



Portfolio of Outputs and Commercialisation Needs

Seaweeds for Novel Applications and Products

<https://tinyurl.com/ye28268y>



Project consortium includes 1 Small and 1 Large Enterprise:



Outputs

Biorefinery methodologies



TRL 5

Isolation of high-quality polysaccharides such as alginates, cellulose, fucoidans, carrageenans, laminarins.

Upgraded & modified polysaccharides



TRL 4-6

Seaweed based foams and seaweed microsheets.

Seaweed cellulose based biomaterials



TRL 4-6

Novel biopolymer modifying enzymes. Enzymatically and chemically tailored polysaccharides.

Alginate based biomaterials



TRL 4-5

Novel hydrogels for cell cultivation.

Cellulose alginate composite biofibres.

Commercialisation Needs

Establish of sustainable and economically feasible supply chains for raw materials

Scalable processes for biorefining of seaweed

New infrastructures for sustainable processing of biomass

Engagement with industry on further projects to realise innovations

Regulatory framework for seaweed derived products for use in food, feed, and pharma.