

# **REPORT ON SWIM-SM**

EVALUATION WORKSHOP OF THE PILOT IMPLEMENTATION FOR THE M&E SYSTEM TO MONITOR AND EVALUATE THE PARTICIPATORY IRRIGATION MANAGEMENT (PIM) AND IRRIGATION MANAGEMENT TRANSFER (IMT) PROCESS

15- 16 September 2014 Amman-JORDAN

(SWIM-SM Work Package 1, Activity 1.2.8.4



















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### 1. BACKGROUND AND OBJECTIVES

The EU-funded "Sustainable Water Integrated Management – Support Mechanism" (SWIM-SM) Project organised a two-days evaluation workshop in Jordan for the partners in the country who have been engaged in the pilot testing of the regional monitoring and evaluation (M&E) system that was developed in 2013 to monitor and evaluate the Participatory Irrigation Management (PIM) and the Irrigation Management Transfer (IMT) process.

The workshop falls under the "Water Governance at the Local Level:" thematic pillar of the SWIM-SM project as part of its 4 year work Plan

The Evaluation Workshop was organised within the framework of the SWIM-SM by LDK; the leading company in the SWIM-SM consortium, in close cooperation with the Jordan Valley Authority (JVA) and with the "International Centre for Advanced Mediterranean Agronomic Studies (CIHEAM) / Mediterranean Agronomic Institute of Bari (IAMB)" which was hired by the SWIM-SM to convert the proposed M&E system into a computer application.

The objectives of the workshop were to:

- Analyse the monitoring and evaluation results of the PIM/IMT process as a result of applying the M&E system application in the pilot areas in Jordan;
- Based on the M&E results Identify actions needed to improve the PIM/IMT planning and implementation;
- Identify lessons learnt and recommendations for system refinement

A total of 23 participants attended the evaluation workshop. These included in addition to the four SWIM-SM experts, 14 partners representing the Jordan Valley Authority (JVA); the irrigation agency responsible for the irrigation schemes in the country, the Water Users Association (WUA) Support Unit at JVA, the regional operation and maintenance directors/officers involved in the pilot implementation of the M&E system, namely the "North Valley" and "Karameh" Directorates in addition to the designated water officials from the two WUAs that were selected for the application of the system at the local level (WUA 41 and WUA 91). The evaluation workshop was also open for the IT specialists at JVA, who will be responsible for providing support to the users of the system in the future, in addition to donors who are active in the field of PIM/IMT. The detailed list of participants is included in Section 7.

The language of the evaluation workshop was Arabic and English.

The evaluation workshop was intended to enable the target users of the M&E system to review the evaluation results emanating from the entry of real data and information into the system – data entry for all levels (national, regional and local). Prior to the workshop, intensive data collection was undertaken; requiring considerable support from SWIM-SM, to enable the customisation of the available data to suit the needs of the system.

### 2. METHODOLOGY AND STRUCTURE OF THE EVALUATION WORKSHOP

From a methodological point of view, the workshop was structured to be highly participatory and interactive among all participants. The participatory aspect was particularly relevant since the workshop was meant to facilitate the dialogue between JVA officials (at the national and regional levels) and the representatives of the WUAs so as to understand the mutual needs and present limitations.

During the workshop, the following professional learning tools were used:

- Presentations to clarify or review some of the main concepts related to importance of M&E.
- Open discussions of the M&E results and other emerging topics



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- Review of the main features of the M&E system "computer application" and interaction with the participants for its improvement
- Interactive workgroups to prepare the action plan needed based on the evaluation results of the M&E system
- Use of facilitators during the workgroups

Although the participants had different professional levels, this was not an obstacle for the understanding of the proposed system that was designed to suit all levels.

# 2.1 Structure of the evaluation workshop

The evaluation workshop which was held over two days (15 & 16 September, 2014) as per the detailed Agenda in Section 6 of this report, was structured in four main parts in order to achieve the planned objectives:

- Part I: Overview of the main characteristic of the evaluation system, including a complete tour of the updated version of the system/computer application.
- Part II: Evaluation of PIM/IMT at the National and Regional Levels and Development of action plans
  - Evaluation of the M&E results at the National and Regional level. Since the system is divided into four main modules (A, B, C, D), this part focused on modules A and B; pertaining to the monitoring and evaluation of the government interventions in support of PIM/IMT.
  - o Identifying the main actions needed in the future by the JVA at the national and regional levels, as a result of the evaluation of the outputs and outcomes identified.

### Part III Evaluation of PIM/IMT at the Local Level and Development of action plans

- Evaluation of the M&E results at the local levels (i.e. evaluation of the selected WUAs implicated in the pilot implementation of the M&E system). This part is essentially dealing with module C pertaining to the monitoring and evaluation of the WUAs performance and module D; related to assessing the socioeconomic and environmental impacts of the WUAs' operationalisation.
- o Identifying the main actions needed in the future by the WUAs (local level) as a result of the evaluation of the outputs and outcomes identified at the respective level
- Part IV: Summarizing the lessons learnt from the pilot implementation at all levels (national, regional and local)

A certificate of attendance was also awarded to all participants at the end of the workshop. The detailed agenda is available in Section 6 of this report.

### 3. OUTCOMES

- The system has been designed to allow customization to the specific conditions of Jordan at all levels (national, regional and local).
- The M&E computer programme provides detailed evaluation reports for each outcome (and related outputs) at each level; national, local and regional. However, the reporting part at the local level still needs finalization.
- The points system used for the evaluation system provides a clear view of the degree of achievement in the implementation of the PIM/IMT programme in Jordan with respect to the respective outputs and outcomes



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### 3.1 Outcomes of the Analysis of the evaluation results at the national and regional levels

Analysis of the above mentioned results allowed the identification of the following important shortcomings as well as the major achievements:

- There is a lacking in the planning for PIM/IMT (Indicator A03010) that allocates the human and financial resources and the time frame required for the implementation of the program.
- Presently the WUA associations are established under the cooperative law in the absence of a dedicated law for Water Users associations.
- The legal framework for JVA was assessed/revised during the implementation period of PIM/IMT to ensure its suitability for the legal establishment of the WUAs (indicator A04010). However, the positive answer provided at the national level for this indicator was challenged by the WUAs. It was indicated that the participants should not make any conclusive judgement about the legal framework for the WUAs before analysis of all the relevant indicators is made. In this particular case, A04010 was one of several indicators to evaluate (a) whether the legal framework was formulated or revised and in use and (b) whether the government is effectively regulating WUAs establishment and functioning and the implementation and management of the PIM/IMT programme. JVA's response to the other indicators at the national level offers a good example in this regard, whereby JVA indicated that although the impact of the existing laws on the PIM/IMT performance was assessed, no improvements were made to the legislations.
- Although reorientation of irrigation agency staff has taken place (Indicator A05010); involving the assignment of new relevant roles to the irrigation agency, as a result of the PIM/IMT, and despite the administrative measure to decrease the staff dedicated to O&M activities as a result of the transfer of such activities to the WUAs, the numerical indicators show that the staff of the irrigation agency dedicated to O&M tasks has been increasing at the national and regional levels when a decreasing trend is warranted (M05080). Furthermore, O&M costs depicted at the local level are also increasing (example variable C05081). This suggests the need for JVA to develop a long term vision for the transfer of O&M tasks¹ and a policy for the concomitant reduction/redeployment of staff.
- Transfer of Irrigation schemes is progressively undertaken with due consideration to relevant technical and socio-economic criteria (Indicator A05110). Normally the transfer takes place after the preparation of a technical report regarding the condition of the irrigation system to be transferred and following training of WUA leaders and staff. Should the WUA meet specific technical and socioeconomic criteria under the Participatory model, transfer of irrigation management (in the case of Jordan distribution of water to farmers and in some cases minor maintenance works) is pursued. Such criteria include the level of farmers' representation (The WUA should represent 80% of the farmers).
- The JVA strategy that foresees that "WUAs will take full management responsibility of their irrigation system at end of the PIM/IMT program (Indicator A05120)" was seen by the WUAs as a project not yet implemented, considering the limited functions assigned to the WUAs. Since the indicator addresses the future vision by the end of PIM/IMT, this should give JVA the motive to sharpen its vision with respect to the final scope of the WUAs' functions and to develop the road map to get there.
- The presentations of the sample results of the evaluation at the regional level demonstrated both the similarities with the evaluation results at the National level and differences including the absence of structured coordination mechanism at the regional level (compared to the national). However, the meetings with the relevant stakeholders held regularly at the regional level, render coordination more effective.

<sup>&</sup>lt;sup>1</sup> Confirmed by the zero score obtained on the indicator "A05100" related to the "adoption of adequate policy/strategy by the Irrigation Agency to ensure effective transfer of O&M responsibilities to the waters users"



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- The lack of financial resources for the rehabilitation of irrigation systems to be transferred or that has already been transferred - to the WUAs, contribute to the discrepancies in the allocation of rehabilitation funds between the regions.
- Almost all the money that was invested in rehabilitation during the past ten years has been in favour of
  the North region at the expense of the Karameh directorate in the South, which has adversely affected
  the respective performance of the pilot WUA (WUA 91). This demonstrates the importance of carrying
  out the M&E analysis not only at the national level, but also at the regional level, to catch variations in
  the implementation of PIM/IMT between the regions.
- In view of the above, the spatial resolution for PIM/IMT planning and data collection and analysis should consider each of the different regions in the country that are targeted by PIM/IMT
- JVA has not been as active during the past two years (2012 and 2013) in establishing new WUAs or transferring areas to existing ones (N01040).
- Should the northern directorate implement the awareness meetings as planned, then the farmers participation will automatically improve (indicator N02060).
- Reaching the farmers that need awareness raising should be part of a plan for awareness campaigns
  covering a period of at least years. This should facilitate quarterly monitoring of the actual progress
  made on this indicator with respect to the plan. Corrective measures can be taken accordingly.
- The same applies on the training of relevant JVA staff (at the central level and in the regional offices) and the training of WUA leaders and staff, which should become part of an annual training plan, that is regularly monitored to enable corrective actions in due time.

### 3.2 Outcomes of the Analysis of the evaluation results at the local level

- Data availability for Module D is scarce
- Good practices in WUA operationalisation require that:
  - The membership of farmers is compulsory. This is not the case in Jordan. Specifically WUA 91 needs to increase the number of registered farmers. In the next statute, membership in the WUAs will be redefined
  - The general assembly meets once a year (this is not practiced in WUA 41)
  - Conflict resolution committee report to the General Assembly (although the committee is established and conflicts are documented, nothing is reported)
- Although the degree of satisfaction of the farmers with the performance of WUA 91 has significantly
  increased since the beginning of transfer, however, the lack of rehabilitation in the transferred irrigation
  system did not allow the WUA to attain higher level of achievement.
- As a result of the topography of the area served by WUA 91, and the fact that there are no flow limiting devices, the average flow (C04041) and pressure (C04042) at the lower turnouts in the irrigation systems could be higher than those at the upper turnouts.
- All indicators related to the degree of satisfaction of farmers and government staff with the WUA performance (C04061, C04062 and C05060, and C05070) need to be systematically based on surveys
- Due to the limited functions of the WUAs in Jordan (involving only the distribution of irrigation water and minor maintenance works), most of the O&M costs are still incurred by the irrigation agency and related data are hosted at JVA.
- The indicators related the O&M costs (incurred both by the WUA and JVA) show increasing costs in both piloted WUAs



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- The financial sustainability of both JVA and the WUAs is not possible with the current cost recovery rates of 27% of the total annual costs in 2013 (consider the average value of water billed during that year).
- Several documents including the operation guidelines already exist. These should be integrated into the WUA operational procedures. The same applies on the maintenance guideline proposed as a result of the analysis of the M&E results at the local level.
- Other documents such as the training material for the WUA leaders and staff and the results of the WUA surveys should be disseminated to the WUA.

### 3.3 Action Plans

The formulation of the action plans were developed in mixed workgroups involving representations from all levels. This exercise which emanated from the evaluation at the National, Regional and local levels demonstrated how well the participants were able to interpret the results. The plans of action are included in Annex 1 for the national level, Annex 2 for the regional level and Annex 3 for the local level. The plans provide a good vision of the most urgent actions that JVA (including its regional offices), and the WUAs need to take to address the main shortcomings, improve the status of implementation of PIM/IMT in the country and the performance of the WUAs.

It is worth mentioning that two major actions emerged at the national level: one was the need for preparing a national vision where the road map of the development of the WUAs is clearly specified. The other one was the need to prepare a PIM/IMT plan covering a horizon of 3 years where the financial and human resources are well defined and committed. The review of the legal framework also emerged as an important activity, in addition to the establishment of effective coordination mechanism at the regional level.

At the local level, a great effort was made in the collection of data that covered information for years 2010, 2011, 2012 and 2013 which permitted to see the historical evolution of the indicators. The system showed a great capacity to identify shortcomings in the achievements of the outcomes (and corresponding outputs) at this level, as well as the achievements made.

In general terms the WUAs are functioning well from the organizational point of view but control of cost is limited, the efficient operation is also limited by the old irrigation networks, and maintenance is also limited due to the fact that they are only responsible for minor maintenance. The number of farmers that do not pay the services are increasing and arrears from previous years are also logically increasing. The degree of satisfaction of the farmers with the performance of the WUAs is moderate ranging in the 60-80 %, however the performance of the WUAs are strongly affected by the limited responsibilities designated by JVA so far.

### 3.4 Proposed Refinements in the System

On some occasions, small improvements were suggested to refine/sharpen the definition of the indicators or change the settings of the system including the scoring criteria according to the local experience. **The proposed improvements were categorised according to the following**:

- 1. Refinements to the computer application (to be undertaken by CIHEAM during this phase of the contract). It should be noted that since the system has great facilities for customization, some of the recommended adaptations were immediately incorporated by CIHEAM.
- 2. Further changes in the system settings to suit the local conditions (to be Undertaken by Jordan)
- 3. Refinements to the M&E System involving possible changes in the approach (that can be accommodated by CIHEAM beyond<sup>2</sup> SWIM life).

