



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

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



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

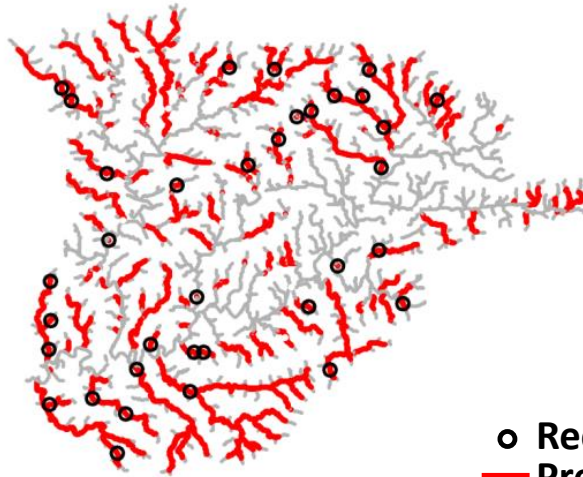
Dr. Sonja Jähnig – Leibniz-Institute of Freshwater Ecology and Inland Fisheries (IGB)

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



Previously...

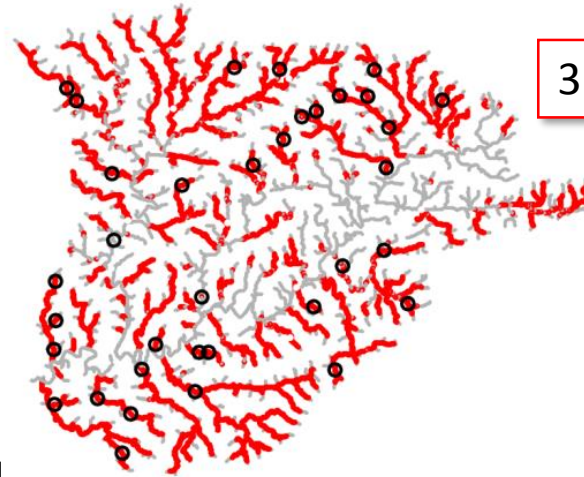
Basis model
2010



○ Recorded
— Predicted

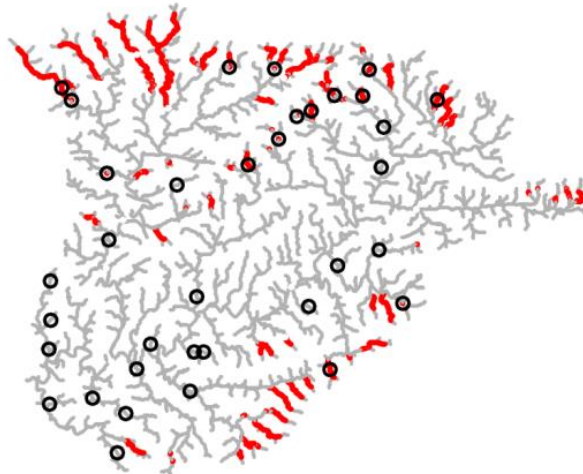
Climate change
2035

31.5%



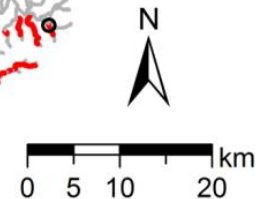
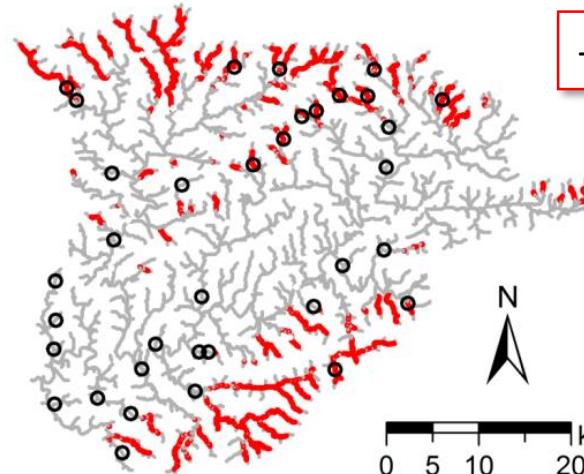
Landuse change
2035

