



ALTOS

Managing Water Resources within Mediterranean Agrosystems
by Accounting for Spatial Structures and Connectivities

Task 5.2: Dissemination and exploitation of project results **(leader: INRGREF, all partners are involved)**

ALTOS Kick off meeting

On-line meeting, May, 25-26, 2021



Task 5.2: Dissemination and exploitation of project results

This task relies on:

- 1/ the **knowledge management strategy**
- 2/ the **data management plan**.

This strategy is planned to be available at *Month 6* and updated at *Month 18* and *36*.



Knowledge management strategy

The knowledge management strategy is a support to decision-making about the use of the foreground generated:

- 1/ **identification of the results** that can be **disseminated** by means of publication, conferences, workshops and technology transfers;
- 2/ **identification of the results** that should be **protected** (by copyright) and by whom they should be protected (partners reach agreement in the event of joint ownership).



Management strategy actions

The knowledge management strategy includes the following actions for the dissemination and exploitation of results:

- **Online availability of data for resource management**
- **Providing data processing methods and modelling tools for training session**
- **Providing of technical reports**
- **Providing of policy brief**



Management strategy actions: Online available data

Online availability of data for resource management :

Obtained from spatiotemporal aggregation of research data produced by TK1.1, TK1.2, TK2.1 & TK 2.2 for the benefit of national and regional directorates (DG-ACTA-CES & Sol, DGRE, CRDA, ABHT).

[ALTOS website](#)



Management strategy actions: Training session

- **Providing data processing methods and modelling tools for training session:**
 - Data processing methods produced by TK1.1, TK1.2, TK2.1, TK2.2.
 - Training sessions are organised by NAILA and TREMA international laboratories for the benefit of engineering offices and national directorates
 - Modelling tools from TK 3.1.
 - Training sessions are organised by GMES - North Africa project for the benefit of engineering offices, regional managers and national directorates .
 - Integrated modelling tools from TK3.2.
 - Training sessions are organised by the OpenFLUID user committee for the benefit of engineering offices (CEREG, ENVILYS) ;
- **Providing User manuals and GITHUB platforms**

? How organizing these trainings under COVID situation?



Management strategy actions : Technical reports

- **Providing of technical reports** on management methods for the benefit of managers, on the basis of the conclusions of the participative seminars (TK 4.2), to be disseminated among NGOs and think-tanks.



Management strategy actions : Policy brief

- **Providing of policy brief**

Policy briefs on catchment management from participative seminars.

National and regional directorates; NGOs and think tanks

on vulnerabilities and adaptabilities of irrigated and rainfed systems (TK 3.3), to be disseminated among development organisations. National and international organisations



Management strategy actions : conducting

The conducting of the aforementioned specific actions relies on a framework that defines :

- (1) the ownership and access to ALTOS knowledge
- (2) the production, storage and delivery of data and codes,
- (3) the dissemination of results by means of various communication channels toward academic and professional spheres.

- **A consortium agreement** is set up for regulating the ownership and access to key knowledge (IPR, data, etc.) and scientific foreground. The consortium agreement, as far as IPR are concerned, helps to identify which knowledge is brought by each partner, and under which conditions access rights may be granted, together with a number of knowledge management procedures and exploitation rules.
- **A data management plan**
is planned to be available at *Month 6* and updated at *Month 18* and *36*.



Knowledge management strategy: deliverable

ALTOS Deliverable number: 5.2.1

Version: 1.0

Date: 15 July 2020

Frederic Jacob, IRD / UMR LISAH Montpellier, France

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Data management Plan



Data Management Plan

This plan addresses:

- (1) How research data are **handled** during ALTOS and beyond (collection, generation, processed, presentation, dissemination, protection and archiving)
- (2) How research data are **shared and/or made open**
- (3) How they are **curated and preserved**.



Data Management Plan: data storage

- For data storage, a cluster-based infrastructure includes
 - The ALTOS website providing a listing of metadata with the corresponding URLs towards
 - websites of existing infrastructures (observatories, international programs such as THEIA) for downloading data. In case the existing infrastructures cannot host ALTOS data and model, we use the ALTOS project website with logins / passwords (<https://www.altos-project.org/>).



