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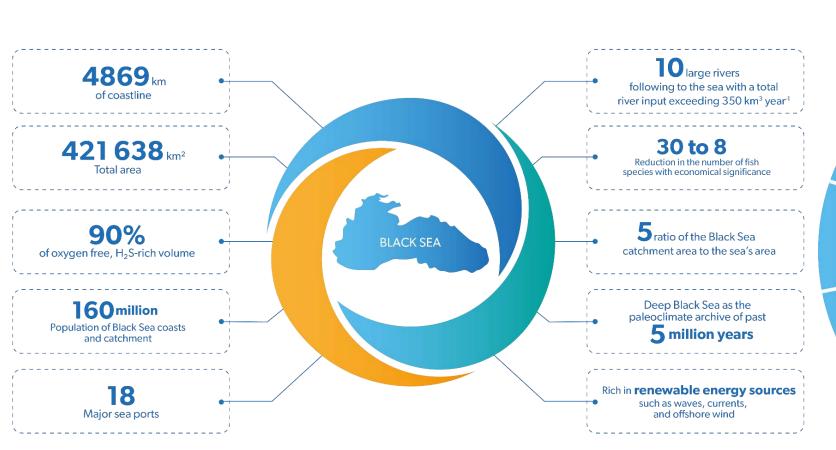


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BRIDGE-BS



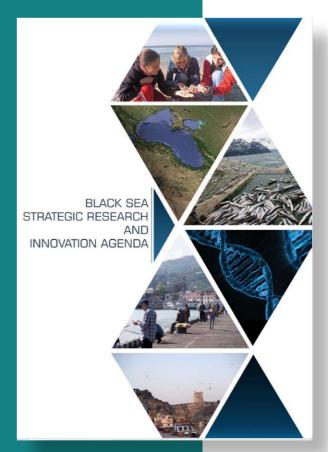
THE UNIQUENESS OF BLACK SEA





Black Sea Strategic Research and Innovation Agenda





Knowledge Bridge
Addressing fundamental
Black Sea research
challenges

Empowered Citizens & Enhanced Blue Workforce
Education and capacity building

4 PILLARS OF THE BLACK SEA SRIA Black Sea
Blue Economy

Developing products, solutions, and clusters underpinning Black Sea Blue Growth

Key Infrastructures & Policy Enablers

Building of critical support systems and innovative infrastructures



THE STRATEGIC RESEARCH AND INNOVATION AGENDA



WHAT IS THE SRIA?

- A reference framework
- Programmatic tool



KEY OUTPUTS OF SRIA

- National level priorities identified
- Development of national Blue Growth agendas
- Science-based and well-informed decision-making
- Supporting the development of the Common Maritime Agenda



ADDRESSES ALL ECONOMIC ACTIVITIES

- Established sectors such as shipping, shipbuilding, fisheries, traditional sun-sea tourism
- Emerging new sectors such as blue biotechnology, offshore wind energy, ocean energy, coastal and environmental protection



SRIA WILL GUIDE STAKEHOLDERS

- Academia
- Funding agencies
- Industry

- Policymakers
- Society



Pillar 4: Education and Capacity Building

Main Goal 1 - Supporting formal and informal learning, education, training and use of knowledge and technologies for established and emerging marine and maritime jobs

Actions

- Develop new programmes and coordinate existing ones (syllabus and curricula) to support and implement priorities defined in SRIA. This entails the design and implementation of dedicated undergraduate, MSc, PhD and postdoctoral programmes for future researchers and professionals in all fields of Blue Growth (Short/Medium Term)
- Develop programmes for life long training and vocational education of professionals in integrated coastal and marine management and blue economy (Short Medium Term)
- Promote digital literacy (e.g. e-learning environments) and prepare for the rapid change in use and implementation of virtual technologies as an essential component of life long education in all fields of blue economy (Short/Medium Term)
- Promote mentoring and training for new start-ups and coaching for scaling-up companies in blue economy and blue growth at local/regional levels. (Short/Medium Term)
- Support students, graduates and early career researchers to gain practices and undergo work placement apprenticeships schemes in businesses and institutions active in blue economy (Short/Medium Term)



