



# BLUE GROWTH BOUNDARIES IN NOVEL BALTIC FOOD WEBS (BONUS BLUEWEBS)

*Defining the future of ecosystem services in the Baltic Sea*

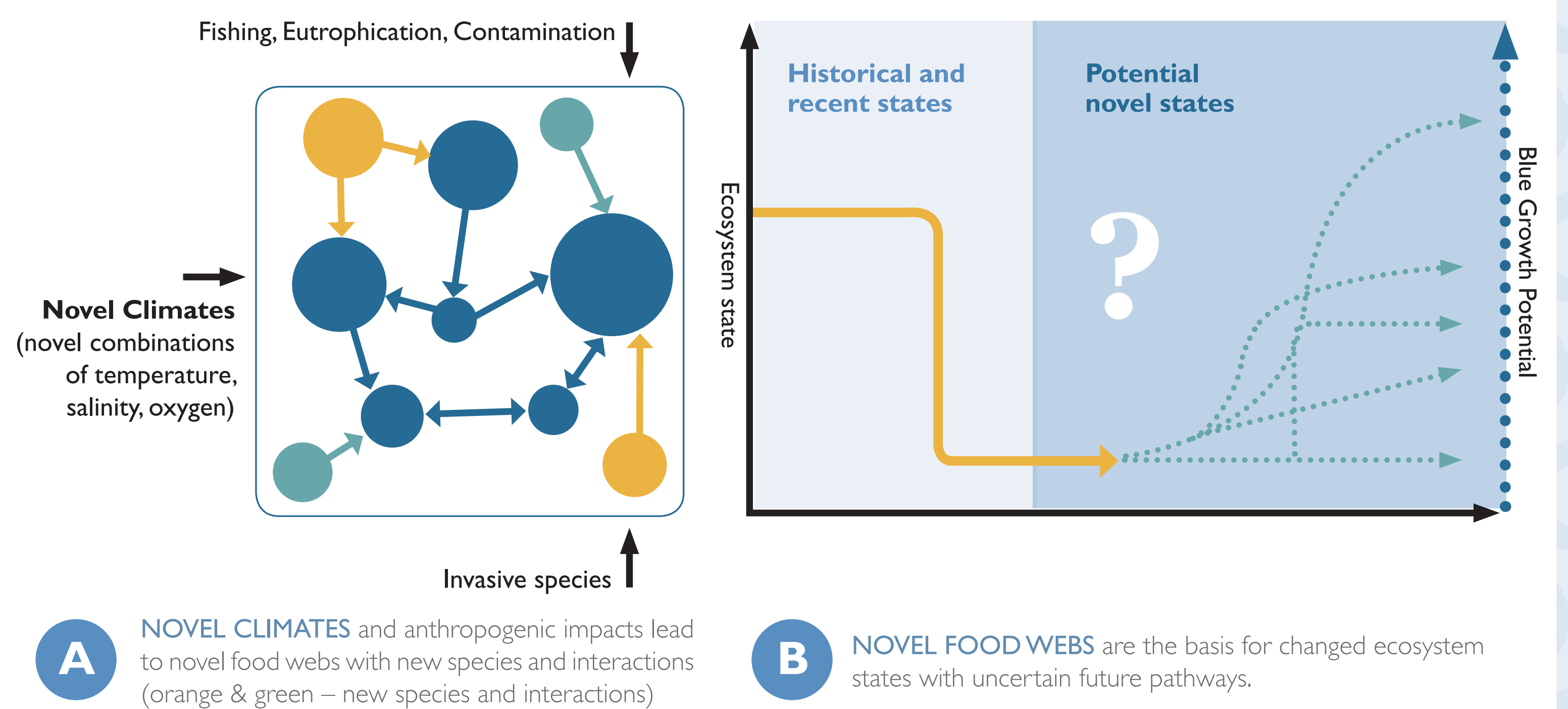
Laura Uusitalo, Marie Nordström, Bärbel Müller-Karulis, Rüdiger Voss, Thorsten Blenckner, Christian Möllmann, and other BLUEWEBS team members

[syke.fi/bonusbluewebs](http://syke.fi/bonusbluewebs) | [www.bonusprojects.org/bluewebsproject](http://www.bonusprojects.org/bluewebsproject)

