Sustainable Water Integrated Management (SWIM) -Support Mechanism



Project funded by the European Union

Water is too precious to waste M&E System Application To Monitor & Evaluate the Participatory Irrigation Management (PIM) and Irrigation Management Transfer (IMT) Process

3.2 M&E per outcome

This activity is implemented in collaboration with CIHEAM IAM Bari



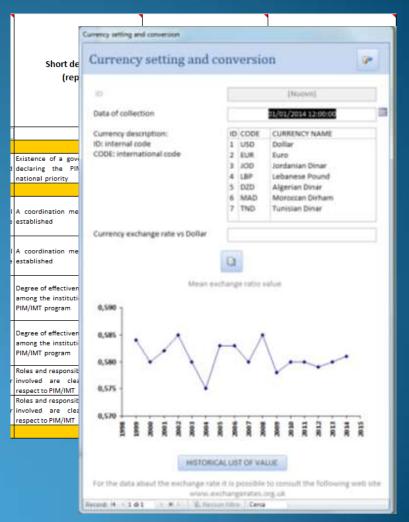
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Organization into outputs

The section containing the numerical indicators includes all the variables needed for the calculation of the indicator. This set of tables is used in the field to collect the required data. The tables have internal validation capability in case that responses are not framed within the expected answer.

The system is capable of processing the information collected in the field and produce a complete list of the values of the indicators grouped by outcomes and outputs. For those "Numerical Indicators" or "Information Data" or variables where data may be available for several years the system should be able to generate graphs with trends.



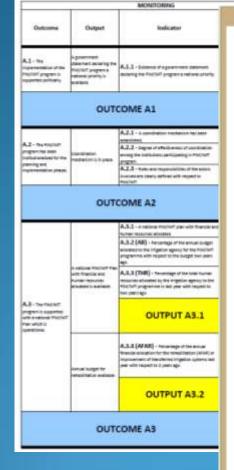
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Indicators per output

The system is able to make an evaluation of the results obtained for the indicators according to established criteria. The evaluations at the level of indicator are aggregated at the level of output and outcome.

The reports illustrate the outputs and results after the appropriate calculation procedures carried out by the information system.



egic	onal and I	ocal off	fice list	14	
HEG CODE	REGIONAL NAME	LOC	LOCAL NAME		
1	North Directo	rate			
		2	North Shouneh (DA 5)		
		3	Al-Manshiyyeh Pump Station 14		
		4	Sheik Hussein Pump Station 28		
		5	Al-Mashare Pump Station 33		
		6	Wadi Ar-Rayyan Pump Station 41		
		1	North Shouneh (DA 3, 4)		
2	Middle Direct	orate			
		8	Al-kraymeh Pump Station 55		
		7	Abu-Seido Pump Station 50		
3	Karameh				
		10	Ghor Kabed Pump Station 91		
		22	Ghor Kabed Pump Station 95		
		32	Al-Kafrein		
		13	Ar-Bama		
		9	Ghor Kabed Pump Station 81		
4	South Directo	rate			
		26	Al-Khunezeera		
		34	Mazra'a, Haditha		
		15	Feita		

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Typology of requested input: Logical, Numerical and calculated

Type of input

The information that we want to acquire can be stored in different ways according to its nature, 4 type of input are considered:

IL: for logic input, normally an answer to a specific question (Yes or No);

IN: for numeric input (No. of people, a money value, areal measure, etc.)

IQ: for qualitative-coded input (normally a valuation question precompiled)

CA: for calculation, the field with this specifics, auto determinate their value through the use of a formula

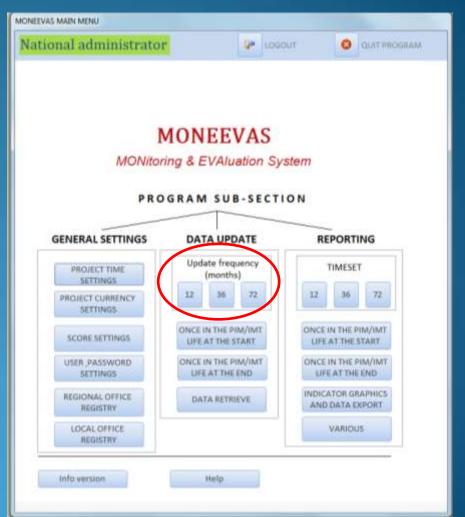
	output/outcome MODULE	SUBJECT OF REQUEST	LEVEL OF AGGREGATION	TYPE OF AGGREGATION	LEVEL OF APPLICABILITY	REVISER	TYPE OF INPUT	FREQUENCY	GRAPHICS & REPORT	CODE	Acronyms for numerical indicators
	-	P	►	•	•	•	P	7	•		-
	Α	N			Ν		IL	12		A01010	
	A	N			NR		IL	36		A02010N	
		R	N	с	NR		IL	36		A02010R	
	A	Z			NR		Q	12		A02020N	
		R	N	с	NR		IQ	12		A02020R	
	Α	N			NR		IL	36		A02030N	
		R	N	с	NR		IL	36		A02030R	
	Α	N			N		IL	36		A03010	
	Α	N			NR		IN	12		A03021N	AB1n
n		R	N	s	NR		IN	12		A03021R	AB1r

