

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

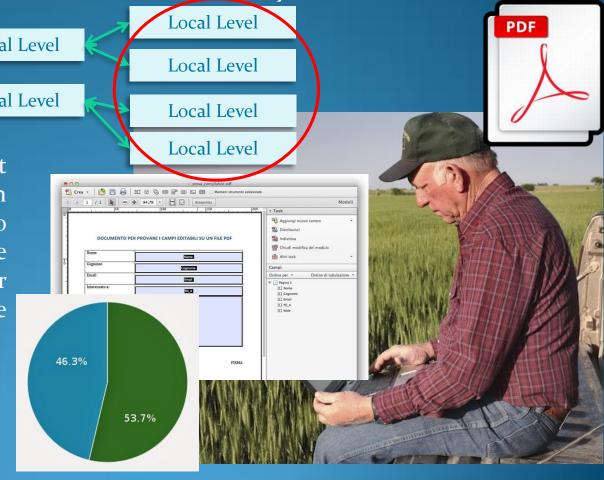
The hierarchical approach ensures the coherence of the system.

National Level

Regional Level

Regional Level

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.



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

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													A.3							A nacional PIM/IMT plan with financial and human resources is allocated.		A national PIM/IMT plan with financia		
													AN	N	ш	L 36		A03010		"A national FTM/IMT plan is a planning document covering a period of several years (normally T-20) including: objectives and of the program, stakeholders participation, key issues to be resolved, time frame and needed financial and human resource	justification, organizational structure for the implements."	entation and human resources is allocated		
													A N	NR	10	N 12		A03021N	A81n	Annual amount of money allocated by the imigation agency and cooperating institutions (including donors) for the planning or This represents the amount of money allocated for the government personnel dedicated for the pim/imt, transport, equipt	and implementation of the PIM/IMT during last year. (PCs, sel. fax, etc). It does not include the financial allo	ocation		
													R N	S NR	II.	N 12		A03021R	A81r	for rahabilitation and improvement. Annual amount of money allocated by the imigation agency and cooperating institutions [including donors] for the planning in this represents the amount of money allocated for the government personnel dedicated for the gin/lim, transport, equipt	and implementation of the PIM/IMT during last year. (PCs. tel. fax. etc.). It does not include the financial allo	ocation		
벌	_1	z :	z] ;	չ]	1	1	١.		1							1 11		HUSULAN		for rehabilitation and improvement.	e all an only entry in even or constant on institute and	Percentage of the annual budger		
MODUL	REQUEST	OF AGGREGATION	AGGREGATION	APPLICABILITY	_		8						A U	NR	C	A 12	GA0301	M03020N	Abn	Percentage of the annual budget allocated by the irrigation agency for the PIM/IMT programme last year with respect to the	budget of two years ago	allocated to the irrigation agency for the PIM/IMT programme with respect to		
Ž	ద	ĒĠ	§	ই∣,	ڇاڀ	_ ₹	E E			Acronyms												the budget two years ago Percentage of the annual budget		
output/outcome	9 P	gg	8	<u> </u>	E OF INP	FREQUENCY	৩	CODE		for			UN	A NR	C	A 12	GA0301	M03020R	Abr	Percentage of the annual budget allocated by the irrigation agency for the PIM/IMT programme last year with respect to the	budget of two years ago	allocated to the irrigation agency for the PIM/IMT programme with respect to		
월	6	FAG	¥	P A	힐	l g	GRAPHICS	8		numerical										Cumulative Amount of money allocated by the Irrigation agency and cooperating institutions (including donors) for the pi fear (Rr)	lanning and implementation of the PIM/IMT up to a Ref	the budget two years ago ference		
ş	SUBJECT	o l		0	ͳ	=	N Z			indicators										This represents the amount of money allocated for the government personnel dedicated for the PIM/IMT, transport, equipm linelyde the financial allocation for rehabilitation and improvement.	ment (PCs, sel. fax, etc), up to the reference year. It do	ows not		
탈	2	LEVEL	APE.	EVE.			5													This variable is introduced in case the country starts using the M&E system application after the start of the PIM/IMT. G PIM/IMT started, whereby the cumulative number of this variable up to that date would be zero, or (2) the year before	enerally, the reference year could be either (1) the year which the data start to get entered. In the letter ca	er when		
				_		+-		-	$\overline{}$					NR.	l	N SSS V		A03031N	ABCumulativ	cumulative figures for this variable should be inputted up to the year preceding that for which data starts to get entered. Example on 1: Assuming that the PIM/IMT process started in early 2014 and data for this variable starts to get collected and				
