SeeWandel: Life in Lake Constance – the past, present and future

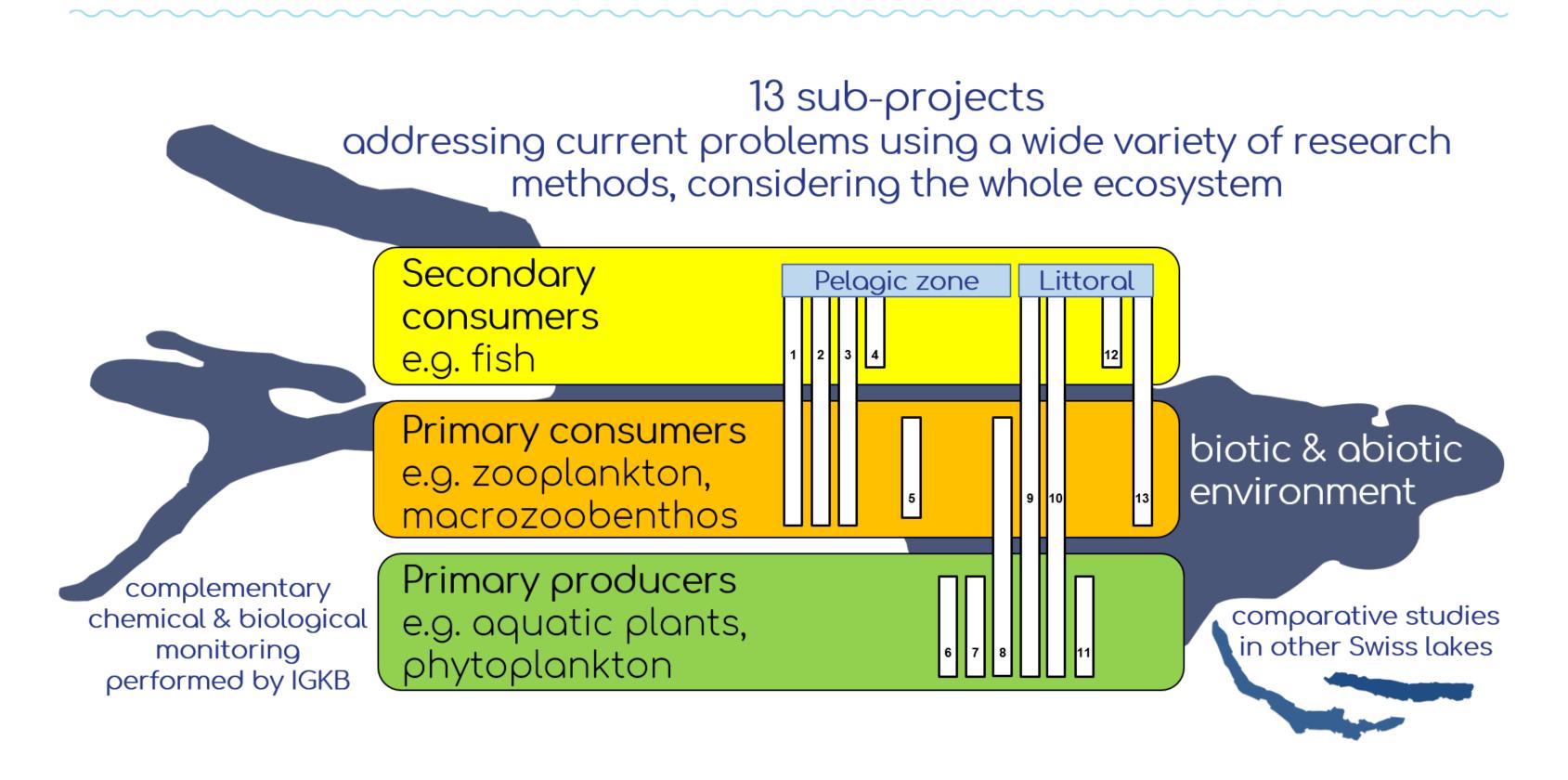


Background

- Lake Constance is one of the largest Alpine lakes on the border between Germany, Austria & Switzerland
- An important drinking water reservoir & ecosystem, significant for tourism, recreation, fishing, nature conservation and energy production
- Undergone extensive changes in the past century