<sup>&</sup>lt;sup>2</sup> Both SWIM-SM and CIHEAM have been engaged in continuous refinement of the system throughout 2014 to accommodate the customization needs of both Jordan and Tunisia. Considering the time that has been put-forth in this regard, it was decided that



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For the sake of complete documentation, the proposed improvements are listed in annex 4.

### 3.5 Data that need verification by JVA

Another outcome of the analysis of the evaluation reports was the detection of some conspicuous figures that needed further investigation or verification by JVA for re-entry in the system. These **are listed in Annex 5** below.

### 4. Lessons Learnt

In general the discussions illustrated that the participants have a strong appreciation for the system. Since the M&E system application helps identify the decisions and actions that are needed to improve the PIM/IMT process, it can serve to some extent as a decision support system. The following points were expressed by the participants in terms of the perceived lesson learnt. They have been grouped into four main issues / questions around which the discussion was made in order to facilitate the responses.

### 4.1 JVA staff

### 1. On the results of the system

- The M&E system is very important for JVA; not only for its capacity to monitor performances at all levels but because it has been an eye opener to some of the deficiencies and the issues that need to be addressed/resolved.
- The system is not only for monitoring and evaluation but is a good tool to help in planning and decision making. In that sense it can be considered as a decision support system. The results of the system should be adopted by the decision makers.
- Plans and vision are the missing ingredients in the PIM/IMT process in Jordan as clearly evidenced by the system.
- The system has made evident the need to prepare an action plan for the next 3 years. This should include the necessary human and financial resources (including resources need for equipment such as computers, printers, etc.) to support the PIM/IMT process. The development of the plan will also support the M&E system adequately.
- The implementation of the actions identified as result of the evaluation should be supported by another project or institution to ensure the sustainability of the pilot implementation results
- Documentation and classified information are very important in evaluating performance and this
  is what the system allows for.

### 2. On data collection and data flows

- The system is data intensive requiring considerable time for data collection by all involved parties to run and test the system. A lot of direct coaching by SWIM expert was needed to clarify the concepts (to ensure that results are reliable and reflecting the intended meaning of the indicators/variables) and to standardise the methodology used for the calculation of the indicators and variables, at all levels.
- The volume of information needed is very large. In order to enable regular utilisation of the system, JVA will need to adapt their present information system to facilitate the data entry into the M&E system. This is task will require some time and external support.
- The data flow procedures should be clearly defined involving all relevant departments (including the human and financial resources departments) to integrate the requirements of the system into its business functions. JVA will need to delineate data flows from the different departments/donors to ensure timely availability of data for the system, which will require a follow up period of 6-12 moths from SWIM.

some of the proposed refinements will be undertaken by CIHEAM but not as part of its contract with SWIM, since the actual level of effort (LOE) has already been double if not triple the planned LOE on both sides.



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- The M&E system has put in evidence the limitation of not having cost centres that would allow improved knowledge of JVA O&M costs at the main intake (pump station) of each WUA. Having such cost centres would also allow aggregating O&M costs at the regional and national levels. In this regard, considerable number of data had to be estimated since the required data were not available on a segregated level. The JVA system of financial data collection should be modified to provide more readily the required information for the system.
- Likewise, all PIM/IMT related data had to be estimated for each region to the best of JVA's knowledge (Ex: Financial allocations, human resources, training, awareness campaigns, etc.)

### 3. On Potential improvements for the system

- The meaning of some of the indicators was not entirely clear. The cumulative effect of SWIM coaching and the workshop enabled better understanding of such indicators.
- The Arabic version of the system (when finalised) should also facilitate the understanding of the indicators.
- The number of indicators at present is very large. Reduction of the number of indicators is desirable. This, together with the capacity of the system to inactivate (a) the indicators that are not considered relevant in a given country or where results can be indirectly deducted, and (b) the data which have proven difficult to collect, should make the system more manageable.
- o Although some graphics are now provided more detailed information is needed.
- Range of scoring is limited in some cases but the system offers good possibilities to change or adapt them to local situations.

### 4. On Management of the system

- The communication with the WUAs needs to be strengthened to have a better understanding of their problems and needs. The system offers good basis to improve this communication which is much necessary.
- The management of the system under Intranet or internet (cloud) was largely discussed but it was considered that the WUAs will have practical difficulties with it. Hence it was considered more appropriate to continue with the installation of the system in individual computers. However, JVA may install it in its Intranet system to allow a more general use within the organization.
- The support of the SWIM and the developers will be needed in the future in order to anchor the utilisation of the system in JVA, including further training on the latest version of the system.

### 4.2 WUAs representatives

- They expressed high satisfaction with the system which they consider essential for their work because it allows for measuring the performance of the associations.
- Many of the difficulties that they face have their origin in the lack of vision of what will be the
  future development of the associations. There is an urgent need for JVA to develop a clear vision of
  their future.
- Although the functioning of the system is clear, adapting the information and integrating it into the WUA data collection procedures will require a follow up period of 6-12 moths in which they will need support from JVA and SWIM experts.
- New computer facilities will be needed since the existing ones are old and not suitable for the system, whereas other associations do not have computer facilities.



### 4.3 SWIM-SM consultant

The consultant was requested to provide his view on the future needs of the PIM/IMT program In Jordan and they are summarized below:

- The PIM /IMT program has already accumulated considerable experience since its start in 2002. The processes for the initial establishment of the WUAs are well defined and most of the WUAs have a good organization and do a reasonable operation and maintenance. However they are too limited in their financial responsibilities. JVA should not only accelerate the transfer of more functions but also delegate more financial responsibilities.
- The present organization of the WUAs as cooperatives presents several limitations that were discussed during the event. It would be more adequate if the WUAs are part of the organizational structure of JVA but with a high degree of independence. This may require special authorization to JVA by the Ministry of Water resources. If in the next future this is not feasible the JVA should implement some financial incentives for the farmers that are member of the associations as compared to those that are not members (at the present there is no particular advantage for a farmer to become part of the WUAs).
- The M&E system could be a useful instrument to evaluate the WUAs that have higher performance and therefore to evaluate those that are more prepared to undertake more functions.

### 5. Evaluation of the Event

At the end of the workshop the participants filled an evaluation form to express their opinion about the efficiency, effectiveness and soundness of both the organization and delivery of the workshop. The form is divided in 2 parts (A and B). Part A evaluates the planning for the workshop and the organizational and administrative issues before and during the workshop. While part B is related to the execution of the workshop. The forms were thereafter analysed to extract lessons and recommendations for follow-up activities.

