



Session 4: Interpreting the future: the importance of scenarios for decision-making

Dr. Sonja Jähnig – Leibniz-Institute of Freshwater Ecology and Inland Fisheries (IGB)

 @SCJaehnig

The AQUACROSS project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 642317.





Scenarios for ecosystem based management in aquatic ecosystems: AQUACROSS case studies and beyond

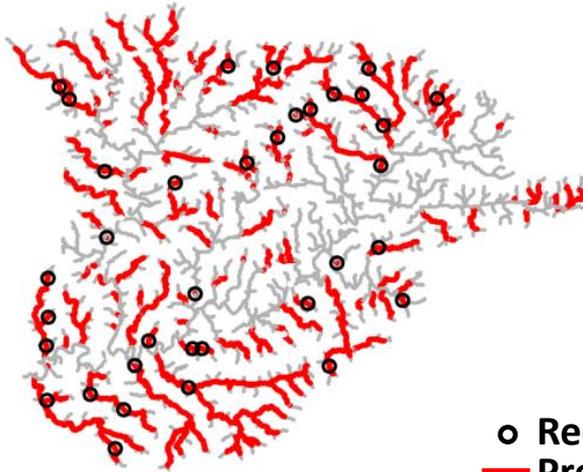
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Previously...

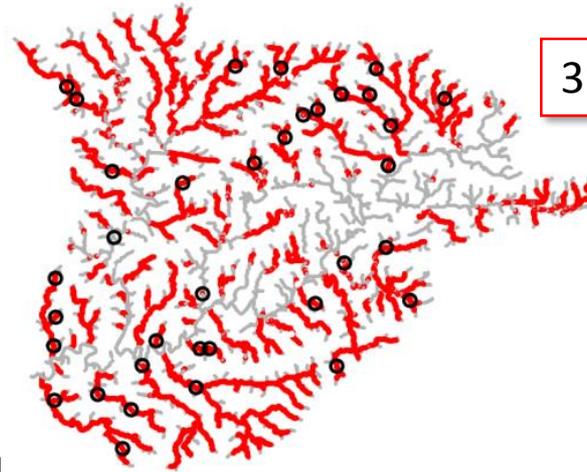
Basis model
2010



○ Recorded
— Predicted

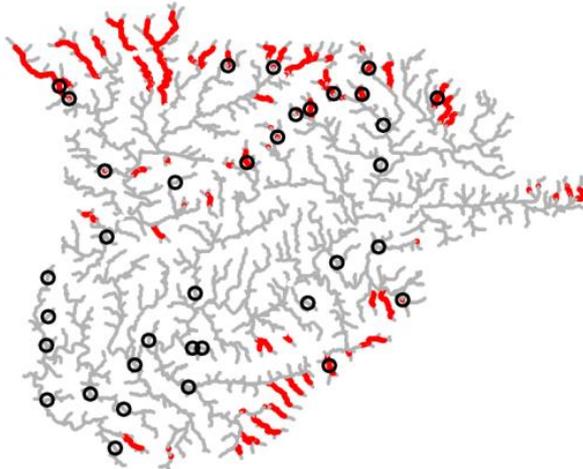
Climate change
2035

31.5%



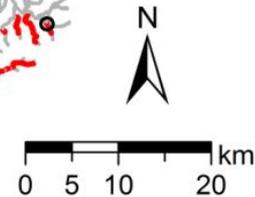
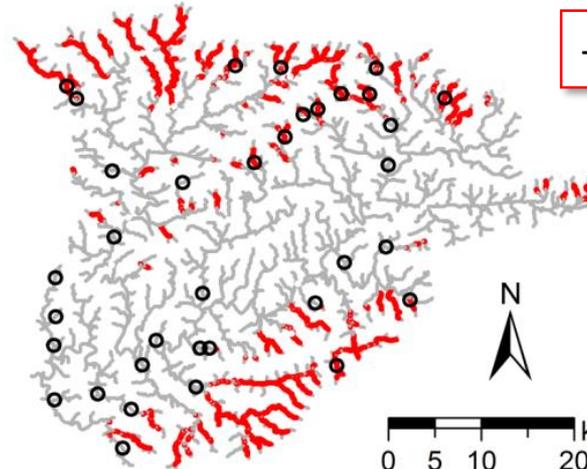
Landuse change
2035

