

# *ADRION Thematic Cluster On “Blue Growth And Related Smart Growth”*



**THEMATIC CLUSTER  
COORDINATOR**

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**3<sup>rd</sup> ADRION ANNUAL EVENT & 2<sup>nd</sup> CAPITALISATION EVENT**

# Thematic Cluster

## “Blue Growth and related Smart Growth”

### **10 PROJECTS-24 PARTICIPATING PARTNERS**

**NEORION:** Green Shipbuilding

**SHIPMENTT:** IP & Technology Transfer in Green Sea Mobility

**BLUE BOOST:** Boosting Innovation of BG Sectors

**OIS-AIR:** Open Innovation System

**ARIEL:** SSF& AQ

**POWER:** Ports as driving Wheels of Entrepreneurial Realm

**SEADRION:** Seawater Heat Pump technology (SWHP)

**FUTURE 4.0:** Education & Training Model for Industry 4.0

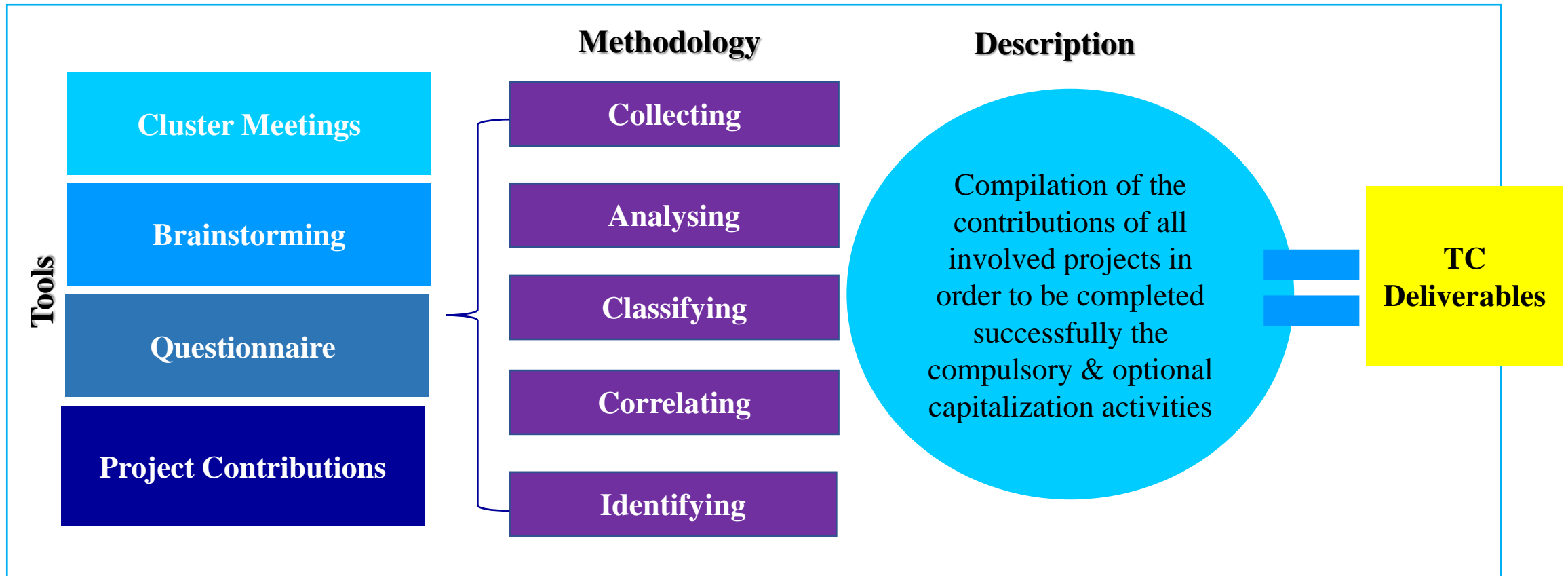
**BIOECO R.D.I:** BIO-Economy

**ECO-NAUTINET:** Network’s Support for SMEs in the Nautical Sector

Thematic Cluster on  
Blue Growth and related Smart  
Growth



# Methodology



# Capitalization Activities

Compulsory

Organization and participation to at least **3 Cluster Meetings** with the involvement of all projects of the respective cluster

April, June & October 2020  
**3 Meeting Minutes**

**Participation to the ADRION Annual Event** and/or ADRION capitalization events to present the outcomes of the capitalization activities

**December 2020**

Contribution to the update of the **new ADRION web section** on clusters

**6/6 Newsletters**

Optional

Preparation of the **Policy Report** with scientific recommendations for influencing the policy debate in the BG & related Smart growth

**Policy Report**

Identification /elaboration of **Project Ideas** to be financed in the framework of the next programming period

**Project Ideas Report**

<https://www.adrioninterreg.eu/index.php/2020/03/04/adrion-thematic-cluster-on-blue-growth-and-related-smart-growth/>

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# Key Policy Recommendations