## BLUEWEBS ADDRESSES KNOWLEDGE GAPS IN THE FUNCTION OF BALTIC SEA FOOD WEBS

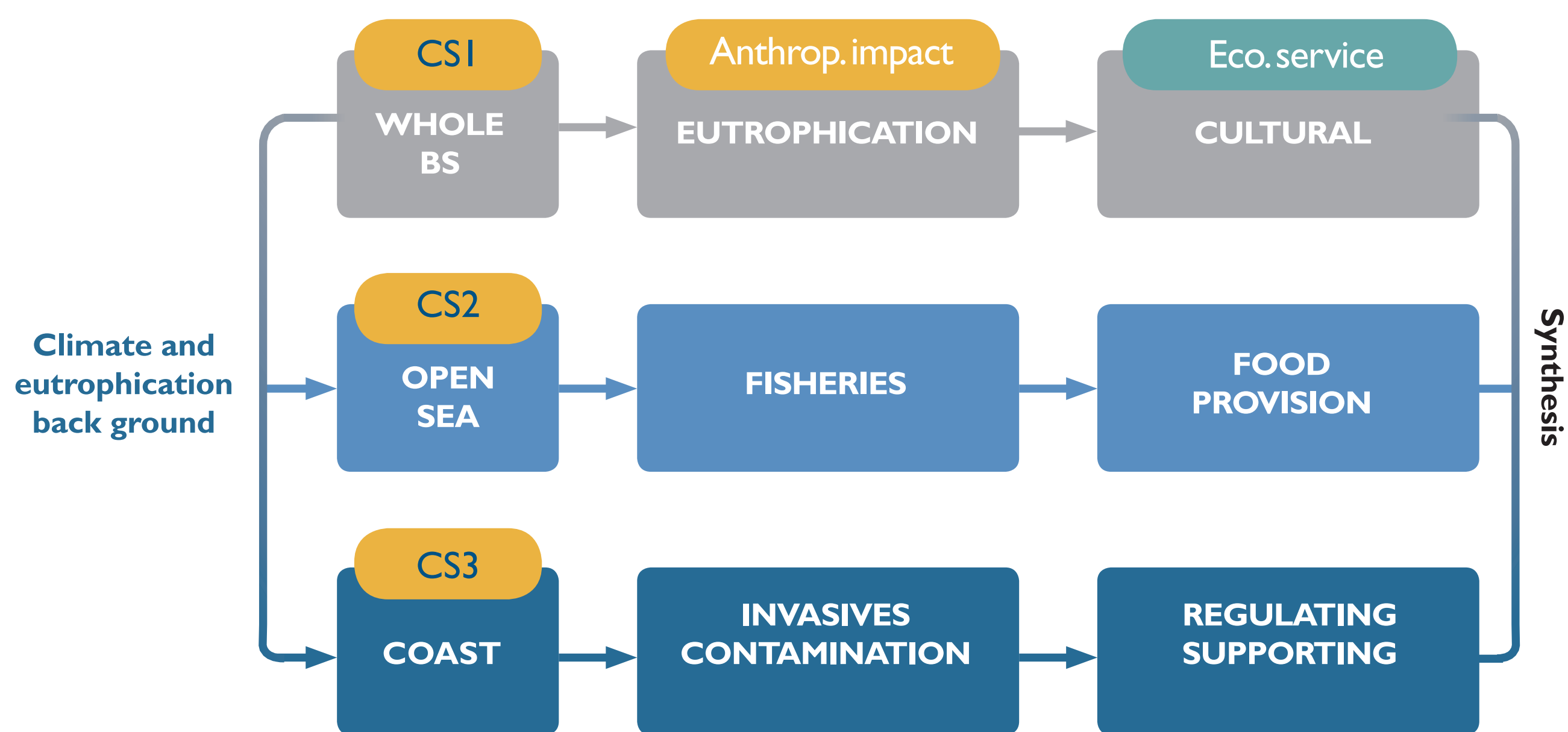
- temporal and spatial variability in "bottom-up" and "top-down" forces
- mechanisms of historical change in trophic cascades, food web structure and function, and regime shifts
- transformation of nutrients and harmful substances
- impacts of nutrient and contaminant loading, climate forcing, and the introduction of non-indigenous species and fisheries on food web dynamics
- socio-ecological coupling and ecosystem service provisioning potential

