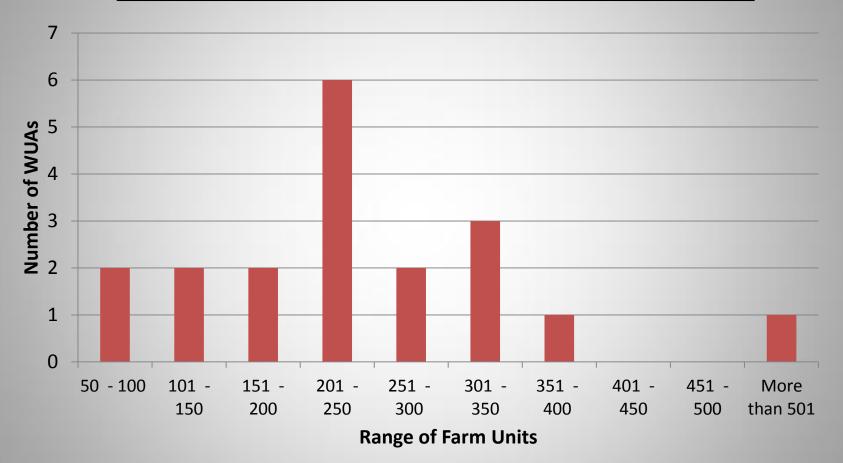
Geographical distribution of WUA's in the Jordan Valley

Participation Statistics

Official Farmers' Participation Cumulative area (du)



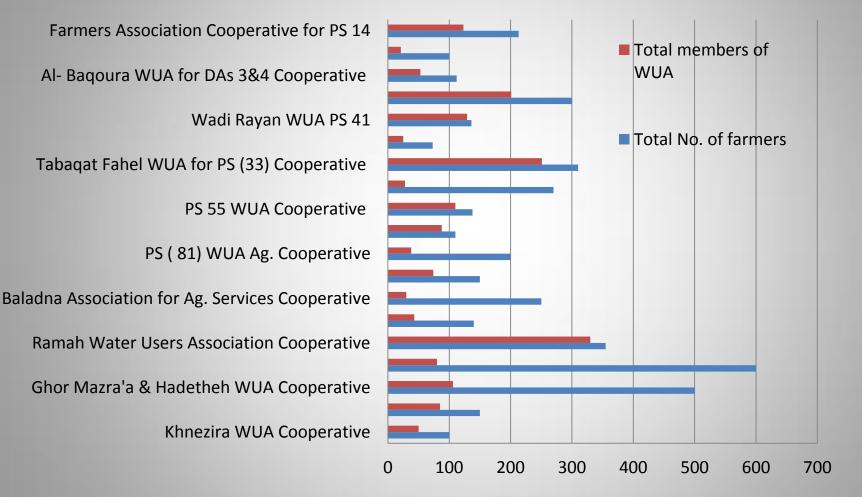
23



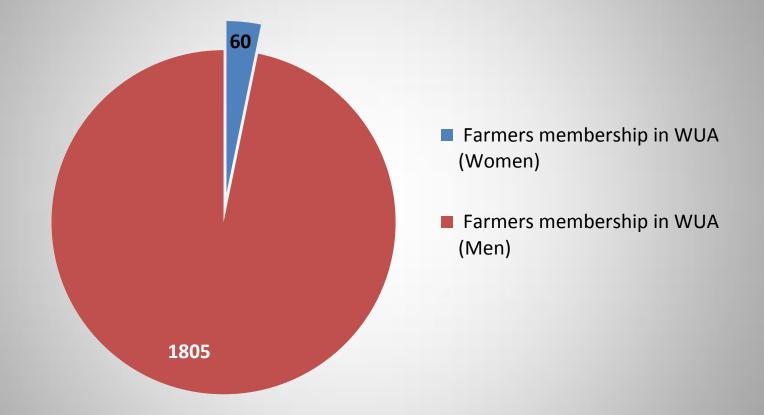
Size distribution of WUAs according to number of farm units

24

Member and non-member farmers in WUAs



Farmers: Membership of WUA (Gender)