-73.8%

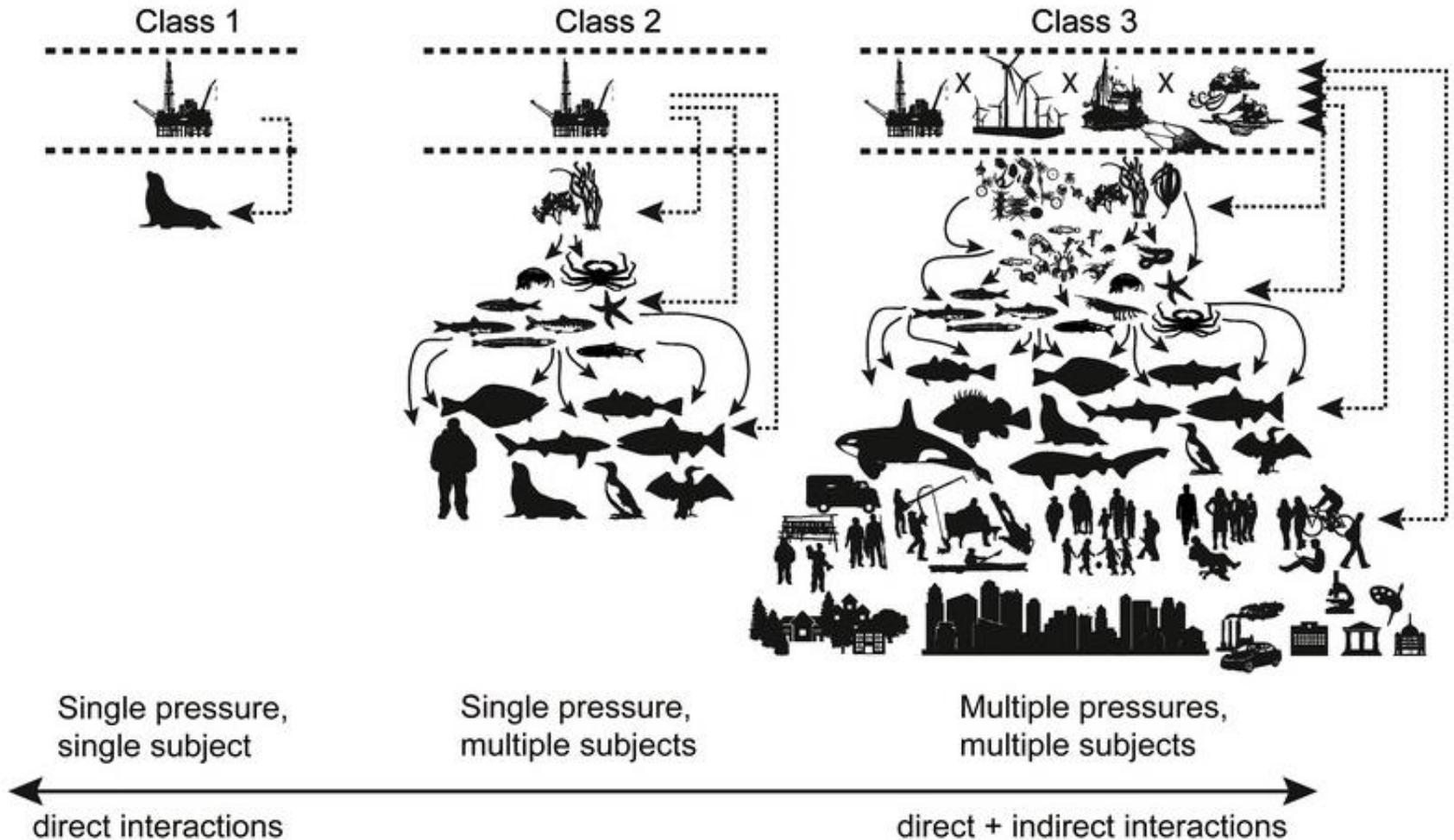


Combined change