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Frequency of monitoring and codification

The unit of frequency is in months, but the monitoring frequencies are every 12, every 36, every 72 months and once in the PIM/IMT lifetime. You can also enter historical data through the input forms, thanks to which the database will be populated.

Simply select the desired frequency option, and the masks data entry will appear, organized according to the coding sequences and included in the database system structure



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Frequency of monitoring and codification

After selecting the frequency, you will proceed to the selection of the reference and the data inputting, navigating trough the fields tab: each value has its own field code, with its description, to ensure the best answer

lational input mask - tim	e of update 12 month	s
GENERAL A B		
ZENERAL A III		
	ID	3
	ID	3
	REFERENCE YEAR	

ENERAL A E	1 3
BORZIN: Number of Government Staff at the Support Unit: fully dedicated to provide support to PIM/IMT program (NGSPIMIJMT) up to last year. For staff that is not working full time they should be converted to full time. Example: A persons working 1/2 time is separal to 2 persons full times. Staff of the support units can be at the local level, at the regional or national level at the headquarters of the irrightion agency.	no. al people
NUMITIN: Sumber of Actual training days carried out for the staff of the Support Units during the last year Note that the staff of the support units can be trained at the local level, and at the regional and national levels [at the headquarters of the infgation agency]	na at day
B03012N: Number of Training Days Planned for the staff of the Support Units during the last year. Note that the staff of the support units can be trained at the local level, and at the regional and national levels (at the headquarters of the inspation agency)	no. șt deș
898940%: Annual Mg report is produced, with the results integrated into the annual workplan. "WURs should produce an annual report with the results of the indicators and the corresponding evaluation integrated into the annual workplan and forming the basis for actions next year".	D yes
BISING: The government undertakes an evaluation of the rehabilitation/improvement needs for each irrigation system transferred? "The evaluation of the status of the irrigation systems is a technical study where the main problems of the irrigation infrastructure are identified with the associated cost of rehabilitation/improvement. Normally this is carried out together with the representatives of the WUAs".	- I III
BM05070: The leaders of the WUAs and the representatives of the government meet to determine the priority works to be rehabilitated	C ***
an # +2#1 + ++ Simulation Gray	
g liss than full take, estimate the total number of days/month they worked and divide it by 226/10. (b), This should give the no. of people who worked full time. If there is a fraction, round it according to the	people

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Level of aggregation and dependability on lower levels

Local units must follow the simple instructions to fill in the PDF file that will be assigned to them, follow the wizard to export data and send the file, which is their connection to the higher regional unit.

Regional Level



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Level of aggregation and dependability on lower levels

The level of aggregation between the regional level and the national level is through the software itself, which is the same at both levels, but with different functions depending on the level of authentication. The only location where you can see all the data aggregated is the national one, where such data are derived from: the regional stations will be able to have an overview only for their local units aggregated data.

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National Level

Regional Level

Regional Level

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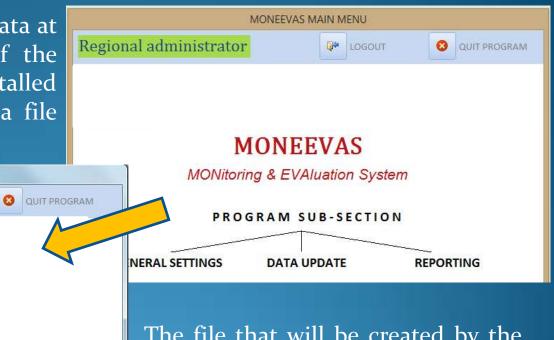
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Once you have finished entering data at the regional level, as for the case of the local procedures, the software installed at the regional level will export a file using a wizard

LOGOUT

MONFEVAS MAIN MENU

National administrator



PROGRAM SUB-SECTION

MONEEVAS

MONitoring & EVAluation System

The file that will be created by the wizard is not editable for any of the following: name, extension and contents

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Pre-conditional requirement of application

The system requirements for the different levels, both in terms of hardware and software requirements are summarized in the following table:

