



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

2.2 M&E per outcome

Activity implemented in collaboration with CIHEAM/IAM Bari



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 producing 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 is able to generate graphs with trends.

Short definition (report)	OUTPUT (report)	OUTCOME (report)
Existence of a government declaring the PIM national priority		
A coordination mechanism established		
A coordination mechanism established		
Degree of effectiveness among the institutions PIM/IMT program		
Degree of effectiveness among the institutions PIM/IMT program		
Roles and responsibilities involved are clear respect to PIM/IMT		
Roles and responsibilities involved are clear respect to PIM/IMT		

Currency setting and conversion

Currency setting and conversion

ID: (Nuovo)

Data of collection: 01/01/2014 12:00:00

Currency description:
 ID: internal code
 CODE: international code

ID CODE	CURRENCY NAME
1	USD Dollar
2	EUR Euro
3	JOD Jordanian Dinar
4	LBP Lebanese Pound
5	DZD Algerian Dinar
6	MAD Moroccan Dirham
7	TND Tunisian Dinar

Currency exchange rate vs Dollar

Mean exchange ratio value

HISTORICAL LIST OF VALUE

For the data about the exchange rate it is possible to consult the following web site
www.exchangerates.org.uk

Record: 1 di 1




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.

MONITORING		
Outcome	Output	Indicator
A.1 - The implementation of the PIM/MT program is supported politically.	A government statement declaring the PIM/MT program a national priority is available.	A.1.1 - Existence of a government statement declaring the PIM/MT program a national priority.
OUTCOME A1		
A.2 - The PIM/MT program has been institutionalized for the planning and implementation phases.	Coordination mechanism is in place.	A.2.1 - A coordination mechanism has been established. A.2.2 - Degree of effectiveness of coordination among the institutions participating in PIM/MT program. A.2.3 - Roles and responsibilities of the actors involved are clearly defined with respect to PIM/MT.
OUTCOME A2		
A.3 - The PIM/MT program is supported with a national PIM/MT Plan which is operational.	A national PIM/MT Plan with financial and human resources allocated is available.	A.3.1 - A national PIM/MT plan with financial and human resources allocated. A.3.2 (AB) - Percentage of the annual budget allocated to the irrigation agency for the PIM/MT programme with respect to the budget two years ago. A.3.3 (THR) - Percentage of the total human resources allocated by the irrigation agency to the PIM/MT programme in last year with respect to two years ago.
		OUTPUT A3.1
	Annual budget for rehabilitation available.	A.3.4 (AFAR) - Percentage of the annual financial allocation for the rehabilitation (AFAR) or improvement of transferred irrigation systems last year with respect to 2 years ago.
OUTPUT A3.2		
OUTCOME A3		

REGIONAL AND LOCAL OFFICE LIST			
Regional and local office list			
REG CODE	REGIONAL NAME	LOC CODE	LOCAL NAME
1 North Directorate			
		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 Directorate			
		8	Al-kraymeh Pump Station 55
		7	Abu-Seido Pump Station 50
3 Karameh			
		10	Ghor Kated Pump Station 91
		11	Ghor Kated Pump Station 95
		12	Al-Kafrein
		13	Ar-Rama
		9	Ghor Kated Pump Station 81
4 South Directorate			
		16	Al-Khunezeera
		14	Mazra'a, Haditha
		15	Feifa
 EUROPEAN UNION EUROPEAN REGIONAL DEVELOPMENT FUND		 LDK CONSULTANTS	
		 CIHEAM ORIENT	
			Page 1 of 1 sabato 31 maggio 2014

Typology of requested input: Logical, Numerical and calculated

Type of input

The information that we want to acquire can be stored in different way depending on its nature, 4 types 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 specificities, self determinates its 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
A	N			N		IL	12		A01010	
A	N			NR		IL	36		A02010N	
	R	N	C	NR		IL	36		A02010R	
A	N			NR		IQ	12		A02020N	
	R	N	C	NR		IQ	12		A02020R	
A	N			NR		IL	36		A02030N	
	R	N	C	NR		IL	36		A02030R	
A	N			N		IL	36		A03010	
A	N			NR		IN	12		A03021N	AB1n
	R	N	S	NR		IN	12		A03021R	AB1r

Frequency of monitoring and codification

The unit of frequency is in months, but the monitoring frequencies are every 12, every 36 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