### 5.1. Part A: Organizational and administrative issues before and during the workshop

Table 1 below is a list of the criteria used to evaluate the organizational and administrative issues using the following qualitative scoring:

- Outstanding
- Very good
- Acceptable
- Poor
- Not Applicable(N/A)

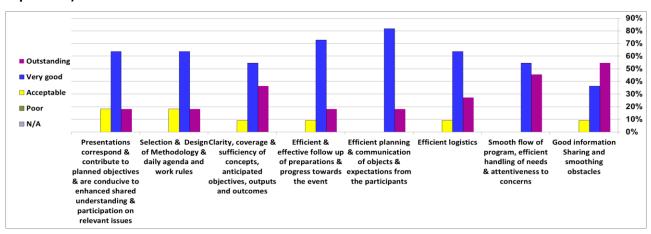
### Table 1: List of Criteria - Part A

A1	Good Information Sharing and Smoothing Obstacles
A2	Smooth flow of programme, efficient handling of emerging needs & attentiveness to participants
	concerns
A3	Efficient Logistics: Venue Tools and Equipment/
A4	Efficient & Effective Communication of Objectives, & Expectations from Participants
A5	Efficient & Effective Follow-up of Preparations & Progress towards the Event
A6	Clarity, Coverage and sufficiency of concepts, Objectives, anticipated outputs and outcomes
A7	Selection & Design of Methodology, Programme/Daily Agenda & Work Rules
A8	Presentations Correspond & contribute to Planned Objectives & Conducive to Enhanced shared
	Understanding

<u>Figure 1</u> below shows that the performance of the workshop on the aspects related to A2 (handling of emerging needs), A4 (communication of objectives and expectations) was the highest. All the participants thought it was very good to outstanding. While 91% of the participants gave the same scores for the

aspects related to A1 (information Sharing and smoothing obstacles), A3 (logistics including venue, tools and equipment), A5 (follow up of preparation for the event) and A6 (Clarity, coverage & sufficiency of concepts, anticipated objectives, outputs and outcomes). The respective figure for A7 (Selection & Design of Methodology, Program/Daily Agenda & Work Rules) and A8 (Presentations Correspond & contribute to Planned Objectives & Conducive to Enhanced shared Understanding) was 82%. This reflects the expectations of some of the participants for live demonstration of data entry into the system, which was not the original intention of the workshop.

Figure 1: Results of the evaluation of the organizational and administrative issues (Percentage by type of impression)



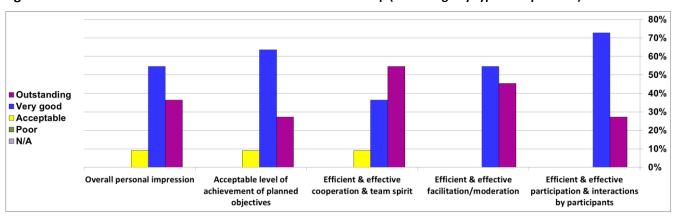
### 5.2. Part B: Executing the workshop

The same qualitative scoring presented for part A of the evaluation questionnaire, was used to assess some elements of Part B of the questionnaire, related to the execution of the workshop; namely (B1, B2, B3, B4 and B10), listed in **Table 2** below. The results of the evaluation on these criteria are reflected in **Figure 2** below.

Table 2: First set of criteria B1-B5

B1	Efficient and Effective Performance and Interaction by Participants
B2	Efficient and Effective Facilitation/Moderation
В3	Efficient and Effective Cooperation and Team Spirit
B4	Acceptable Level of Achievement of Planned Objectives
B10	Positive Overall Impression on the Personal Level of Participants

Figure 2: Results of the evaluation of the execution of the work shop (Percentage by type of impression)

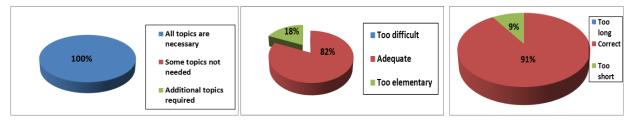




The participants' feedback was encouraging. About 90% of the participants thought that the workshop was very good to outstanding (at 60% and 30% respectively), with the same majority (90%) recording similar impression to issues related to B1 (Performance and Interaction by Participants) and B3 (Cooperation and Team Spirit). Although very few, but the comments made by some participants indicate that they have not been well informed about the workshop objective. This is an imminent problem in the project countries, resulting from bureaucratic delays by the national partners in the dissemination of the relevant information to the invitees. Although SWIM-SM disseminated the information note by email to all the partners involved in the M&E system way in advance, there were some participants who were invited through the national partners and who were not involved in the pilot implementation. This may have caused a gap between the expectations from the workshop and the designed outcome, thus explaining the lower degree of satisfaction on issues related to B3 (the level of achievement of planned objectives); whereby only 70% of the participants thought that the performance on this indicator was "very good" to "outstanding". Nevertheless the overall evaluation results suggest a predominant satisfaction with all aspects of the workshop.

### 5.2.1. Evaluation of the extent of workshop coverage, difficulty and duration of the workshop

About 90% thought all the topics covered all what is necessary for good comprehension, 100% thought the level of the difficulty of the workshop is adequate, while 80% thought its duration was correct as per Figure below. The variations in the participants' views of the level of the difficulty and the adequacy of the workshop duration reflect the differences in the levels of the participants and the degree of their prior involvement in the pilot implementation of the system.



### 5.2.2. Potential Impact

Few narrative replies (**table below**) were obtained from the participants on the aspects of the workshop related to questions B8 – (related to how the current workshop will assist in the participant's future work on the subject), and B9 (how does the participant intend to transfer part of the workshop experience to his/her colleagues colleagues), possibly because most of the participants who attended this workshop also participated in the training, and their feedback was already expressed in the training evaluation forms of June 2014.

B8: How the current workshop will assist in the participant's future work on the subject	B9: How does the participant intend to transfer part of the workshop experience to his/her colleagues
The workshop helped to get improved understanding of the importance of a lot of indicators, and better understanding of the system	Make internal training for the colleagues

### 5.2.3. Personal impressions and recommendations

Participants were invited to express themselves on the aspects that they have liked the most and their recommendations for improvement in the future. Only two participants responded, with the **feedback listed below.** It should be noted that due to the large effort that was put in data collection, little time was left for the participants to try out the system in its final version. All data were therefore sent to CIHEAM for entry to the system and obtaining the evaluation results.



Most liked things	Suggestions for improvement
The simple way of presentation	Apply the system before the workshop
The team spirit	
The translation service	

# 6. AGENDA

# Day 1 (15 September 2014)

Time.	Description	Speaker						
8:30 -	Registration							
9.00								
9:00 -	Welcome remarks	Eng. Qais Owais: JVA Assistant Secretary						
9:15		General						
		Eng. Xavier Farrero: Representative of EU						
	Workshop objectives and progress to date	delegation to Jordan						
		Suzan Taha: SWIM-SM Key water expert						
9:15 -	Short presentation about evaluation in the	Juan A. Sagardoy; Senior Water						
9:30	context of M&E systems	Management Consultant, SWIM-SM non-						
		expert						
9:30 -	Overview of the M&E system	Roula Khadra (M&E specialist –						
10:00		CIHEAM/Bari) and Marco Dauru (IT						
		specialist)						
10:00 -	Presentation of the evaluation results at the							
10:30	national level							
	First level Evaluation (30 minutes)	Roula Khadra						
40.30	0.11							
10:30-	Coffee E	Break						
10:45	Presentation of the evaluation results at the							
10:45- 11:35								
11.55	national level (Continued) Second level Evaluation (20 minutes)	Roula Khadra						
	Open discussion on the evaluation results at the	Noula Kilaula						
	national level (30 minutes)	All participants						
11:35-	Presentation of the evaluation results at the	7 in participants						
13:35	regional I level							
	Region 1							
	First Level Evaluation: 30 minutes	Roula Khadra						
	Open Discussion 30 minutes	All participants						
	Region 2							
	First Level Evaluation: 30 minutes	Roula Khadra						
	Open Discussion 30 minutes	All participants						
13:35-	Lunch B	troak						
14:35								
14:35 -	Proposal for the preparation of the action	Suzan Taha						
14:45	plans (all levels)							
14:45 -	<b>Preparation of action plans at the National and</b> All participants organized in two							