A.1	7	7	7	7	¥ .	· ·	7	4	~		4		^ "	NK NK	"	N 888		AUSUSIN	(RY)n	time when PIM/IMT started) for which no figures for this variable have been yet accumulated. Example on 2: If PIM/IMT started early 2005, and the M&E system starts getting populated with data only in 2009 and or	nwards, then the reference year would be 2008 for wh	ich the		
A.1											Existence of a gov	vernment statement declaring the PIM/IMT program a nation								cumulative number of this veriable should be obtained and entered into the system for that year. Hence this figure vaccumulating the date as more annual data get entered.	will be entered once, and then the application would	ld start		
Α	N			N	IL	12		A010	010		"A government st	atement about PIM/IMT is a formal document where the obje								Note: this data is entered once at the beginning (when data entry for the first year takes place)				
A.2											the policies to be	Implemented.		_		-				Cumulative Amount of money allocated by the Irrigation agency and cooperating institutions (including donors) for the pl	lanning and implementation of the PIM/IMT up to a Ref	Forence		
-7112											A coordination m	echanism has been established								Vear (RT) This represents the amount of money allocated for the government personnel dedicated for the PIM/IMT, transport, equipm		and the second s	A national PIM/IMT Plan with financial and human resources allocated is	
А	N			NR	IL.	36		A020	10N			Mechanism refers to any institutional set up i.e. steering re information and propose actions regarding the PIM/IMT pr								Include the financial allocation for rehabilitation and improvement. This variable is introduced in case the country starts using the M&E system application after the start of the PIM/IMT. G	enerally, the reference year could be either (1) the year	ar when	available	
												rs if needed, and the Cooperative Ministry, or any Ministry re:								PSM/MAT starsed, whereby the cumulative number of this variable up to that date would be zero, or (2) the year before cumulative figures for this variable should be inpusted up to the year praceding that for which data starts to get entered.				
												echanism has been established Mechanism refers to any institutional set up i.e. steering		5 NR	10	N 888		A03031R	(RY)r	Example on 1: Assuming that the PIM/IMT process started in early 2014 and data for this variable starts to get collected and time when PIM/IMT started for which no figures for this variable have been yet accumulated. Example on 2: PIM/IMT started early 2005, and that MME system starts getting populated with data only in 2009 and or				
	R	N	C	NR	IL	36		A020)10R		stakeholders sha	re information and propose actions regarding the PIM/IMT pr								cumulative number of this variable should be obtained and entered into the system for that year. Hence this figure is accumulating the data as more annual data get entered.				The PIM/IMT program is supported a national PIM/IMT Flan which is
	_		_						-		implicated Dono	is if needed, and the Cooperative Ministry, or any Ministry re								Note: this data is entered once at the beginning (when data entry for the first year takes place)				operational
			ш.								Degree of effective	reness of coordination among the institutions participating in												
Α	N		_ '	NR	IQ	12		A020	JZUN		"Coordination is	effective when all participating institutions carry out their re	A U	NR	C	A 12				Cumulative Amount of money allocated by the irrigation agency and cooperating institutions (including donors) for the plane				
	-		_						-				UN	S NR	CI	A 12		A03032R	ABCumulativ R	Cumulative Amount of money allocated by the irrigation agency and cooperating institutions (including donors) for the plant	ning and implementation of the PIM/IMT up to last year.			
