

## People

CESBIO	LISAH	IRTA	UNICA	UCA
LARI	CNRS-L	INRGREF	SUP'COM	CERTE

## Activity description at both scales of project and Task.

<ul style="list-style-type: none"> <li>• Project coordination             <ul style="list-style-type: none"> <li>○ Absence of Lebanese partners --&gt; <b>Concertation with Lebanese partners about on-going difficulties on their side and about possible solutions to overcome these difficulties.</b></li> <li>○ Delays in project activities, with strong differences across partners --&gt; <b>Concertation with PRIMA office about project extension</b></li> </ul> </li> </ul>
<ul style="list-style-type: none"> <li>• Remark about TK 1.1.             <ul style="list-style-type: none"> <li>○ Meeting with UNICA (Julio Vignoli) / CERTE (Fethi Lachaal) about activities on electromagnetic sounding --&gt; <b>to be conducted as soon as possible.</b></li> </ul> </li> </ul>
<ul style="list-style-type: none"> <li>• TK 3.2 / LISAH             <ul style="list-style-type: none"> <li>○ Update about works on integrated analysis with the coupling of crop modelling and hydrological modelling. Discussion about the choice of crop modelling: best solution seems to be AquaCrop rather SAFYE, since AquaCrop has been intensively investigated within the Mediterranean Basin over the last two decades.</li> </ul> </li> <li>• TK 3.2 / CESBIO and UCA             <ul style="list-style-type: none"> <li>○ Update about works on integrated analysis:                 <ul style="list-style-type: none"> <li>▪ Implementing SAMIR - WEAP - MODFLOW and SAFRAN-ISBA-MODCOU (RAPID) within the Tensift plain.</li> <li>▪ Quantifying contribution of mountain relief surface runoff to plain aquifer refill with GR4J.</li> </ul> </li> </ul> </li> <li>• TK3.2. UNICA             <ul style="list-style-type: none"> <li>○ <b>Meeting including UNICA and INAT about SWAT improvement with hydraulic lift --&gt; to be conducted as soon as possible.</b></li> <li>○ SWAT improved version to be implemented within Orroli Study areas (PhD program)?                 <ul style="list-style-type: none"> <li>▪ No problem from the viewpoint of project consistency, to be evaluated in terms of feasibility.</li> <li>▪ Warning: major change according to the proposal --&gt; to be verified with PRIMA office. <b>Prior concertation between project leader and UNICA representative --&gt; to be conducted as soon as possible.</b></li> </ul> </li> </ul> </li> <li>• TK3.2. INAT             <ul style="list-style-type: none"> <li>○ Calibration and sensitivity study with SWAT and SWAT-CUP --&gt; <b>objective to be clarified.</b></li> </ul> </li> </ul>

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<ul style="list-style-type: none"> <li>• TK4.1 LISAH / INRGREF <ul style="list-style-type: none"> <li>○ Update about the setting up of scenarios for hilly lake networks and land use. Not much progress at this stage, ongoing discussions about (1) different spatial configurations for a same regional land use constitution (different desegregation scenarios at the field scale), and (2) geometries and densities of hilly lake networks for a given spatial extension.</li> </ul> </li> <li>• TK4.1 INAT. <ul style="list-style-type: none"> <li>○ Soil Water Conservation scenarios, to be defined with stakeholders via participative protocols.</li> <li>○ PhD Ines Gharnouki --&gt; activities to be clarified.</li> </ul> </li> <li>• TK4.1 UCA. <ul style="list-style-type: none"> <li>○ Scenarios about change in water management: from flood irrigation to drip irrigation. Relying on ongoing and previous works --&gt; existing materials.</li> </ul> </li> </ul>
<ul style="list-style-type: none"> <li>• TK4.2 LISAH / INRGREF <ul style="list-style-type: none"> <li>○ Update about the overall framework for assessing the impact of land use and hilly lake network.</li> <li>○ Combination of AquaCrop / MHYDAS models, along with scenarios of land use and hilly lake network.</li> <li>○ Propositions about indicators for ranking scenarios: composite indicators at different spatial and temporal scales.</li> </ul> </li> <li>• TK 4.2 INRGREF <ul style="list-style-type: none"> <li>○ PhD Abdelghaffar: antagonism on ecosystem services and related SDGs. Land use scenarios to be analysed with SWAT in terms of agricultural production, downstream and aquifer water production, erosion mitigation.</li> </ul> </li> <li>• TK 4.2 CERTE <ul style="list-style-type: none"> <li>○ Proposition about works on impact of upstream land use on aquifer refill. <ul style="list-style-type: none"> <li>▪ To be discussed with INRGREF.</li> <li>▪ Warning: perhaps premature, to be considered once the current PhD on aquifer refill is finalized.</li> </ul> </li> <li>○ Involvement in Merguellil activities with benches (Soil Water Conservation scenarios).</li> </ul> </li> <li>• TK4.2. UCA <ul style="list-style-type: none"> <li>○ Assessing the impact of water management and land use on the fate of water resources. Means: SAMIR - WEAP – MODFLOW.</li> <li>○ Assessing the impact of climate change on aquifer refill by mountain snowmelt.</li> </ul> </li> <li>• INAT <ul style="list-style-type: none"> <li>○ Combination of (1) Soil Water Conservation scenarios and (2) improved SVAT model. Ranking of scenarios on the basis of acceptability by stakeholders.</li> <li>○ PhD Ines Gharnouki --&gt; activities to be clarified.</li> </ul> </li> </ul>
<ul style="list-style-type: none"> <li>• TK4.3 ALL <ul style="list-style-type: none"> <li>○ To be conducted in the following months: collective brainstorming on indicators for scenario ranking.</li> <li>○ Which indicator compositing? At which spatial and temporal scale?</li> </ul> </li> </ul>

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- TK5.1: discussion in absence of task leader (CNRS-L, Lebanon)
  - Metadata and Metamodels to be provided on the web site (e.g., IRTA and GitHub).
  - **1<sup>st</sup> modelling workshop to be launched as soon as possible by task leader.** Challenges about model implementation. 3 slots about 3 hours across 10 days. Possible inclusion of topic on land use modelling.
  - Mobility: ACCWA is about to be frozen for six months in a close future.
- TK5.2
  - Question about training session in the context of COVID-19 crisis.
  - **Data management plan --> Task leader is in charge to collect from project PIs (partner representatives) the following material: (1) identification of data that can be disseminated, (2) identification of data that cannot be disseminated, and (3) metadata.**
  - Training sessions towards stakeholders. Capitalize on land surface modelling for transfer action on modelling tools. Missing piece on this issue since nothing done for a long time. Several actions were organized recently for integrating models. The relevance of forthcoming activities has to be analysed.
  - Publication: special issue about ALTOS project.
- WP 6
  - Update on website that is currently operational, forthcoming actions on social medias and scientific medias.
  - Mobility plan to be finalized.
  - Communication plan to be finalized.
  - Budget to be monitored.
  - Revisit deliverables with google doc: deliverable content for each partner.
  - KOM to be launched at the beginning of 2021.