-73.8%

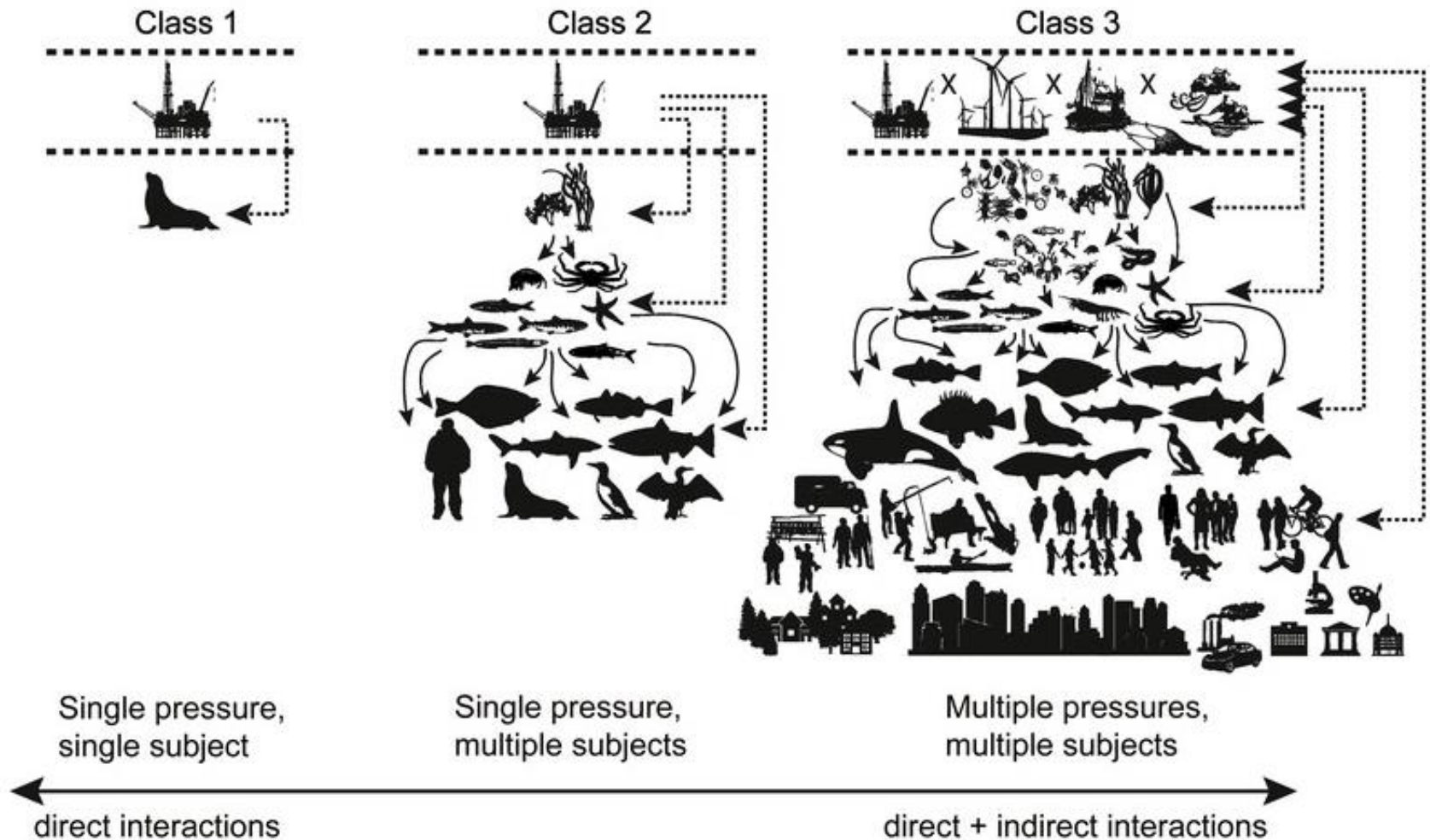


Combined change
