

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

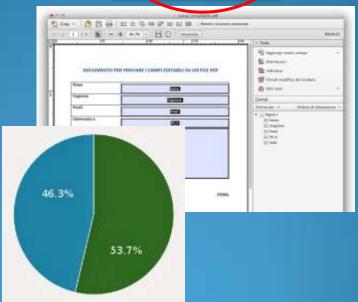
M&E SYSTEM APPLICATION TO MONITOR & EVALUATE PIM AND IMT PROCESS

The cascade approach: National, Regional and Local levels

The hierarchical approach ensures the coherence of the system.



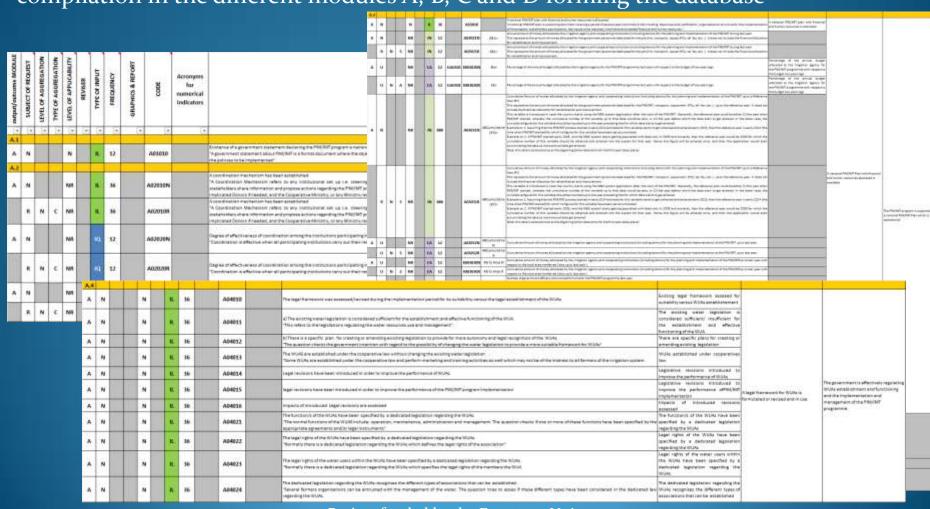
The WUAs operators have just to fill out a simple PDF form that generates a document to be transmitted to the hierarchically higher level for the implementation of the database.



PDF

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

The different hierarchical levels have access to different levels of information, and compilation in the different modules A, B, C and D forming the database



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

the columns of the diagrams represent the following characteristics of the database, along with the competences conferred to each level:

18	8	4	Jan.	-		Ц	-						1	200	-	_
Ě	Ĕ	2	ha l	100	-	_			-				Support Units these bear formats attached as	largest into the beet formula		
13	13	8	5	1 8	N		N		H.	36	903010		Temporal Unit is a general decomposition for the staff that must be the impactor against a rightly destinated to exappe the PM/REF program.	neighbones.		
OF AGGREGATION	TYPE OF AGGREGATION	OF APPLICABILITY REVISER	TVPE OF INPUT		N		N		14.	30	803020		Bobs, and palphalabilities of the 60-Ms support with Tries from a partified as well as the respective table of their members	Rolar and reappropriations of the NUAL Auggort unit have been specified as well as the respective techn of their members		
LEVEL OF	TYPEG	IIVIII	2	8	N		MA		IN	12	803021N	HOTEL PRINCIPAL	Survives of Successwell Surfa in the Support 2 aims for find and an approximate output to MON, Will prosper proximate the support and the supp		Support Ontal Formed, staffactional functioning effectively	
				В			NI		IN	12	963621R	HGDQ PRHEAT	Number of Occurrence had a line Expect than full promoted to provide suggest on POLYMF program (POLYMF), or to here year. The seaf-time is not unabsorptic time may cloud that control to the control to			
	H	N	A.S		Ų		M		EA.	12	N03022	NEFSI PerSiddesTon Persol	The bladd than as not applicable they should be converted to full home. Exemple: A personal conting \$1,50 forms in equal to 5 personal full time. This shall be support, units can	actually dedicated to provide suggest to Willia per every 1000 handaras of		
		N			N	$\overline{}$	Nº		194	12	B03031N	hettas	to X: Callbot lave, if the ligitization of X: the roots at level bit the headquarters of the in gator, agency) Sumble of Natural Learning Basic served out for the soft of the Augment sinst sharing the learning before	estigat earthfree		1
								-		_		-	Note that the spall of the support units can be trained at the local level, and at the segment and nature it wish for the heating arrays of the intigetion against Sunday of Acquait training days cannot out for the coaff of the Support units during the last way.	-		
		N.	10.0			N	5 MR		- 20		003035R	10/0251	Sales than the study of the support usins not be tracted as the bond level, and as the regional and national levels (as the heading where of the respector approx)			
		100	200	8	På		148	-	IP4	12	803032N	Artieta	Number of Training Date Plannardo: the staff of the Support Units builty the last year. Note that the spatial the support units are less than the foreign and and a the legitural and satisfact hereis (at the remain, a rank of the inspector agency).			
							NI		IN	12	3030328	NETSHIEL .	Sumber of Training Sero Planned for the sufflict the Support Write due to pre-land year			
R	N	S N		1 8	u		NA		CA		NE3016	MATTER	National the part of the Ausport with Care be reasonable the occan level, and as the segment and statement would get the frequence of the imagener agreed. For correspond the Number of the Account Coding Cody period and for the professional program along the last year with respect to those Planner (MANTER) of	Parcentage of the number of training days operaed out for the staff of the Support times during the lists sale with respect to three planners.		
	2		N		N		Nik		in	883	80394UN	te/70Cu/muletina sulptri	Example are 2 if PTO/MT accordance (1,200), and the USD operate storic personal properties and the 2008 and annual according to the control of the control			
					- 1		ш			-		-=:07/10	turnulative number of this sall able should be obtained and ensessed not the system for that year. Names this figure will be entered once, and then the application wester year accomplishing the data as make armine amount data per experied.			Working and paterns of
	7		N N	Н					Ш				Age then he yell of the support with the homework of the local local, and at the regional and national local from headlessment of the integration appropriate of the integration of the integration appropriate the degrade only as the degrading in har care and of the following the care and of the integration appropriate the degrade of the degr			tion the ingenior agency?
			NR NR								value ca	124	Executable Number of Proxibing Chyp. Accounts convex port for the Supplex Demonstrates on the PSD Proxibing to the Number of N		Braff of the Support Civitz airs Administration Trained and pupported in the Salid	
			NA	8	*		MI		an .	888	B03041K	20.99	have the way of a PPROTOT control one; 1000, and in State years about appropriate data to the one only 1,000 and manuals, they in a character per small the 1,000 to write the control of		0.07	
В	1		NR										Name: this does it arrested one at the degree light her does all to select place!			
	+		NR		·u		MS		CA	12	N03042	NATE COMMISSION DO	Notes Committee number of Tenning Step provided up in last year for the staff of the Support Units is an Approximation (descriptions of PSS) MET proper. Asset that the real of the support units can be revised at the local level and at the Approximation by the Peadous stars of the Approximation of PSS) MET proper.			
			NR NR	٠	U		w		EA	***	N03040	THE	Commission for the mining Days provided during the programmentation period of PM/M per Support Date implayee 5.01 provided to provide impany to the PM/MMT projects. Note: This implication is available derived this enter 1740/MT program 5.21 the expensed completion them inter new and firm destination and to the program their bear made. In this later may revise during the Completion of their section of their section of the completion of their section of	Training Days Nation per Support Limb enginees.		
	1		N		N		41		IN	991	809051N		Find Yeahning Assessment provided duting the Implementation period of PMANT is enterior the capacition of the government staffed the expect and. We is excellent the addition of the summary performed by such Technique assessment duting the implementation of PMANT.			
	N		N		*	N .	s NR		IN	999	903051R		Read Technical Applicance provided during the Implamentation period of PANNAT of emails and colours and the government prefix the august usin. This venebal is the addition of the author of emails pertorined by each find received according to the colours and the colours			
١.	N		,		u		Ne		CA.	999	Nesese	- Tankroopi Augustaicea Mari	Textical Next to a reliable support will employee. Next Text Indicate in a reliable support with a reliable Trapper 5 of 1914 support of reliable support of 1914 to reli	Technical Assessance Patterper Support		