	R	N	c	NR				A020			Degree of effective	reness of coordination among the institutions participating in	A U	NR	C	A 12		M03030N	AB to Area h	Cumulative amount of money allocated by the irrigation agency and cooperating institutions (including donors) for the pla respect to the total area transerred (also up to last year).		as with		
	K	N	۲	NK	IQ	12		AUZU	J2UK		"Coordination is	effective when all participating institutions carry out their re-		5 NR	C	A 12		M03030R	AB to Area F		enning and implementation of the PIM/IMTup to last ye	sar with		
	-		_	-	A.4		1													Number of government officers who worked full time for the PIM/IMT programme last year.				
A	N		1	NR	.					25										Existing le	egal framework assesed for			
		_	_	-	A	N		N	IL	36	A04010	The legal framework was assessed/revise	during the i	mplement	ation pe	eriod for i	its suital	bility vers	us the lega	establishment of the WUAs suitability of	versus WUAs establishement			
	R	N	C	NR																	ting water legislation is			
			_		A	N		N	IL	36	A04011	a) The existing water legislation is conside "This refers to the legislations regulating t						e functio	ning of the		d sufficient/ insufficient for ablishment and effective			
				-	\rightarrow			_													g of the WUA			
					Α	N		N	IL	36	A04012	b) There is a specific plan for creating or a "The question checks the government into									specific plans for creating or existing legislation			
					A	N		N		36	A04013	The WUAS are established under the coop									ablished under cooperatives			
					^	IN .		N	- "	30	A04013	"Some WUAs are established under the co	operative la	w and perfe	orm mar	keting a	ind traini	ng activit	ies as well	which may not be of the interest to all farmers of the irrigation system.				
					Α	N		N	IL	36	A04014	Legal revisions have been introduced in o	der to impro	ve the perf	ormance	e of WUA	As				revisions introduced to se performance of WUAs			
					_															Legislative	revisions introduced to		he government is effectively	
					A	N		N	IL	36	A04015	legal revisions have been introduced in or	der to improv	ve the perf	ormance	e of the P	PIM/IMT	program i	mplement	tion improve t		framework for WUAs is	VUAs establishment and fun- ind the implementation and	
					A	N		N	п	36	A04016	Impacts of introduced Legal revisions are	assessed							Impacts	of introduced revisions formula	ited or revised and in use	nanagement of the PIM/IMT	
					^				- "	30	M04010	The function/s of the WUAs have been spe		edicated la	eislatio	n regard	ding the V	VUAs.		assessed The function	on/s of the WUAs have been		rogramme	
					Α	N		N	IL.	36	A04021	"The normal functions of the WUAS include	operation,						nent. The o	estion checks if one or more of these functions have been specified by the specified	by a dedicated legislation			
					+							appropriate agreements and/or legal inst	uments"							regarding t	the WUAs ts of the WUAs have been			
					A	N		N	IL	36	A04022	The legal rights of the WUAs have been sp "Normally there is a dedicated legislation							essociation	specified	by a dedicated legislation			
					+							Townson, trees as a secretical registration		wii						regarding t	the WUAs ts of the water users within			
					A	N		N	l IL	36	A04023	The legal rights of the water users within t								e WUAs. the WUAs	have been specified by a			
					^				- "	"	70-1025	"Normally there is a dedicated legislation	regarding the	e WUAs wh	ich spec	ifies the	e legal rig	hts of the	members	he WUA dedicated WUAs	legislation regarding the			
					\neg							The dedicated legislation regarding the W	JAs recogniz	es the diffe	rent tvn	es of ass	sociation	ns that ca	n be estat		ated legislation regarding the			
					Α	N		N	IL.	36	A04024	"Several farmers organizations can be en								asses if these different types have been considered in the dedicated law WUAs reco	ognizes the different types of			
												regarding the WUAs.								associatio	ns that can be established			