LOCAL LEVEL	REGIONAL LEVEL	NATIONAL LEVEL
To fill out the simple PDF form, the requirements are a Personal Computer running Windows or Mac or Linux Operating System, with the only feature to be able to run Adobe Acrobat Reader 9 or later versions.	The system requirements to use the selected database management software, are as follows:	 processor with SSE2 instruction set Required operating system: Windows 8, Windows 7, Windows Server 2008 R2 or Windows Server 2012 Required memory: 1 GB of RAM (32 bit); 2 GB of RAM (64 bit) 3 GB of available hard-disk space Graphics hardware acceleration requires

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Once the programming of the system, which is still in alpha testing, will be completed it will be distributed together with a PDF manual, consisting of two parts: a basic part and an advanced part: the first helps the local units, the second at regional and national levels.

A nay level, local, regional or national, no specific programming skills are needed; it is sufficient to follow the instructions to implement the database and get all the information from the system.

For any future customization of the data and/or reports structure, what you need is a Microsoft Access 2010 software license, and then to provide for the distribution of the installation package to all hierarchical levels, regional and national



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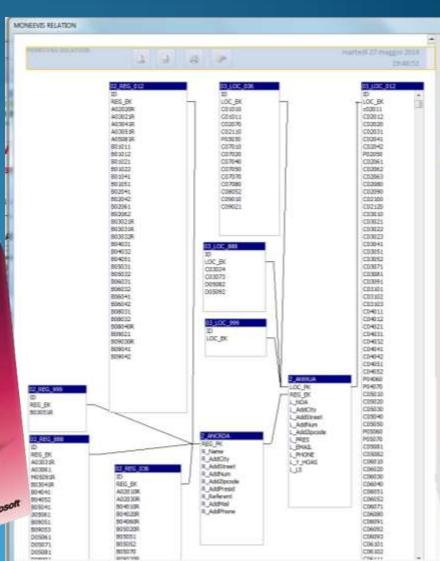
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What you need to customize the structure of the data and reports is a Microsoft Access 2010 software license, and then to provide for the distribution of the installation package to all hierarchical levels, regional and national

BaOffice

Access 2010

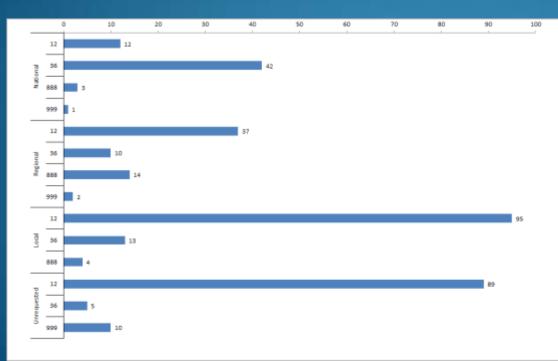
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€ 888	ala
999	1
Regional	
± 12	37
⊞ 36	10
€ 888	14
999	2
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⊞12	95
€ 36	13
€ 888	4
Unrequested	
⊕ 12	89
€ 36	5
€ 999	10
Total 3	37



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Annual Reporting, multiyear trend and archived info

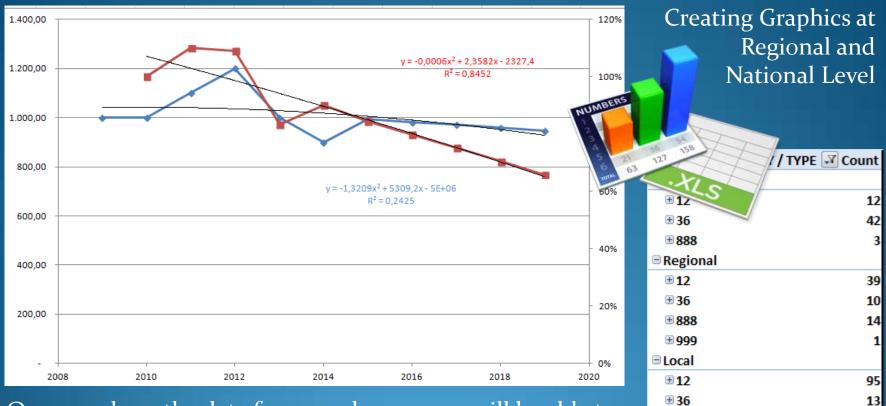
For every hierarchical level you can get the report to display the data, indicators, results and scores: this greatly facilitates the interaction with the system, at regional and national level, and makes possible an estimate of the expected results.





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Once you have the data for several years, you will be able to compare the data, creating reports and charts for any of the variables and data available, and offer a valuable decision support, also exporting data in Excel format.

Project funded by the European Union

 ± 888

∃12

± 36

⊞999 Total

Unreguested

92

339

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