

## Scenario design / LISAH

**Objectives:** proposing exploratory for scenarios for lake network, and realistic scenarios for land use, for (possibly) crop rotation and for chemical treatment ; possibly crossing scenarios between lake network, land use and crop rotation.

**Method:** for **land use**, accounting for general trends to be locally declined in accordance to biophysical (topography, pedological substratum) and socioeconomical drivers (farm size and property); for **crop rotation**, modelling the combination of individual and collective rules; for **lake network**, accounting for hydrographical network.

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**Table 1.6: overview of scenario impacts along with the involved partners. WUE stands for water use efficiency.**

Site	Partners	Modelling schemes	Structures to be modulated						Services				
			Land use	Reservoirs	Benches	Irrigation	Pest management	Climate	Yield & WUE	Catchment outflow	Aquifer refill	Silting	Mitigating pollution
Cap Bon	INRGREF LISAH	MHYDAS & Crop model	X	X				X	X	X	X		
	INAT	SWAT	X				X	X	X	X	X	X	X

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## Means

- Available land use scenarios from ALMIRA : for each of the 3 scenarios with global composition --> one local constitution

## Partnership

- INRGREF, INAT

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## Roadmap

- Land use : for each of the three global compositions --> several local constitution --> feasibility?
- Crop rotation : to be defined
- Pollutant : from existing land use scenarios to pesticide practice scenarios
- Various mixes to be defined.

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## Difficulties

- Difficulty to brainstorm internally at LISAH because of the confinement and individual situation of many of the key colleagues in the project.
- Risk of rushing into action on the wrong track.
- If brainstorming with only a few people, risk of non-adherence/incomprehension of others about the choices made.
- Postponement of the brainstorm until the resumption of activities (May-June?).
- Means postponing the recruitment of the post doc until the beginning of the school year at best, probably in the autumn.