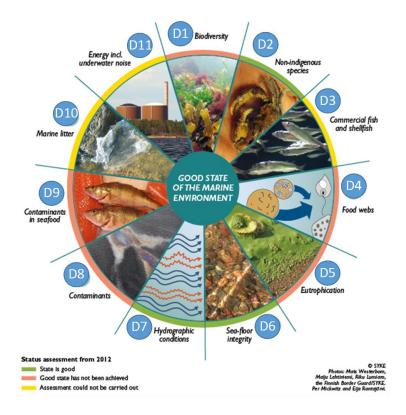
THE NATIONAL TECHNOLOGICAL CLUSTER BLUE ITALIAN GROWTH

THE ACTION PLAN FOR THE PROMOTION OF INNOVATION IN THE BLUE ECONOMY SECTOR





- TO CREATE A COMMUNITY OF NATIONAL IMPORTANCE IN THE CONTEXT OF THE ECONOMY OF THE SEA;
- TO PROMOTE INNOVATION-DRIVEN BLUE GROWTH, MAKING A PRIVATE AND PUBLIC RESEARCH SYSTEM;
- TO ENCOURAGE THE INTEGRATION OF EXISTING INFRASTRUCTURES AND SKILLS



ECONOMIC DEVELOPMENT STRONGLY DRIVEN BY INNOVATION IN THE FACE OF UPKEEP OF NATURAL CAPITAL (GOOD ENVIRONMENTAL STATUS)

BIG - NATIONAL TECHNOLOGICAL CLUSTER MISSION





- To generate roadmaps and technological scenarios;
- To align and integrate regional and national roadmaps and R&I actions with European and Mediterranean ones;
- To support the development of informed policies towards policy makers;
- To support the address of funds dedicated to industrial research;
- To promote the system of research infrastructures of interest;
- To promote internationalization;

BIG - NATIONAL TECHNOLOGICAL CLUSTER MISSION





85 members operating in the field of sea economy and representing the entire Italian supply chain and 12 Italian regions:

- 7 large companies,
- 4 medium-sized companies
- 8 small companies
- **13** micro companies
- **4** Business Networks
- 9 Regional Clusters
- 26 Universities
- 7 Other research organizations

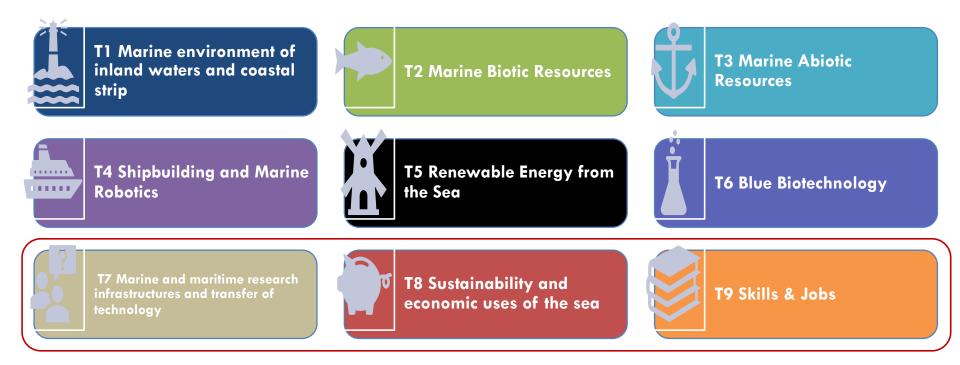
7 Organizations and Entities operating in blue economy

12 Italian Regions - Basilicata Region, Campania Region, Emilia Romagna Region, Friuli Venezia Giulia Region, Liguria Region, Puglia Region, Sicily Region, Tuscany Region, Veneto Region, Lazio Region, Lombardy Region and Calabria Region

BIG - NATIONAL TECHNOLOGICAL CLUSTER







TRAJECTORIES





Circular Blue Economy

-Beyond the linear production model «take, make, dispose»; -Developing interconnected economic systems aimed at: Rehabilitating and regenerating the natural capital; Reducing wastes; Enhancing efficiency (materials and energy) Keeping products at their maximum utility

<u>Axes of the proposal</u>: Innovative fish supply chain: product traceability, fish waste valorization, Decabonizatio of the cold chain;

Integrated resource management: water, wastes ad potential components for reuse (marine litter);

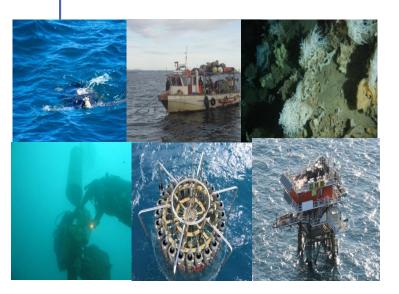
Responsible tourism: digital logistics, sustainability of transport & fishingboats;

Resilience of marine landings, growthof new businesses and new professional skills

PROJECT



PROJECT ITEM TECHNOLOGICAL INNOVATION FOR THE PROTECTION AND ENHANCEMENT OF MARINE ECOSYSTEMS



Source: Item project

Partners: (1) CNR, (2) CONISMA, (3) OGS, (4) SZN, (5)INGV, (6) ENI, (7) E-GEOS, (8) ITALBIOTEC

ITEM aims to prepare the measures and planning necessary for the development of new technologies to bridge the Italian technological gap and the experimental validation of available technologies for the protection and enhancement of marine ecosystems.

