

STAKEHOLDERS INVOLVEMENT

MONITORING – WP2

- Historical data acquisition
- Large scale remote sensing and local scale Unmanned Aerial Vehicle surveys
- Ground truth by field work
- Socio-economic surveys

ACTIONS and SCENARIOS – WP2

- Current **baseline** and **future scenarios** of the main drivers (boundaries) of the system are built.
- **Planning** and **management actions**, including infrastructural, normative and operational intervention are identified (the action will be combined into **pathways**: temporal sequence of set of actions)

INDICATORS – WP2

- **Evaluation Indicators** representing the different stakeholder groups are identified sector by sector in collaboration with the stakeholders and the decision makers.
- Additional high level indicators can be formulated in WP3 to capture governance, economic and legal aspect of general interest.

MODELS – WP3/WP4

- Models of the natural processes are set up and validated
- Models of the socio-economic processes are set up and validated
- The model of the different components are combined into an integrated model

Set of feasible actions

Trajectories of key variables (e.g. reservoir storages, water supply, agricultural production,...)

Pathways and evaluation indicators

DAF (Decision Analytic Framework) – WP5

Robust pathways (sequences of actions) are selected via simulation-based optimization of the integrated model built in WP3 for different alternative combinations/timing of planning actions suggested by WP3 and WP4 under current and future climatic and socio-technological scenarios (WP3). Pathway are assessed based on the multiple indicators identified in WP2.

The DAF provides:

- Set of interesting alternative pathways for each scenarios considered.
- A set of robust alternatives across all the scenarios.

Candidate pathways

NSL (Negotiation Simulation Laboratory) – WP6

In the virtual negotiation lab the stakeholder/DMs comparatively assess the pathway provided by WP5 and negotiate to extract several interesting largely agreed upon alternatives.

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