



SUSTAINABLE SEAFOOD & MARINE BIOTECHNOLOGY

Increasing the national consumption of marine seafood and unlocking the potential of marine biorefining

Version of January '22

OPTIMISATION OF (LOCAL) SUPPLY CHAIN

Storage & transport	Locally sourced propagating materials & stocks
<i>Development of eco-efficient processes and technologies for storage & transport of biomass</i>	<i>Securing of local stocks of propagating and breeding materials with a view to ensuring the quality, safety and volumes</i>
Topics <ul style="list-style-type: none"> Eco-efficient stabilisation and separation methods (Pre)processing on vessels Transport systems for propagating materials Offshore storage methods Technology development for fishing vessels, e.g. on-board sensors ... 	Topics <ul style="list-style-type: none"> Land-based multispecies hatchery Nearshore nursery Selective breeding of species Quality control of native species Local gene bank Autonomous measurement systems for stocks Mitigation methods for harvest losses, bycatch ...

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INNOVATION IN PRODUCTION SYSTEMS

Multiple use	Aquaculture 2.0	Sustainable seeding & harvesting systems
<i>Investment in integration of fishery or aquaculture techniques with other user functions</i>	<i>Investment in innovative materials, technology and data management in cultivation systems</i>	<i>Implementation of methods or technologies for seeding and harvesting biomass more sustainably and efficiently</i>
Topics <ul style="list-style-type: none"> Integrated management and maintenance Multitrophic systems Production of seafood in offshore wind farms Ecosystem services provided by aquaculture (e.g. wave attenuation and nature restoration) Risk management and insurance Support for creation, stakeholder management ... 	Topics <ul style="list-style-type: none"> Development of sustainable substrates, materials and anchoring Data transfer, data streams and proxies Monitoring systems, drone technology Legislation and regulations for offshore aquaculture Business models and venture capital Offgrid power supply Modular systems Remote control ... 	Topics <ul style="list-style-type: none"> Automation techniques Predictive harvesting Passive fishing and sea ranching Innovative fishing techniques / gear Fish and bottom-dweller detection techniques Continuous, year-round production Bio-economic models ...

MARCOS

SYMAPA

UNITED

Wier & Wind

PERSUADE

BIOGEARS

NEW VALUE CREATION PATHS

Bio-prospecting	Bio(tech) products
<i>Screening marine species for exploitable components with high-value applications</i>	<i>Development of refining and production schemes and marketing of marine (biotech) products</i>
Topics <ul style="list-style-type: none"> Screening for bio-active components Screening for new orthologous genes New species as a result of climate change Roadmaps for biorefining of marine organisms Zero-waste concepts Prediction toolboxes Marine databases (DNA, index cards, footprint ...) ... 	Topics <ul style="list-style-type: none"> Value chain analysis New market outlets, business cases Adding value to bycatch from fisheries or aquaculture Feasibility of food (e.g. protein) and non-food applications (e.g. platform chemicals, biofuels) In vivo and in vitro testing for aquaculture Blue health ...

PROBIO

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