ALTOS: Managing water resources within Mediterranean agrosystems by accounting for spatial structures and connectivities.

Frederic Jacob













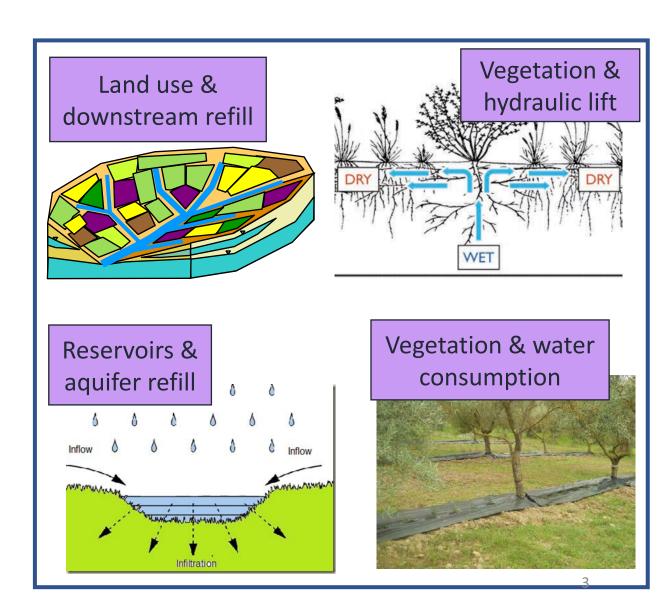
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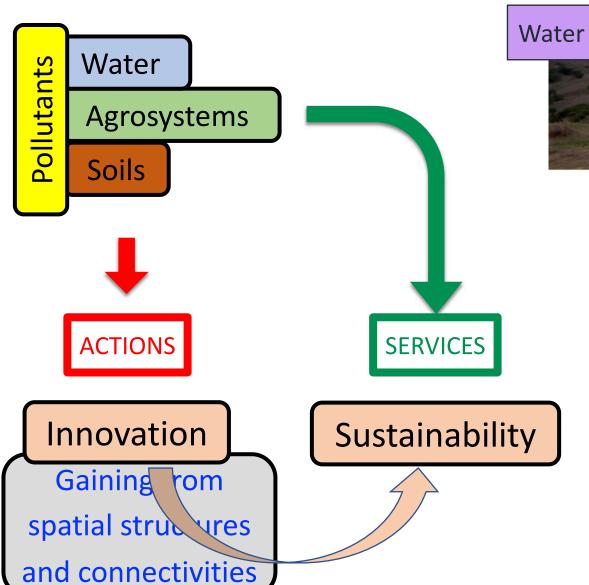
- Science
 - Societal challenges, overall and specific objectives
 - Methodological challenges
 - Study areas and available assets
 - Activity structuration (WPs overview and connections)
- Outcomes and impacts
 - Results dissemination and exploitation
 - Deliverables & Milestones
- Governance

ALTOS: innovation in water resource management

Water **Pollutants** Agrosystems Soils **ACTIONS Innovation** Gaining from spatial structures and connectivities