2035

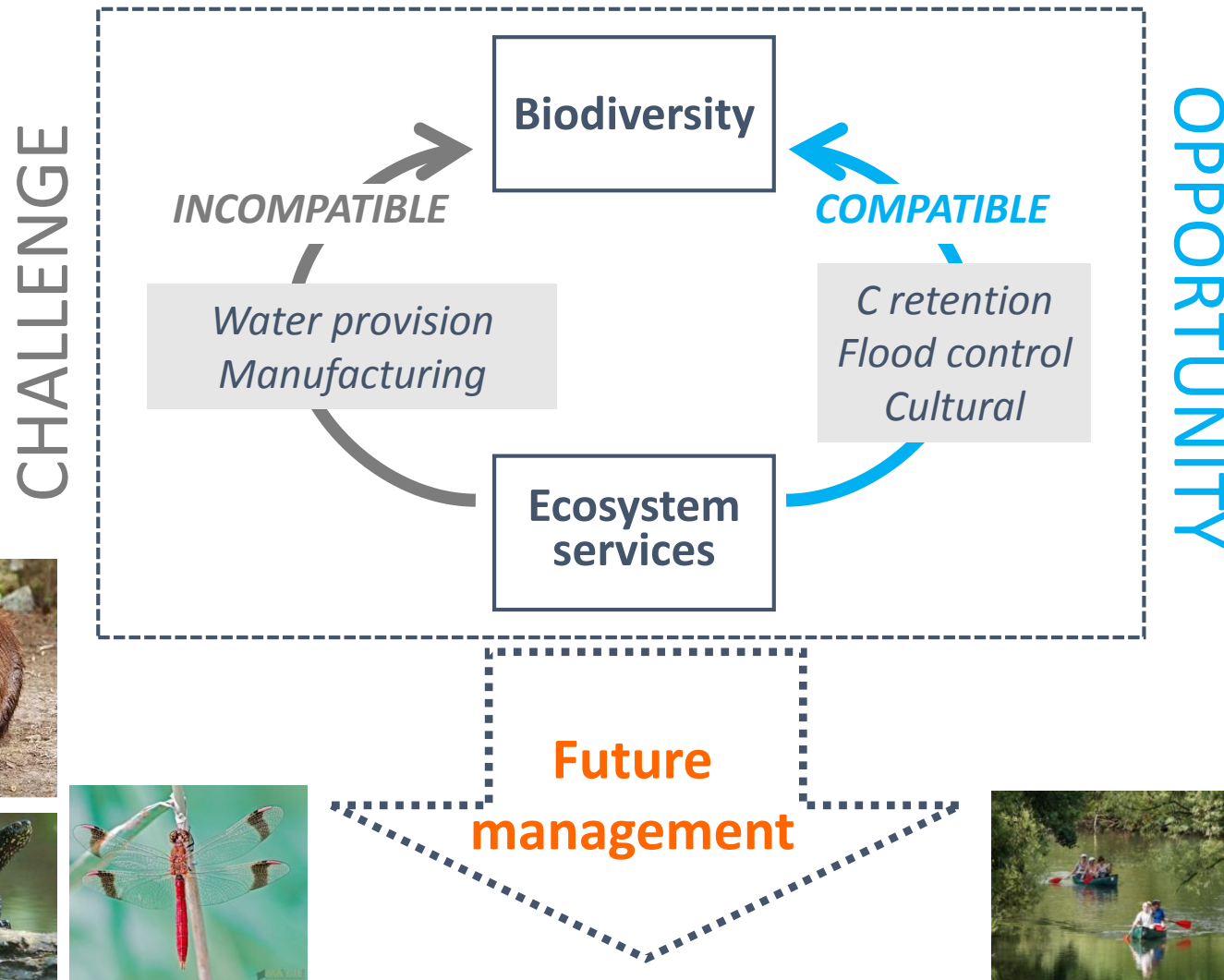
-54.3%