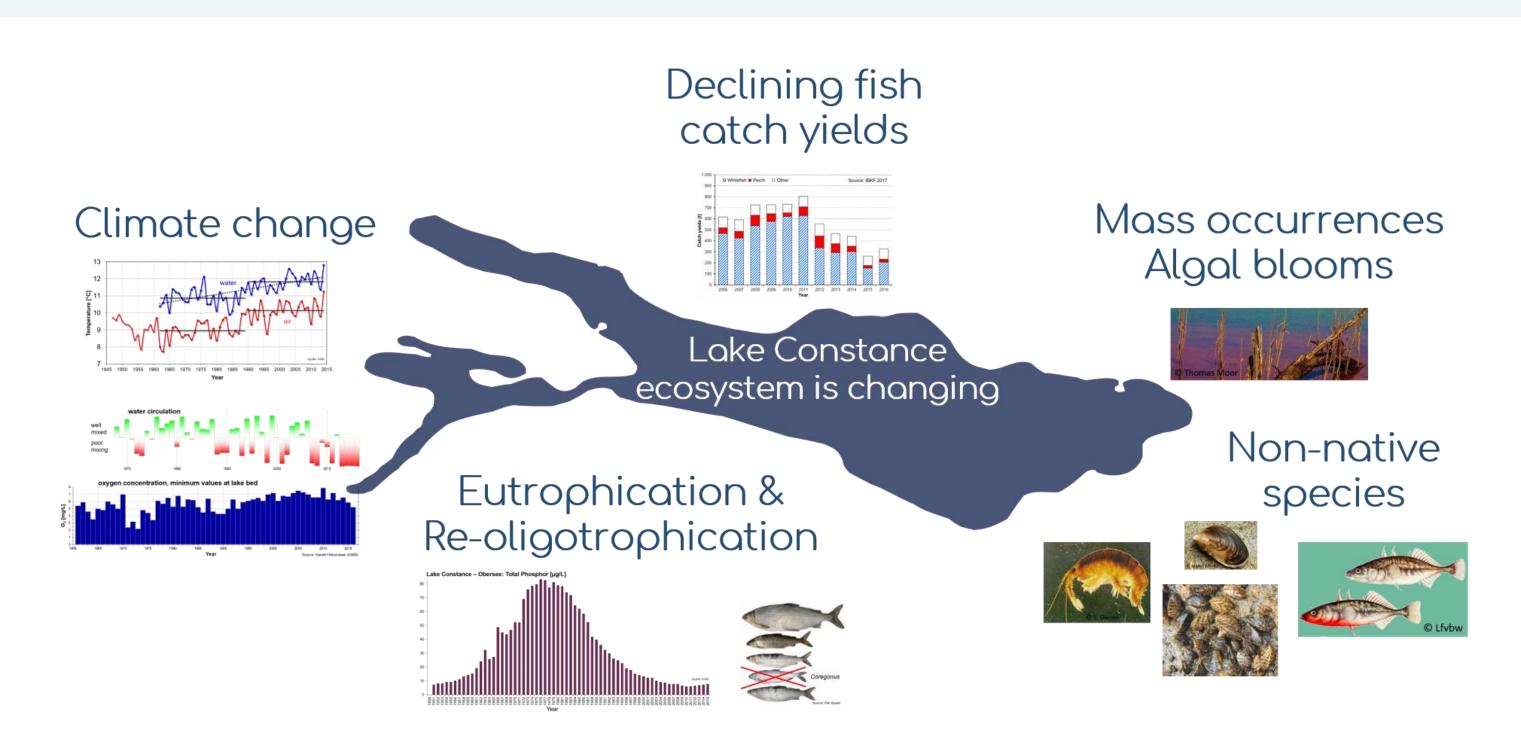
SeeWandel investigates

Effects & significance of nutrient decline, climate change, non-native species & other stress factors for the Lake Constance ecosystem, its biodiversity & functioning, & utilisation of lake resources by people.



Fact sheet

- Official Start January 2018
- Project duration 4.5 years (until end of June 2022)
- 7 research institutions in 3 countries (Germany: Uni Konstanz, Uni Hohenheim, FFS-LAZBW, ISF-LUBW; Austria: Uni Innsbruck; Switzerland: Eawag, UZH)
- Total budget 5.65 million Euros
- Funding: EU Funds (Interreg Alpenrhein-Bodensee-Hochrhein / EU Fund for Regional Development) covering 40% of CH-budget & 60% of EU-budget, complemented by other external resources & in-kind contributions