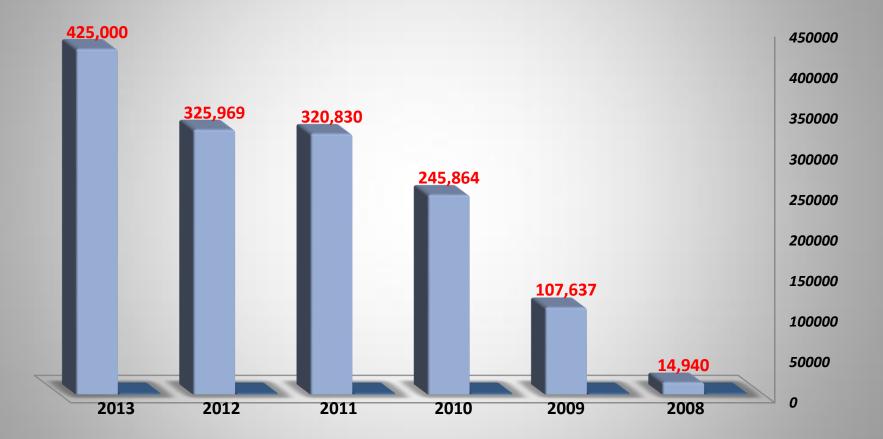


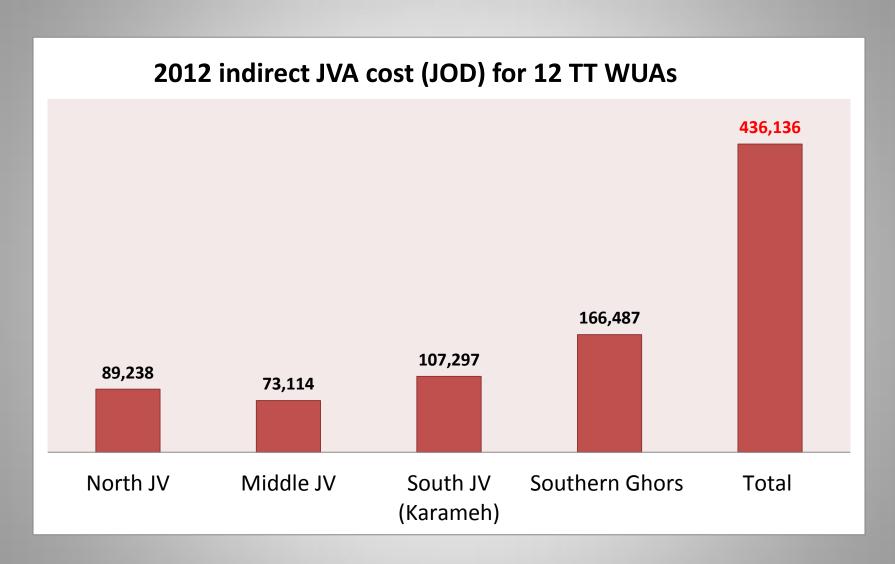
Financing WUA's

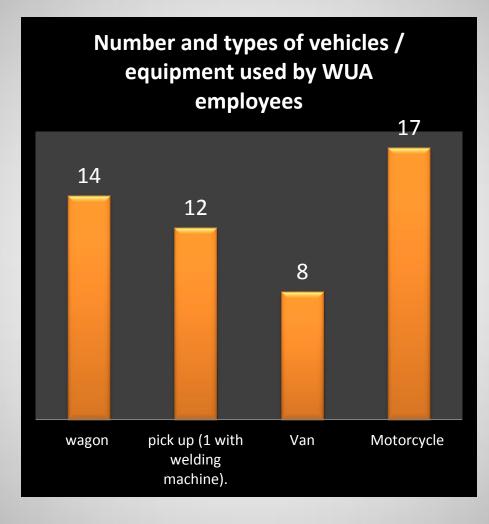
Financing Facts

- WUA's do not have a water quantity agreement with JVA
- WUA's members must pay service fees directly to JVA (for water supplied by JVA and WUA's) at the end at each month
- WUA's are receiving almost all their O&M funding from JVA through TT agreements
- Average irrigation water cost is 65 fils /cm
- Average irrigation water revenue is 12 fils /cm
- JVA is going to reduce the subsides to WUA's and will increase the irrigation water tariffs

