



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**

1.1 M&E system and computer application structure

This activity is implemented in collaboration with CIHEAM IAM Bari



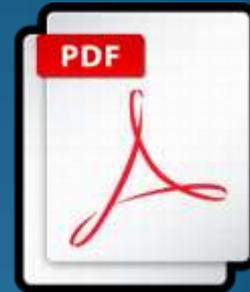
CIHEAM
IAM BARI

Sustainable Water Integrated Management (SWIM) Support Mechanism

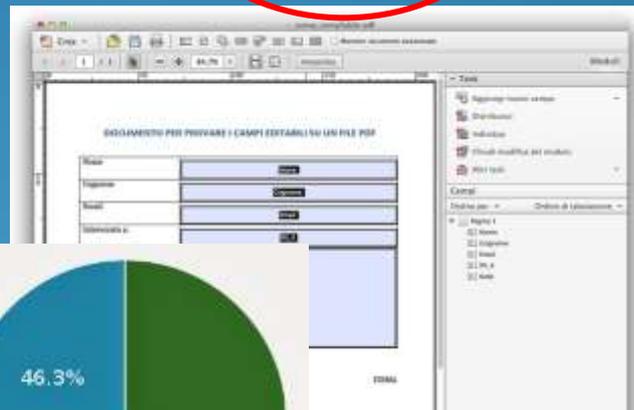
M&E SYSTEM APPLICATION TO MONITOR & EVALUATE PIM AND IMT PROCESS

The cascade approach: National, Regional and Local levels

The hierarchical approach ensures the coherence of the system.



The WUAs operators have just to fill out a simple PDF form that generates a document to be transmitted to the hierarchically higher level for the implementation of the database.



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- 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"
- Extended definition
- "Short definition(report)"
- "output (report)"
- "outcome (report)"