ALTOS: sustainability



Water harvesting for drinking & irrigation



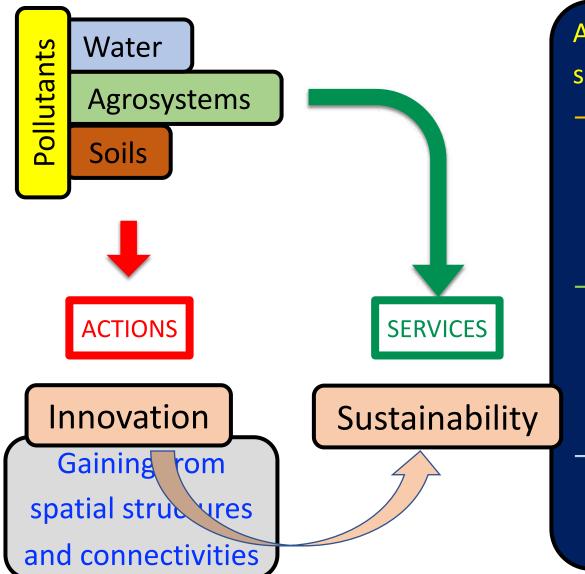
Enhancing crop production



Minimising contaminations



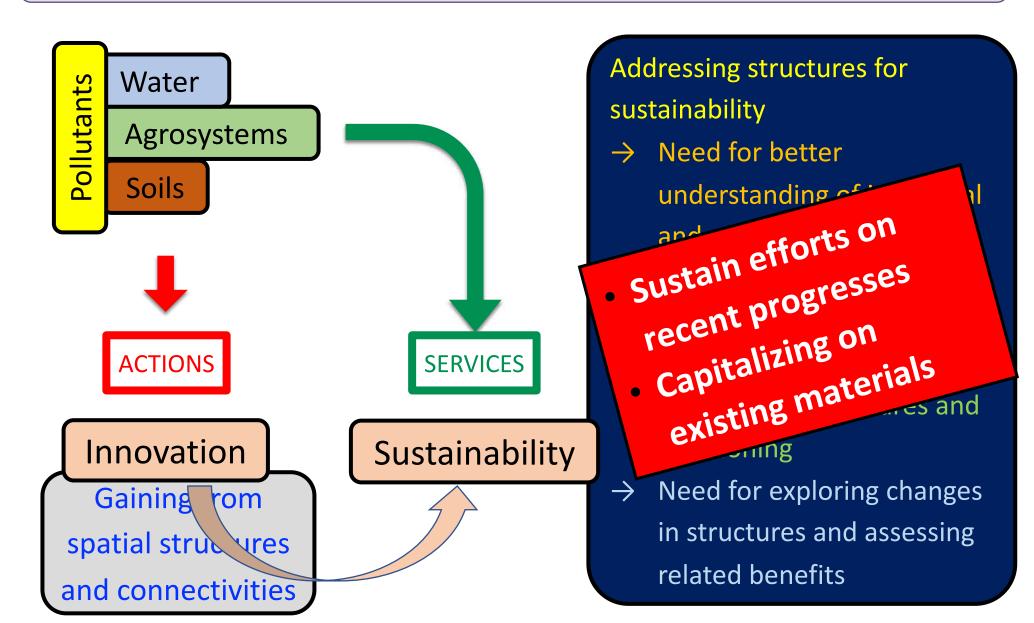
ALTOS: spatial structures & connectivities



Addressing structures for sustainability

- → Need for better understanding of individual and collective processes within spatial organisations
- → Need for new observation and modelling tools to characterize structures and functioning
- → Need for exploring changes in structures and assessing related benefits

ALTOS: spatial structures & connectivities

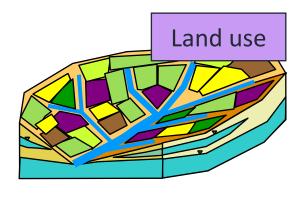


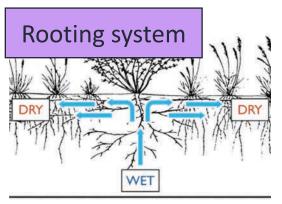
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ALTOS: structures and scales

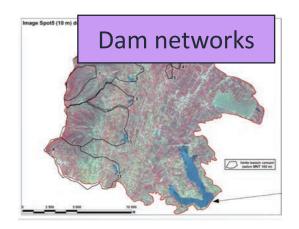






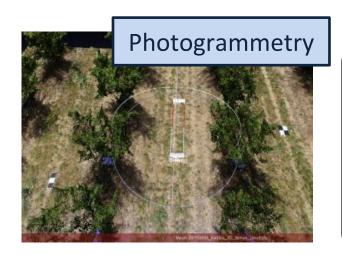




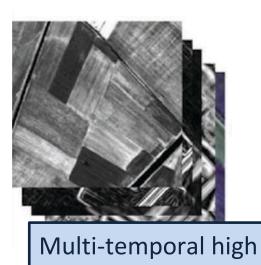


SPATIAL SCALES

Methodological challenges in (1/6) monitoring structures



- Measurement quality
- Time series consistency
- Information extraction
- Product accuracy