15:45	Regional levels	groups Facilitators: Roula Khadra (CIHEAM M&E Specialist) and Suzan Taha								
15.45- 16:00	Coffee E	Break								
16:00 - 17:00	Presentation of the action plans at the national and regional level  - Presentation National Level (15 minutes + 15 minutes discussion)  - Presentation Regional Level: (15 minutes + 15 minutes discussion)	Nominated persons by the working groups								
19:0	19:00 Dinner at a restaurant in Amman. Restaurant will be announced on the workshop day									

# Day 2 (16 September 2014)

Time.	Description	Speaker			
9:00 – 10:00	Live testing of the system	All participants			
10:00 – 11:30	Presentation of the evaluation results by the WUAs	J.A. Sagardoy			
	Pump 41 WUA				
	First Level Evaluation: 60 minutes				
	Open Discussion 30 minutes				
11:30 - 11:45	Coffee B	reak			
11:45 -13:15	Presentation of the evaluation results by the WUAs (Continued) Pump 91 WUA First Level Evaluation: 60 minutes Open Discussion 30 minutes	J.A. Sagardoy			
13:15-14:15	Preparation of action plans at the local level	All participants organized in two working			
		groups, Facilitators: Roula Khadra and Suzan Taha			
14:15 – 15:15	Lunch Br	reak			
15:15 – 16:15	<ul> <li>Presentation of the action plans:</li> <li>Pump 41 WUA (15 minutes + 15 minutes discussion)</li> <li>Pump 91 WUA (15 minutes + 15 minutes discussion)</li> </ul>	Nominated persons by the working groups			
16:15 – 16:30	<b>Coffee Break</b> served	during sessions			
16:30 – 17:30	Lessons learnt and proposals for refinements	All participants			

# 7. LIST OF PARTICIPANTS

No.	Title	Name	Sur-name	Organisation	Position	e-mail	Phone/Mobile	Fax
1	Mr	Anwar	Udwan	Jordan Valley Authroity (JVA)	WUA support Unit – head of Audit Division	adwan Anwar@yahoo.com	+962 79 820 4173	
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3	Mr	Ali	Mustafa	WUA Baladna (91)	President			
4	Mr	Ayed	Hourani	JVA	IT	ayyd@live.com	+962 79 577 6676	
5	Mr	Daniel	Busche	GIZ	Director, German- Jordanian Programme "Management of Water Resources",	<u>Daniel.Busche@qiz.de</u>		
6	Mr	Fadi	Abu Sahyoon	JVA	Head of O&M North	FadiSahyoun@yahoo.com	+962 79 820 7123	
7	Ms	Faten	Khaldi	JVA	Engineer, North Ghors Operation	FatenAlKhaldi72@yahoo.com		
8	Mr	Hadi	Udwan	JVA	Head of Stage Office 6	<u>Hadialadwan242@yahoo.com</u>	+962 79 920 1795	
9	Mr	Haidar	Malhas	ISSP Project	Institutional Support Specialist - Irrigation	hmalhas@isspjordan.org	+962 79 606 2016	

No.	Title	Name	Sur-name	Organisation	Position	e-mail	Phone/Mobile	Fax
10	Mr	Johannes	Stork	GIZ	German- Jordanian Programme "Management of Water Resources", Component Manager "Water User Associations"	Johannes.Stork@giz.de	+962 79 565 9284	
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15	Mr	Qais	Owais	JVA	Acting Secretary General - for Northern & Middle Ghors	gais owais@yahoo.com	+962 79 564 9822 +962 5 357 0561	
16	Mr	Scot	Christiansen	USAID	Senior Science Advisor - Office of Water Resources and Environment,	schristiansen@usaid.qov	962-6-590-6000	
17	Mr	Shafiq	Habash	WUA 91	Water Officer	<u> Habash Shafiq@hotmail.com</u>	+962 79 552 1792	



No.	Title	Name	Sur-name	Organisation	Position	e-mail	Phone/Mobile	Fax
18	Mr.	Xavier	Farero	EU delegation	Program officer, OPS 1- Trade, Economic Affairs and Private Sector Development	Xavier-Ignasi.FARRERO- GONZALEZ@eeas.europa.eu	<b>(</b> +962) 6 4607000 ext. 127	
19	Mr.	Zaki	Rabab'ah	WUA 41	President	Zakixx4@yahoo.com	+962 79 701 3367	
Expert	S							
	Mr.	Juan Antonio	Sagardoy	SWIM-SM	Senior Water Management Consultant,	sagardoy22@alice.it		
	Mr	Marco	Dauru	Consultant	IT Developer	mdauru@libero.it		
	Ms	Roula	Khadra	CIHEAM	M&E Specialist	khadra@iamb.it		
	Ms	Suzan	TAHA	SWIM-SM	Key water expert	S.taha@swim-sm.eu	+962 79 500 8528 +962 77 739 7222	



# Annex 1: Action Plan to improve PIM/IMT process at National Level (2015-2017).

**Responsibility: JVA -WUA Administration** 

Outcome	Output	Indicator(s)	Action	Required Support from	2015	2016	2017
A.2 - The PIM/IMT program has been institutionalized for the planning and implementation phases	A.2 - 1 A coordination mechanism is in place and is effective	A02020N	Establish coordination committee. Prepare scope of work for the committee and define roles and responsibilities of all stakeholders. Conduct Regular meetings	Support at the Executive level	Apr		
A.3 - The PIM/IMT program is supported with a national PIM/IMT Plan which is operational	A.3.1 - A national PIM/IMT Plan with adequate financial and human resources allocated is available	Indicators A03010 to M03020	Prepare PIM/IMT plan that includes the development of a vision, identification of objectives and issues to be resolved, actions needed to achieve the desired objectives and to resolve the prevailing issues; including the role of the different stakeholders, and the human and financial resources that need to be mobilised to achieve the proposed action plan. The financial requirements should also cover the need for rehabilitation (while distinguishing between maintenance and rehabilitation works) and take into consideration potential sources of funds.  Note: In order to ensure equity between the different regions, proposed actions should be delineated per region (as applicable)	GIZ and relevant JVA departments (planning unit, O&M, HR, FR)	Dec		
A.4 - The government is	<b>A.4.1</b> - A legal framework for	A04010, A04011,	Update existing legal review and make conclusions / recommendations	Planning Department,	June		
effectively regulating	WUAs is	A04021,	accordingly	Legal			
WUAs establishment and functioning and the implementation	formulated or revised and in use	A04022	Draft laws (preferably dedicated WUA law) to define the legal status of the WUA, its role and rights and the rights	Department, Donors (GIZ and USAID)		Dec	