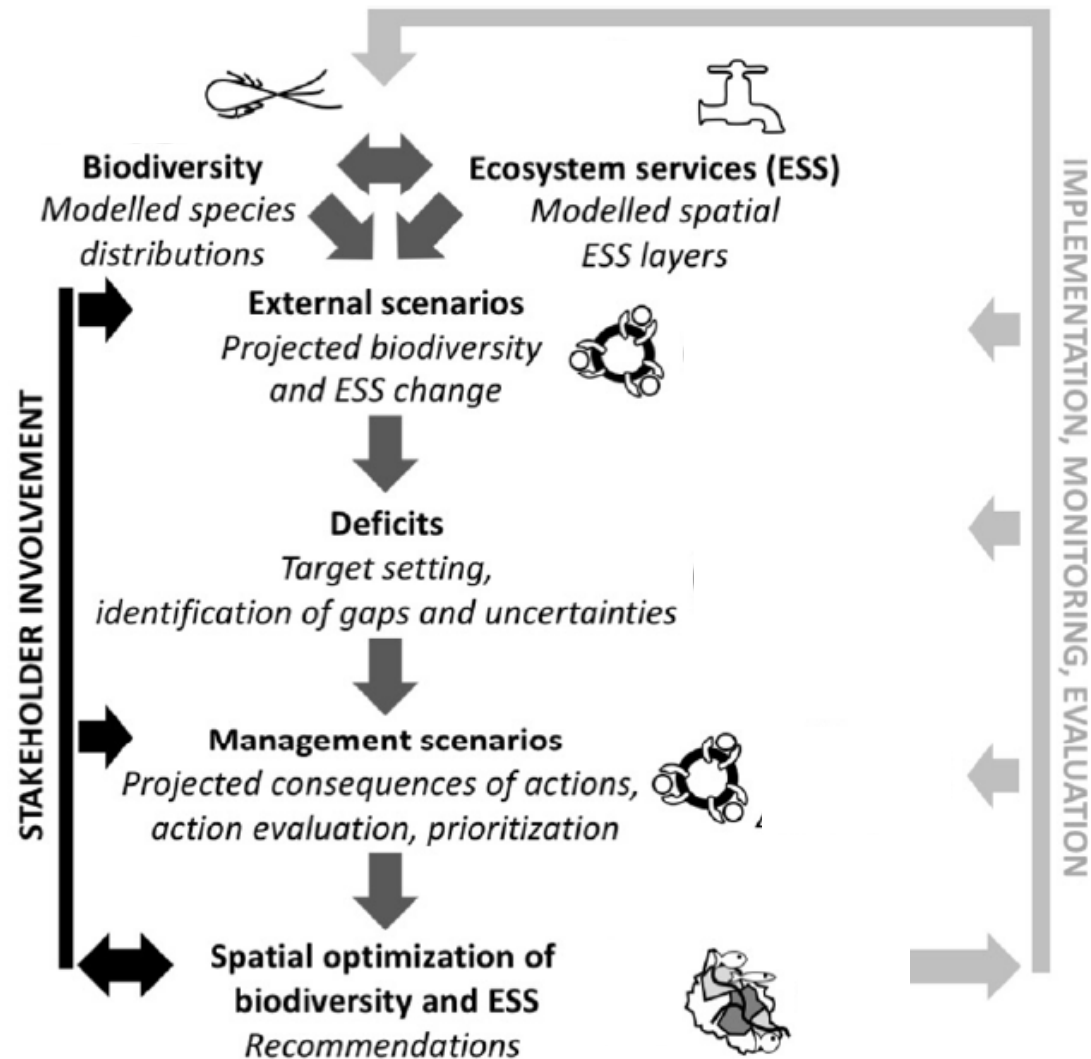
But wait...



