

Value creation and ecosystem services of European seaweed industry by reducing and handling potentially toxic elements from breeding to soil

https://bluebioeconomy.eu/value-creation-and-ecosystemservices-of-european-seaweed-industry-by-reducing-andhandling-potentially-toxic-elements-from-breeding-to-soil/



Project consortium includes 2 large enterprises, 2 SMEs and 1 medium enterprise:



Outputs

Genetic parameters in sugar kelp for selective breeding

Advancing to TRL 5

Knowledge on phenotypic measures, and genetic parameters of sugar kelp as basis for selective breeding for different traits (e.g. growth, Potential Toxic Elements (PTE) content).

Arsenic analysis in

soil and crop

samples (experiments)

Safe soil amendment application

Portfolio of

Outputs and Next

steps



Advancing to TRL 5

Fundamental studies to ensure safe application of seaweed and seaweed residues as soil amendments in relation to health and environmental risks completed.

Next Steps

PTE analysis, estimation of phenotypic variance and correlations, interaction between genotype and environment

Carbon sequestration study in soil following application of seaweed amendment

LCA, economic feasibility, costbenefit analysis of ecosystem services, regulatory barriers, incentives Dissemination (interviews, workshops, multistakeholder platform) and human capacity building