Outcome	Output	Indicator(s)	Action	Required Support from	2015	2016	2017
and management of			of the users.				
the PIM/IMT programme			Approve law and put it into use.				Dec
A.5 - The irrigation agency is functioning effectively according to a new institutional framework and has an implementation strategy	framework of irrigation agency is revised and		- Detailed analysis of JVA functions, the process and methods used in their application and an assessment of its physical and human resources capacity Develop policy for the redeployment of staff from transferred responsibilities to establishment, training and strengthening of WUAs and/or for their integration into the WUAs staff.	USAID & GIZ	Dec.		
	A.5.2 - Adequate policy/strategy adopted by the Irrigation Agency to ensure effective transfer of O&M responsibilities to the waters users.		Review the existing strategy for PIM/IMT implementation. This could be part of the preparation of the PIM/IMT plan that includes the development of a clear vision and objectives	See A3.1			



Annex 2: Action Plan at the Regional level (North Directorate and Karameh Directorate)

Outcome	Output	Indicator(s	Action	Required	Applicable f	or	2015	2016	2017
		)		Support from	North	Karameh			
					Directorat	Directorat			
					е	е			
<b>B.1</b> - WUAs are established according to plan	B.1.1 - PIM/IMT target coverage of equipped area have been achieved	N01040	GENERAL ACTIONS NEEDED <sup>3</sup> - Identify WUAs eligible for transfer within each region, and the human and financial resources required to effectuate the transfer.  - Identify WUAs currently operating under PIM that need strengthening to qualify them for the transfer and the financial resources required  - Develop an implementation plan <sup>4</sup> accordingly.	Planning Department, O&M and Financial Administration			Apr	Year update/re	•
<b>B.2</b> - Water users are informed and sensitized to the PIM/IMT program	Awareness campaigns were carried out and B.2.4 - Targeted Water users are informed of their roles and responsibilities and involved in the preparation of PIM/IMT	N02040 & N02060	GENERAL ACTIONS NEEDED:  1) Develop awareness campaigns plan <sup>5</sup> - Identify the targeted water users per region that need sensitisation to the PIM/IMT program, identify the messages required to raise their awareness and the tools needed (CDs, videos, brochures).  - Develop awareness campaign plans to reach all those farmers within a planning period of three years.  - Identify human and financial resources needed to carry out the	JVA WUA administration with the support from donors and relevant JVA departments (planning unit, O&M, etc.)			Jun	Year update/ro	•

<sup>-</sup>

<sup>&</sup>lt;sup>3</sup> These refer to actions that should be undertaken under the responsibility of the WUA Administration of JVA, in close cooperation with the regional offices. All proposed activities should be carried out for the whole Jordan Valley and delineated per region.

<sup>&</sup>lt;sup>4</sup> This plan should be integrated with the PIM/IMT plan in order to enable estimation of all the total resources needed for the implementation of PIM/IMT plan and enable identification of sources of funds and their allocation

<sup>&</sup>lt;sup>5</sup>This plan should be integrated with the PIM/IMT plan in order to enable estimation of the total resources needed for the implementation of PIM/IMT plan and enable identification of sources of funds and their allocation



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Outcome	Output	Indicator(s	Action	Required	Applicable f	or	2015	2016	2017
		)		Support from	North Directorat e	Karameh Directorat e			
	program.		awareness campaigns.  2) Implement the campaigns accordingly for both farmers (and employees as needed).  3) Monitor implementation on a quarterly basis and adjust plan as necessary  Note 1: While planning, ensure that targets can be achieved considering the available resources						
			4) Prepare Communication plan and identify communication tools for dissemination of announcements, invitations, meetings location and time, list of addresses, etc.)				Jun	Year update/re	•
			REGION SPECIFIC ACTIONS NEEDED:  - Carry out the meetings as planned (N02040). This should also increase the level of participation (N02060).  - Monitor implementation of meetings on a quarterly basis and adjust plan as necessary		٧			Annual	
B.4 <sup>6</sup> - WUAs leaders and staff know their responsibilities and have the necessary skills	<b>B.4</b> <sup>7</sup> .2 - Training for the WUAs leaders and staff is implemented	N04030,	GENERAL ACTIONS NEEDED  - Carry out training needs assessment for the WUAs leaders and staff.  - Identify training courses needed (both for technical staff and accountants	JVA WUA administration with the support from donors and relevant JVA			Jun	Yea update/	•

-

<sup>&</sup>lt;sup>6</sup> The evaluation report mistakenly uses Outcome B2 "Water users are informed and sensitized to the PIM/IMT program" instead of the outcome B4 correctly inserted in the table

<sup>&</sup>lt;sup>7</sup> The evaluation report mistakenly uses Output B2.1, B2.2 and B2.3, instead of the respective outputs for outcome B4



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Outcome	Output	Indicator(s	Action	Required	Applicable f	or	2015	2016	2017
		)		Support from	North	Karameh			
					Directorat	Directorat			
					е	е			
to carry out their			and including M&E)	departments					
work			- Develop a training plan <sup>8</sup>	(planning unit,					
			- Identify the human and financial	O&M, etc.)					
			resources required for the						
			implementation of the training plan.						
			- Monitor implementation on a						
			quarterly basis and adjust plan as						
			necessary						
			REGION SPECIFIC ACTIONS NEEDED						
			- Provide technical, financial and						
			logistic support for implementing the						
			planned trainings in the North Directorate						
			- Ensure that the training plan is		٧			Annual	
			achievable and in line with the available						
			resources.						
			- Regularly monitor the plan and						
			adjust plan as needed						
<b>B.5</b> - Accounting	B.5.1 -	N05030	GENERAL ACTIONS NEEDED	See B.4.2					
management	Accounting		Training assessment and plan under						
capacity of	training is		N04030 should include accounting						
WUAs	implemented		REGION SPECIFIC ACTIONS NEEDED						
developed and			Ensure that training on accounting and						
operative			financial matters is implemented for		_,	-,		A	
			relevant WUA staff according to the plan,		√	√		Annual	
			through regular follow up (on a quarterly						
			basis) and adaptation of plan as needed						
	<b>B.5.2</b> - The	N05050	GENERAL ACTIONS NEEDED	Co andinati					
	accounting		- Agree with the WUAs or Jordan	Coordination			May		
	system is		Cooperative Corporation (JCC) to carry	Committee					

-

<sup>&</sup>lt;sup>8</sup> This plan should be integrated with the PIM/IMT plan in order to enable estimation of the total resources needed for the implementation of PIM/IMT plan and enable identification of sources of funds and their allocation



