

Scientific Insights on the RDI Needs



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Theme I: Improving ecosystem sustainability and Human Well-being

RDI Needs as defined in SRIA (Currently identified):

Sub-theme I.1 Developing approaches for assessing and optimising the value of ecosystem services

- Developing approaches for assessing the ecological functioning of ecosystems
- Developing and testing methodologies for the valuation of ecosystems services
- Establishing multiple pressure–impact–response relationships in aquatic, riparian and groundwater-dependent ecosystems
- Integrating ecosystem services into management of water resources
- Adapting and integrating our water/ecosystem management, planning and governance systems with better environmental data and information

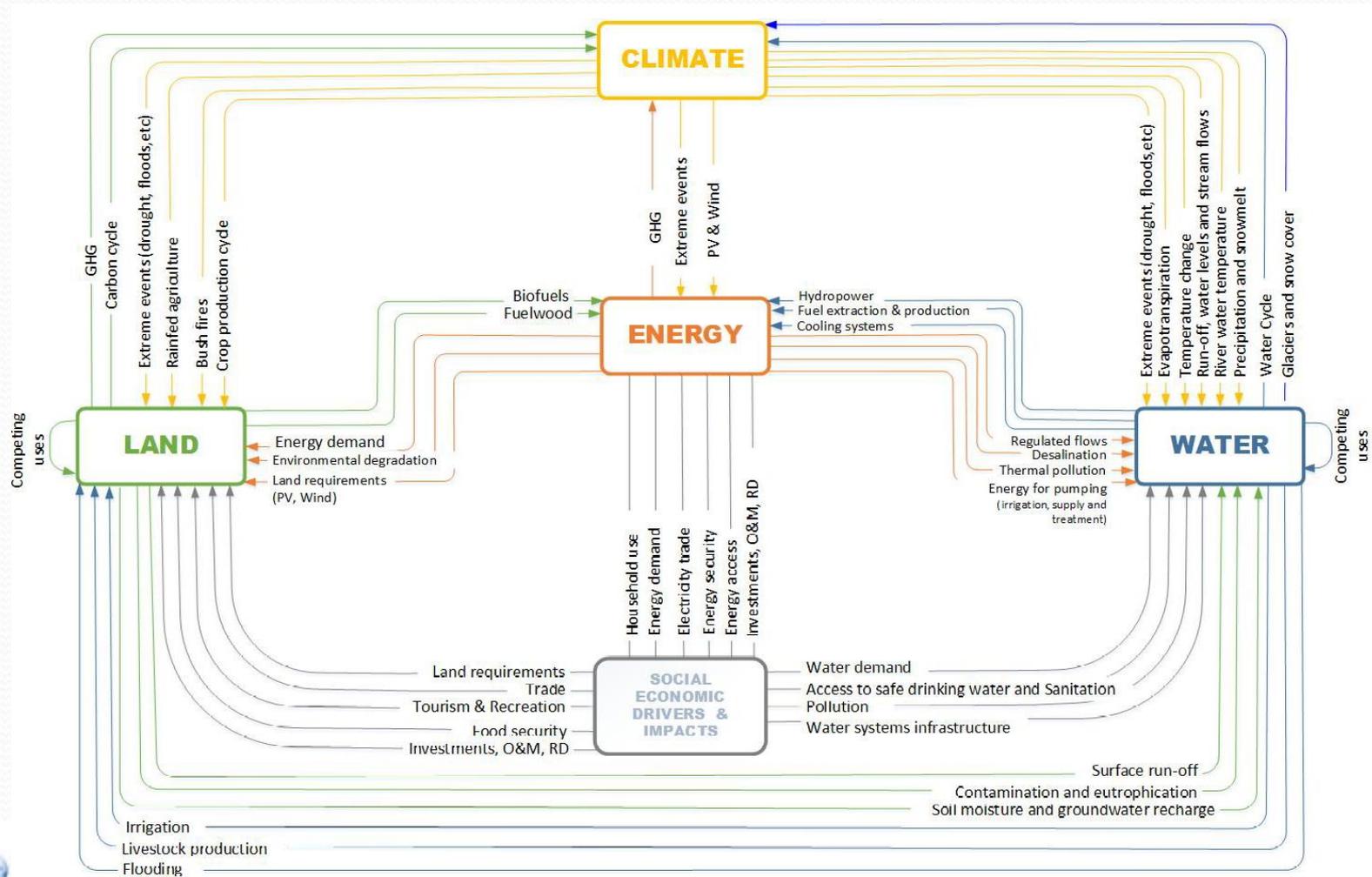
Subtheme 1.2: Integrated approaches: developing ecological engineering and ecohydrology