Code	Indicator	Unit	Frequency	Reviser	Level of applicability	Level of aggregation	Subject of request	Output/outcome module	Extended definition	Short definition (report)	Output (report)	Outcome (report)
E.1	1	12	12	12	12	12	12	12	12	12	12	12
E.1	2	12	12	12	12	12	12	12	12	12	12	12
E.1	3	12	12	12	12	12	12	12	12	12	12	12
E.1	4	12	12	12	12	12	12	12	12	12	12	12
E.1	5	12	12	12	12	12	12	12	12	12	12	12
E.1	6	12	12	12	12	12	12	12	12	12	12	12
E.1	7	12	12	12	12	12	12	12	12	12	12	12
E.1	8	12	12	12	12	12	12	12	12	12	12	12
E.1	9	12	12	12	12	12	12	12	12	12	12	12
E.1	10	12	12	12	12	12	12	12	12	12	12	12
E.1	11	12	12	12	12	12	12	12	12	12	12	12
E.1	12	12	12	12	12	12	12	12	12	12	12	12
E.1	13	12	12	12	12	12	12	12	12	12	12	12
E.1	14	12	12	12	12	12	12	12	12	12	12	12
E.1	15	12	12	12	12	12	12	12	12	12	12	12
E.1	16	12	12	12	12	12	12	12	12	12	12	12
E.1	17	12	12	12	12	12	12	12	12	12	12	12
E.1	18	12	12	12	12	12	12	12	12	12	12	12
E.1	19	12	12	12	12	12	12	12	12	12	12	12
E.1	20	12	12	12	12	12	12	12	12	12	12	12
E.1	21	12	12	12	12	12	12	12	12	12	12	12
E.1	22	12	12	12	12	12	12	12	12	12	12	12
E.1	23	12	12	12	12	12	12	12	12	12	12	12
E.1	24	12	12	12	12	12	12	12	12	12	12	12
E.1	25	12	12	12	12	12	12	12	12	12	12	12
E.1	26	12	12	12	12	12	12	12	12	12	12	12
E.1	27	12	12	12	12	12	12	12	12	12	12	12
E.1	28	12	12	12	12	12	12	12	12	12	12	12
E.1	29	12	12	12	12	12	12	12	12	12	12	12
E.1	30	12	12	12	12	12	12	12	12	12	12	12
E.1	31	12	12	12	12	12	12	12	12	12	12	12
E.1	32	12	12	12	12	12	12	12	12	12	12	12
E.1	33	12	12	12	12	12	12	12	12	12	12	12
E.1	34	12	12	12	12	12	12	12	12	12	12	12
E.1	35	12	12	12	12	12	12	12	12	12	12	12
E.1	36	12	12	12	12	12	12	12	12	12	12	12
E.1	37	12	12	12	12	12	12	12	12	12	12	12
E.1	38	12	12	12	12	12	12	12	12	12	12	12
E.1	39	12	12	12	12	12	12	12	12	12	12	12
E.1	40	12	12	12	12	12	12	12	12	12	12	12
E.1	41	12	12	12	12	12	12	12	12	12	12	12
E.1	42	12	12	12	12	12	12	12	12	12	12	12
E.1	43	12	12	12	12	12	12	12	12	12	12	12
E.1	44	12	12	12	12	12	12	12	12	12	12	12
E.1	45	12	12	12	12	12	12	12	12	12	12	12
E.1	46	12	12	12	12	12	12	12	12	12	12	12
E.1	47	12	12	12	12	12	12	12	12	12	12	12
E.1	48	12	12	12	12	12	12	12	12	12	12	12
E.1	49	12	12	12	12	12	12	12	12	12	12	12
E.1	50	12	12	12	12	12	12	12	12	12	12	12
E.1	51	12	12	12	12	12	12	12	12	12	12	12
E.1	52	12	12	12	12	12	12	12	12	12	12	12
E.1	53	12	12	12	12	12	12	12	12	12	12	12
E.1	54	12	12	12	12	12	12	12	12	12	12	12
E.1	55	12	12	12	12	12	12	12	12	12	12	12
E.1	56	12	12	12	12	12	12	12	12	12	12	12
E.1	57	12	12	12	12	12	12	12	12	12	12	12
E.1	58	12	12	12	12	12	12	12	12	12	12	12
E.1	59	12	12	12	12	12	12	12	12	12	12	12
E.1	60	12	12	12	12	12	12	12	12	12	12	12
E.1	61	12	12	12	12	12	12	12	12	12	12	12
E.1	62	12	12	12	12	12	12	12	12	12	12	12
E.1	63	12	12	12	12	12	12	12	12	12	12	12
E.1	64	12	12	12	12	12	12	12	12	12	12	12
E.1	65	12	12	12	12	12	12	12	12	12	12	12
E.1	66	12	12	12	12	12	12	12	12	12	12	12
E.1	67	12	12	12	12	12	12	12	12	12	12	12
E.1	68	12	12	12	12	12	12	12	12	12	12	12
E.1	69	12	12	12	12	12	12	12	12	12	12	12
E.1	70	12	12	12	12	12	12	12	12	12	12	12
E.1	71	12	12	12	12	12	12	12	12	12	12	12
E.1	72	12	12	12	12	12	12	12	12	12	12	12
E.1	73	12	12	12	12	12	12	12	12	12	12	12
E.1	74	12	12	12	12	12	12	12	12	12	12	12
E.1	75	12	12	12	12	12	12	12	12	12	12	12
E.1	76	12	12	12	12	12	12	12	12	12	12	12
E.1	77	12	12	12	12	12	12	12	12	12	12	12
E.1	78	12	12	12	12	12	12	12	12	12	12	12
E.1	79	12	12	12	12	12	12	12	12	12	12	12
E.1	80	12	12	12	12	12	12	12	12	12	12	12
E.1	81	12	12	12	12	12	12	12	12	12	12	12
E.1	82	12	12	12	12	12	12	12	12	12	12	12
E.1	83	12	12	12	12	12	12	12	12	12	12	12
E.1	84	12	12	12	12	12	12	12	12	12	12	12
E.1	85	12	12	12	12	12	12	12	12	12	12	12
E.1	86	12	12	12	12	12	12	12	12	12	12	12
E.1	87	12	12	12	12	12	12	12	12	12	12	12
E.1	88	12	12	12	12	12	12	12	12	12	12	12
E.1	89	12	12	12	12	12	12	12	12	12	12	12
E.1	90	12	12	12	12	12	12	12	12	12	12	12
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E.1	92	12	12	12	12	12	12	12	12	12	12	12
E.1	93	12	12	12	12	12	12	12	12	12	12	12
E.1	94	12	12	12	12	12	12	12	12	12	12	12
E.1	95	12	12	12	12	12	12	12	12	12	12	12
E.1	96	12	12	12	12	12	12	12	12	12	12	12
E.1	97	12	12	12	12	12	12	12	12	12	12	12
E.1	98	12	12	12	12	12	12	12	12	12	12	12
E.1	99	12	12	12	12	12	12	12	12	12	12	12
E.1	100	12	12	12	12	12	12	12	12	12	12	12