Data Management Plan

For data dissemination, including quality check, nomenclature and accessibility:

The ALTOS project relies on data policies currently applied within :

observatories, in compliance with international data policy (e.g., EU eLTER).

- **Standard ALTOS data** about fluxes and storage at the daily times scale are straight available;
- **Research data**, either collected or simulated, experience a 2-3-years embargo to secure the publication of research results for students and young researchers.



Data management reports during the project

Initial DMP is under validation

Data Management Plan

ALTOS Deliverable number: 5.2.1

Version 1.0

Date: 15 July 2020

MID-TERM REVIEW DMP UNDER PROGRESS

FINAL REVIEW DMP



Responsibilities

Within ALTOS, data management is an issue for **all Project PI** (partner representatives).

Development of the DMP is an interactive effort initiated by the project coordinator and executed by the coordination team, in relation with the WP5 Task managers.



MID-TERM REVIEW DMP AND FINAL REVIEW DMP

Scientific research data should be easily:

1. DISCOVERABLE

2. ACCESSIBLE

3. ASSESSABLE AND INTELLIGIBLE

4. USABLE BEYOND THE ORIGINAL PURPOSE FOR WHICH IT WAS COLLECTED

5. INTEROPERABLE TO SPECIFIC QUALITY STANDARDS



Data Management Plan - data inventory

Google sheet shared file was created and shared with the PI and WP leaders

WP	Task	Site	Name of the dataset (or short description)	observation/simulation/survey	Partners	Contact person	Data status ? (relative to ALTOS project)	Details on the data status (if needed)	Are these long-term data ?	Put "OK" in this column when the line is completed
WP1	Task 1.1	Tensift (MA)	Tree geometry : density, height and roughness, crown size, row spacing / direction, profiles of fraction cover and leaf area index, remote sensing data	observation	UCAM, CESBIO, IRTA					
WP1	Task 1.1	Merguelil (TN)	Tree geometry : density, height and roughness, crown size, row spacing / direction, profiles of fraction cover and leaf area index, remote sensing data	observation	CESBIO		other (explain in next column)	missing data, needs some help (LiDAR ?)	YES	
WP1	Task 1.1	Segre (SP)	Tree geometry : density, height and roughness, crown size, row spacing / direction, profiles of fraction cover and leaf area index, remote sensing data	observation	UCAM, CESBIO, IRTA		existing before the ALTOS project		YES	ok
			3D description aquifer structure : geo-electrical							

	this dataset can be made available ON SHORT TERM...	Once the ALTOS project finished, this dataset can be made available...	Need for protection (free distribution, embargo...)	How will the data be made accessible -Bilateral agreement ? -Open acces ? -Embargo (length) ? -Other ?	file format	storage medium	estimated volume
			other (fill next column)				
	... to all ALTOS partners	... to external users	other (fill next column)		excel sheets	online access for measurements recorded on dataloggers, database on harddisks for the others	Terabytes
data from satellite RS - big datasets LAI, FAPAR and fraction cover Field measurements (hemispherical photography, lai-2200, AccuPar, canopy volume, height ...)	... to all ALTOS partners	... to external users	other (fill next column)	sharing via contact information shared on the ALTOS website		disk drives	Terabytes



Data Management Plan - data inventory progress

Google sheet shared file with the PI and WP leaders

2 meetings were organized with WP1 and WP2 in order to explain and facilitate the filling of the sheet

24/63 (WP1-WP2-WP3-WP4)

24/53 (WP1-WP2-WP3)

20/41 (WP1-WP2)

D5.2.1 [Task 5.2]: knowledge management strategy along with data management plan in the form of report @ Month 6, 18, 36.

- D5.2.2 [Task 5.2]: technical reports for managers, based on the conclusions of the participative seminar (TK 4.2, 1 per study site) @ Month 33.
- D5.2.3 [Task 5.2]: policy brief on vulnerabilities and adaptabilities of irrigated and rainfed systems @ Month 35.