THE BLUE GROWTH INITIATIVE FOR RESEARCH AND INNOVATION IN THE BLACK SEA



2021 Update: With the H2020 funded CONNECT CSA, DOORS and BRIDGE-BS, SRIA implementation has become a 20M Euro package that will be steered in close cooperation



THE CORE CONTRIBUTION OF Black Sea CONNECT



Horizon 2020

Type of action: Coordination and Support

Action

Project acronym: Black Sea CONNECT

Project name: Coordination of Marine

and Maritime Research and Innovation in

the Black Sea

Coordinator: METU Institute of Marine

Sciences

Budget: 2M Euro

Duration:10.2019-06.2023

Black Sea CONNECT CSA will scientifically, technically and logistically support the Black Sea Blue Growth Initiative towards the implementation of the SRIA, with a view on boosting the Blue Economy in the region.

Black Sea CONNECT will develop and promote a shared vision for a productive, healthy, resilient, sustainable and better valued Black Sea.



Advancing Black Sea Research And Innovation to Co-develop Blue Growth within Resilient Ecosystems: BRIDGE-BS

Horizon 2020

Call: H2020-BG-2018-2020 (Blue Growth)

Topic: LC-BG-09-2019

Type of action: Research and Innovation

Project acronym: BRIDGE-BS

Coordinator: METU Institute of Marine

Sciences

Budget: 9 M Euro

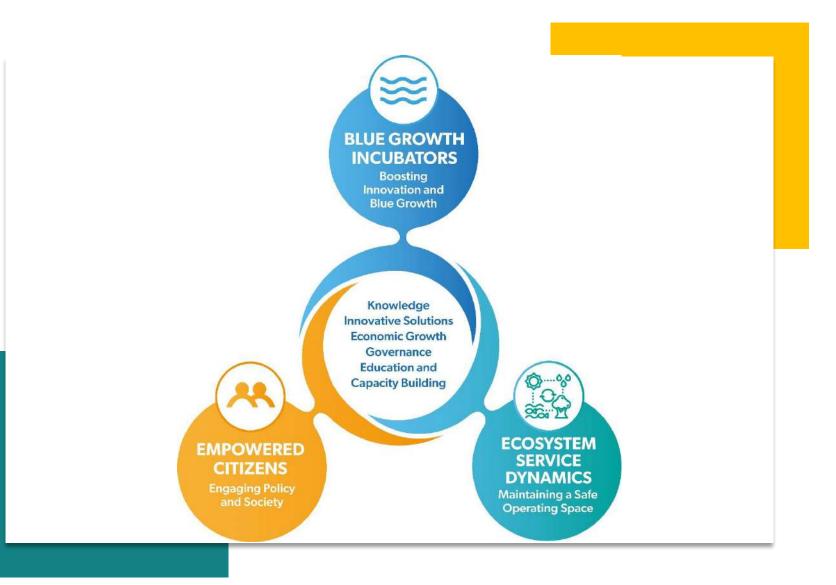
Duration: 06.2021-12.2025

33 Partners

