

Secondary bio-production of low trophic organisms utilising side streams from the Blue and Green sectors to produce novel feed ingredients for European aquaculture

<https://www.sidestream.info/>



Project consortium includes 2 large enterprises:



# Portfolio of Outputs and Next Steps

## Outputs

Aquafeed ingredients from polychaete worms



TRL 4

Utilisation of solid phase waste materials to produce biomass containing omega 3 long-chain polyunsaturated fatty acids, proteins and functional ingredients.

Aquafeed ingredients from gammarid shrimp



TRL 5

Utilisation of solid phase waste materials to produce biomass containing omega 3 long-chain polyunsaturated fatty acids, proteins and functional ingredients.

Astaxanthin from bacteria



TRL 5

Conversion of liquid waste streams into important pigments and proteins.

Sidestream Circular Model



TRL 6

Evidence of sidestream circular model sustainability for further upscaling actions.

## Next Steps

Engagement with industry

Upscaling of biomass production

Regulatory aspects of circular aquafeed ingredients

Upscale studies for pigment production via bacteria bioconversion process

Feed production and commercial exploitation