Total Contract Value(JOD/Year) for TT





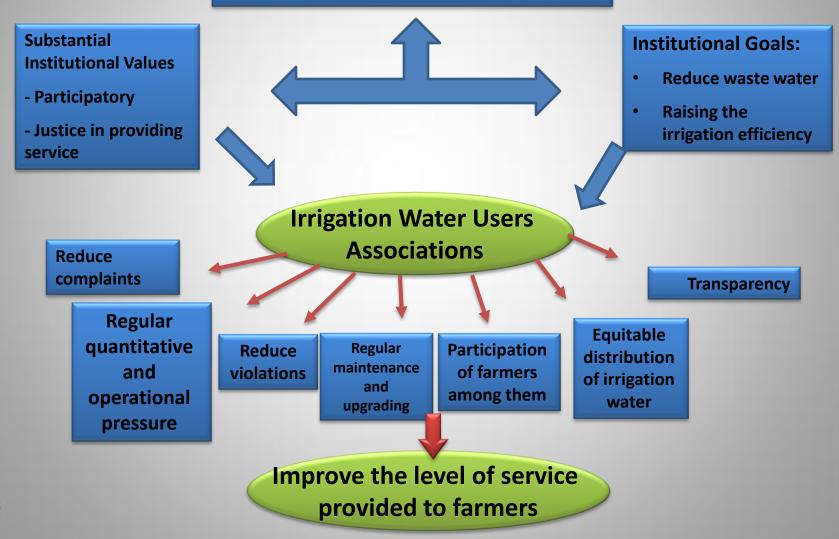


.

WUAs Performance Evaluation

National targets:

Raising the performance of infrastructure & improve the level of services provided to citizens

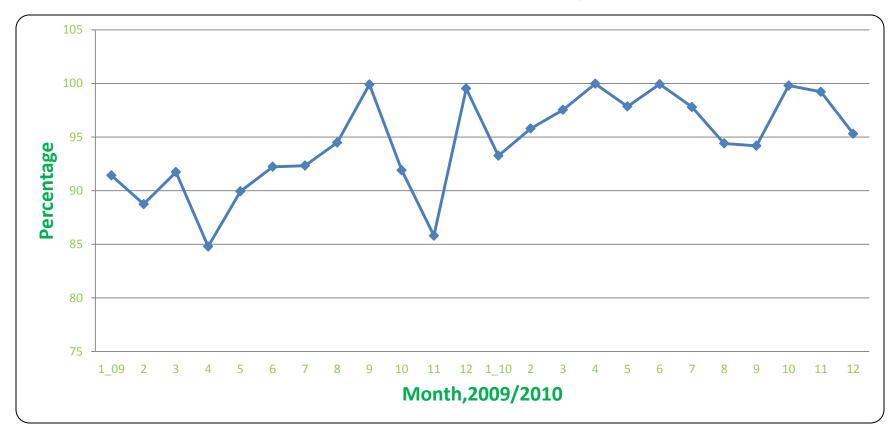


Methodology of Data Collection:

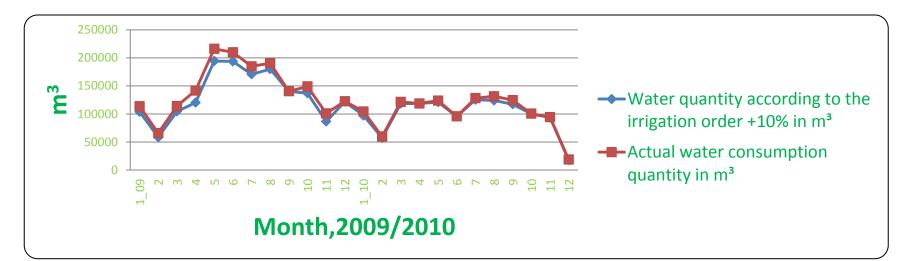
- Interviews
- Daily Site Reports(JVA&WUA's)
- Meetings
- Questionnaires and Field Survey
- Brain Storming
- Focus Groups

