Linking stakeholder scenarios and shared socioeconomic pathways for policy making in human-water systems

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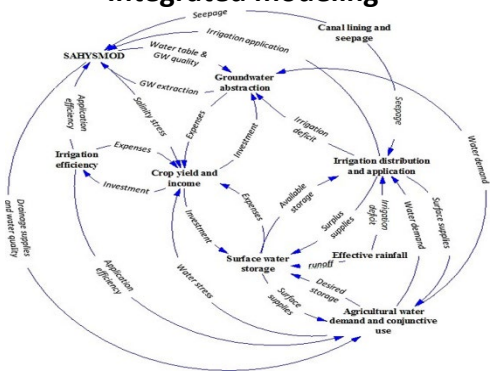
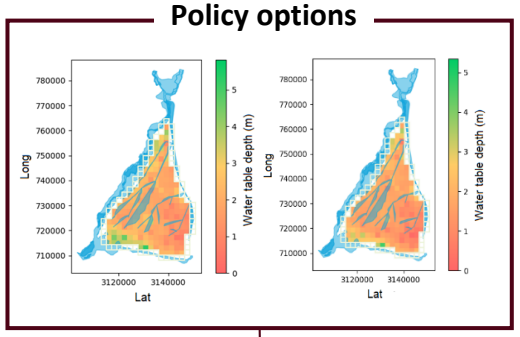
Integrated modeling

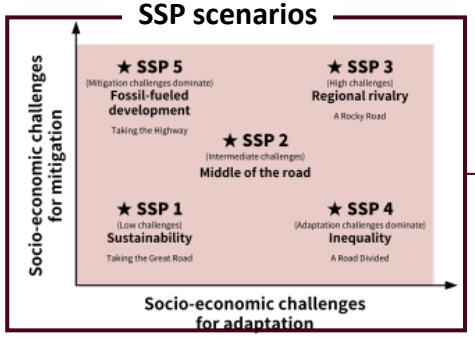


Policy options



Narrative storylines

SSP scenarios



Framework

- Evaluating socio-environment and climate change impacts and adaptation strategies under the projection of climate change (RCPs) and socio-economic scenarios (SSPs) using an ensemble of RCP-SSPs
- Developing narrative storylines with stakeholders for defining human-water interactions using participatory modelling
- Downscaling shared socioeconomic pathways (SSPs) scenarios based on regional narrative storylines.
- Linking regional stakeholder scenarios and shared socioeconomic pathways (SSPs)
- Projecting water resources conditions based on an ensemble of shared socioeconomic pathways (SSPs) and climate change scenarios (RCPs)
- Framework is applied to a real-world human-water system from a developing country located in the Rechna Doab region of Pakistan

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