2035

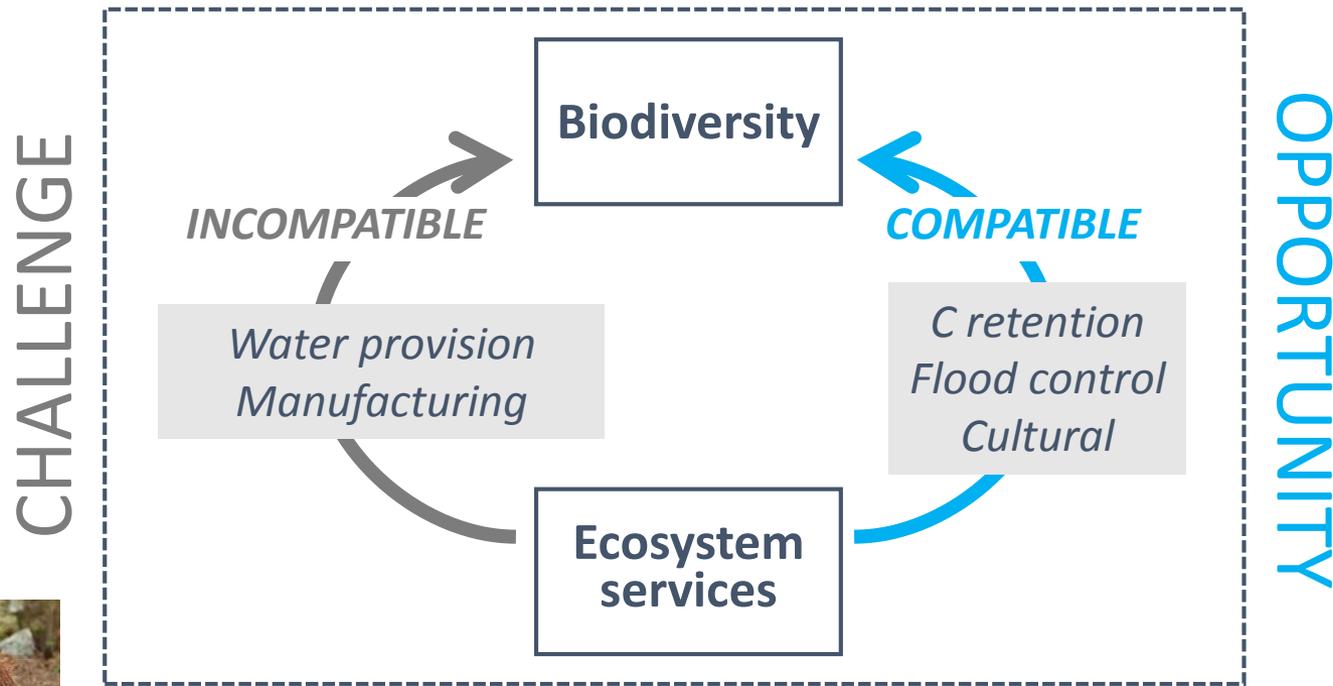
-54.3%



But wait...



