BlueRev

Bio-based revitalisation of local communities

Blue resources and circular economy pathways as a solution to improve social and economic sustainability.

Training directed to increase small-scale establishments in the bioeconomy.





BlueRev Concept and Methodology



- Analysis of social innovation process
- Analysis of business models
- Analysis of the governance models
- Enviromental assessment
- Repository of existing practices
- Alternative solutions
- Indicators



Engagement of stakaholders in co-creation of nem solutions



 Case studies demonstration Training/Coaching programme



- Communication and Dissemination
- Replication throughout Europe

- Engagement of stakaholders in co-creation of nem solutions
- Stakeholders Board Local actors (Pilot Regions)
- Workshops, web-based platform
- 3 Local workshops to transfer new solutions to all stakeholders
- 2 Best practices guidelines for small businesses







Cerca

Prodotti alimentari, agricoltura, pesca

Oceans and fisheries

Scegliere un'altra lingua 🗸

Traduci questa pagina

Home > Sustainable oceans > Blue economy > Skills and career development

Skills and career development

Our coasts and seas have the potential to deliver sustainable growth and jobs in the coming years and contribute towards the Green Deal objectives. This will only be possible if we invest in new, blue skills and career development.



- reduce skills gap between education offer and labour market needs
- improve communication and cooperation between education and industry
- · improve the attractiveness and awareness of career opportunities in the blue economy
- · improve the ocean literacy culture at the basis of it all

Actions

1. Blue careers in Europe of

What is Co-Design?





blue Med ACTING FOR THE MED SEA

The BlueMed Implementation Plan

Priority

exploring the potential of

blue biotech



Operational receipts

Increase and improve the **knowledge** on the Mediterranean Sea

source of new molecules

deriving from marine microbes, algae, seaweeds and invertebrates

new drugs, functional ingredients for **human health**, **industry** and **environmentally-applicable** molecules or organisms.

Fostering

collaborative research

through transdisciplinary fields of expertise (e.g. genomics, data bases, outreach, economics) to evaluate Blue Biotechnologies for their

economic impact

as a growing field, and promote:

- (I) the concept of industry-academia partnerships as a win-win collaboration
- (II) education through training the next generation of marine biotechnologists.

Create, improve, share or implement

dedicated regulatory frameworks and policies

on the use and exploitation of Mediterranean Sea bio-resources and/or biomasses for biotechnological purposes

and to **share** such common policies and practices among all the actors of blue-

Strategic Action

Panoramed Innovation Project on Blue Bioeconomy towards a strategic Alliance for Blue Bioeconomy in the Mediterranean

Promotional Actions

Thematic conference on Mediterranean Blue Biotech

Training course on Blue Biotechnologies and Blue Bio-economy aiming at the creation of blue careers

http://www.bluemed-initiative.eu/strategic-research-and-innovation-agenda/#prioritization

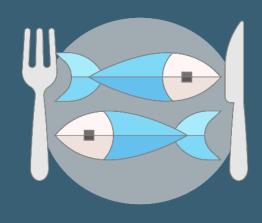


blue Med ACTING FOR THE MED SEA

The BlueMed Implementation Plan

Priority

support solutions for sustainable production and consumption food from the Sea



Operational receipts

Protect marine biota as a new source of proteins for human consumption

Develop Mediterranean aquaculture

Study the best processes to adapt aguaculture diversify in a changing environment

Rethink the approach to the management of by-products by-catch

Assess

Fish Stocks holistic frame

taking into account climate change and alien species diffusion



Strategic Action

Call of calls on biodiversity and resources

Promotional Actions

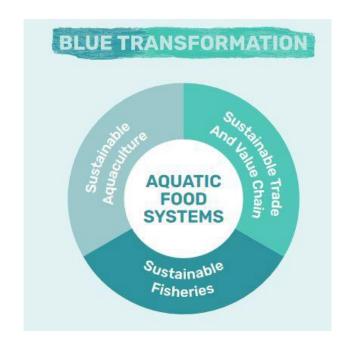
Capacity building activity on artisanal fisheries connecting with the possible scale-up of the BlueMed Start-up Action LabMaf

Workshops to share BlueMed information about production of food from the sea, consumption and security.