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Description of the structure characteristics of the DataBase

Output/outcome module:

is the scoring report where the variable or indicator will be introduced to be evaluated

Subject of request

represents the office responsible to input that data (N: National, R: Regional, L: Local)

Level of aggregation - Type of aggregation

Each data when is transferred to the direct hierarchically higher level can be aggregated (grouped) in many ways (S: Sum, A: Average, C: Count, etc.) depending on the type of the indicator or variable

Level of applicability

establishes who has the right to visualize that information

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

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Reviser

Is the office having the right to verify and eventually modify the original data

Type of input

The information we want to acquire can be stored in different ways in function of its nature; 4 types of input are foreseen:

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

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

IQ: qualitative-coded input (normally a coded evaluation)

CA: calculated, the field with these specificities, self determinates its value through the use of a formula

Frequency

Is the interval in months for a specific indicator or variable for the updating

Graphics & report

For some indicators or variables the system gives the possibility to obtain Graphics, and Reports of Trends and Historical Data; all identified with a specific code

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Code

In informatics, the variable or indicator is identified by a code, it's useful to identify in a unambiguous way an object

Acronyms for numerical indicators

This alias is used to identify in a fast way some important objects in the textual description

Extended definition

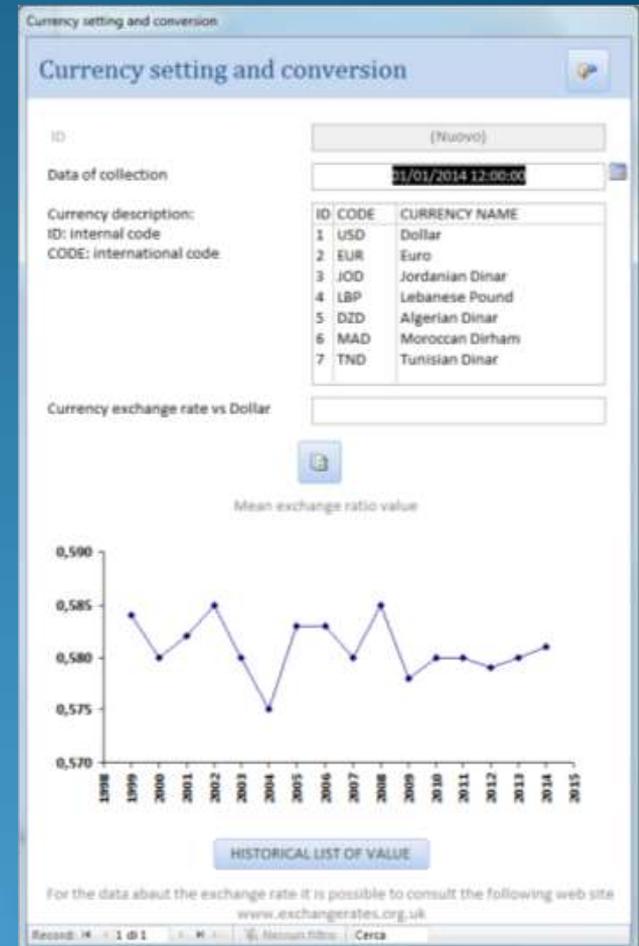
Is the complete description of the indicator or variable

Short definition

Is the reduced definition used in the report to identify a variable or indicators

Output (report) - Outcome (report)

Are the name used in the report to identify outputs and outcomes



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Data Request per level, and Data aggregation and Applicability concepts