- Restoring morphology continuity and hydraulic connectivity
- Managing the risks caused by invasive species and options for remediation
- Understanding and managing ecological flows
- Integrated eco-technological solutions for the remediation and mitigation of degraded water bodies and aquatic ecosystems

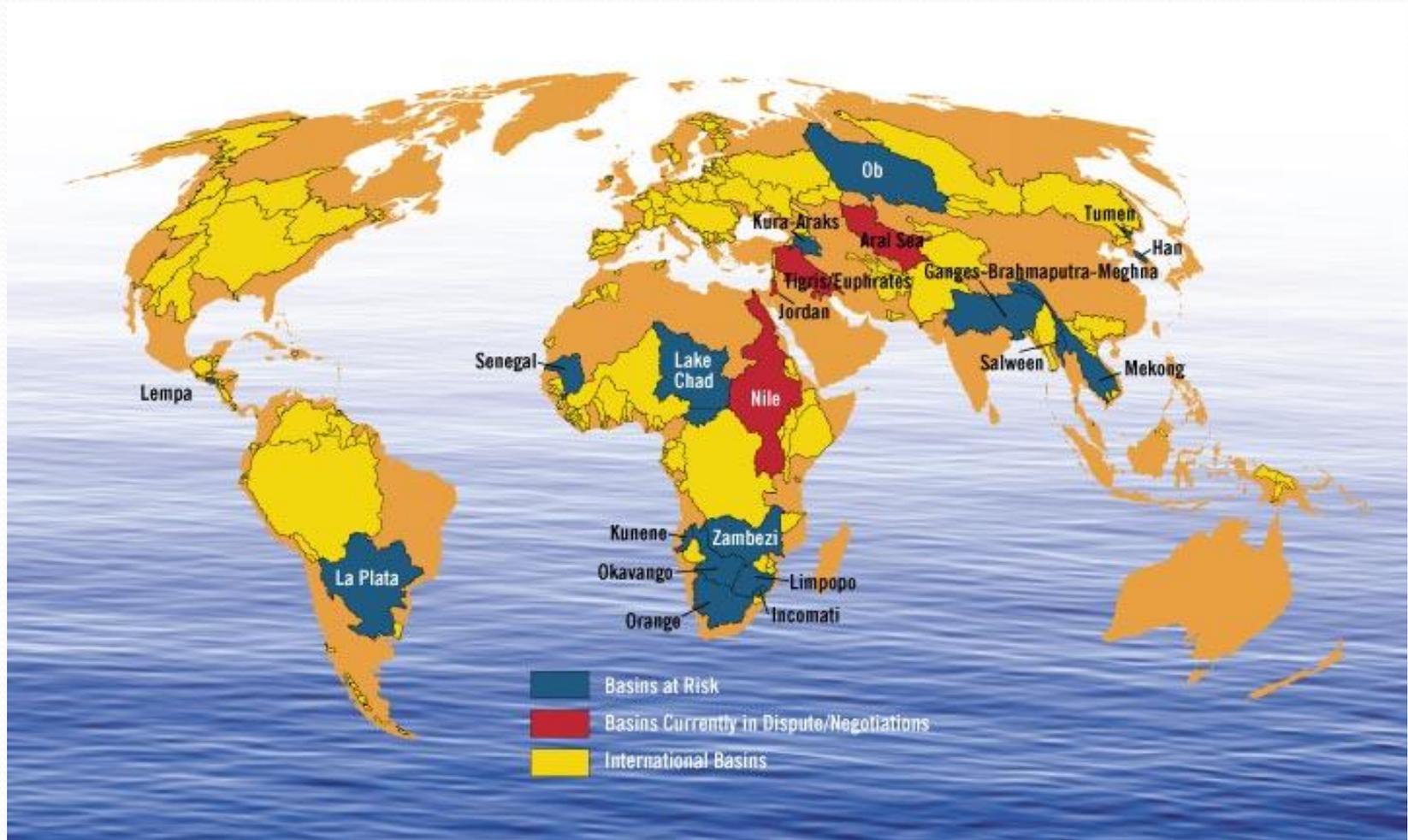
Subtheme 1.3: Managing the effects of hydroclimatic extreme events