Coordination Workshop to develop Strategies and Plans designed for sustainable fishing, aquaculture and seafood

Exchange of best practices and dissemination between Mediterranean countries on good food practices to society





FAO'S STRATEGIC FRAMEWORK 2022-2031



BETTER PRODUCTION

BP1 Innovation for sustainable agriculture production
BP2 Blue Transformation
BP3 One Health
BP4 Small-scale producers' equitable access to resources
BP5 Digital agriculture



BETTER NUTRITION

BN1 Healthy diets for all BN2 Nutrition for the most vulnerable BN3 Safe food for everyone BN4 Reducing food loss

and waste
BN5 Transparent markets
and trade



BETTER ENVIRONMENT

BE1 Climate change mitigation and adapted agri-food systems BE2 Bioeconomy for sustainable food and agriculture BE3 Biodiversity and ecosystem services for food and agriculture BE4 Achieving sustainable urban food systems



BETTER LIFE

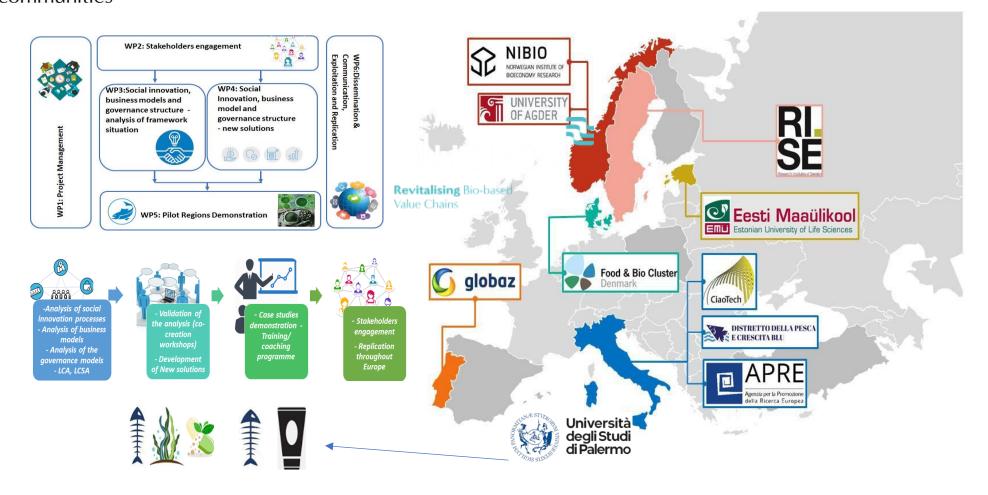
BL1 Gender equality and rural women's empowerment BL2 Inclusive rural transformation BL3 Agriculture and food emergencies BL4 Resilient agri-food systems BL5 Hand-in-hand initiative BL6 Scaling up investment



Bio-based revitalisation of local communities

HORIZON-CL6-2021-GOVERNANCE-01-09

Revitalisation of European local communities with innovative business models and social innovation in the blue bio-based sector.



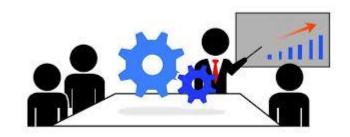


Enterprises

Waste management











Pilot regions demonstration increased opportunities to develop skilled jobs

Task 5.2 Training programme to increase skilled jobs opportunities and small-scale establishments in the bio-based sector: (Task leader: UNIPA)

28-29 September 2022

Pilot regions demonstration increased opportunities to develop skilled jobs

UNIPA - Training directed to increase small-scale establishments in the bioeconomy

Topic: best practices for characterisation and selection of fish by-products (FBP) and co-products (FCP) from fishery, aquaculture and processing plant, to be applied at industrial level (3 LESSONS).

Target participants: associations of producers (fishermen, fish processors, algae growers/collectors/processors).

UNIPA - Training/coaching programme to increase skilled job opportunities.

Topic 1: Methods for extraction of bioactive compounds from FBP and FCP from pilot to industrial scale (3 lessons).

Topic 2: Valorisation of bioactive compounds from FBP and FCP in cosmetics, nutraceuticals and pharmaceuticals (3 lessons).