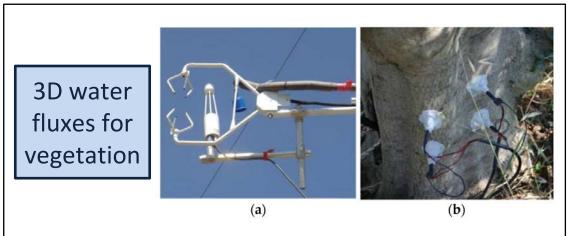


resolution imagery

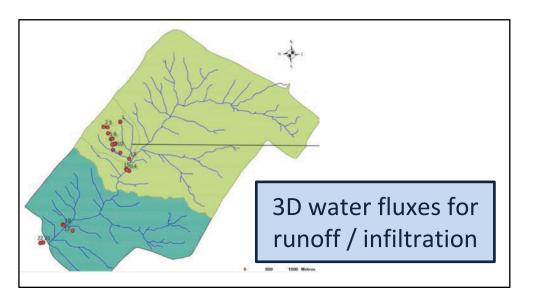
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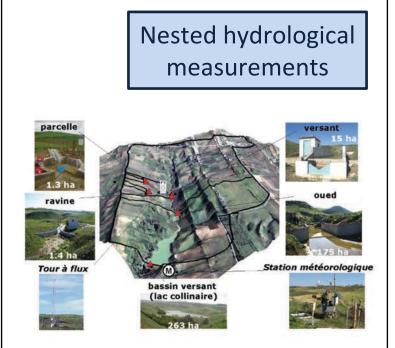
Digital representation

Methodological challenges in (2/6) monitoring fluxes

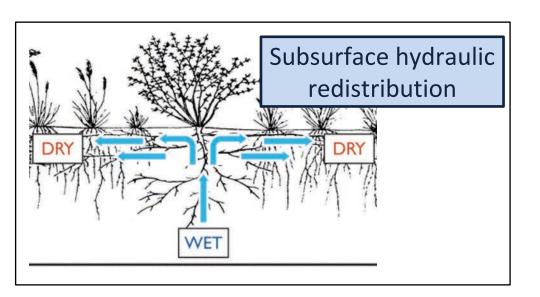


- Characterising 3D fluxes
- Component partitioning (e.g., ETR=T+E)

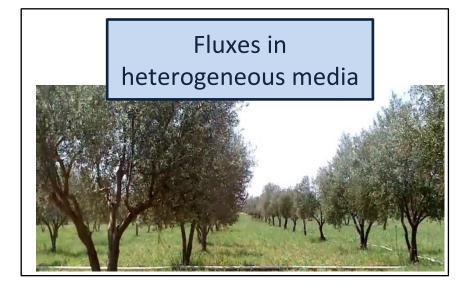




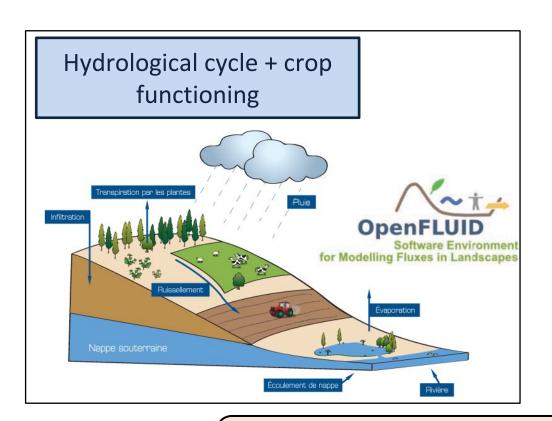
Methodological challenges in (3/6) modelling fluxes



- Modelling 3D fluxes
- Setting equivalent parameterizations
 for 3D heterogeneous structures