Conceptual frame

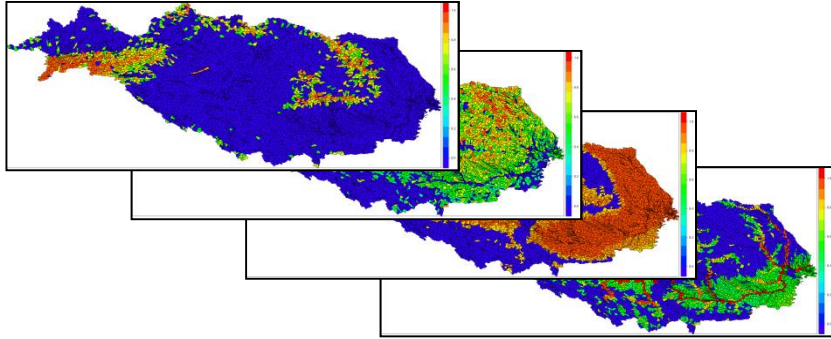


Conceptual frame

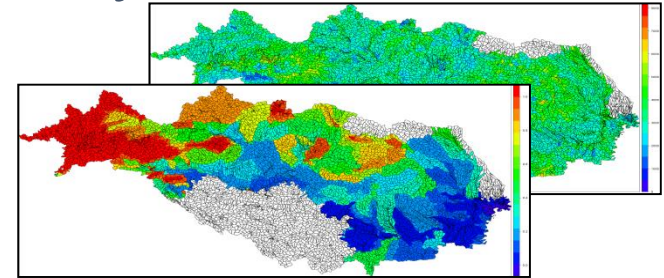


Joint spatial prioritization

Biodiversity

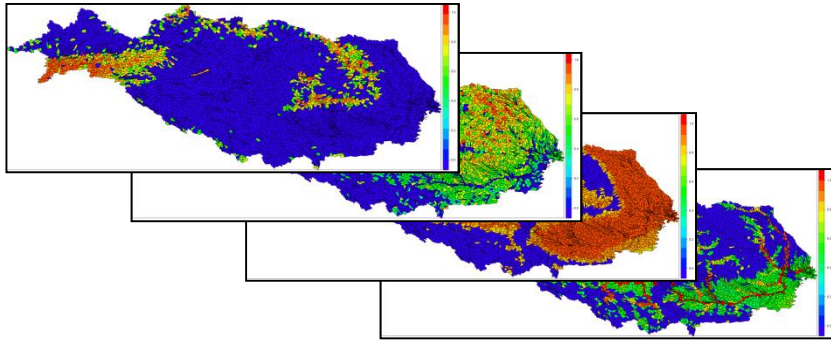


Ecosystem services

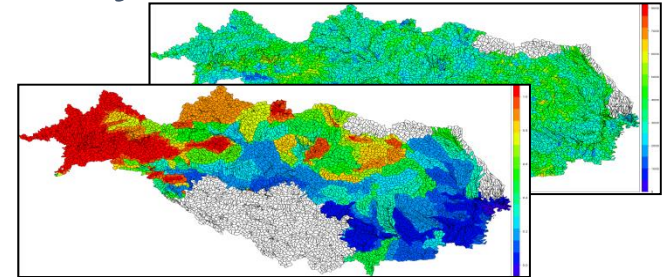


Joint spatial prioritization

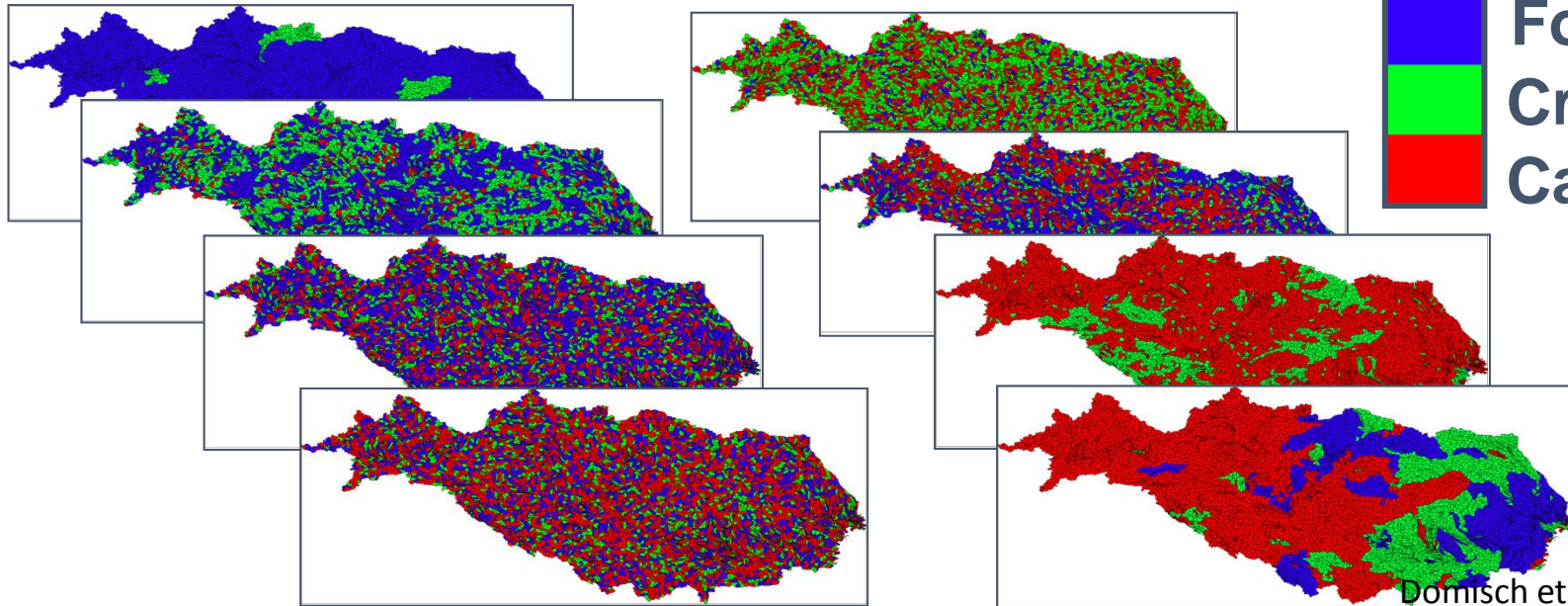