Target participants: master and PhD students in chemistry, biochemistry, marine biotechnology.









EMÜ, UiA- Training directed to increase small-scale establishments in the bioeconomy and to increase skilled job opportunities.

Topic: Business development tools that students/employees in all disciplines can utilise to work systematically with operationalisation of the UN Sustainable Development Goals in their ideas and start-ups (3 lessons). Target participants: master and PhD students in agro-food technology, economy, bioeconomy and associations of producers (fishermen, fish processors, algae growers/collectors/processors).

APRE- Training directed to increase small-scale establishments in the bioeconomy

Topic: empowering the small business with the knowledge, tools and practical examples of how to effectively communicate when addressing consumers (4 webinars).

Target participants: associations of producers (fishermen, fish processors, algae growers/collectors/processors).

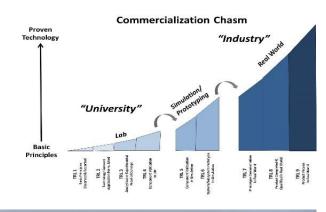


Unipa Transfer of technology to the industry

















INDUSTRIAL PROCESS









By-products of farmed European sea bass (*Dicentrarchus labrax* L.) as a potential source of n-3 PUFA

Concetta M. MESSINA¹, Giuseppe RENDA², Laura LA BARBERA² & Andrea SANTULLI^{1,2}

FASE I Componenti non edibili Omogeneizzazione Idrolisi enzimatica **Filtrazione** Centrifugazione in Recupero idrolizzati continuo ad alta velocità proteici Recupero olio grezzo **FASE IV** Ultrafiltrazione **FASE II: Raffinazione** Degumming Peptidi 30, 10, 5, 3 kDa Deacidificazione Bleaching Deodorazione **FASE III: Arricchimento** Etanolisi Distillazione molecolare/Urea **PUFA concentrati**











Economic goals



Awareness & Engagement
CO-CREATE & IMPLEMENT ACTIVITIES



Future vision & Pathway
CO-CREATE FUTURE VISION





INTERNATIONAL PROJECTS



Biotechnologie marine vecteur d'innovation &qualité



Sécurité et qualité des produits aquacoles: le développement d'une voie commune tuniso-sicilienne



Méthodologies Durables pour la Réhabilitation et la Valorisation du Litoral Cotier



Le developpement durable dans la production énergetique dans le territoire



Culture du bâti de qualité: Recherche, Innovation et Enterprise pour la Durabilité" (CUBATI)

TRAINING ACTIVITIES













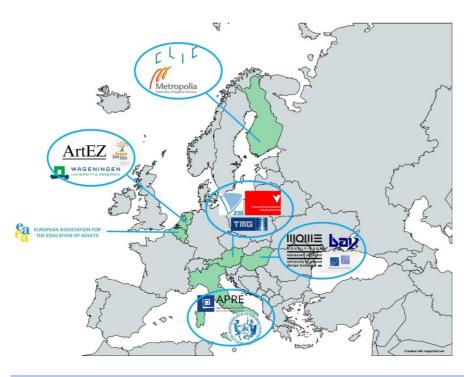






HORIZON-CL6-2021-GOVERNANCE-01-08

«Better understanding and intensified engagement in bio-based systems with fostering training and skills development -"





ManagementAwareness & Engagement CO-CREATE & IMPLEMENT ACTIVITIES



DEVELOP & IMPLEMENT ADAPTED TRAININGS

Future vision & Pathway CO-CREATE FUTURE VISION

Analyse&Understand& Include FEEDSTOCK, NEEDS, ATTITUDES, ART&CULTUR

Upscaling...