The screenshot displays the MONEVAS MAIN MENU with the following elements:

- Logos:** European Union flag, Sustainable Water Integrated Management Support Mechanism (SWIM - SM) Project funded by the EU, CIHEAM IAM Bari, and MONEVAS MONitoring & EVALuation System.
- User Information:** Login: Marco
- Navigation Tabs:** GENERAL SETTINGS, MONITORING (selected), EVALUATION, REPORTING, UTILITY & TOOLS
- Frequency Selection List (circled in red):**
 - National (12 months step)
 - National (36 months step)
 - National (once at M&E start)
 - Regional (12 months step)
 - Regional (36 months step)
 - Regional (once at M&E start)
- Data Entry Form:**
 - YEAR RELATIVE TO THE DATA YOU ARE ENTERING:** 1998
 - A01010:** Existence of a government statement declaring the PIM/IMT program a national priority. "A government statement about PIM/IMT is a formal document where the objectives and justification of the programme are described but also other information regarding the scope and the policies to be implemented". Includes a "yes" checkbox.
 - A02020N:** Degree of effectiveness of coordination among the institutions participating in PIM/IMT program. "Coordination is effective when all participating institutions carry out their responsibilities as agreed in the Coordination Mechanism." Includes a dropdown menu.
 - A03021N:** Annual amount of money allocated by the irrigation agency and cooperating institutions (including donors) for the planning and implementation of the PIM/IMT during last. Includes a "currency/year" label and a value of "10000".
- Footer:** Record: 1 di 1, Nessun filtro, Cerca

Frequency of monitoring and codification

The unit of frequency is in months, but the monitoring frequencies are every 12, every 36 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

The image shows a screenshot of a data entry form titled "National input mask - 12M". The form is divided into several sections, each with a specific code and description. The sections are:

- A01010:** Existence of a "A governme described but
- A02020N:** Degree of eff "Coordination Mechanism."
- A03021N:** Annual amou
- B03021N:** Number of Government Staff at the Support Unit fully dedicated to provide support to PIM/IMT program (NGSPIM/IMT) up to last year. For staff that is not working full time they should be converted to full time. Example: 4 persons working 1/2 time is equal to 2 persons full time. Staff of the support units can be at the local level, at the regional or national level at the headquarters of the irrigation agency. (no. of people)
- B03031N:** Number 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 irrigation agency) (no. of day)
- B03032N:** 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 irrigation agency) (no. of day)
- B08040N:** Annual ME report is produced, with the results integrated into the annual workplan. "WUAs 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". (checkbox yes)
- B08040N:** Rehabilitation/improvement needs for each irrigation system transferred? (checkbox yes)
- B08040N:** If the government meet to determine the priority works to be (checkbox yes)
- B08040N:** Days/month they worked and divide it by 220/10. full time. If there is a fraction, round it according to the (no. of people)

The form also includes a "GENERAL" tab, a "2006" year selector, and a "National input mask - time of update 12 months" title. At the bottom, there is a navigation bar with "Record: 2 di 5" and "Cerca".

Reporting per level

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, regional and national level, and makes possible an estimate of the expected results.

The ability to export data, makes also possible to create charts and reports in external programs



Currency setting and conversion

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CODE: international code

ID	CODE	CURRENCY NAME
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2	EUR	Euro
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4	LBP	Lebanese Pound
5	DZD	Algerian Dinar
6	MAD	Moroccan Dirham
7	TND	Tunisian Dinar