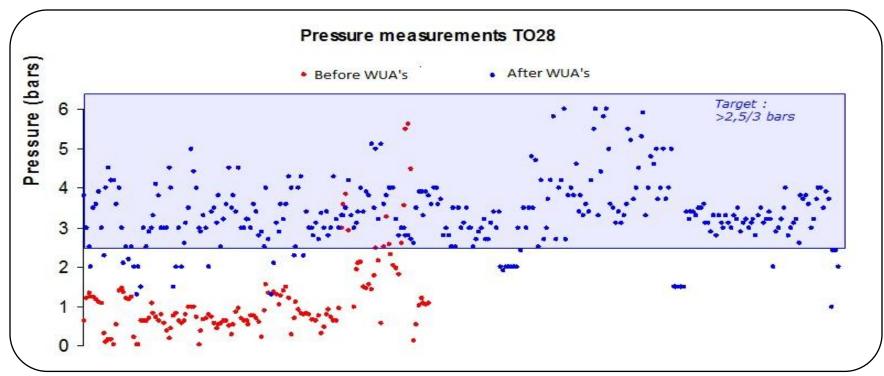


Distribution Efficiency

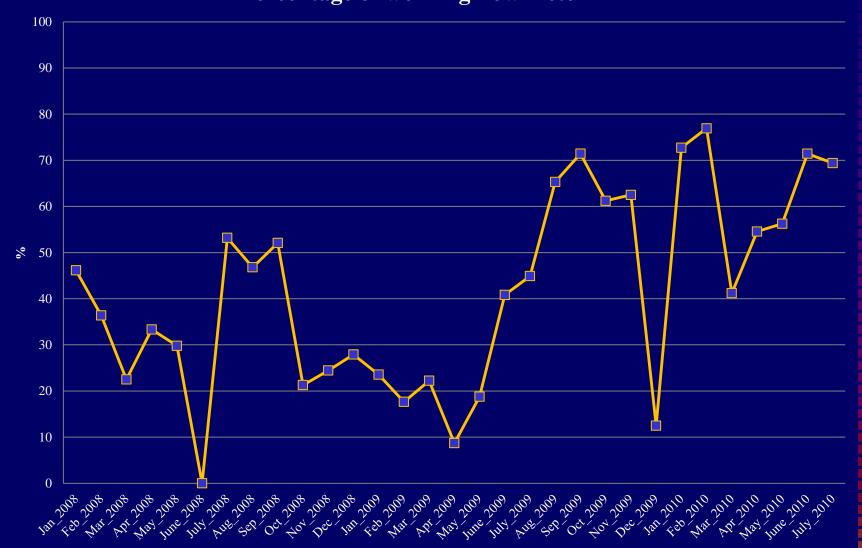


Indicator: Water consumption



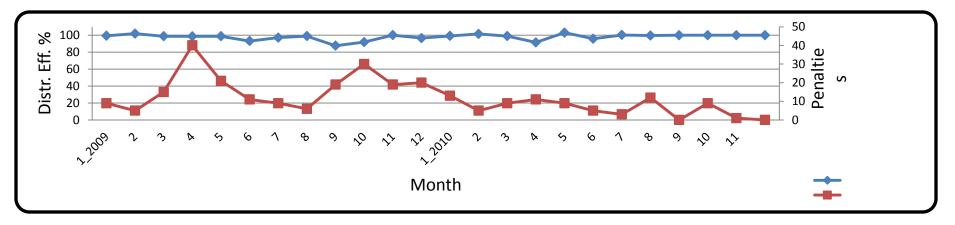


Pump Station 28 Percentage of working flow meter

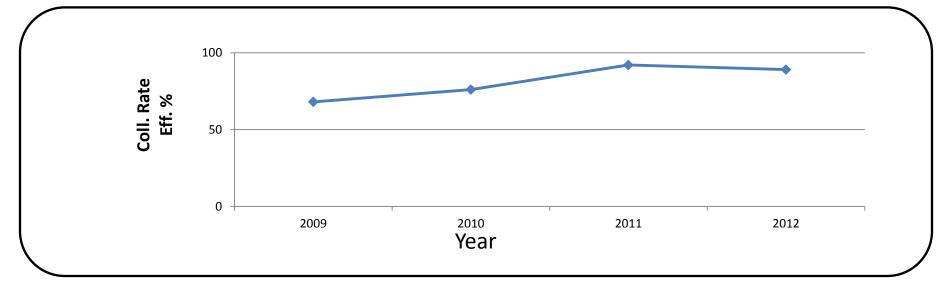


WUA - 55

Distribution eff. And Penalties

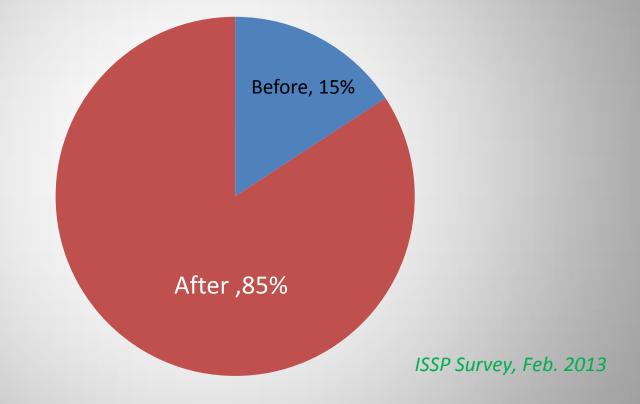


Collection Rate eff. WUA 91 South



Farmer Sastisfaction

Which service is better—before or after WUAs?



Farmer satisfaction <u>Technical Level / Quantity and Operating Pressure</u>

	Level of Satisfaction					
Indicator	Strongly disagree	Disagree	Neutral	Agree	Strongly Agree	
1. Always I receive the amount of water specified in the irrigation order	7	4	0	12	5	
2. There is no fluctuation in the amount of flow	3	11	1	12	1	