ATTRACTING MULTIPLIERS AND FOLLOWERS (DISSEMINATION) **EXPLOITATION**

Engagement

IMPLEMENT CO-CREATED INNOVATIVE ACTIVITIES (TRAINING, AWARENESS)

Co-create

APPLY PARTICIPATORY PRACTICES INCLUDING ALL **ACTORS**

Dissemination activities Kommunikation of insights and results guidelines/recommendations for implementation **Exploitation via Multipliers and Replicators**

Implementation of co-created activities for training, awareness, knowledge gain to increase informed decision making and boost, targeting society to SMEs;

validation of outreach activities manual for transferable results considering specificities of European regions

Co-creation and application o human-centred principles involving all actors;

4 participatory workshops for regions to cocreat activities involving arts and culture

Understand

INNOVATION GOVERNANCE MODELS

specificities of 5 regions, analysis of potentials, chances and barriers Understanding of art and culture integration for bioeconomy co-creation for innov.

Taking stock of economic, social, technical

governance models

Incl. 5 associated regions, ensuring transferabilty, uptake and impact

ITALIAN HUB

- social engagement,
- local specificities (marine resources)
- implementation of sustainable bio-based value chains
- social innovation inclusion of marginalised groups













A Transnational movement to support the sustainable transition towards a healthy and Eco-friendly Agri-Food System through the promotion of MEDIET and its lifestyle in modern society



Modern & optimized MedFood recipes and tailored MedLifestyle programs





OVERALL GOAL

Supporting education, research, technological development

Increasing

the awareness of the territories to innovative solutions for the recovery of marine waste and make them usable by society

cand innovation

a cross-border Research & Innovation alliance (BB) for the sustainable recovery of marine by-products **Promoting**

stronger research and teaching collaboration between laboratories in the cross-border region on biotech 2

ARIBiotech Alliance de R&I en Biotechnoligie bleue pour la valorisation des déchets marins

Reporting

Communicating the state of the art on research and innovation in applied biotechnology to recovery marine byproducts and dredged sediments.

3



innovazione e **s**ostenibilità a**m**bientale delle produzioni aliment**ar**i da organismi acqua**t**ici in Sicilia

Partecipanti

- Aziende Siciliane del Settore della pesca dell'acquacoltura e della trasformazione
- Istituti di ricerca

Living lab Smart

Attività:

- Formazione
- Animazione
- Trasferimento tecnologico
- Promozione
- Diffusione dei processi e dei prodotti innovativi co-creati

Obiettivo:

Costruire un Ambiente di Innovazione Aperta.

Co-creazione, esplorazione, dimostrazione e valutazione in ambiente reale di:

- soluzioni innovative
- innovazioni di prodotto e di processo















LivingLAB

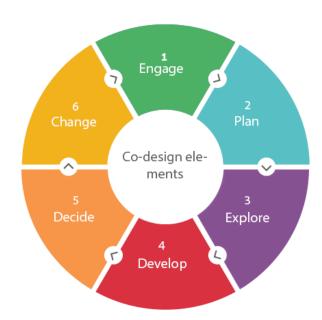
ecosistemi open e centrati sull'utente, in grado di accelerare l'adozione su larga scala di tecnologie innovative e servizi co-creati con gli utenti stessi (Commissione Europea).

- Approccio sperimentale in un contesto di vita reale;
- Partecipazione e coinvolgimento degli stakeholder;
- Collaborazione e co-produzione di conoscenza.



Design thinking, co-creazione, approcci partecipativi, spazio open





















Participation Allows for more input at the design stages, including defining the agenda or the design

activities.



Living lab Smart













Co-production

Participants are treated as equals and have an equal say in deciding the project goals and outcomes.



Provides more



Involvement

opportunity for input into decision-making, but not agenda setting.



Social sustainability goals



Environmental goals



Economic goals



Consultation

Participants are informally asked for their opinions, perspectives, ideas and concerns.



Participation

Least

Most



Living lab Smart













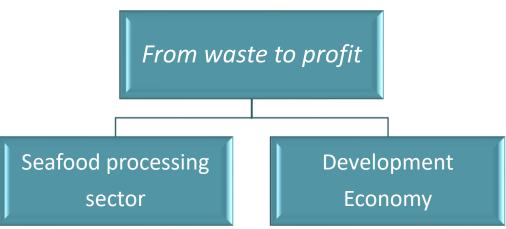


Bio-based revitalisation of local communities

LCA, BUSINESS model, SOCIAL INNOVATION, GOVERNANCE

Expectations from BlueRev











SO6 increase skilled jobs opportunities and small-scale establishments in the bio-based sector