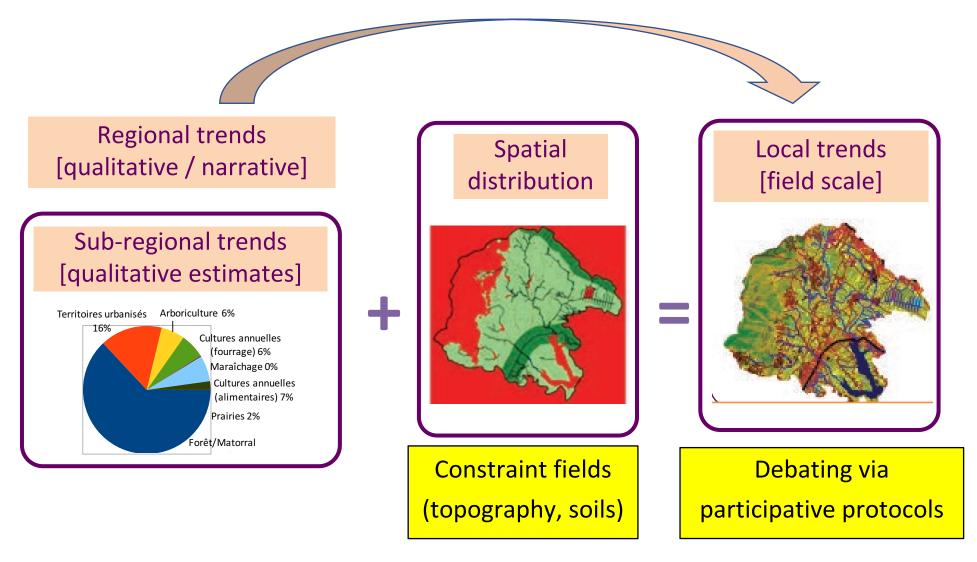
Methodological challenges in (4/6) integrated modelling



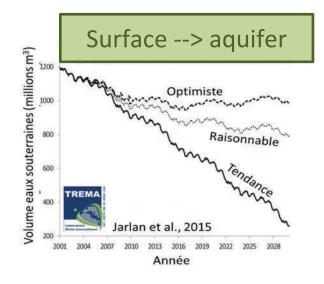
- Coupling 3D fluxes
- Consistent descriptions of compartments and processes