ange ratio value

2006 2007 2008 2009 2010 2011 2012 2013 2014 2015

LIST OF VALUE

is possible to consult the following web site angerates.org.uk

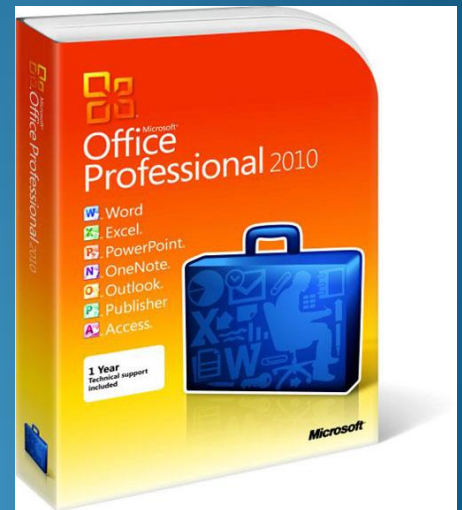
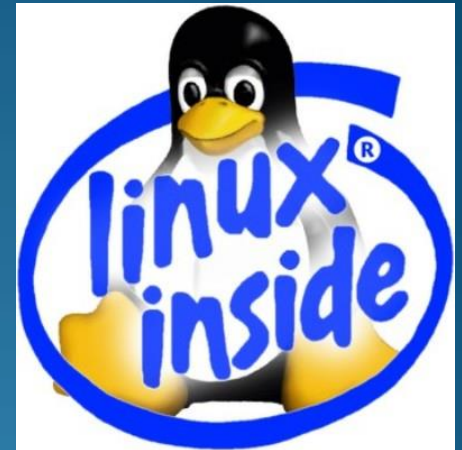
filtro Cerca

Justification of software selection

The first reason for the choice was the time available for development, making it impossible to consider solutions based on other application platforms, such as "open source"

The second reason is the availability of a platform for distribution to regional and national level that enables all operators of all levels to work without having any software license: it is advisable to purchase a Microsoft Office Professional 2010 Suite at the national level, for any changes to the structure after the release phase

The last and most important reason is the possibility to use any kind of computer at the local level, provided they are able to run the software Adobe Acrobat Reader 9 or later versions



Regional office registry

Regional office registry

REGIONAL OFFICE UNIQUE CODE:

Name of Irrigation Agency responsible for the PIM/IMT program:

DETAILED INFORMATION

OFFICIAL ADDRESS INFORMATION

CITY	<input type="text"/>	ZIPCODE	<input type="text"/>
STREET	<input type="text"/>	CIVIC NUMBER	<input type="text"/>