The data required for each level of the higher hierarchy, are inserted into the system and aggregated internally, to form the database, accessible via the GUI integrated

The image displays two screenshots of the MONEEVAS system interface. The top screenshot is the 'MONEEVAS MAIN MENU' for a 'National administrator'. It features logos for the European Union, European Regional Development Fund, LDK Consultants, and CIHEAM. The system title is 'MONEEVAS MONITORING & EVALUATION SYSTEM'. Below the title, it shows 'PROGRAM SUB-SECTION' with two main categories: 'DATA UPDATE' and 'REPORTING'. The 'DATA UPDATE' section includes options for 'Update frequency (months)' (12, 36, 72), 'ONCE IN THE PIM/IMT LIFE AT THE START', 'ONCE IN THE PIM/IMT LIFE AT THE END', and 'DATA RETRIEVE'. The 'REPORTING' section includes 'TIMESET' (12, 36, 72), 'ONCE IN THE PIM/IMT LIFE AT THE START', 'ONCE IN THE PIM/IMT LIFE AT THE END', 'INDICATOR GRAPHICS AND DATA EXPORT', and 'VARIOUS'. A 'Help' button is located at the bottom.

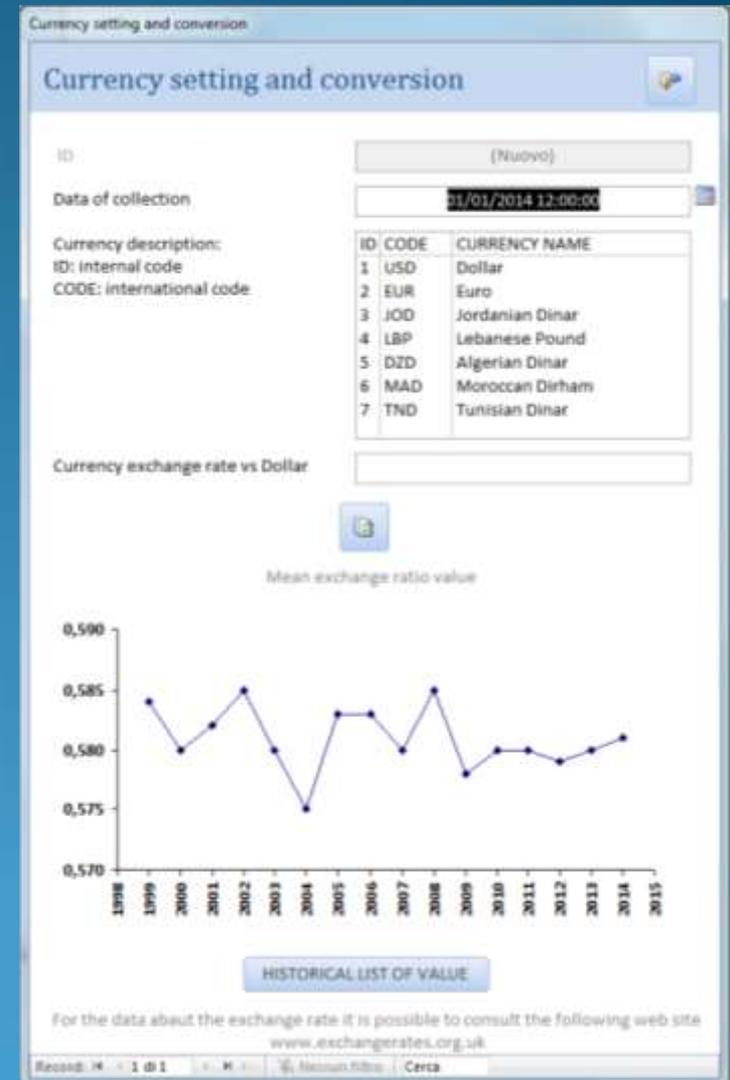
The bottom screenshot is a 'National input mask - 12M' window titled 'National input mask - time of update 12 months'. It has a 'GENERAL' tab and a '1996' dropdown menu. The window contains an 'ID' field with a dropdown arrow and a 'REFERENCE YEAR' field with the value '1996'. The bottom status bar shows 'Record: 1 of 5' and 'Cerca'.

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



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