### Project funded by the European Union

Outcome	Output	Indicator(s	Action	Required	Applicable f	or	2015	2016	2017
		)		Support from	North	Karameh			
					Directorat e	Directorat e			
	installed		out training on accounting matters Should the WUA functions		6				
			expand, there might be a need to						
			uniformly acquire a dedicated financial system (software) throughout the WUAs						
			REGION SPECIFIC ACTIONS NEEDED Follow up training with JCC to make sure that the training is implemented		٧	٧		Annual	
B.6 - Government	<b>B.6.2</b> - WUA Federations are	N06030	GENERAL ACTIONS NEEDED Undertake a feasibility study for the	JVA WUA Administration					
effectively	established		establishment of a federation of WUAs.	with the					
regulating	according to		Issues to be determined include whether	support of					
Federations of WUAs and	plan		to create one federation for all the WUAs or several federations (say one per	donors (GIZ, USAID)				June	
implementing			region).	OSAIDI					
them according to plan									
<b>B.8</b> <sup>9</sup> - A	<b>B.8.1</b> <sup>10</sup> - M&E	N08030	GENERAL ACTIONS NEEDED	See B.4.2					
monitoring and	system is		Training assessment and plan under						
evaluation (M&E) system	defined and operative		N04030 should include training on M&E for the leaders and staff of the				Jun		
provides inputs	operative		WUAs						
for the			REGION SPECIFIC ACTIONS NEEDED						
evaluation of			- Ensure that adequate M&E						
PIM/IMT			training for the WUAs with newly		_				
program and improving the			transferred tasks is undertaken according		V	٧			
improving the performance of			to the training plan. M&E allows taking corrective actions in time.						
WUAs			- Ensure regular follow up (on a						

-

<sup>&</sup>lt;sup>9</sup> The evaluation report mistakenly uses Outcome B1 "WUAs are established according to plan" instead of the outcome B8 correctly inserted in the table

The evaluation report mistakenly uses Output B1.1 "PIM/IMT target coverage of equipped area have been achieved" " instead of the outcome B8.1 correctly inserted in the table



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Outcome	Output	Indicator(s	Action	Required	Applicable for	or	2015	2016	2017
		)		Support from	North	Karameh			
					Directorat	Directorat			
					е	е			
			quarterly basis) and adaptation of plan as needed						
<b>B.9</b> <sup>11</sup> - Reduced	B.9.1 <sup>12</sup> -	N09040	GENERAL ACTIONS NEEDED						
cost of operation	Rehabilitation		- Identify rehabilitation needs <sup>13</sup> <b>as</b>						
and	needs in the		part of the PIM/IMT plan.						
maintenance	irrigation		- Implement according to the plan.						
and greater	systems		- Ensure regular follow up (on a						
availability of	transferred to		quarterly basis) and adaptation of plan as						
water in the	the WUAs are		needed						
irrigation	identified and		REGION SPECIFIC ACTIONS NEEDED						
systems	works		Identify Rehabilitation needs and		V				
transferred to	undertaken		planning for rehabilitation in the northern		V				
WUAs			region						

# Annex 3: Action Plan at the Local Level (WUA 41 (North Directorate) and WUA 91 (Karameh Directorate))

Outcome	Output	Indicator(s)	Action	Required	Applic	able	2015	2016	2017
				Support from	for				
					WUA	WUA			
					41	91			
C.2 - Governance	C.2.1 - General		Conduct General Assembly	JVA WUA					
bodies of the	Assembly	C02020	Meetings on an annual basis	Administration to	٧		Yearly	Yearly	Yearly
WUA functioning	functioning regularly		_	provide training			-		
adequately			Develop a plan to increase the						
		D02010	number of the registered number			-,	1.00/	100/	100/
		P02010	of members in the WUA by 10%			V	10%	10%	10%
			every year						
	C2.3 - Women	C02063	Promote and motivate female		.,		2 female		
	represented in		farmers to become members of		\ \		farmers		

<sup>&</sup>lt;sup>11</sup> The evaluation report mistakenly uses Outcome B1 "WUAs are established according to plan" instead of the outcome B9correctly inserted in the table

<sup>12</sup> The evaluation report mistakenly uses Output B1.1 "PIM/IMT target coverage of equipped area have been achieved" " instead of the outcome B9.1 correctly inserted in the table

<sup>&</sup>lt;sup>13</sup> This should be integrated with the PIM/IMT plan in order to enable estimation of the total resources needed for the implementation of PIM/IMT plan and enable identification of sources of funds and their allocation

Outcome	Output	Indicator(s)	Action	Required Support from	Application	able	2015	2016	2017
					WUA 41	WUA 91			
	governance bodies		the WUA; targeting 2 female farmers by 2015						
	C.2.6 - Internal communication and conflict resolution mechanism established and operational	C02120	- Establish a communication and conflict resolution committee to be selected from the General Assembly Document annual activities/conflicts and means of solving them and present to the General Assembly for approval.	JVA WUA Administration and Regional Offices	٧	٧	Next General Assembly Meeting		
C.5 - Improved level and efficiency of water delivery and more effective	<b>C.5.1</b> - Procedures for improved operation and maintenance are established	C05010	WUA 91 to use the daily irrigation schedule (already printed) as an operation guideline (describing the main norms for operating the irrigation system and the corresponding responsibilities)	JVA WUA Administration and Regional Offices		٧	immediately		
maintenance		C05020	- Prepare maintenance guidelines describing the main criteria for undertaking maintenance work at the farm turnouts and corresponding responsibilities Expand the guidelines as more maintenance responsibilities are assigned to the WUA.	JVA WUA Administration and Regional Offices	٧	V	Feb		
		C05040	- Prepare Annual Operation Plan describing the main operation activities to be carried out with cost estimations and implementation schedule.	JVA WUA Administration and Regional Offices jointly with the WUAs	٧	٧	Feb		

Outcome	Output	Indicator(s)	Action	Required Support from	Applica for	able	2015	2016	2017
					WUA 41	WUA 91			
			- Include in the Transfer agreement						
	C.5.2 - O&M activities implemented effectively.	C05060 & C05070	Prepare annual surveys to measure  1) the degree of satisfaction of the farmers with the:  - operation of the	JVA WUA Administration and Regional Offices jointly with the WUAs	٧	٧	June		
<b>C.7</b> - The level of service provision is improved	c.7.2 - Farmers of the WUA and government staff of the irrigation agency are satisfied with the performance of the WUA	C07070 & C07080	irrigation system (C05060)  - maintenance of the irrigation system (C05070)  - WUA performance (It is suggested to ask at random some 20- 30 farmers trough a questionnaire to be filled) (C07070)  2) the degree of satisfaction of the government staff with respect to performance of WUA (Survey to be carried out among the government staff of the concerned regional office working with the WUA in question) (C07080)	JVA WUA Administration and Regional Offices <b>jointly</b> with the WUAs	٧	>			
			Conduct annual surveys		٧	٧			
		C07070	Undertake the necessary actions to increase the degree of satisfaction of the government staff with respect to performance of the WUA	JVA (to rehabilitate the network according to plans)		٧	Degree of satisfaction to reach 80%	Degree of satisfaction to reach 88%	
C.6 - Improved control of all technical and	C.6.2 - Improved control of the total annual cost	C06080	Increase the fees collection rate		٧	٧	Collect 15% of the balance	Collect 15% of the balance	Collect 25% of the