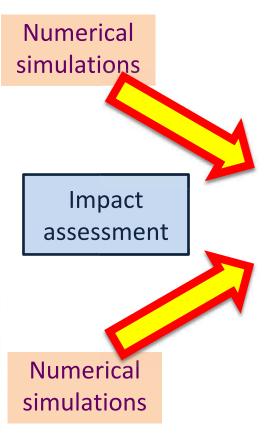


Methodological challenges (5/6) in scenarios setting



Methodological challenges in (6/6) scenario assessment









Upstream --> downstream

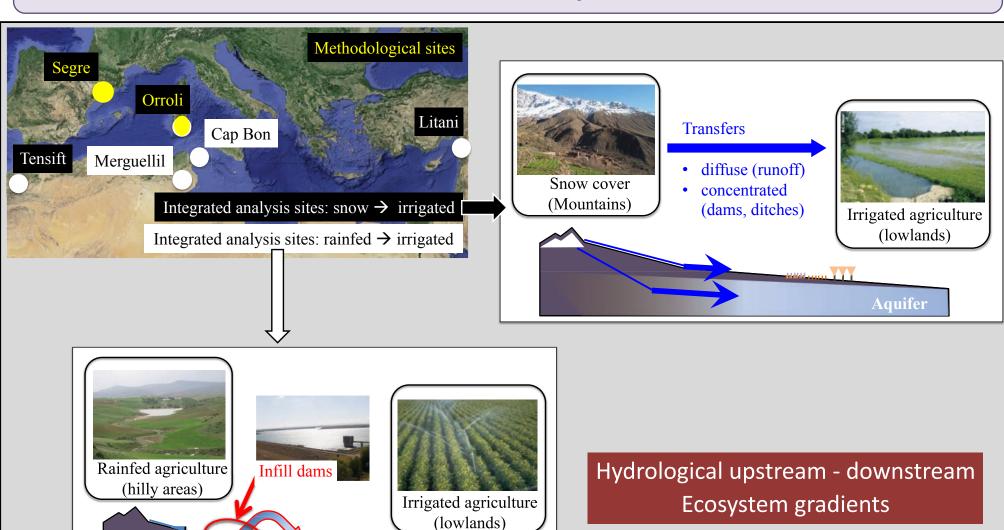
Participative protocols

Antagonist requirements

Science

- Societal challenges, overall and specific objectives
- Methodological challenges
- Study areas and available assets
- Activity structuration (WPs overview and connections)
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 - Results dissemination and exploitation
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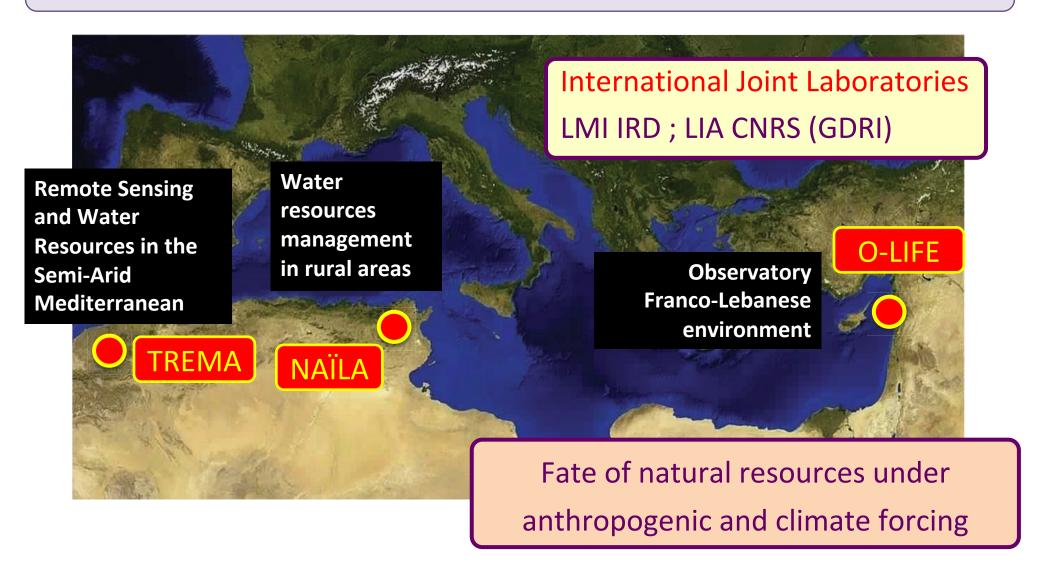
ALTOS: 6 study sites