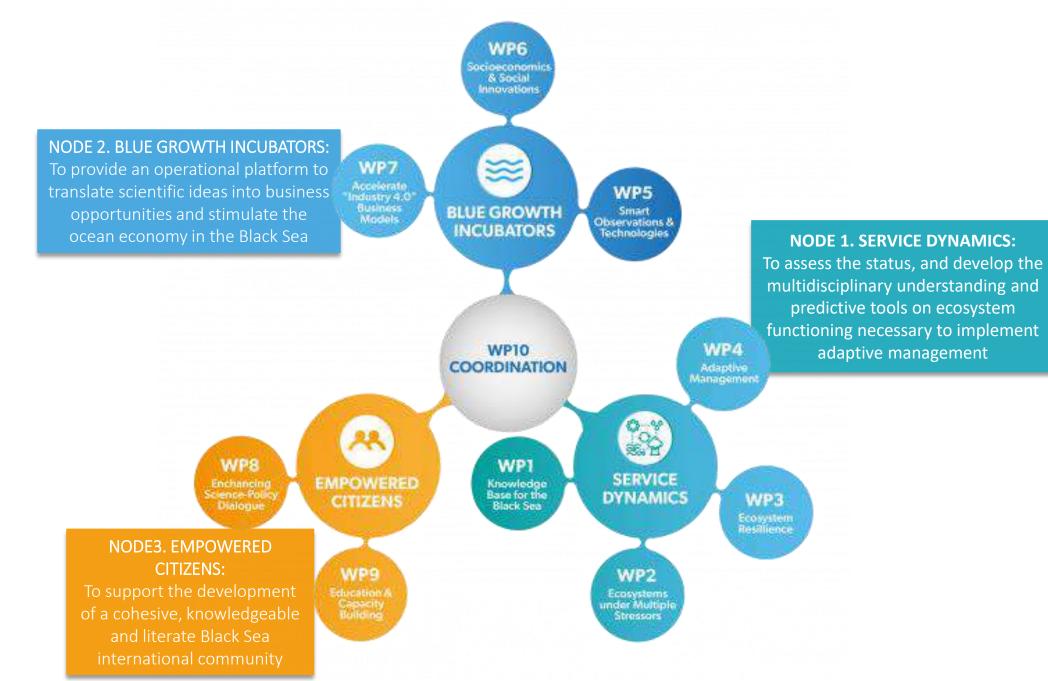




BRIDGE-BS Concept







SEArica Conference on Blue Skills BRIDGE-BS



The aim is to **educate**, **train** and **stimulate** interactions between the public and future generations of marine scientists towards a much better-connected Black Sea community and to develop education and training programmes for **upskilling** and ensuring the understanding of Blue Growth services by the workforce in the Black Sea;

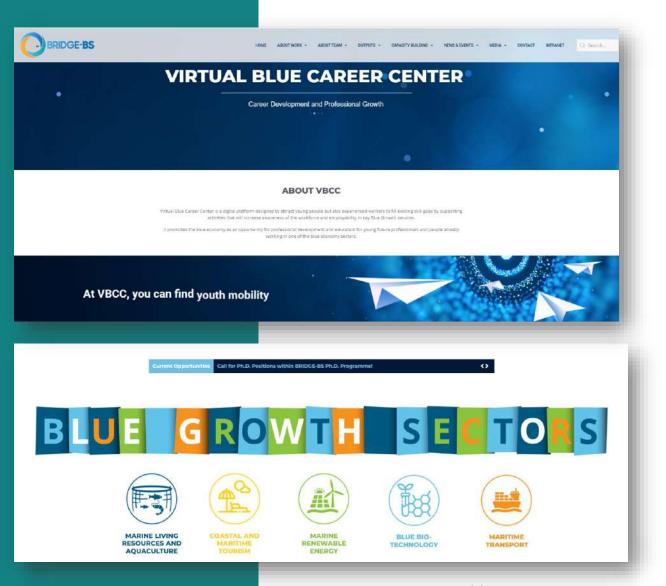
This will be accomplished by activities such as:

- Blue Career Centre in the Black Sea to fill existing skills' gaps by supporting activities that will
 increase awareness of the workforce and employability in key Blue Growth services;
- **BLUE MOVE:** a youth mobility programme for students;
- Young Ambassadors Scheme: to create a generation of young people from the region that work together for marine science, Blue Growth & sustainability;
- **Summer Schools** on Blue Economy sectors in order to upskill and ensure the understanding of the challenges and opportunities to be addressed for a sustainable Black Sea;
- Ocean-Engaged Citizens Programme: the first OL Black Sea Group, a "Science for Citizens" campaign, a marine gastronomy "Responsible Consumption" campaign and the publication of a book on historic Black Sea lighthouses.