Outcome	Output	Indicator(s)	Action	Required Support from	Applic for	able	2015	2016	2017
					WUA 41	WUA 91			
financial activities									balance
C.6 - Improved environmental conditions	<b>C.6.1</b> - Improved environmental practices	D06010	Prepare environmental awareness programs (meeting, field visits) to address pollution due to nocive materials such as: used plastics of green houses, pesticides packages etc. and possible means to remove them. The plan is to be adopted as part of the annual work plan					Annual	Annual



### **Annex 4: List of Proposed System Refinements**

### Refinements to the computer application (to be undertaken by CIHEAM during this phase of the contract)

- 1. Add unit to all the indicators in the evaluation reports
- 2. The outcomes and the outputs for the Evaluation reports "REGIONAL\_B04\_1\_2009-2013" and "REGIONAL\_B04\_3\_2009-13" do not correspond to the indicators.
- 3. The outcomes and the outputs for the Evaluation reports "REGIONAL\_B08\_1\_2009-2013" and "REGIONAL\_B08\_3\_2009-13" do not correspond to the indicators. Correct outcome for B.8 is: "A monitoring and evaluation (M&E) system provides inputs for the evaluation of PIM/IMT program and improving the performance of WUAs". While the correct output for B8.1 is: "M&E system is defined and operative".
- 4. Redefine indicator N09040 "Percentage WUAs where rehabilitation works on irrigation systems was actually completed with respect to those planned during last year" to read as follows "Percentage of the WUAs where rehabilitation works on irrigation systems was actually completed with respect to the total number of WUAS legally registered". This is needed in order to avoid a zero score when the rehabilitation is completed and no more plans for rehabilitation are underway. Modify formula accordingly.
- 5. The outcomes and the outputs for the Evaluation reports "REGIONAL\_B09\_1\_2009-2013" and "REGIONAL\_B09\_3\_2009-13" do not correspond to the indicators. Correct outcome for B.9 is:"Reduced cost of operation and maintenance and greater availability of water in the irrigation systems transferred to WUAs". While the correct output for B9.1 is: "Rehabilitation needs in the irrigation systems transferred to the WUAs are identified and works undertaken".
- 6. **C02012:** Add validation rule to the indicator, since the number of registered farmers in the WUA could not be more than the farmers.
- 7. The formula in the indicator <u>P06160</u> should be corrected, whereby the denominator should become a numerator and vice versa)

### Further changes in the system Settings to suit the local conditions (to be Undertaken by Jordan)

### 1. De-score the following indicators:

- a. Since the irrigation areas in the Jordan Valley; initially managed by WUAs under the PIM model, are getting progressively managed under the IMT model, this results in decreasing areas under PIM, when the desired result in the M&E system is suggested to correspond to increasing areas. This affects the scoring in the relevant indicators (N01010, N01020). It is therefore suggested that these indicators are de-scored). Only N01030 which evaluates the increase in the total areas operating under both PIM and IMT should be considered.
- b. The above argument also applies on indicator N01040 and N1050; whereby, the Cumulative Number of WUAs Established under the PIM model of the PIM/IMT program may be decreasing as more WUAs previously operating under PIM start to operate under IMT. It is therefore suggested that these indicators are de-scored.
- 2. <u>Deactivate indicator P04020</u>: According to JVA, the increase in the number of on- farm reservoirs is not an indication of the dissatisfaction of farmers with water distribution. This is a reflection of on-farm management, and the fact that JVA cannot operate after certain hours due to military constraints.
- 3. Change the scoring criteria of the following indicators
  - a. Change the scoring for N04030 to become 2 if the Percentage of the Number of Actual Training courses carried out for the WUAs leaders and staff with respect to those Planned is greater or equal to 80%, 1 for values < 80% and >= 60%, and 0 if less than 60%



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- b. Change the scoring criteria for <u>P03060</u>: "Water delivery efficiency pressurized irrigation system". Score 2 should be assigned to efficiency >=80%, score 1 for efficiency between 60% and 80% and zero for efficiency equal to or below 60%
- c. Change the scoring criteria for <u>P03081</u> Score 2 should be assigned to cropping intensity >=2, score 1 for intensity between 2 and 1.5 and zero for intensity equal to or below 1.5

# Refinements to the M&E System involving possible changes in the approach (that can be accommodated by CIHEAM beyond SWIM life)

- All the indicators that measure percentages in the changes (decrease and/or increase) in the values of two consecutive years need to be revised, as it is not clear whether they represent a ratio or percentage change. Examples on these indicators include but are not limited to: M3020N&R, M3040N&R, M3050N&R, M05080N&R, M05090, N01010, N01020, N01030, N01040, N01050, etc.. To review all such indicators to clarify them or change semantics as applicable.
- The indicator <u>A04010</u> related to "The legal framework was assessed/revised during the implementation period to ensure its suitability for the legal establishment of the WUAs" should be more specific and hence revised to account for the intended meaning of the indicator (i.e. it should refer to specific WUA related law). Also check/review all related indicators: <u>A04011</u>, <u>A04012</u>, <u>A04013</u>, <u>A04021</u>, <u>A04022</u>, <u>A04023</u>, <u>A04024</u>, <u>A04025</u>, <u>A04026</u> and <u>A04027</u>.
- 3. Clarify how to calculate indicator <u>B03031 at the National & Regional levels.</u> Suggest adding the following: "Training days is calculated by multiplying the no. of days by the number of staff trained".
- 4. Redefine indicator <u>C06150</u>: "Water Users Payment Rate during last year" to read as follows "Percentage of the total farmers that did not pay during last year. <u>Modify formula accordingly</u>.
- 5. C02070: Change "auditing committee" to "auditing/monitoring committee".
- 6. <u>C04011 & C04012</u>: Add a note to the definition to clarify that the actual and desired interval in days between two consecutive irrigations is measured at the farm turnout.





# Annex 5: Data that need verification by JVA

Indicator	Applicable to	
	WUA 41	WUA 90
N03320	Investigate the difference in the number of training days l Karameh.	between the North directorate and
B05051	There is no electronic accounting system. Change the logical answer and score accordingly	
C01010	The transfer agreement has been signed between the WUA and JVA since 2010. Change the logical answer to yes and the score accordingly	
C01011	The statute is in place since 2010. Change the logical answer to yes and the score accordingly	
C01012	The number of registered farners is > than the total number of farmers. Actual number of registered farmers is 135	
C03022, C03072 and P03072	Check water allocations (C03022) and crop water requirements allocations in 2012 was more than the crop water requirements	•
P03060		Efficiency in 2012 is more than 100%. Check data
C04011 & C04012:	Correct data to reflect the interval between two irrigations a	at the farm turnout
C05010		An operation guideline already exists. Change logical answer to "Yes" and the score accordingly.
C05020	Maintenance guidelines are not prepared. Change Logical answer to "No" and the score accordingly	
C05040	Annual Operation Plan is not prepared. Change Logical answer to "No" and the score accordingly	