



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

Activity implemented in collaboration with CIHEAM/IAM Bari



The cascade approach: National, Regional and Local levels

The hierarchical approach ensures the coherence of the system.

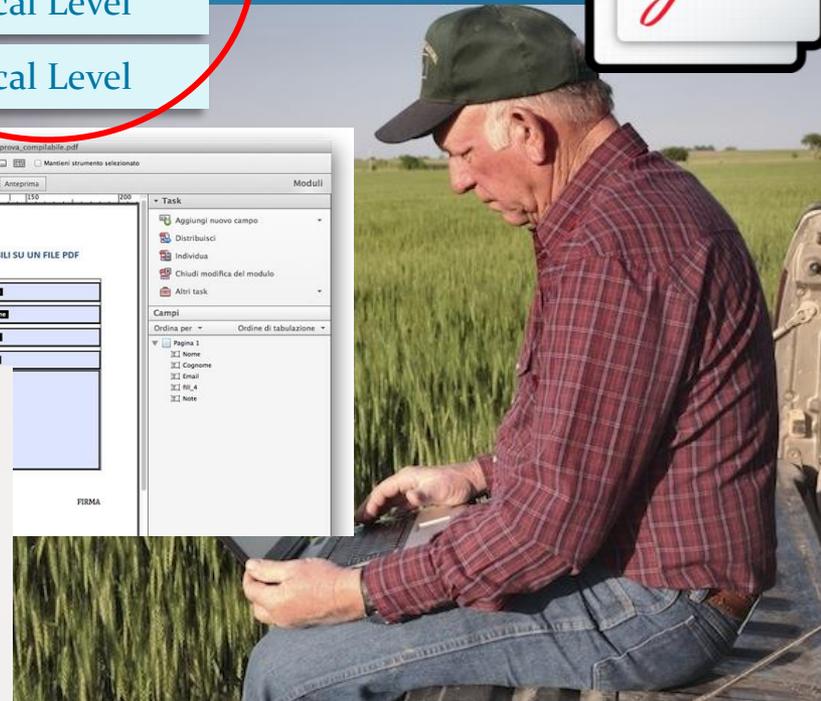


The WUAs operators have just to fill out a simple PDF form that generates a document to be transmitted to the hierarchically higher level for the implementation of the database.



Field	Value
Nome	Nome
Cognome	Cognome
Email	Email
Intervistato da:	Intervistato da

Percentage
46.3%
53.7%



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

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

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

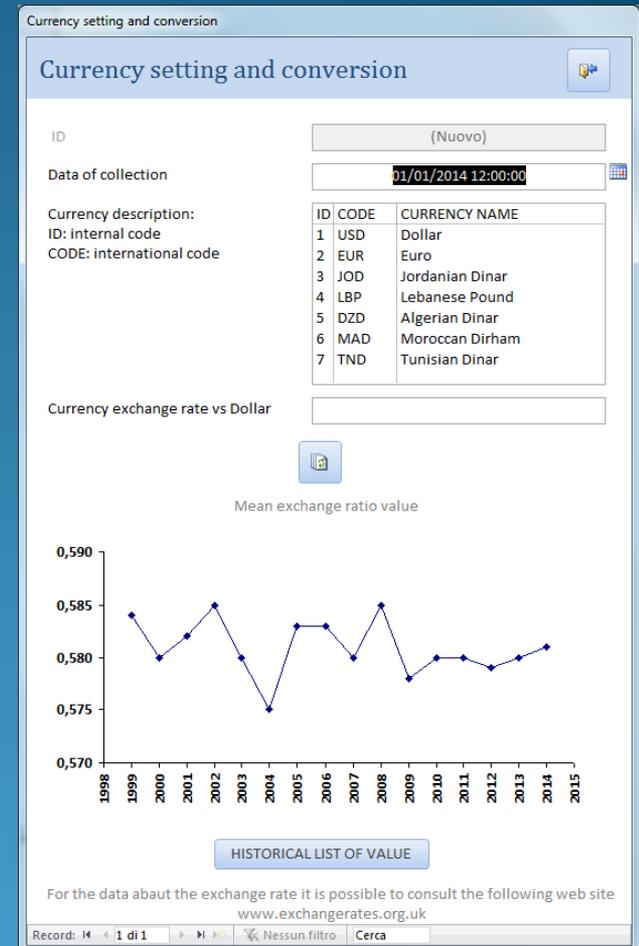
Is the complete description of the indicator or variable

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



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 (Graphical User Interface) integrated

National input mask - 12M

National input mask - time of update 12 months

GENERAL A B

1996

ID

REFERENCE YEAR

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MONEEVAS MAIN MENU

National administrator

LOGOUT

QUIT PROGRAM

EUROPEAN UNION
EUROPEAN REGIONAL
DEVELOPMENT FUND

LDK
CONSULTANTS

CIHEAM
IAM BARI

MONEEVAS
MONitoring & EVALuation System

PROGRAM SUB-SECTION

DATA UPDATE

Update frequency (months)