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

щ	1	- I	_1.1	1	1	1			1						1	1	1	7
Σ	₩	5 ∣	AGGREGATION		В	.3												
<u> </u>	REQUEST	ΕU	턁 蒏	l <u>⊨</u>	1,5	B N			N		. 2	36	B03010		Support Units have been formally established	Support Units have been formally		
≥	¤	8	ថ្នា 💆	INPUT	15			-			. ,	,,,	503010		"Support Unit is a generic denomination for the staff that work in the Irrigation agency and fully dedicated to support the PIM/IMT program."	established.		
Ĕ		ا ق	품 글	₩ <u>₹</u>	1											Roles and resposnibilities of the WUAs support unit have been specified as		
i i	卢	5	9 4	OF INP	1 1	B N			N	- 1	L 3	36	B03020		Roles and resposnibilities of the WUAs support unit have been specified as well as the respective tasks of their members	well as the respective tasks of their		
output/outcome MODULE	SUBJECT		÷ 5	7 E	1 !											members		
달				[11,	BN			NR		N 1		DOZOZANI	NGSSU PIM&IMT	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		Support Units formed, staffed and	
욕	S	LEVEL	LEVEL		'	B N			NK	- "	N I	LZ	BOSUZIN	NGSSU PIMELIMI	converted to full time. Example: + persons working 1/2 time is equal to 2 persons full time. Starf of the support units can be at the local level, at the regional or national level at the headquarters of the irrigation agency.		functioning effectively	
		-													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			
A.5		_			'	BR			NR	- 1	N 1	12	B03021R	NGSSU PIM&IMT				
А	l N		l N			_		+-	_						headquarters of the irrigation agency. Number of government staff actually dedicated at the Support Unit (Note: Support units can be at the local level, at the regional or national level only at the headquarters of the irrigation	Total number of sovernment staff		
A	N		N	"	Πì.	B U								NGS SU Per5000HaTrans	agency, I to provide support to WUAs per every 5000 hectares of equipped area transferred up to last year.	actually dedicated to provide support to		
		_				В			NR		A 1	LZ	N03022	ferred	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. Note that the staff of the support units can			
A	N		N	IL.	<u>:</u> —	+		+	-						be at the local level, at the regional and at the national level (at the headquarters of the irrigation agency) Number of Actual training days carried out for the staff of the Support Units during the last year	equipped area transferred.		
		_				B N			NR	- 10	N 1	12	B03031N	NATDSU	number or Actual training days carried out for the start of the support units out in the start of the support units on the start of the support units on the start of the support units on the trained at the local level, and at the regional and national levels (at the headquarters of the irrigation agency)			
						B R	N	s	NR		N 1	12	B03031R	NATDSU	Number of Actual training days carried out for the staff of the Support Units during the last year			
A	N		N	IL	1	D N	IN	3	ININ		1	LZ	POSOSTK	INTEGO	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)			
						B N			NR	- 10	N 1	12	B03032N	NTDPSU	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)			
						R R			NR				B03032R	NTDPSU	Number of Training Days Planned for the staff of the Support Units during the last year.			
A	B 1					ВК		1	NK	"	N 1	LZ .	B03032K	NIDPSU	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)			
	D.1															Percentage of the number of training days carried out for the staff of the		
A	В	R	N S	NR		BU			NR	C	A 1	12	N03030	%NATDPSU	Percentage of the Number of the Actual Training Days carried out for the staff of the Support Units during the last year with respect to those Planned (%NATDPSU).	Support Units during the last year with		
A					_											respect to those planned.		
	1														Cumulative Number of Training Days Actually carried out for the staff of the Support Units up to a Reference Year (RY) (AreaCumulative SU (RY)). This variable is introduced in case the			
A	В	R	N S	NR	1										country starts using the M&E system application after the start of the PIM/IMT. Generally, the reference year could be either (1) the year when PIM/IMT started, whereby the cumulative number of this variable up to that date would be zero, or (2) the year before which the data start to get entered. In the latter case, the cumulative figures for this variable should be			
	1 1														inputted up to the year preceding that for which data starts to get entered.			
		B.2													Example on 1: Assuming that the PIM/IMT process started in early 2014 and data for this variable starts to get collected and entered early 2015, then the reference year is early 2014 (the			
A					Т.	B N			NR		N 88		B03041N	NATDCumulative	time when PIM/IMT started) for which no figures for this variable have been yet accumulated. Example on 2: If PIM/IMT started early 2005, and the M&E system starts getting populated with data only in 2009 and onwards, then the reference year would be 2008 for which the			