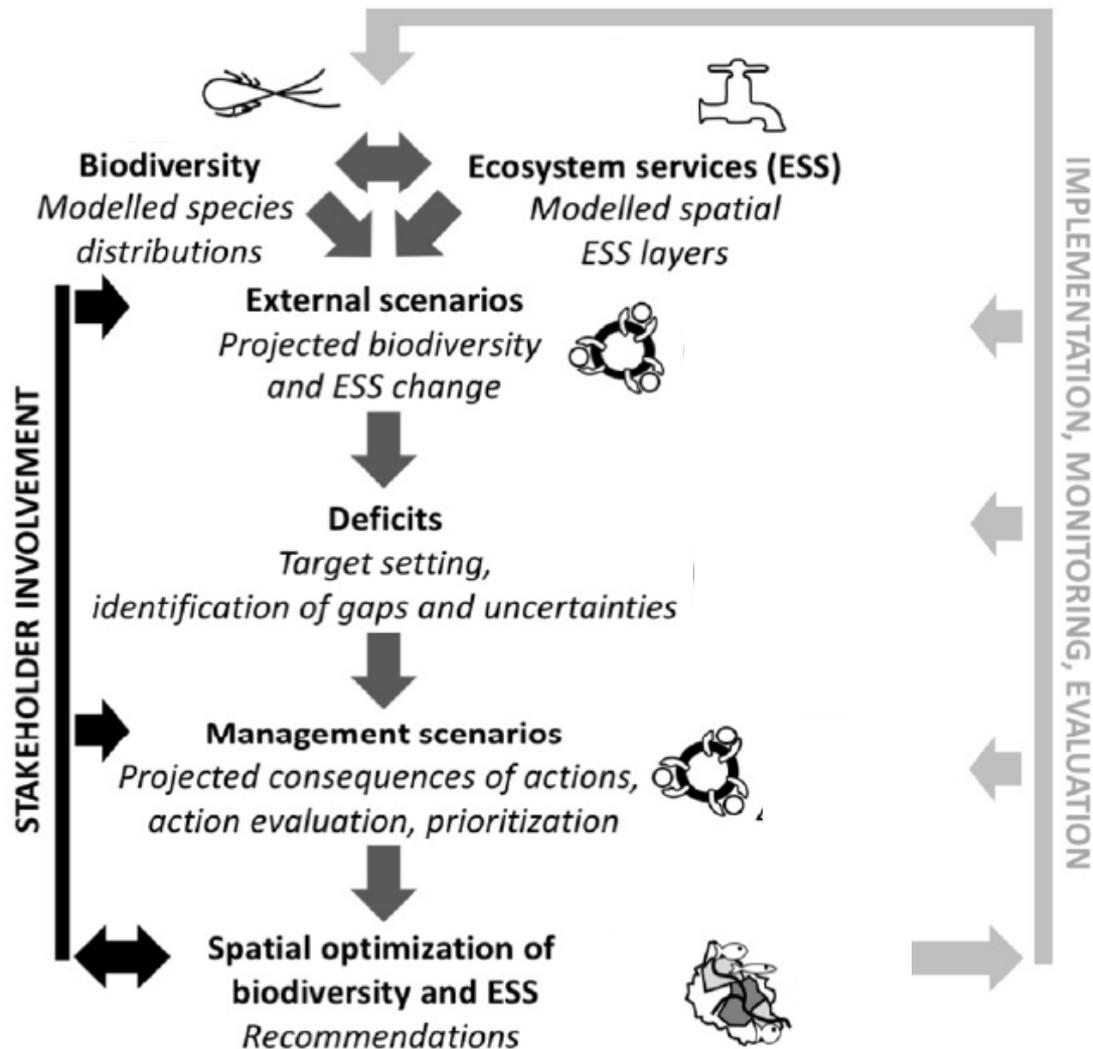
Conceptual frame



**Future
management**

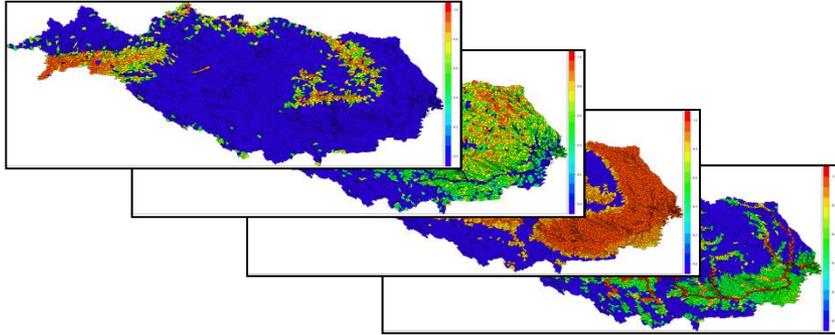


Conceptual frame

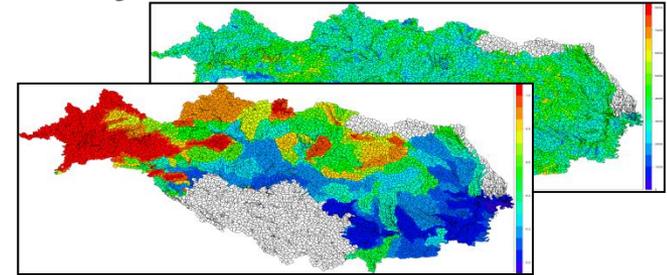


Joint spatial prioritization

Biodiversity

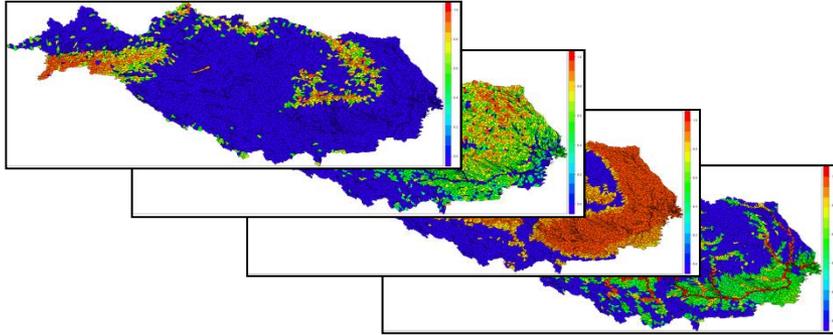


Ecosystem services

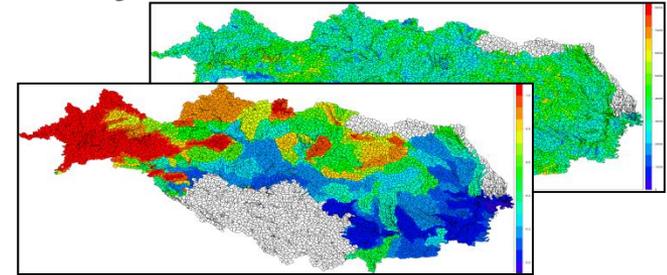


Joint spatial prioritization

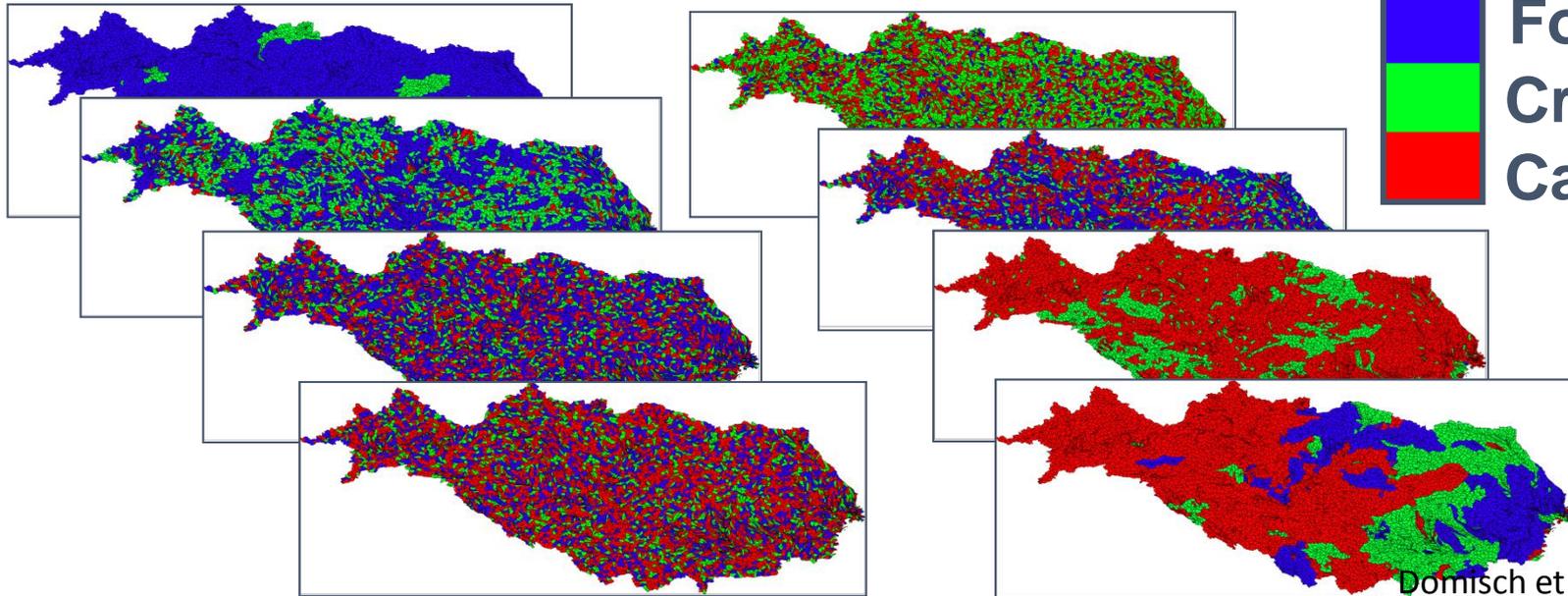
Biodiversity



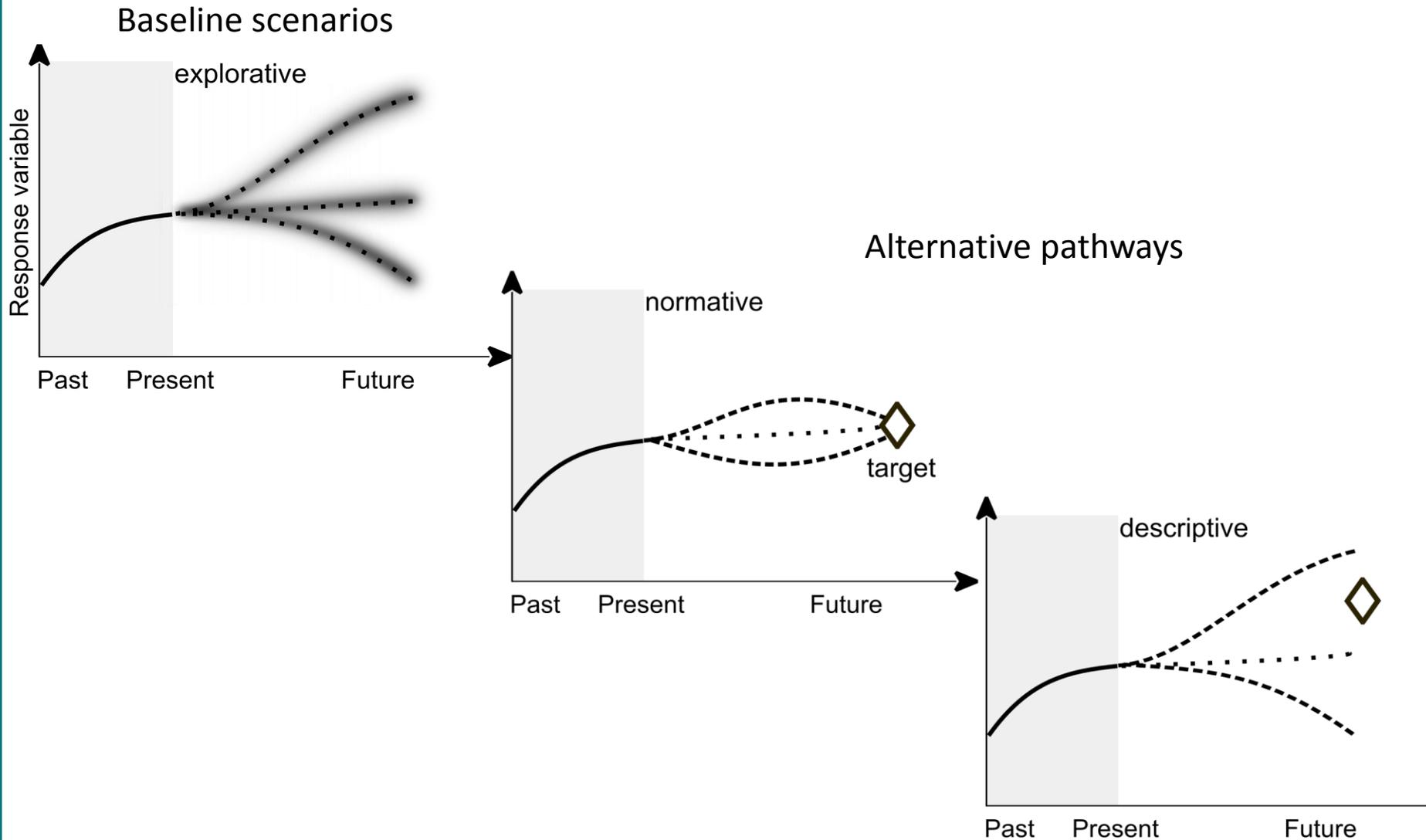
Ecosystem services



Zone



Scenario types



- ≡ modelling framework(s)
- ≡ scenario development
- ≡ stakeholder participation
- ≡ data management
- ≡ evaluation
 - effectivity
 - efficiency
 - equity and fairness



1. Scenarios for ecosystem-based-management in aquatic ecosystems: AQUACROSS case studies and beyond

Sonja Jähnig, Leibniz-Institute of Freshwater Ecology and Inland Fisheries (IGB), Berlin, Germany

2. The AQUACROSS Information Platform: Managing the data for the development of AQUACROSS Case Studies

Juan Arevalo, Intergovernmental Oceanographic Commission of UNESCO (IOC-UNESCO), Paris, France

3. Global-scale scenarios and models for aquatic biodiversity and ecosystem services

Jan Janse and Rob Alkemade, Netherlands Environmental Assessment Agency (PBL), Den Haag, the Netherlands

4. Inter-sectoral assessment of management scenarios based on ecosystem services

Martin Pusch, Leibniz-Institute of Freshwater Ecology and Inland Fisheries (IGB), Berlin, Germany

5. Table discussion & Feedback to panel

aquacross



Thank you!

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Share additional insights from your experience with scenario development,

e.g.

- implication for governance/ policy making
- management of the scenario development process
- time scales and resourcing
- open data issues
- or...