President name

Referent name

Referent mail

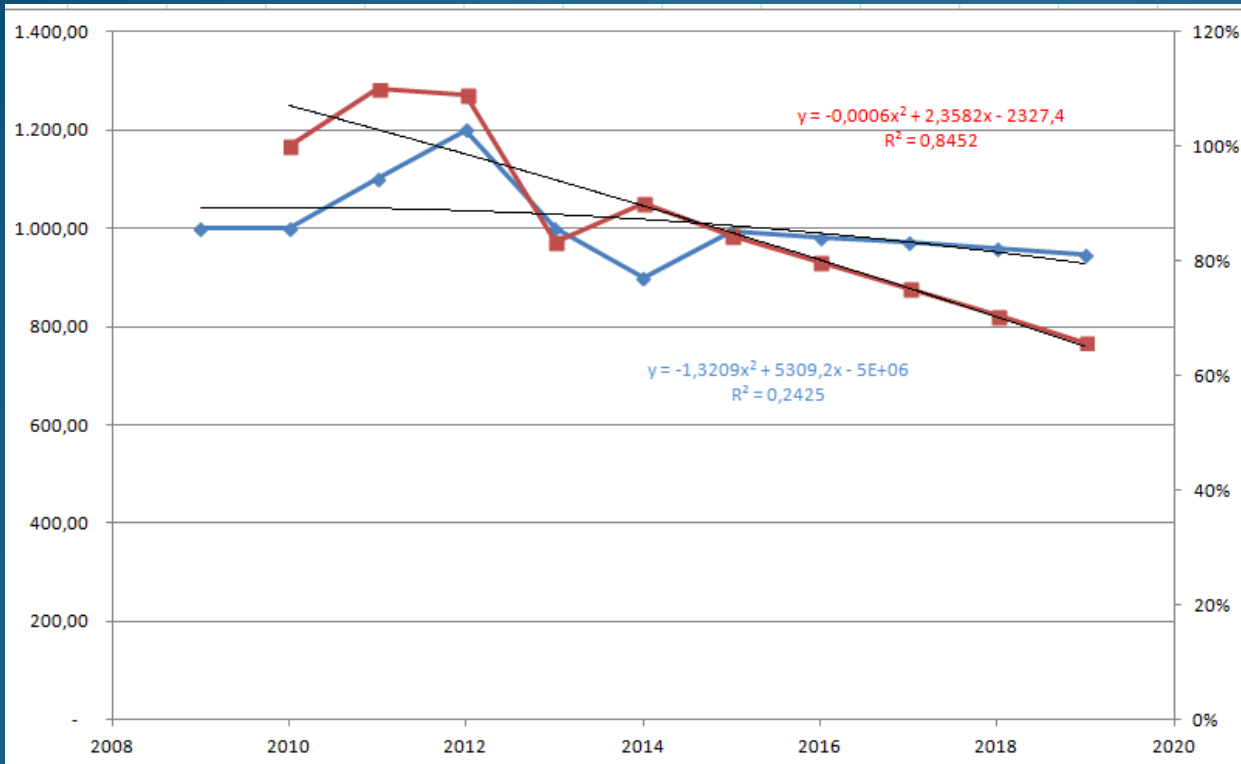
Referent phone

Record: 4 di 4 Nessun filtro Cerca

Input Data Mask at Regional and National Level

MONITORING						EVALUATION				
Outcome	Output	Indicator	Graph/Is	Score system (point)			Total	Max score	Evaluation	Comments
				2	1	0				
A.1 - The implementation of the PIM/IMT program is supported politically.	A government statement declaring the PIM/IMT program a national priority is available.	A.1.1 - Existence of a government statement declaring the PIM/IMT program a national priority.	N						Score 2 means the activity has been carried out and the output achieved. Score 0 means the output has not been achieved.	The fact that government made explicit their support to the PIM Program is a positive good practice but its absence does not mean necessarily that the PIM program is not supported. Therefore the score "0" means only that the government does not want to make explicit its policy although still it may support the PIM program.
	OUTCOME A1							2		
A.2 - The PIM/IMT program has been institutionalized for the planning and implementation phases.	Coordination mechanism is in place.	A.2.1 - A coordination mechanism has been established.	N						Score 6 means inputs from different government agencies are properly coordinated, roles are clear and line of command is unique. Score between 4 and 2 indicates deficiencies in the coordination and it will be necessary to look to the specific indicators to identify where the deficiencies are. Score 0 means that the coordination is ineffectual.	
		A.2.2 - Degree of effectiveness of coordination among the institutions participating in PIM/IMT program.	N							
		A.2.3 - Roles and responsibilities of the actors involved are clearly defined with respect to PIM/IMT.	N							
OUTCOME A2							6			
A.3 - The PIM/IMT program is supported with a national PIM/IMT Plan which is operational.	A national PIM/IMT Plan with financial and human resources allocated is available.	A.3.1 - A national PIM/IMT plan with financial and human resources allocated.	N						If the indicator value is 2 the output1 has been achieved. If the value is 0 the output has not been achieved. The proposed scoring system for indicators A.3.2 and A.3.3 is related to the age of the PIM/IMT process. An annual decreasing trend in the allocation of financial and human resources is positive after 5-10 years of the PIM/IMT program, since the more area is transferred the less governmental resources should be allocated. However this may not be true in all cases since during the initial years, the government may maintain the resources constant or even increase them. For this reason it is important to look at the trend during a period of at least 5 to 10 years to have a more proper evaluation. The scoring system may be modified according to local experience.	
		A.3.2 (AB) - Percentage of the annual budget allocated to the irrigation agency for the PIM/IMT programme with respect to the budget two years ago.	Y							
		A.3.3 (THR) - Percentage of the total human resources allocated by the irrigation agency to the PIM/IMT programme in last year with respect to two years ago.	Y							
	OUTPUT A3.1							6	A score of 6 points means that the annual budget with the human resources is allocated according to the needs of the PIM/IMT program. Lower points indicated that the trend is not as expected and reasons should be investigated.	
	Annual budget for rehabilitation available.	A.3.4 (AFAR) - Percentage of the annual financial allocation for the rehabilitation (AFAR) or improvement of transferred irrigation systems last year with respect to 2 years ago.	Y						Indicator A.3.4 tries to verify the continuity of funds for rehabilitation works in the transferred areas. A score between 2 and 1 indicates that the budget allocated is maintained within reasonable limits but a 0 indicates an abrupt decline that should be clarified. In some countries the PIM/IMT process could be slow, and the budget increase might continue beyond 5 years. It is therefore important to read the trends based on the specific country's PIM program lifetime.	The rehabilitation needs may have a growing trend at the beginning but after few years (5-10), the trend should be decreasing. As we know the area transferred every year, we can also calculate the cost per ha of the rehabilitation and assess the trend.
OUTPUT A3.2							2			
OUTCOME A3							8			

Creating Reports at Regional and National Level



Creating Graphics at Regional and National Level