## BLUEWEBS BACKGROUND

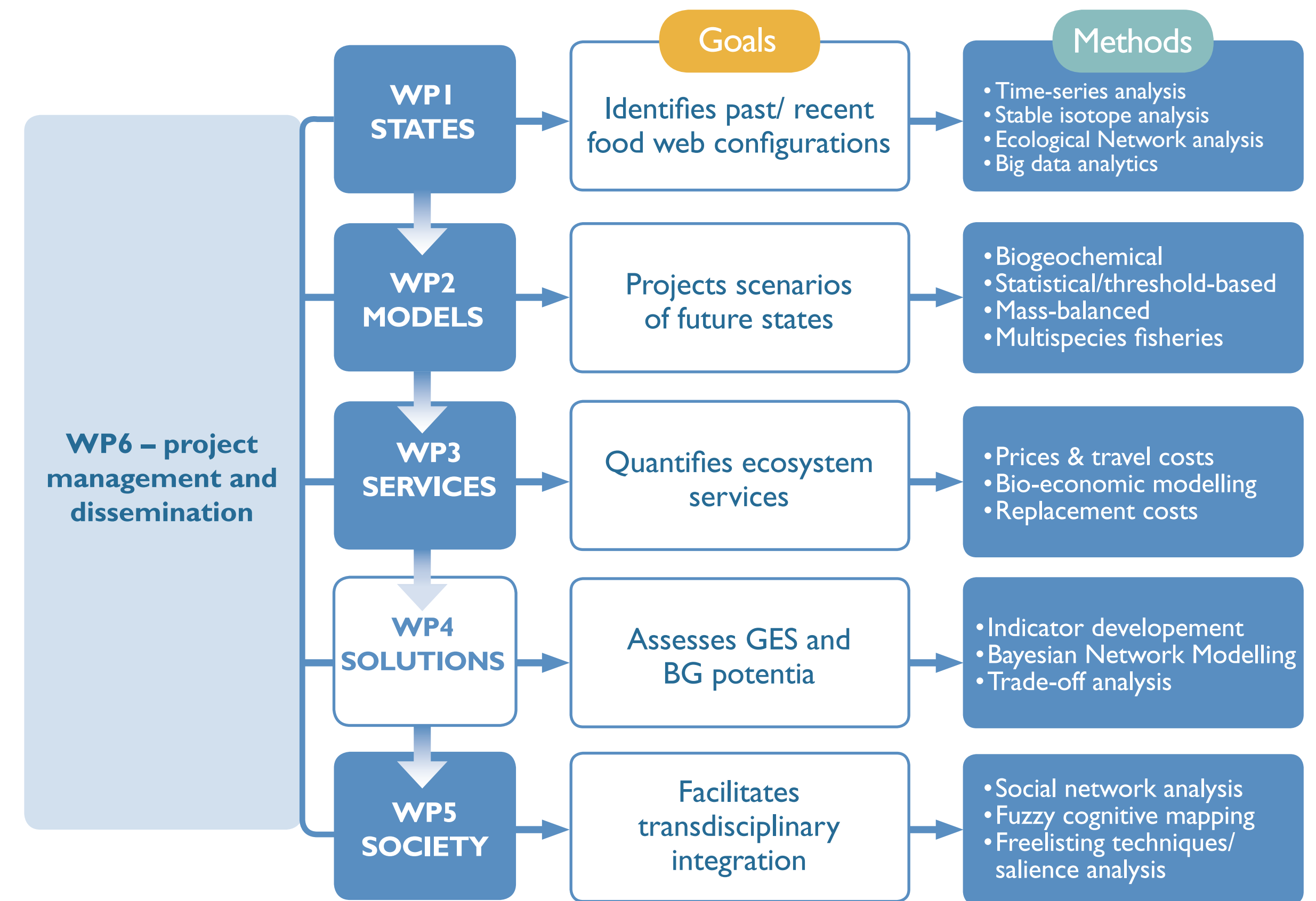


## CASE STUDIES

BLUEWEBS has three case studies focusing on different pressures and ecosystem services. The coastal case study focuses on three locations: Archipelago Sea, Gulf of Riga, and the Gulf of Gdansk.



## WORKPACKAGE (WP) STRUCTURE WITH WP GOALS AND METHODOLOGY



## BLUEWEBS RESEARCH QUESTIONS

- What is novel about today's Baltic Sea food webs in terms of structure and function?
- What is the capacity for novel Baltic food webs to provide ecosystem services?
- What are the likely futures of Baltic Sea ecosystems, taking into account the novel food web and climate?
- How can the system be managed to reliably and sustainably achieve good environmental status and blue growth?
- How to include non-academic knowledge into scientific and decision making processes?



SYKE