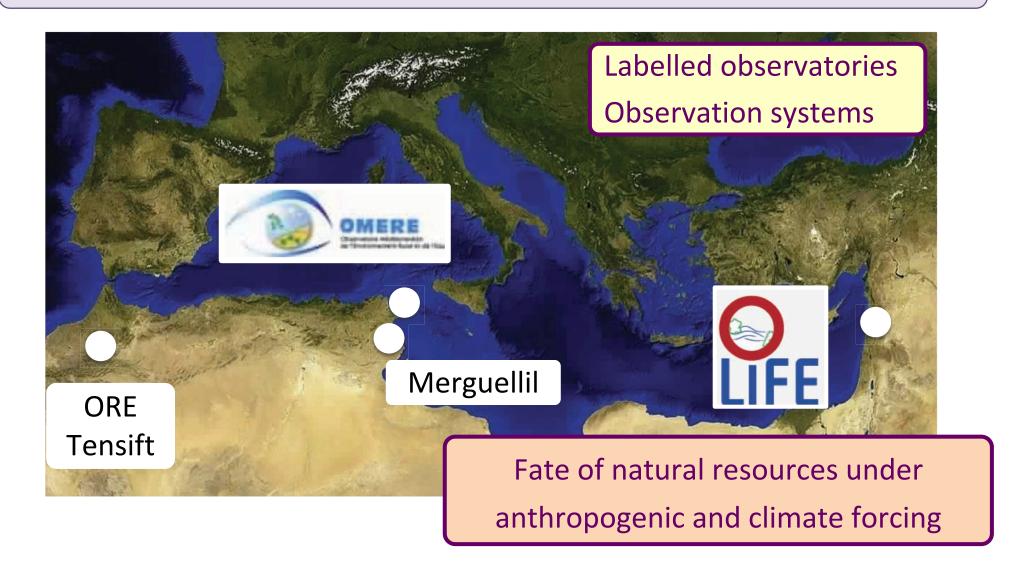
Transfers

Ecosystem gradients

ALTOS: assets / international joint laboratories



ALTOS: environmental observatories



ALTOS: previous projects

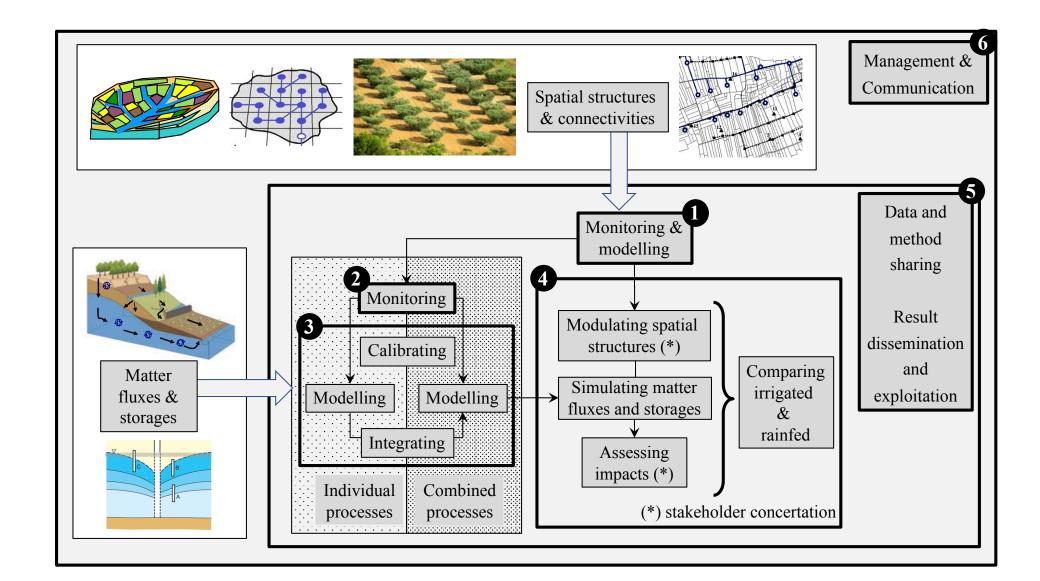
MISTRALS SICMED (M, T)		P	Monitoring and modelling tools for structures and functioning.				
ANR DIGISOL-HYMED (T)		P	Remote sensing methods for mapping soil properties.				
EU RISE REC (M, F)	MTC	P	Multi-sensor methods for monitoring soil moisture.				
ANR AMETHYST (M + T, 2014 - 2018)	MIC	P	Integrated analysis: coevolutions of water uses and resources.				
FP7-AFRICA-2010 EAU4Food (M + T, 2011-2015).			Participative seminars about practices for increasing irrigated farming food production.				
ANR ALMIRA (M + T, 2014 - 2018)		С	Integrated analysis: impacts of land use changes on yield & hydro-erosive fluxes.				
ARIMNet 2 VIANA (T + L, 2018 - 2020)		С	Land use related to adoption of agroecological solutions for small irrigated farming.				
ERANET-MED CHAAMS (T + M + L, 2019 - 2021)		С	Past & current trends on land use & water governance. Process model calibration.				
SAGESSE (M, 2016-2019)		С	Design of decision support systems for water resource management.				
Irrig-Bekaa (L, 2016-2019)		С	Methods for quantifying water use by irrigated crops.				
CNES / THEIA Sentinel-2 (T, 2016 - 2020)		С	Availability of Sentinel-2 data over Tunisia once pre-processed by French Space Agency.				
MISTRALS HighLandDEM (T, 2017 - 2018)		С	Methodologies for producing high spatial resolution DEM.				
H2020 VISCA (S, 2017- 2019)		С	Modelling vineyards phenological trend under climate change.				