Virtual Blue Career Center in the Black Sea





- Description, general data, and trends
- Career-related information professions; career exchanges; sources for useful information on the Sectors
- Information about masters and PhD programs, professional courses, professional qualifications
- Relevant mobility opportunities and projects suitable for the target audience
- News and media





SHIPBUILDING AND REPAIR

The EU shipbuilding industry is a dynamic and competitive sector. With a market share of around 6% of the global order book in terms of compensated gross tonnage 176 and 19% in terms of value; for marine equipment, the EU share rises to 50%; the EU is a major player in the global shipbuilding industry.

Read More

EXPLORE THE OPPORTUNITIES

CAREERS

PROFESSIONAL QUALIFICATIONS

SHIPPING

Shipping is the most carbon-efficient mode of transportation. International maritime shipping accounts for less than 3% of annual global greenhouse gas emissions (CO2) and produces less exhaust gas emissions – including nitrogen oxides (NOx), hydrocarbons, carbon monoxide (CO), and sulfur dioxide (SO2) – for each tonne transported per kilometer than air or road transport.

Read More



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Maritime transport accounted for 9% of the jobs, 17% of the GVA, and 21% of the profits in the EU Blue Economy in 2018. The sector seems to have recovered from the drop in 2016.

In 2018, the sector generated a GVA of €30 billion, which is 12% higher compared to 2009. Gross profit, at €14.6 billion, increased by 5% in 2009. The profit margin was estimated at 9%, below 11% in 2009. The investment ratio (gross investment intangible goods / GVA) was estimated at 45%, still well below the figure for 2009 (65%). The turnover reported was €160 billion, a 31% increase from 2009.

Around 397 557 persons were directly employed in the sector (11% more than in 2009). Total wages and salaries amounted to €15.4 billion and the annual average wage was estimated at almost €38 850, up 7% compared to 2009.

Germany leads Maritime transport, contributing with 35% of the jobs and 37% of the GVA, followed by Italy with 17% of the jobs and 16% of the GVA.

The economic value of the EU shipping industry



CAREER

Occupation	Description				
Ship Captain	Ship captains are in charge of a vessel for the transpooffshore and coastal waters. The size of the vessel can depending on the tonnage that they are certified to and their operation and are likely to have worked the positions.				
Deck officer	Deck officers or mates perform the watch duties on a speed, manoeuvring to avoid hazards, and continuous and navigational aids. They maintain logs and other of that the proper procedures and safety practices are foorder, and oversee the loading and discharging of call engaged in maintenance and the primary upkeep of				
Crew Manager	The Crew Manager acts as the senior manager of all c and many HR tasks. He ensures that the crew deliver or promotions. All aspects of Crew Management fall t personnel related budgets and travel budgets. The Cr employed, ensuring they are within the legal guidelin certificates.				
Marine chief engineer	Marine chief engineers are responsible for the entire engineering, electrical, and mechanical divisions. The aboard the ship and have overall responsibility for all ship. Marine chief engineers collaborate on security, so national and international standards of application.				

PROFESSIONAL QUALIFICATIONS

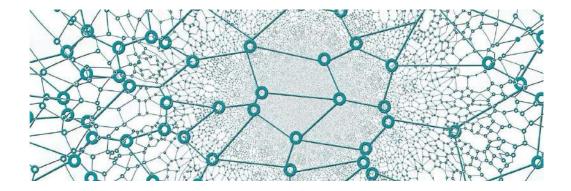
No	Institution	Type of Organization	Type of Education	Legal Status	City	Country	Web page
1.	Nikola Vaptsarov Naval Academy	University	Higher Education	Public	Varna	Bulgaria	http://www.naval-acad.bg
2.	Technical University of Varna	University	Higher Education	Public	Varna	Bulgaria	https://wwwl.tu-varna.bg
	"Angel Kanchev" University of Ruse	University	Higher Education	Public	Ruse	Bulgaria	https://www.uni-ruse.bg
3.	University of Architecture, Civil Engineering and Geodesy	University	Higher Education	Public	Sofia	Bulgaria	http://uacg.bg
4.	Bulgarian Ship Hydrodynamics Centre	National Research and Development Center	Other	Public	Varna	Bulgaria	http://www.bshc.bg
5.	Institute of Oceanology	Research Organization	Other	Public	Varna	Bulgaria	http://io-bas.bg
6.	Batumi Navigation Teaching University	University	Higher Education	private	Batumi	Georgia	https://bntu.edu.ge
7.	Batumi State Maritime Academy	University	Higher Education	Public	Batumi	Georgia	https://bsma.edu.ge

