Water Governing Systems: addressing conflicts between hydrological and institutional scales

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Selecting the focused spatiotemporal levels in the study case

Desk reviews/field evaluations and capturing the structure of the water governing system

Clustering the major and minor players in respect to their institutional/administrative level

Formulating the interaction structure by an appropriate device (i.e. statistical mechanics models)

Setting the interactions based on political/institutional (interaction) rules and regulations

Mapping out the players at spatial scale

Tuning the interaction set up with demand/supply rates

Measuring the system cost and handling capacity interlinked to those interactions

Comparing the results with alternative system structures
Example case
Layers and Players
Governing system state

SYSTEM COST PER STRUCTURE

- 1-Core System
- 2-Cores System
- 3-Cores System

The least the system cost, the better the system fit.
Peyman Arjomandi: a PhD scholar at University of Bologna, also a visiting scholar at IIASA, conducting a multidisciplinary research on water governance analysis associated with interfering factors at macro/meso as well as micro scales.

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Thank for your attention

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