 Water is distributed fairly among farmers in accordance with the water quota 	2	6	1	14	5	
4. Water pressure is consistent and sufficient	0	14	1	9	4	
5. Response to maintenance requests for irrigation system are quick enough	0	7	2	10	9	
Total	12	42	5	57	24	
%	9%	30%	4%	41%	17%	

Managerial Level / Staff and Services

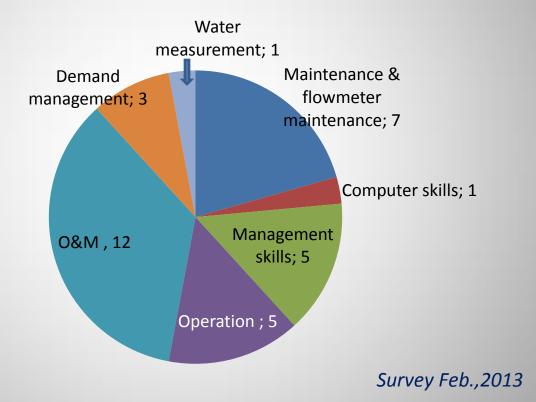
Indicator	Level of Satisfaction						
	Strongly disagree	Disagree	Neutral	Agree	Strongly Agree		
1. The Head of the WUA is in constant contact with you	1	1	2	12	12		
2. WUA staff are qualified technically	3	2	1	18	4		
 WUA staff respond quickly to maintenance orders and issues related to water distribution 	0	0	1	13	14		
4. WUA staff show the appropriate level of professionalism and respect in dealing with you	0	0	1	13	14		
5. WUA staff treat equally all farmers	0	12	0	2	14		
Total	4	15	5	58	58		
%	3%	11%	4%	41%	41%		

