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About the project

The SeaSoil project will promote value creation, including ecosystem services, and further expansion of the seaweed industry in Europe by closing knowledge gaps on potential toxic elements (PTE) in farmed sugar kelp and Arsenic (As) in seaweed material applied to soil for fertilization and enhancement purpose and for Carbon Sequestration and Storage (CSS).

Objectives

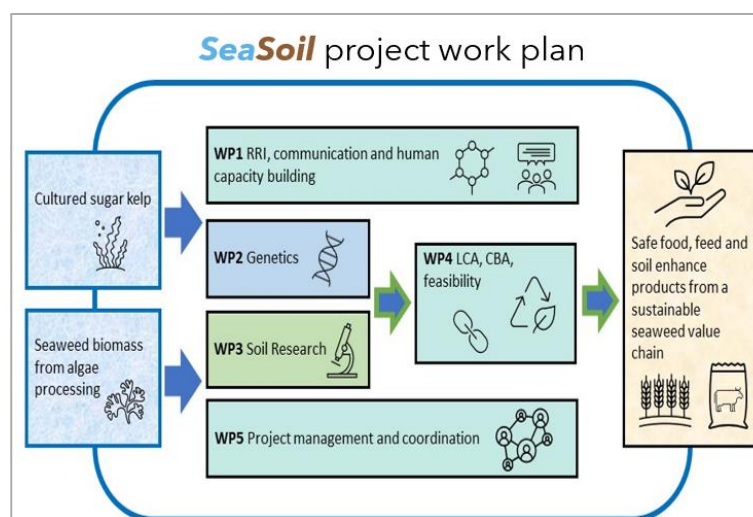
- Estimate heritabilities and genetic correlations in contents of Cd, As and I in sugar kelp (*Saccharina latissima*) from two areas in Norway and evaluate potential selection response of their reduced contents.
- Study the impact of seaweed application rate and water saturation on the As dynamics in soil to determine chemical reactivity and potential bioavailability of labile As using an outdoor container experiment with different soil types and two crops.
- Estimate the potential of seaweed amendments for CSS in agricultural soils.
- Study the impact of seaweed production on the environment (primarily climate change) using LCA and conducting a cost-benefit analysis of the seaweed industry, including ecosystem services.
- Study the economic feasibility, and regulatory incentives, for production and use of (residual) biomass from farmed seaweed.
- Ensure multi-actor approach and integrated cooperation, communication and human capacity building in line within Responsible Research and Innovation (RRI).

Activities

SeaSoil takes a holistic value chain approach, and care will be taken to ensure responsible research and innovation (RRI). Knowledge sharing and transfer from research to industry and to the green and blue food system at large will be facilitated.

WP1 crosscuts the SeaSoil project and provides direct interconnection with all WPs for the real-time implementation of RRI through an interdisciplinary approach.

Synergies with the partners' relevant projects on seaweed will be created through clustering activities.



SeaSoil

Partners

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