Reservoir geometries / LISAH

Objectives: using innovative method in photogrammetry and numerical vision for characterising lac bathymetry and volume range --> providing rationale for scenarios of lac network design (size and density)

Method: photogrammetric processing of RS data using "point clouds" "Structure from motion" methods

Reservoir geometries / LISAH

Means

- 1 MSc is ALTOS / LISAH granted. 1 other to be planned with external funds.

- No more on inventory, to be conducted.

Partnership

- LARI, CNRS-L

Reservoir geometries / LISAH

Roadmap

- Not designed

Difficulties

- Leader is immobilised by current crisis

Objectives: Detecting crop rotation drivers in order to further spatialize crop rotation prospective scenarios (future).

Method:

- Accounting for both "stationary" social structures and local translations into individual and collective rules over 4 crop cycles

- Identifying and spatializing collective / individual rules by

  - Identifying aggregates with similar crop rotations

  - Exploring collective / individual rules and physical environment features that drive aggregates (geostatistical approach)

- Using SPOT imagery and field records to identify & spatialize collective / individual rules

- Conducting farmer interviews to validate and enrich crop rotation rules

Land use / LISAH

Means

- No more on inventory, to be conducted.

Partnership

- INRGREF

Land use / LISAH

Roadmap

- Not designed

Difficulties

- Collective brainstorming impossible to conduct over the last month

Chemical treatments / LISAH

Objectives: characterizing pesticide practices and farmer's choices

Method:

- Field survey (pesticide contents in surface waters) and farmer interviews (pesticide uses) in accordance to land use and crop rotation

Means

- 3 years of continuous monitoring within OMERE observatory.

- 1 ongoing PhD from CHAAMS project

- 1 forthcoming PhD from ALTOS

Chemical treatments / LISAH

Partnership

- INAT

Roadmap

- On going data collection (Kamech scale)

- Forthcoming data collection (Lebna scale)

- Update of former data collection (Korba Irrigated perimeters)

- Next stage is data processing including quality check.

- Further stage is database setup and metadata for ALTOS web site (PM)

Hydrological connectivities / LISAH

Objectives: characterizing surface hydrological connectivities

Method:

- Numerical space segmentation with recent developments based on oriented tree typology and inclusion of areal / bulk elements

Means

- Tools is ready : Groove'scape already design and implemented over a southern French watershed (French biodiversity agency project).

- MNT products are ready

Hydrological connectivities / LISAH

Partnership

- INRGREF

Roadmap

- Implementation to be conducted within Cap Bon. Not yet discussed.

Difficulties

- Collective brainstorming impossible to conduct over the last month