- Understanding the causes of drought/scarcity, predicting drought events and water scarcity and developing adaptation measures
- Developing innovative (or improved) tools for adaptation to hydro-climatic extreme events, especially floods
- Improving water management to mitigate the harmful impacts of extreme events (extreme weather events, impaired water quality)

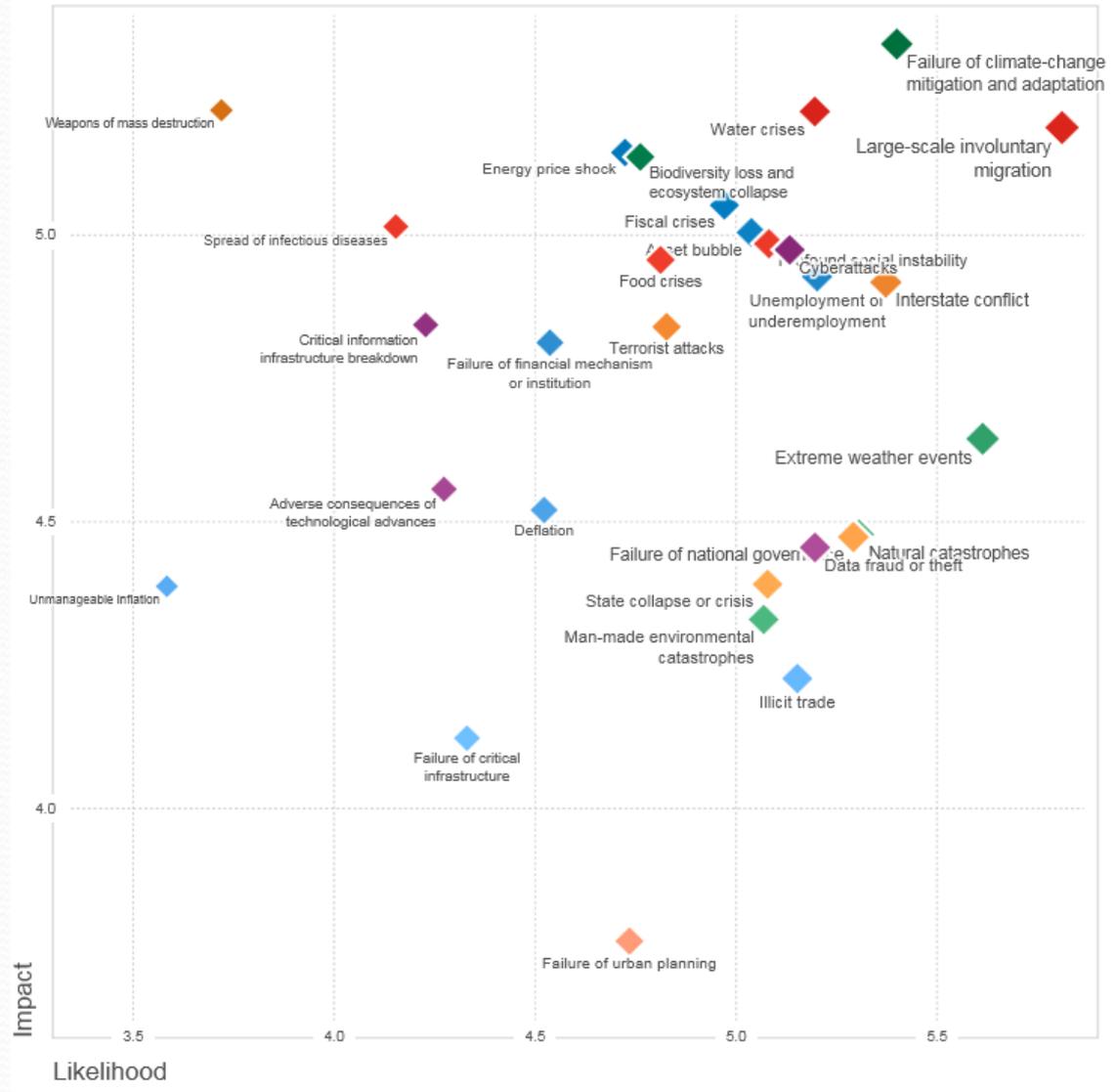
Links between water, food and energy security