Biodiversity



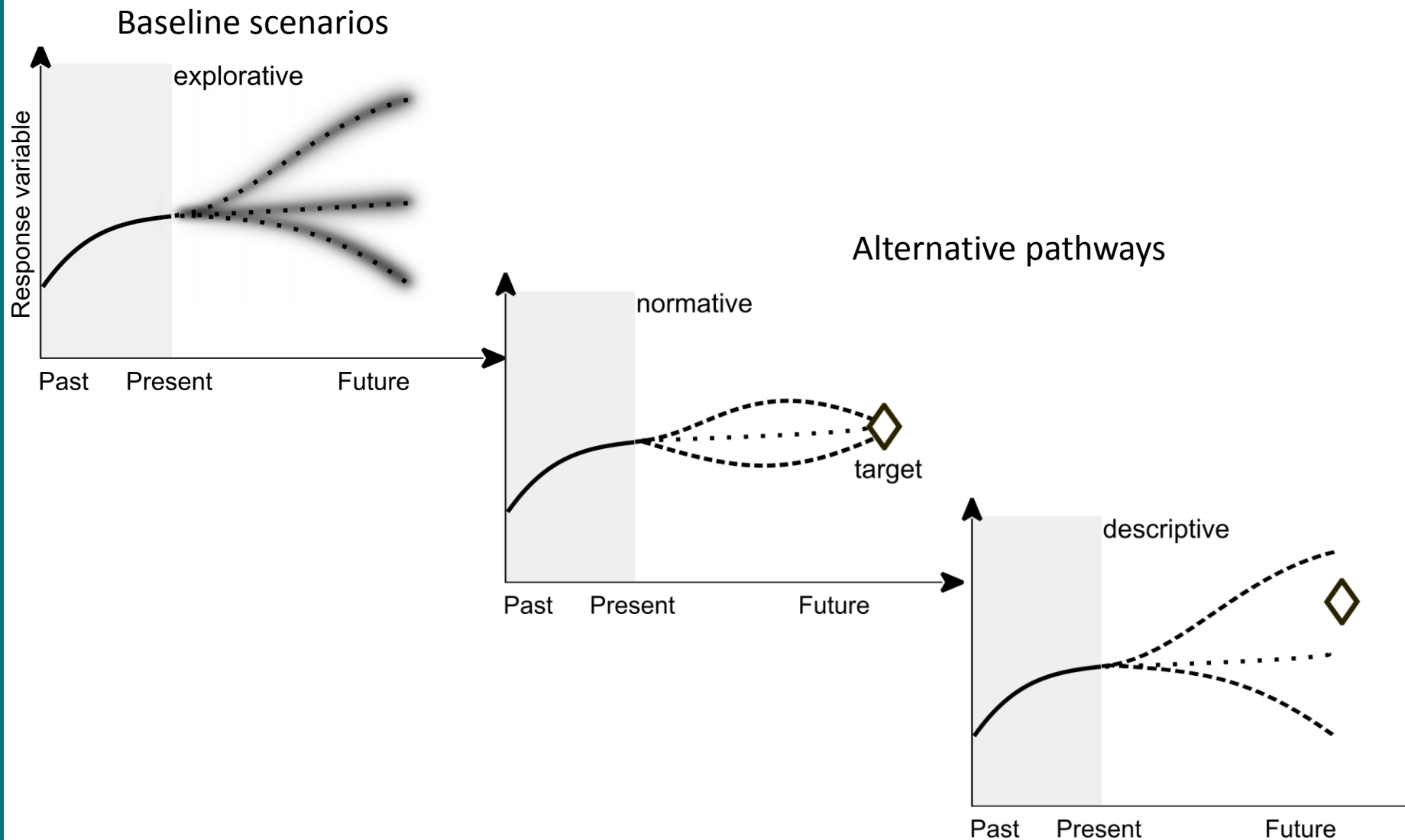
Ecosystem services



Zone



Scenario types



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



Session outline



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



Thank you!

sonja.jaehnig@igb-berlin.de

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...