- Gap Analysis
- Testing technologies to monitor impacts from O&G infrastructures
- > **Design new technologies** for:
 - ✓ Observing the marine environment
 - Sustainably exploit biotic and abiotic marine resources
 - Applying blue biotechnologies to environmental remediation and biobased industries

Addressing sustainable use of the

sea



PROJECT TEOREMA TECHNOLOGICAL SOLUTIONS FOR MULTI-OBJECTIVE OFF-SHORE ENERGY PLATFORMS



TEOREMA is focused on Blue Economy (Marine and Maritime Economy). In particular, it is related to the following technological research lines:

- 1. Renewable Marine Energy
- 2. Blue Biotechnologies
- 3. Marine Environment and Coastal Areas
- 4. Shipyard industry and marine robotics.

Partners: (1) Consiglio nazionale delle Ricerche (CNR), (2) National Agency for New Technologies, Energy and Sustainable Economic Development (ENEA), (3) Politecnico di Torino (POLiTO), (4) Enel Green Power (EGP), (5) Fincantieri Oil & Gas, (6) Wave for Energy (W4E)

Main objective: to define the concept for two different technologically innovative offshore platforms for energy production from wind, solar radiation, waves and Microbial Fuel Cell



Source: IHSReport, 2016)



03

O1 TECHNOLOGICAL ROADMAPS AND INNOVATIVE DEVELOPMENT OF THE SPECIALIZATION AREA

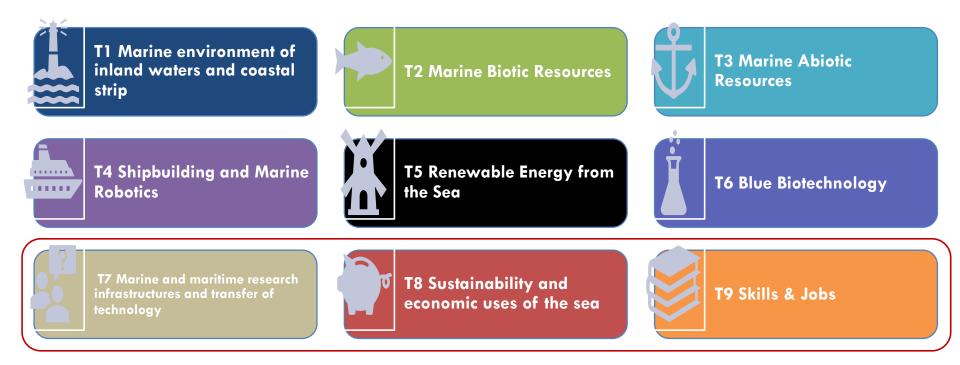
02 ACTIVITIES SUPPORTING THE REALIZATION OF TECHNOLOGICAL ROADMAPS AND DEVELOPMENT AND CREATION OF AN INDUSTRIAL RESEARCH COMMUNITY

MEZZOGIORNO

ACTION PLAN Structure

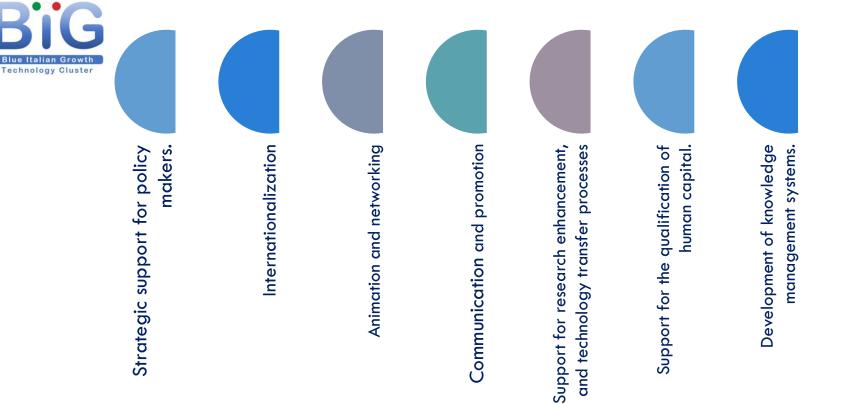






TRAJECTORIES







SUPPORT ACTIVITIES



alian Growth blogy Cluster	Actions
CORE ACTION	Action 1: Coordination and piloting of the strategic consortium
LOBBYING &THINK TANK	Action 2: Creation of a permanent advocacy platform
	Action 3: Establishment of a coordinated monitoring of guidance and analysis activities for financing opportunities
	Action 4: Establishment of an ad hoc international monitoring observatory
DISCLOSURE	Action 5: Participation and animation within national and international boards
	Action 6: Participation and organization of networking and promotion events
	Action 7: Creation of an interchange web platform
SUPPORT FOR MEMBERS FOR R&D	Action 8: Endorsement and promotion of the development of advanced training programs
	Action 9: Support to open innovation & intellectual propriety processes
	Action 10: Establishment of an Innovation challenge among the members

SUPPORT ACTIVITIES







The strategic role of Southern Italy in the Mediterranean



Reference scenario of the specialization area for Southern Italy



Internationalization and investment attraction



Cooperation and collaborations



Support for research enhancement, innovation and technology transfer processes



Support for the qualification of human capital

MEZZOGIORNO









Proposals to improve competitiveness

Proposals for supporting the qualification of human capital Proposals for mapping implementation

Cooperation proposals and collaborations

MEZZOGIORNO FRAMEWORK FOR ACTIONS





Thanks for your attention

CLUSTER TECNOLOGICO NAZIONALE BLUE ITALIAN GROWTH