## EUSAIR Pilla1:Topic 1:Blue Technologies

<b>Green Shipbuilding</b>	<ul style="list-style-type: none"><li>• Adoption of IMO environmental rules in the Macro-region</li><li>• Invest in green shipbuilding innovation (new technologies)</li></ul>
<b>Industry 4.0 Shipbuilding Industry</b>	<ul style="list-style-type: none"><li>• Continuous update of education &amp; training according to Industry 4.0</li><li>• Integrate digital technologies into the Supply Chain, as well as cooperation with universities for R&amp;D</li></ul>
<b>Bio-Economy Blue Biotechnology</b>	<ul style="list-style-type: none"><li>• Promote the active participation of entrepreneurs in bio-economy application</li><li>• Basic and applied research with knowledge transfer &amp; consulting, towards entrepreneurial applications, for bio-economy &amp; aquaculture.</li></ul>
<b>Business Development &amp; IP Green Sea mobility</b>	<ul style="list-style-type: none"><li>• Improving coordination with national institutions in charge for creating a business enabling environment.</li><li>• Adoption of adequate legislation &amp; creation of strategic framework for business development</li><li>• Introduction of entrepreneurship and IP related topics in formal education programmes</li><li>• Assistance to SMEs in developing IP Strategy prior to taking any action related to IP issues.</li></ul>

# Key Policy Recommendations

## EUSAIR Pilla1: Topics 1&2 :

### Blue Technologies-Fisheries & Aquaculture

#### MRE Seawater Heat Pumps

- Inclusion of SWHP in ROPs, national funding programmes & RIS3 or in Green Public Procurement.
- Capacity building activities to address market needs for qualified professionals.
- Counteract both overregulation & the lack of specific policies in the field
- Introduction of multi-source energy systems, (e.g. photovoltaic/thermal cogeneration)
- Promotion and diffusion of technology to targeted end-users (medium to large consumers)

#### TOPIC 1

#### Small –scale fisheries & Aquaculture

- Improve data collection for SSF and AQ at regional and transnational level
- Support innovation brokering facilitating a bottom-up process & providing common tools for networking & partnering
- Co-management & involvement of SSF and AQ representatives in shaping the Actions Plans for the next programming period.
- Supporting the setting-up of a training programme for periodical upgrading and building capacity

#### TOPIC 2

#### Fishery & Aquaculture Waste Management

- Promote novel technological applications of fishery & aquaculture waste management.
- Support fishery cooperatives, fish processing industry, aquaculture industry with structured knowledge transfer on management of waste deriving from their activities

# Key Policy Recommendations

## EUSAIR Pillar 3: Maritime and marine governance & services-Cross-sectoral

### Ports

- Supply of energy to ships during the docking phase in the port
- Energy data collection & analysis
- Efficient distribution of LNG
- Implementing RES production
- Roofs to produce energy from the bound or dated buildings
- Efficient lighting/equipment management
- Zero energy mobility for tourists

**TOPIC  
3**

### R&D

- Promote the alignment of research activities with the most promising thematic priority areas
- Facilitate the transnational collaboration among R&D players working on the same topics

**Cross-  
Sectoral**

### Innovation

- Know-how transferring within & towards the business community by enhancing a regional & transnational innovation environment.
- Supporting innovation within BE and BG sectors through the set-up of targeted investment & funding programmes.
- Scaling up innovation processes at transnational level by enforcing multistakeholders' networks

# Project Ideas

## Low Emission Energy Supply & Production- Sustainability /Blue Biotechnology

- Production of electricity from RES in Shipyards
- Green Hydrogen infrastructures in ports, inland terminals, etc.
- Cluster of zero emission modular drone ships for fishing, aquaculture and sea operations
- Development of hybrid installations for marine & offshore wind energy combined with aquaculture, fish-farming, etc.
- Development of new technologies able to produce alternative fuel
- Use of marine biotechnology to develop concrete prototypes & processes in the societally relevant fields: health and wellbeing, food & feed, environment.
- Utilization of new materials

## Knowledge Transfer

- Mapping competences & innovative skills
- Elaborating innovative learning models & tools
- Experiment new approaches for Knowledge transfer for innovation

## Digitalization & Innovation

- Digitalization of naval industrial & fishing activities
- ICT solutions for production processes
- Digital terminal and smart gates
- Using AI and Big Data in Maritime technologies



# Project Ideas (cont.)

## Fisheries & Aquaculture

- Development of Private Certification Protocol for fish freshness and quality
- Seaweed cultivation in integrated multi-trophic aquaculture
- Fish oil and fishmeal substitution in aqua feeds: Use of alternative sources
- Promotion of initiatives for rational use of waste and by-products deriving from fisheries and AQ
- Utilization of electric/hybrid vehicles for fishing
- Fostering SMEs cooperation in seafood farming

## Alternative Financing for Blue Technologies

- Map access opportunities to alternative investments, such as crowdfunding or matchfunding, for SMEs who aim to invest in Blue technologies.
- Specific business plan solutions
- Public private partnership

## & Other Pillars

- Mobility of tourist flows
- Multi-modal transport for goods
- Harmonizing the state of affairs caused by COVID 19 (e.g. Tourism recovery)
- Funding constant update of the S3 analysis at macro regional level to get updated insights on the innovation potential
- Urban regeneration through temporary uses
- Smart sensors & platforms for pollution monitoring

# Benefits & Added values

1. Help increase the promotion of the projects in a more strategic way: Capitalization, dissemination, promotion and upgrading the results of the projects
2. Synergies amongst projects
3. Exchange of data, information, practices & knowledge in order to improve output's quality
4. Identification of common goals
5. Development of policy recommendations for influencing the policy debate in the topic of Blue Growth & related Smart Growth
6. Identification of new areas

For more information about the ADRION Thematic Cluster on **Blue Growth and related Smart Growth** visit the Cluster Webpage:  
<https://www.adrioninterreg.eu/index.php/2020/03/04/adrion-thematic-cluster-on-blue-growth-and-related-smart-growth/>

*Thank you for your Attention*

**THEMATIC CLUSTER  
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