	В	В	N	1	v '	B N			I WE		N OC	••	BUSU41IV	SU (RY)	cample on 2 in ringing stated early 2005, and in execusive missing populated with data only in 2005 and onlywards, then the letter fixed with unit of 2006 and only in 2005 and			
	1	-			-										accumulating the data as more annual data get entered.			WUAs receive guidance and support
A	-	В	N	ı	V										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).			from the irrigation agency Support Units
_	В														Note: this data is entered once at the beginning (when data entry for the first year takes place)			
	\vdash	. В	N	י ו	٧													
															Cumulative Number of Training Days Actually carried out for the staff of the Support Units up to a Reference Year (RY) (Area Cumulative SU (RY)). This variable is introduced in case the			
	В	В	R	l N	IR										country starts using the M&E system application after the start of the PIM/IMT. Generally, the reference year could be either (1) the year when PIM/IMT started, whereby the cumulative number of this variable up to that date would be zero, or (2) the year before which the data start to get entered. In the latter case, the cumulative figures for this variable should be			
A		В	R	N	IR										imputed up to the year preceding that for which data starts to get entered.		Staff of the Support Units are	
A	\vdash	-	N .	IN.	ı.\										Example on 1: Assuming that the PIM/IMT process started in early 2014 and data for this variable starts to get collected and entered early 2015, then the reference year is early 2014 (the		adequately trained and supported in	
_	- 1				ш.	BR			NR	- I	N 88		B03041R	NATDCumulative	time when PIM/IMT started) for which no figures for this variable have been yet accumulated. Example on 2: If PIM/IMT started early 2005, and the M&E system starts getting populated with data only in 2009 and onwards, then the reference year would be 2008 for which the			
	B	В	U	N	IR 📗 '	BR			I NK		N OC	°°	B03041K	SU (RY)	complete on 2: in rining into started early 2000, and one was system starts getting populated with data only in 2002 and onwards, then the reference year would be 2000 on the winter of the system of			
					- 1										accumulating the data as more annual data get entered.			
Α		B	N	N	R										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).			
A	1			IN											Note: this data is entered once at the beginning (when data entry for the first year takes place)			
	B	B	R		ır 📗													
	"	В	^	N	" III ,	B U			NR		A 1	12	N03042	NATD	Actual Cumulative number of Training Days provided up to last year for the staff of the Support Units to enhance their capacities in the implementation of PIM/IMT program.			
A		_	R			В			NK		A 1	12	N03042	Cumulative SU	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)			
		В	K	N	IR _										Cumulative Number of Training Days provided during the implementation period of PIM/IM per Support Unit employee fully dedicated to provide support to the PIM/IMT program.			
<u> </u>	В					BU			NR	C	A 99	99	N03040	TDRSU	Note: This indicator is evaluated only at the end of PIM/IMT program (i.e.) if the expected completion date = last year and if no postponmet to the propram has been made. In the latter	Training Days Ratio per Support Unit employee.		
A	-	В	U	N	IR .										the revised year of completion should be compared with last year, and accordingly the indicator appears for evaluation	employee.		
	B																	
Α	"					B N			NR	11	N 99	99	B03051N		Total Technical Assistance provided during the implementation period of PIM/IMT to enhance the capacities of the government staff at the support unit. This variable is the addition of the number of months performed by each Technical assistant involved during the implementation of PIM/IMT)			
	В	В	N	, i	V .										nominal or months personned by each resiminal assistant money ouring the imprementation of ring/inn)			
	_ B	. T																
Α	В	R	N I			R	N	s	NR		N 99	99	B03051R		Total Technical Assistance provided during the implementation period of PIM/IMT to enhance the capacities of the government staff at the support unit. This variable is the addition of the			
	\vdash	В	N	, I	۱ ا		1.	1							number of months performed by each Technical assistant involved during the implementation of PIM/IMT)			
	В																	
									II				l	Technical	Technical Assistance ratio per support unit employee	Technical Assistance Ratio per Support		
		В	N		v '	BU			NR	C	A 99	99	N03050	Assistance RSU	Note: This indicator is evaluated only at the end of PIM/IMT program (i.e.) if the expected completion date = last year and if no postponmet to the propram has been made. In the latter the revised year of completion should be compared with last year, and accordingly the indicator appears for evaluation	Unit employee.		
		_													para with racyany and accounting the indicator appears or available.			
						_	_	-	_				_		l e e e e e e e e e e e e e e e e e e e	1		