Datasets
Ongoing Experiments
Processing methods
Models
Integrated analysis

Science

- Societal challenges, overall and specific objectives
- Methodological challenges
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ALTOS: activity structuration



- Science
 - Societal challenges, overall and specific objectives
 - Methodological challenges
 - Study areas and available assets
 - Activity structuration (WPs overview and connections)
- Outcomes and impacts
 - Result dissemination and exploitation
 - Deliverables & Milestones
- Governance

ALTOS: Result dissemination and exploitation

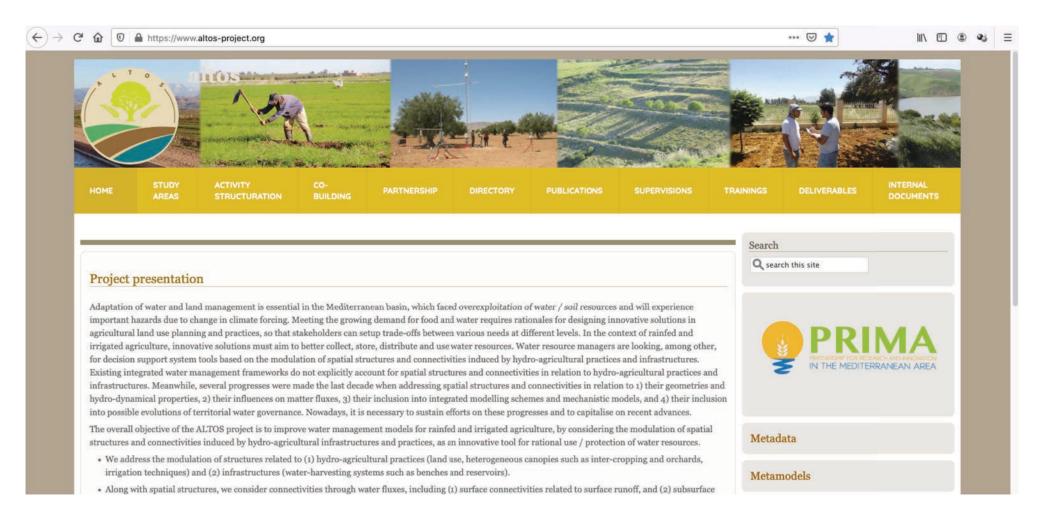
Table 2.3 (to be continued). Panel of specific actions to be conducted for transferring ALTOS outcomes towards targeted stakeholders.

Targeted audience→	National direc- torates (link with ministries)	Regional directorates (link with gover- norates and farmers)	Farmer / water user associations.	Engineering of-	Academics	NGOs and think tanks	National and international organisations
Monitoring prot cols (WP1 & WP2)	 Databases and technical reports about infrastructures (reservoir geometries, soil maps); fluxes and storages (aquifer levels, reservoir filling, chemical contents). Trainings on monitoring systems setup with observatories. 				 Publications. Online databases / user 		Databases for count reports on climate change
Data processing algorithms (WP & WP2)	• Trainings.			• Trainings. • User manu-	manuals & GITHUB plat- forms. • Advanced train-		
Open source mo	 User manuals. GITHUB platforms. Support to get started. 			als. • GITHUB	ings.		
Simulation tools (WP3)				platforms.			

