

# Demonstrating how regions can operate within safe ecological and regional **nitrogen and phosphorus boundaries**



# The role of regions in nitrogen and phosphorous management



The GREENHOOD project aims to re-balance nutrient flows to tackle climate change and biodiversity loss. Through zero-pollution solutions, the goal is to reduce nutrient losses in soil, air, and water through innovation, circularity, and novel governance. The potential of innovative nutrient management strategies will be showcased in four basins in Spain, Belgium & the Netherlands, Finland, and Norway. GREENHOOD will contribute to the development of regionally tailored, scalable solutions for nutrient management, ensuring that each solution can be adapted to specific local needs and conditions.



AQUAPHOENIX is working on real solutions to manage N+P emissions and unlock sustainable growth for the aquaculture industry. Through international collaboration, the project aims to develop and demonstrate novel technologies for capturing aquaculture waste and valorising the conversion of that waste into renewable assets like fertilisers, novel feed ingredients, and clean energy. Partners are applying novel scientific, technological, and circular economic approaches to open pen aquaculture in order to advance the transition towards a Zero Pollution Europe.



NPOWER addresses the critical challenge of Nitrogen and Phosphorus (N/P) pollution, which disrupts air, water, and soil ecosystems across Europe. It delivers actionable solutions to reduce N/P emissions, restore regional nutrient balance, and promote sustainable resource use. By deploying cutting-edge N/P recovery technologies, scaling up sector-specific best practices, and implementing tailored governance strategies, NPOWER fosters systemic change. The project establishes four regional clusters in Spain, Belgium, Finland, and Ireland, engaging policymakers and practitioners to ensure adaptable, context-specific solutions.

## Learn more on the Nutrient Balance Cluster projects