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

WIGE 313	I EW AFF	LICATION	1 10 1		KOL	VAL	.UA	III =	FINI AND INTERCOCESS				
output/outcome module				* \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	8 tz		(2003)	-	The second secon		Property design	-	
subject of request				- 1	- u		19881 " 19881 "	100	Control of the Contro		5		
level of aggregation							Page 1	-					
type of aggregation					10. 11		MAGE	-	ar of restricts				
level of applicability					7 70 55		roce	-	The second secon			-	_
Reviser							100001	-	The Control State Control Co	and the latest section in the latest section	positives.	-	
type of input					, m		PERSON		Mark to the section of the second of provings for the section of t		Dente Step Spinson	at the contract of the contrac	
Frequency				6 t	1 10 14		PRODUCT OF	The contract of the contract o			Pater of Delivery of Balling &		
graphics & report code					* 10 to		19001	-					
"acronyms for numerical	indica	tore"	\$				HOOM	-				and the same of th	7.5
	IIIUICa	1015			1 10 11		_		The same that the same of the			-	
Extended definition	E 1 50 E	1 10 12	CHIMI	2 1 M A	1 10 11 11 11 11 11 11 11 11 11 11 11 11		PRODES PRODES PRODES PRODES PRODES	1401 17 100 100 100 100 100 100 100 100 10	Processing the common contract contract of the	eternet a cons			
"Short definition(report)"	E 1.	M 12	CERTAIN	1 0 0 00 A 0 1 00 0 0 0 0 00 A	9 100 11 2 70 11 3 100 11 2 100 11		PRODUCT OF THE PRODUC	100.444 	The company of the control of the accuse to be a larger to be set of the control	N/104 (44 h-44 /40111)			
"output (report)"	£ 1.	M 12	CERRI		THE RESERVE	-		-	ng, in wall, in probagation the appropriate two probagations appears. From a finisher of fluorist to the desired fluorist to t	Navitar disastatist kons hard sinds man	min particiti. Prove		-
"outcome (report)"	£ 0 8 A	* (* 1)	PERSON.	test format			*10*10		and arrival format is trained, cutt caused to the folial contain of larger each factors of the letter.	bread Property	offense.		
	C U H A	# 12 # C# D	PE2940	MANY SANSAR		Sig belowed	renetous	ort-design	et om 10 och formitali	Periornage of Prical To County of Insular particular Street provings			
	C L 8 E	8 N 12 8 N 12 8 12	CEUMA	State Section 14			-	1808	Tit feerede	Electrical despitation of the second	ARRESTON .		Desprise a seller of the later for those production
	C U ME A	# CB 12	PR2900	Personal Personal		40.00	Serve and	-	Do resear to the continuous of regressed parties to here.	Facurery of common Number to coming on the location	e lance		
	E 1 8 C	8 M 12 8 M	CRIMO CRIMO	to the second		To posses		er In December In the Bare		NAAMO meetine o hallog Commission op			
		* N 12	CETTED						reply examine. The immediates or least of the decision presenting the second floor includes as of the stock making:	Date of Section 19 and 1	mane seasons some mane	The section of the se	
	4 1	N 14	CN2500						re-marke	Temperature may be person for the property for sink-con positioning	en e		
	3E 3.	H 12:	CRIHAO.	-		that requires	n-special	Medicarie service bles	er green register en de de tres segment d'han promision i stange de promisioner en a profesionation des de Anna	Industrial regard 26x fire	president years remove	Anna .	

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

<u>Description of the structure characteristics of the DataBase</u>

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

Project funded by the European Union

	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
	•	\7	•	•	•	•	\7	\P	•	•	v
	Α	N			N		IL	12		A01010	
	Α	N			NR		П	36		A02010N	
		R	N	С	NR		П	36		A02010R	
	A	N			NR		ā	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
ı		R	N	s	NR		IN	12		A03021R	AB1r

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

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:

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

<u>IN</u>: 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

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

Code

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

<u>Acronyms for numerical indicators</u>

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



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

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

REPERENCE YEAR

National input mask - time of update 12 months

National input mask - 12M

GENERAL A B

Record # 1165 P H #5 Edition 1855 Certa

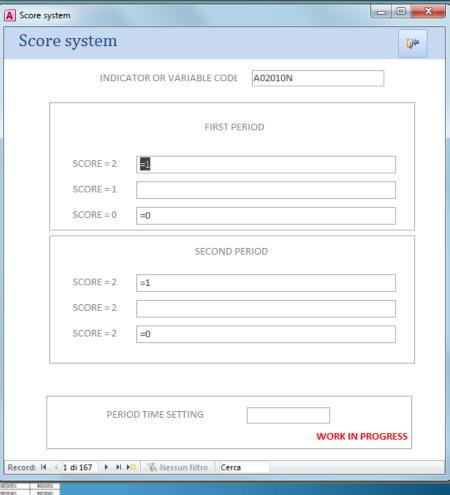


M&E SYSTEM APPLICATION TO MONITOR & EVALUATE PIM AND IMT PROCESS

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





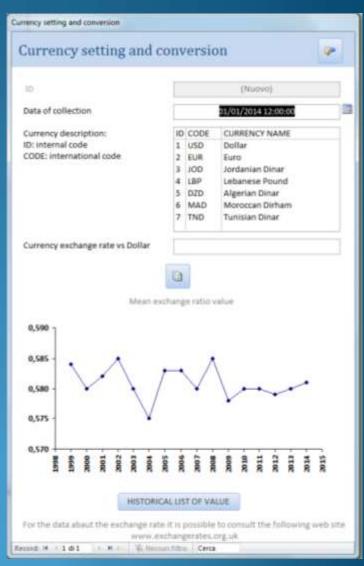
Project funded by the European Union

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

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.





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

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

