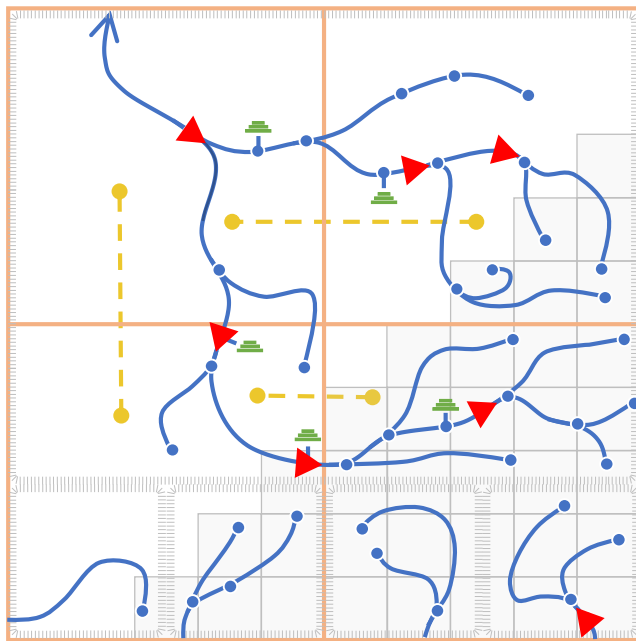


Operational planning of WEF infrastructure:

quantifying the value of information sharing and cooperation in the Eastern Nile basin

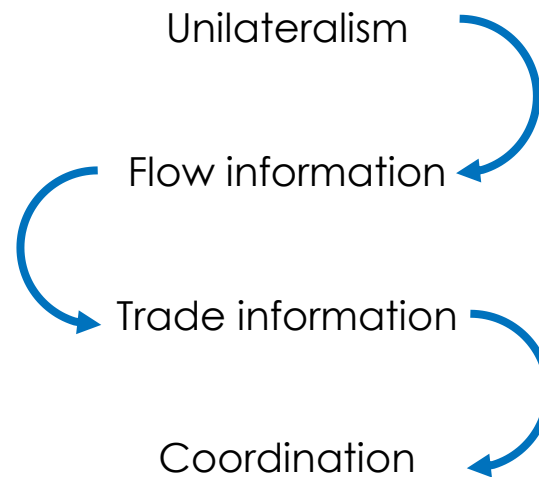
Goal: illustrate the benefits, costs and (inter)sectoral trade-offs of transboundary cooperation in managing Water-Energy-Land resources in the Eastern Nile basin.

Optimise operational plans at national and regional scales within the Water, Energy, Food (WEF) nexus framework



- | country border
- node
- basin border
- irrigated agriculture
- ▶ surface water reservoir
- rainfed agriculture
- | river
- power transmission

We consider multiple cooperation scenarios to improve our understanding of the composition of economic benefits by adding information..



.. and changing the sequence of optimisation and simulation in a receding horizon model predictive framework with a monthly time step

To illustrate that more cooperation in resource planning results in higher regional and national economic benefits