Knowledge management strategy

Data management plan

ALTOS: Result dissemination and exploitation



- Science
 - Societal challenges, overall and specific objectives
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ALTOS KOM: deliverables and milestones

Deliverables & milestones

- Knowledge (KMS, DMP)
- Reports
- Meetings
- Datasets
- Modeling schemes
- Scenarios
- Publications
- Participative seminars
- Training materials
- Policy briefs

Month Item Topic WP Lead Remarks D5.1-2 Modelling workshops (1/3) S CNRS-L (15) MS6.1 Kick-off meeting [Progress/closure meeting]? 6 MB KOM minutes (3) MS6.2 Monitoring board meetings (1/7) 6 MB Meeting minutes (3) MS6.2 Monitoring board meetings (1/7) 6 MB Meeting minutes (4) D6.2.1 Communication plan 6 LISAH R / CO (4) D6.2.2 Project web site 6 LISAH DEC / PU (4) MS5.1 Mobility plan 5 LISAH Validated by the MI (6) MS6.2 Monitoring board meetings (2/7) 6 MB Meeting minutes (6) MS6.2 Monitoring board meetings (2/7) 6 MB Meeting minutes (6) D5.2.1 Knowledge management strategy including a data management plan to be updated (1/3) S CNRS-L (16) D5.2.1 Metadata and metamodels (1/3) S CNRS-L (17) D1.1.1 Dataset from Task 1.1 1 IRTA OTHER / CO (15) D2.1.1 Dataset from Task 1.2 1 LARR LISAH OTHER / CO (15) D2.1.1 Dataset from Task 2.1 2 CERTE OTHER / CO (15) D3.1.1 Modeling progresses 3 UNICA R / CO (15) D3.1.1 Modeling progresses 3 UNICA R / CO (16) D5.2.1 Knowledge management strategy including a data 5 INRGREF R / CO (15) D3.1.1 Knowledge management strategy including a data 5 INRGREF R / CO (16) D5.2.1 Knowledge management strategy including a data 5 INRGREF R / CO (17) D3.1.1 Modeling progresses 3 UNICA R / CO (18) D5.1.2 Knowledge management strategy including a data 5 INRGREF R / CO (18) D5.1.2 Knowledge management strategy including a data 5 INRGREF R / CO (18) D5.1.1 Mid-term report 6 LISAH R / CO			tist of deliverables and cilestance are	\\/D1	+- \A/DC		
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18 D5.2.1 Knowledge management strategy including a data 5 INRGREF R / CO management plan to be updated (2/3) 18 D6.1.1 Mid-term report 6 LISAH R / CO	18	D5.1.1	Metadata and metamodels (2/3)		CNRS-L	DEC / PU	
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18 D6.1.1 Mid-term report 6 LISAH R / CO	18	D5.2.1	Knowledge management strategy including a data	5	INRGREF	R / CO	
			management plan to be updated (2/3)				
18 MS6.2 Monitoring board meetings (4/7) 6 MB Meeting minutes	18	D6.1.1	Mid-term report	6	LISAH	R / CO	
	18	MS6.2	Monitoring board meetings (4/7)	6	MB	Meeting minutes	
18 MS1 Database update 1 MB Data available	18	MS1	Database update	1	MB	Data available and	
validated by the ME						validated by the MB.	
18 MS2 Database update 2 MB Data available	18	MS2	Database update	2	MB	Data available and	
validated by the ME						validated by the MB.	
18 MS5.3 Materials for training sessions (1/2) 5 MB Material reposit	18	MS5.3	Materials for training sessions (1/2)	5	MB	Material repository	
available for trainer						available for trainers	

- Science
 - Societal challenges, overall and specific objectives
 - Methodological challenges
 - Study areas and available assets
 - Activity structuration (WPs overview and connections)
- Outcomes and impacts
 - Results dissemination and exploitation
 - Deliverables & Milestones
- Governance

ALTOS: governance

 MT (leader + PM): monitoring work progress with regard to deliverable and milestone calendar, interacting with PRIMA office about ALTOS progresses and difficulties.

 MB (MT + partner representatives + task leaders): monitoring strategic steering, make arbitrations and final decisions if necessary.