Managerial Level / Staff and Services

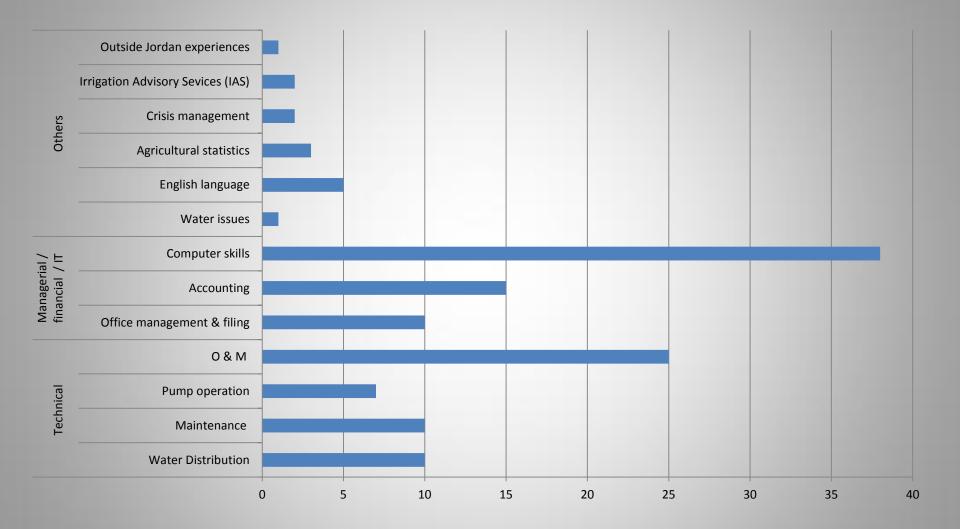


WUA's Capacity Building

Total training courses received by WUAs

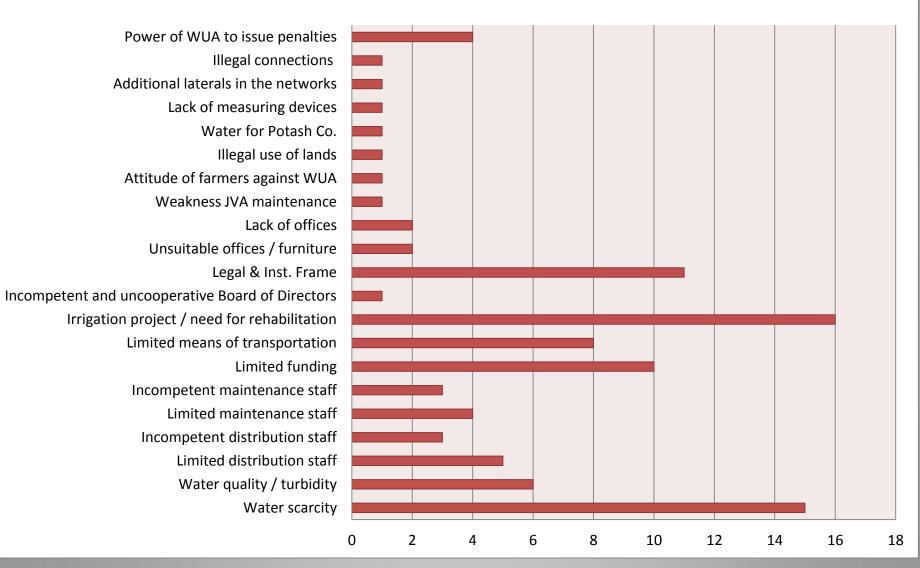


Training needs for WUAs(survy,Feb.2013)



44

Constraints Facing WUAs (Survey June, 2012)



WUAs Performance Evaluation





Proposals for the Future Tasks of WUAs

- Expanding areas of farmer's participation in horizontal and vertical (geographic coverage and expanding the tasks)
- Self-sustainment cost management of water through (water prices, maintenance, ticket revenues)
- Receive all water management tasks after source
- Pumps Functions
- Collect the Water Prices & Proceeds with tickets.
- Maintenance
- Oversight Functions & Irregularities.





Proposals for the Future Tasks of Water Users Associations

- Receive all water management tasks after source which include in addition to current tasks:
- Pumps Functions.
- Collect the Water Prices & Proceeds with tickets.
- Maintenance
- Oversight Functions & Irregularities.

Key Conclusions & Recommendations to Date

- Improved services by WUAs (effective and efficient)
- Resulted in positive impacts
- Well received / appreciated by members and non-members farmers
- Have to support the experience by
 - Rehabilitation of network (urgent)
 - Provide suitable legal frame
 - Training
 - Allocate necessary funding to WUAs
- Marketing and extension services to farmers
- Expand WUA coverage horizontally and vertically





Thank You



Disk filter and sand filter