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 income subject to the subject to

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

														IN		C03021	PWA	everage must be calculated.					_
									с					IN	_	C03022	TWS OpenCenal	Total amount of water received by the WUA at the main intake(s) and distributed during last year through open certal network (expressed in m3). This is this case for the open certal network.					
									c	ı.				IN	12	C03023	TWS Pressurised System	Total amount of water received by the WUA at the main intake(s) and distributed during last year through pressurised system expressed in m3. This is this case for the pressurised pipe system.	s equal to the total water supplied in				
											NR S			IN 8		C03024	MA	Maximum irrigistic area in the maximum area that can be irrigated within the WUA irrigation octome if there no limitation of supply. It is calculated by all forms inside the equipped area. This is a characteristic of the irrigation system and does not change with time unless there is an important rehability.	summing the net irrigable area of				
										L N	NH S		К	IN S	88	C09024	MIX	all farms inside the equipped area. This is a characteristic of the impation system and does not change with time unless there is an important render impation system.	teation or improvement of the				
																				BUANCES COM			m-Manus
									c	U				CA	12	P03025	TWS	Total amount of water received by the WVA at the main-intake(s) and distributed during last year to both open canals and/or pressurised systems (as	applicable) and expressed in m3	STREET STREET, STREET			
										_		Ш											
										- 1										BULL STREET, STREET,			
									c	U				CA	12	P03026	AWAL	Total amount of water received by the WUA at the main intake(s) and distributed during last year to both open censis and/or pressurised systems (as per unit irrigative area (ha).	applicable) and expressed in m3	Description of the last			
										- 11								F 1000 1000		ACCRECATE NAME			
										\neg	\top				100			Reliability of water sileacation. This indicator, expressed in pecentage, reflects the accuracy of the planned abacation with respect to the accusal and	vot of cateronesis address the				
									c	UN	NR A		R	CA	12	P03020	RWA	main sources.		Relaibiliy of water	rafaccation		
										-11					-			Maximum submer of vasior than the application and elevation in north appreciation in 2016. This is the maximum submer that it enters into the 600A imaginal case, low-selfs, pumperform measure, and it is a function of 1) the maximum flow in little (second) that enters each interes before the case) of the great interes and interest in the self-shaded or image with measurement of the self-shaded or image. (If the united of the primarious self-shaded or image with measurement of the self-shaded or image with measurement of the self-shaded or interest and interest in the self-shaded or interest and interest in the self-shaded or interest and interest in the self-shaded or intere	n zystem at all intakes (main pipe or				
										- 11								rehabilitated or improved), (2) the number of operation hours per day during 30 working days, and (3) the maximum impatre area.	rentre imgation system is	Maximum volume	of water that the		
									c	U				IN	36	P03030	TMVMonth	This indicator can be calculated for each intake as follows: Max flow that enters into the WUH irrigation system at intake 1 [Liters,/Second] *3600 second per hour * number of hours the system at intake 1 is ope	erated during the day * number of	Maximum volume system can delive expressed in m3/h	r in a month		
										- 11								pays in a mores (avidage). The above is calculated for each incase and summed up for all incases, then the sum is divided by the maximum insigable area.					
									с		-	\vdash		IN	12	C03041	AVWMoreh	Note: The theoretical number of hours is 24, but rarely imigation systems work for 24 hours since the pumping unit needs time for periodical checking. Total volume of water received at the main intrake(s) during the peak mornh of demand of last year expressed in mil.	and cooling down.			Irrigation system operates clo	lose to the
												П			75 1	-				COLUMN TO STATE OF STREET	CONTRACTOR OF THE	reasimum capacity	
									c	U				CA	12	P03042	AVWMorth-ha	Total volume of water received at the main intake(s) during the peak month of demand of last year expressed in m3/he of imigable area		demand of the Land	e expressed to the bar		
										-	_				-					Street or other	-		