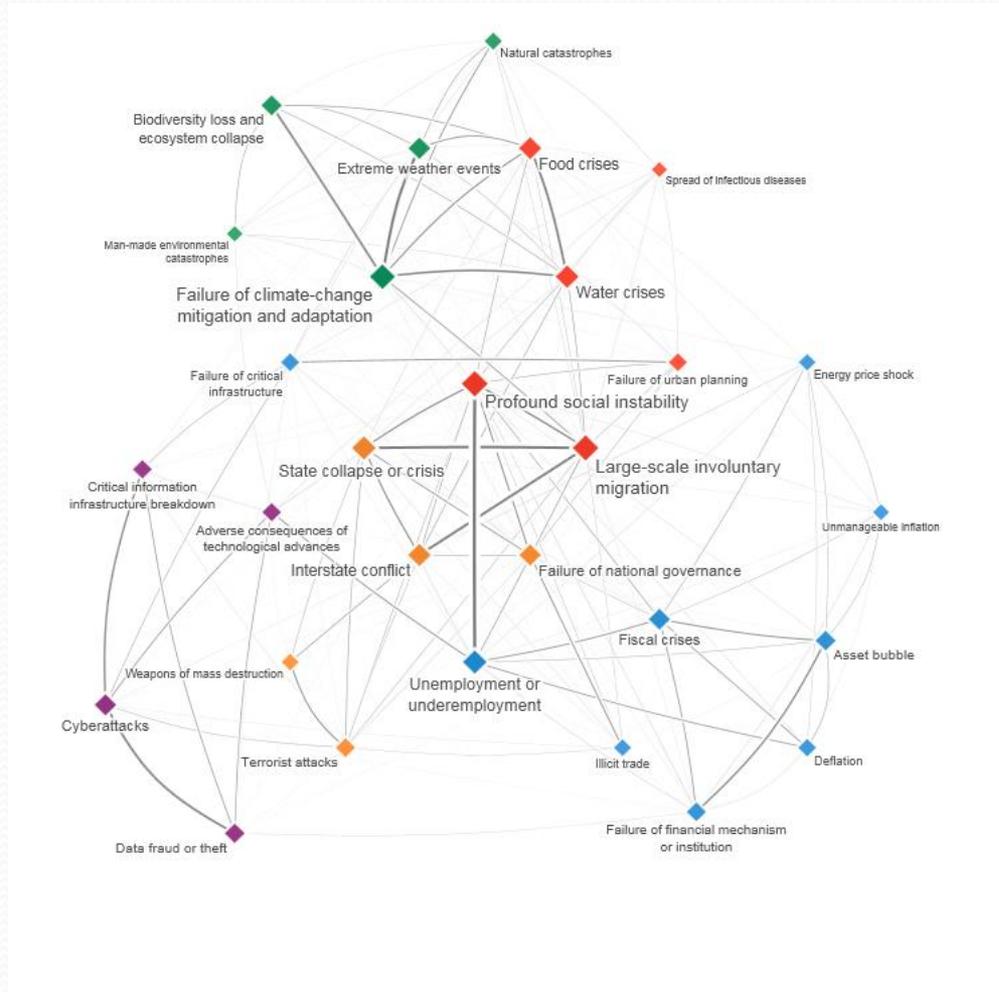
Transboundary issues



Global Risks



Global Risks - Interconnections



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