12 36 72

ONCE IN THE PIM/IMT
LIFE AT THE START

ONCE IN THE PIM/IMT
LIFE AT THE END

DATA RETRIEVE

REPORTING

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

VARIOUS

Help

Each level has the possibility to interact with the database assigned to the input layer, or to the revision level. Once all the processes of the allowed programmed aggregation by the system are completed, the analysis of reports can be undertaken

Complete list of CODE	List of CODES involved in preconditional requirement and check of existence				Field on witch are based the Pre-Conditional statement	verification of CODE	Formula and fields involved in calculation				
	original CODE	Pre-Conditional requirement	secondary CODE	verification of CODE			formula	field 1	field 2	field 3	field 4
A01010	A04011	A04010 = N	A04010	A04010	A04010	A04010	(B01011/B01012)*100	B01011	B01012		
A02010N	A04012	A04010 = N	A04010	A04010	A05010	A05010	(B01021/B01022)*100	B01021	B01022		
A02010R	A04013	A04010 = N	A04010	A04010	B03010	B03010	(B02041/B02042)*100	B02041	B02042		
A02020N	A04014	A04010 = Y	A04010	A04010	B04010N	B04010N	(B02041/B02042)*100	B02041	B02042		
A02020R	A04015	A04010 = Y	A04010	A04010	B04010R	B04010R	(B03021N/B01021)*5000	B03021N	B01021		
A02030N	A04016	A04010 = Y	A04010	A04010	B06010	B06010	(B06031/B06032)*100	B06031	B06032		
A02030R	A04021	A04010 = Y	A04010	A04010	B09010	B09010	(B06041/B06042)*100	B06041	B06042		
A03010	A04022	A04010 = Y	A04010	A04010	C02061	C02061	(B09021/(B01041+B01051))*100	B09021	B01041	B01051	
A03021N	A04023	A04010 = Y	A04010	A04010	C09010	C09010	(N07011/B01041)*100	N07011	B01041		
A03021R	A04024	A04010 = Y	A04010	A04010	C10011	C10011	(N07021/B01041)*100	N07021	B01041		
A03031N	A05020	A05010 = Y	A05010	A05010	C10012	C10012	((B01041+B01051)/(B03041+1)+B01051+1)/100	B01041	B01051	B01041	B01051
A03031R	A05030	A05010 = Y	A05010	A05010	C10020	C10020	(Z403021R/Z403021R+1)/100	A03021R	A03021R		
A03032N	A05040	A05010 = Y	A05010	A05010	C10050	C10050	(Z403041R/Z403041R+1)/100	A03041R	A03041R		
A03032R	A05050	A05010 = Y	A05010	A05010	D05040	D05040	(Z403051R/Z403051R+1)/100	A03051R	A03051R		
A03041N	A05060	A05010 = Y	A05010	A05010	B05041	B05041	(Z405081R/Z405081R+1)/100	A05081R	A05081R		
A03041R	A05070	A05010 = Y	A05010	A05010			(A03021N/A03021N+1)/100	A03021N	A03021N		
A03051N	N03022	B03010 = Y	B03010	B03010			(A03041N/A03041N+1)/100	A03041N	A03041N		
A03051R	B04020N	B04010N = Y	B04010N	B04010N			(A03051N/A03051N+1)/100	A03051N	A03051N		
A03061	B04020R	B04010R = Y	B04010R	B04010R			(A03061+A03051R)	A03061	A03051R		
A03062	B06020	B06010 = Y	B06010	B06010			(A03062*1000/B01022)	A03062	B01022		
A03063	B06031	B06010 = Y	B06010	B06010			(A05081N/A05081N+1)/100	A05081N	A05081N	B01051	B01051
A04010	B06032	B06010 = Y	B06010	B06010			(A05081N/A05091N)*100	A05081N	A05091N	B02041	B02041
A04011	B06041	B06010 = Y	B06010	B06010			(B01011+B01012)/(B01021+B01022)*100	B01011	B01012	B01021	B01022
A04012	B06042	B06010 = Y	B06010	B06010			(B01041/B01041+1)/100	B01041	B01041	B03021N	B03021N
A04013	N06030	B06010 = Y	B06010	B06010			(B01051/B01051+1)/100	B01051	B01051	B03021N	B03021N
A04014	N06040	B06010 = Y	B06010	B06010			(B03031N/B03032N)*100	B03031N	B03032N	B03031N	B03031N
A04015	B09021	B09010 = Y	B09010	B09010			(B04031/B04032)*100	B04031	B04032	B03031N	B03031N
A04016	B09030N	B09010 = Y	B09010	B09010			(B04052+7804051/B01041)*100	B04052	B04051	B01041	B03032N
A04021	B09030R	B09010 = Y	B09010	B09010			(B05031/B05032)*100	B05031	B05032	B03041N	B03041N

Score system
Score system

INDICATOR OR VARIABLE CODE

FIRST PERIOD

SCORE = 2

SCORE = 1

SCORE = 0

SECOND PERIOD

SCORE = 2

SCORE = 2

SCORE = 2

PERIOD TIME SETTING

WORK IN PROGRESS

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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.



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

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