									c	0 1	R A		R	CA	12	P03040	185	Delivery design performance ratio expressed in percentage. This relates the amount of water actually received at the main intakes during the peak more assumed values of water that the system can deliver in a month (in m3 per intigable hectares in both cases)	orith of demand of last year with the	Delivery Design Fe	erformace flatio		
									c	1				IN	12	C03051	TRISOperCanals	Total farm Irrigation augply under open cenals a Total annual volume of irrigation water delivered to all farm gates served by open cenals during the Ir	est year:				-
										i.					12	C03052	TRISFressurised vitem	Test from ingelion supply under open centals if fold innual volume of ingelion water delivered to all firm gates served by open cental outing the life Tace them integration supply under presist rised pries. •Tical annual volume of programs water delivered to all farm gates served by presisting pipes outside(s).	during the last year (volume				
									c					CA		P03053	TFE	Total form Irrigation supply of total annual volume of irrigation water delivered to all farm gates; served by open canals and pressurised pipes during to	he last year	Personal Property lies	er numb		
										-	NR A		R		12	P03050	WDEOpenCanal	Water delivery efficiency expresses the performance of the irrigation network to convey and deliver water from the water source to the farm gates (or		Water delivery affi	tiency of Open Canals	(migation system operates eff	ficiently
									c	0 1	A have		R	LA	LE CONTRACTOR DE LA CON	P03050	multipencaria!	acors values refer to open canals system.		network			
										77 =							WDEFressurises	Water delivery efficiency expresses the performance of the irrigation national to convey and deliver water from the water source to the farm sales (so.	rtlets) with minimum leases. The	Water deliver affi	sency of Pressurity of		
									100	200	NR A		R	CA	12	P03060	WDEFressurised System	Water delivery efficiency expresses the performence of the irrigation receivers to convey and deliver water from the water source to the farm gates (our access values refer to the pressurized irrigation system.		Pipes retwork	sancy of Pressurised		
									c	LN	NR S		R	IN	12	C03071	JA.	trrigated area during last year. It refers to the total number of hectares that received water at least once during last year.					
														CA		P03072	TFRS-IA ECWR	Water consumption per migrated area. It is the result of dividing the total farm imigation supply by the imigated area of lost year. Estimated annual crop water requirements in the area or region where the WUA is located expressed in m3 /hs. This is the average amount of water.	per hanthat is considered sufficent to	Water consumption	on per irrigated area		
									c	L	R S		R	IN I	88	C03073	BEWR.	gree the common crops in the area of the WUA.		Scarcity ratio with		Crop water requirements are reasonably satisfied	
	1						"		c	UN	NR A		R	CA	12	P03070	6WS	Fercentage of the water consumption per imagated area with respect to the estimated crop water requirements in the area or region of the WVA, it regard to accepted regional crop water requirements. This is a simplification of the theoretical indicator called fieldals water supply	spreaents the level of scarcity with	crop water require	ements. It is a		
า	d	1/	7	a t	-	or	c"		-	L				IN	2	C03081	TACR	Total number of hectares that were cropped and irrigated fast year. If an hectare has been cropped 2 or 3 times a year it counts as 2 or 3 ha		relative water sug	1614.		_
Ш	u	щ	-(αų	Ų	JI	٥															Intensive use of land	
									С	UN	NR A		R	CA	12	P03080		Cropping intensity. This indicator provides a good indication of how intensively the land is cultivated in a given year.		Cropping intresit	y .		
C.1 C		-	-	-	+	IL 36		C01010	С	L N	NR S			IN		C03091	AGC	Maximum irrigable areathet to served with open carells		0			
		_	_			IL 36		C01010	C C	UN	NR A		R	CA IN	12	P03091 C03101	MADC AP	Fercentage of the sotal maintrum imigable area that is served with open canals Maximum imigable area that is served with closed pipes.					
		NR	C																				
С	L	NR	С			-			C	UN	NR A		R	CA	12	P03101	1649	Percentage of the total maximum impable area that is served with close pipes					
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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
~	₹7	•	•	•	•	₹7	\7	•	•	▼
A	N			N		IL	12		A01010	
Α	N			NR		н	36		A02010N	
	R	N	С	NR		F	36		A02010R	
A	N			NR		IQ	12		A02020N	
	R	N	С	NR		Ŋ	12		A02020R	
A	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
	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:

<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

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

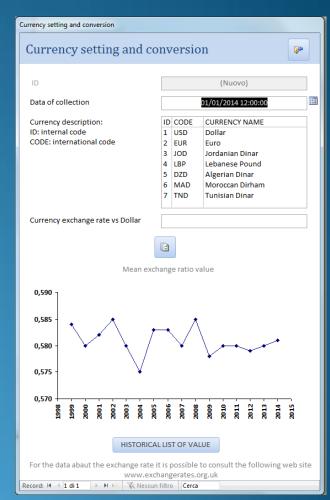
Is the complete description of the indicator or variable

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

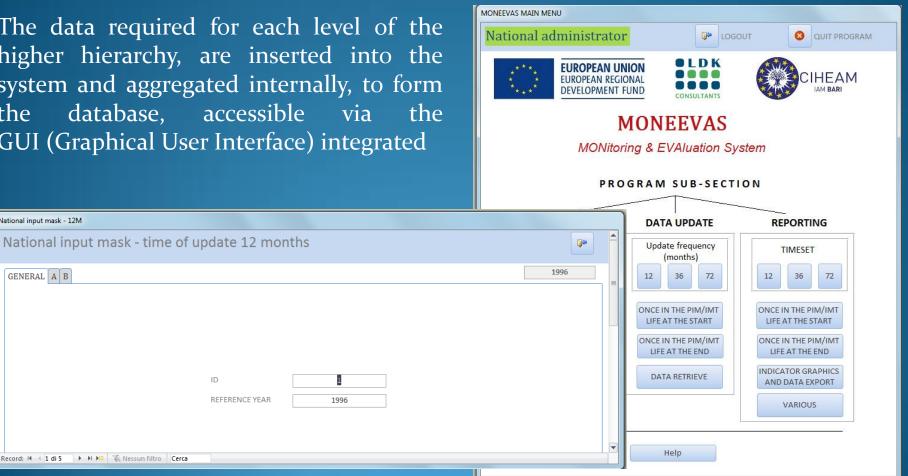


Data Request per level, and Data aggregation and Applicability concepts

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

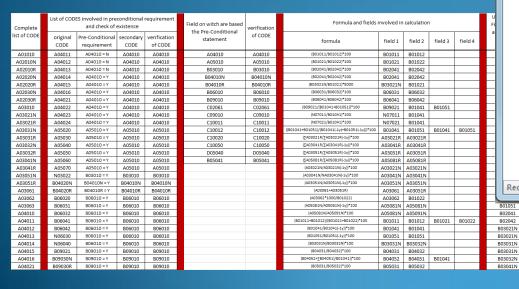
National input mask - 12M

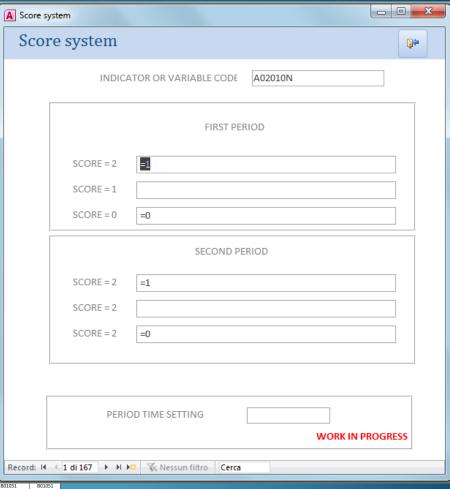
GENERAL A B



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





B02041

B02042

B03021N

B03021N

B03031N

B03032N

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.