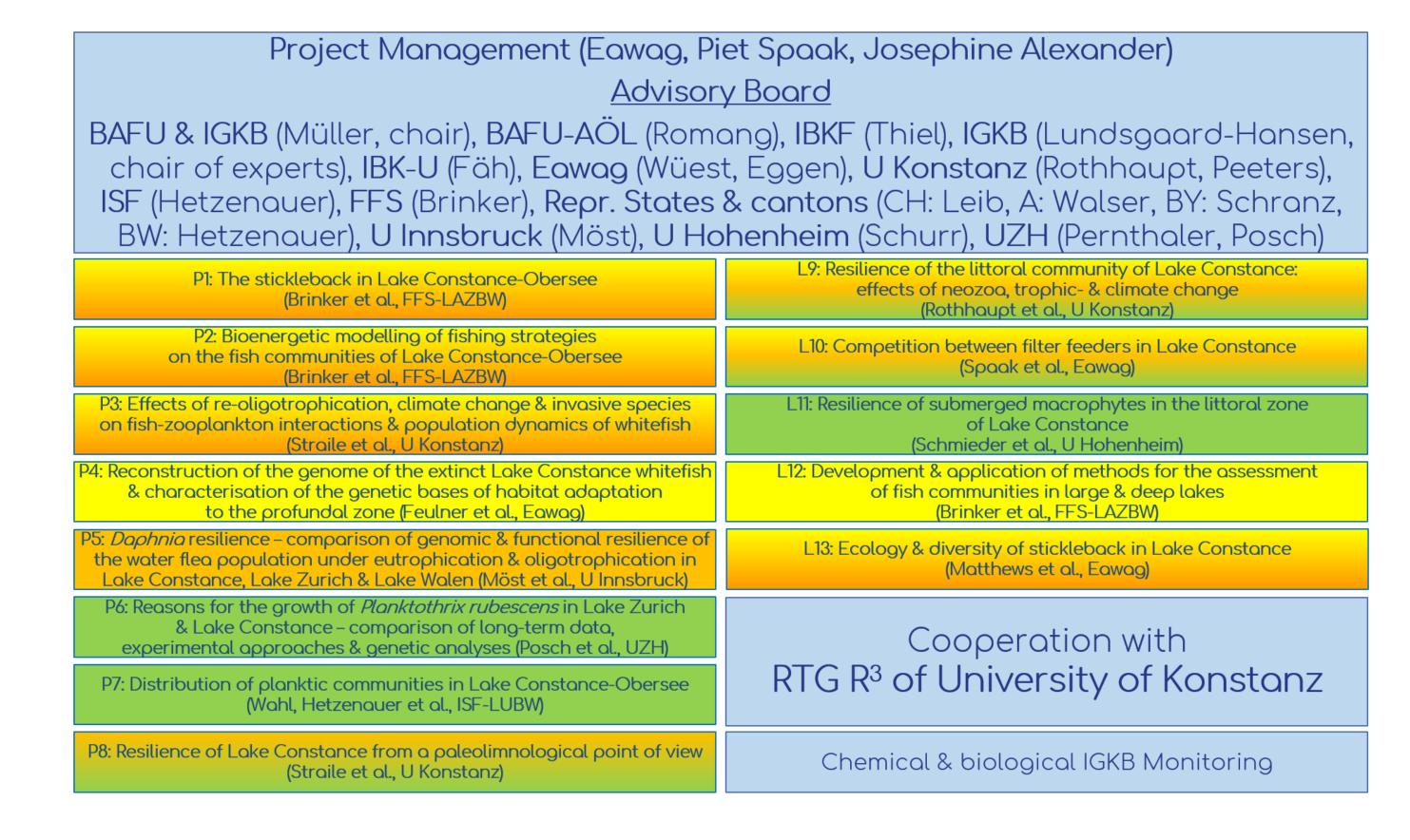


Severe pollution in 1950-80s, with irreversible changes to aquatic communities. Climate change & non-natives (> 37 at present) are potential threats to natural biodiversity, changing food webs & affecting ecosystem functioning, as well as affecting economic aspects (e.g. catch yields of fisheries, maintenance costs of municipal water suppliers).

Project aims

- To improve process-based understanding of pelagic & littoral zone, and understanding of interaction between them
- To improve understanding of food web & functioning of Lake Constance ecosystem
- To evaluate ecosystem resilience, potential changes in ecosystem services & future problems
- To provide basis for water management & politicians to make scientifically informed decisions about future of Lake Constance
- To continuously engage with stakeholders, agencies, local authorities & organisations to incorporate diversity of views, needs & goals in successful development of the project

Organisation & Sub-projects



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