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"Blue Move" Activity

- Promote a youth mobility programme for students to bring together students with scientific and industry profiles to better match current training and skills needs
- On-line questionnaire and desktop search to map what is going on in the region (partners to contribute with relevant information: reports, contacts, existing networks)
- A LinkedIn Group/Network to share information on mobility programmes, Blue Growth events and job/training/secondment offers relevant to BS Blue Community.
- Project tools/platforms and BRIDGE Social Media will help to share this information.





Black Sea Ocean Literacy Network



- The OL concept was introduced a decade ago in Europe. However, many organizations and individuals in the Black Sea countries have a longer history of teaching about their sea and engaging communities.
- BRIDGE-BS aims to inventorize, document and map recent OL projects and initiatives in the Black Sea region, which started in 2012 or later. Identifying OL projects and initiatives is the starting point of building the Black Sea Literacy Network.

Do you know any **Black Sea OL examples**, **best-practices**? Help us find them!

https://docs.google.com/forms/d/e/1FAIpQLScuBzD6f-V0xe1wsp27SBIjF2u8yr_PjPszA-2v6f42MU-5kA/viewform



http://bridgeblacksea.org/index.php/ocean-literacy-network/



Black Sea Young Ambassadors



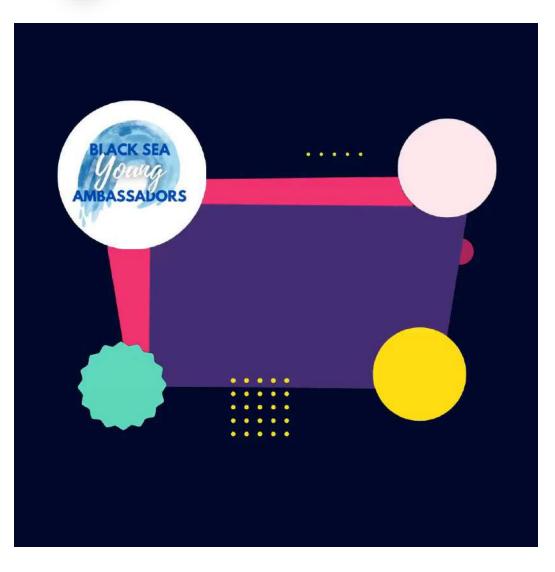
Young voices of the Black Sea

Advocating for Blue Growth in the Black Sea

Promoting the goals of the SRIA



Young Ambassadors Campaigns



- Educated and sensitized Georgian youth for the sustainable development of the Black Sea: fieldwork on the coast of the Black Sea combined with beach clean-up activity and informative session on the blue economy, Georgia
- Youth Power Towards a healthy Black Sea: Workshop on the secondary school children on Black Sea's unique features, Romania
- Love your rivers to protect Black Sea: River clean-up activity on Dniester day and Danube Day, Moldova
- Re-inventing the Black Sea Ecology: Vlog from research cruise and lab on issues such as eutrophication and pollution in an easily understandable language, Turkey
- Social media campaigns associated with the local campaigns and an international one.
- Black Sea wide photo contest with different categories such as biodiversity, pollution, multistressors etc.



Young Ambassadors: New Cohort!

Call for the new Black Sea Young Ambassadors will be launched in Summer 2022!





Dual Supervision PhD Programme on Sustainable Blue Growth



http://bridgeblacksea.org/index.php/2022/01/10/call-for-ph-d-position-within-bridge-bs-project/



1st BRIDGE-BS Summer School

	WHAT?	1st BRIDGE-BS Summer School
	When and Where?	23-24-25 August 2022 In Istanbul, Turkey hosted by Istanbul University
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Topics	Intro classes (Oceanography, Ecosystem Resilience, Multistressors and Marine Policy) Blue Economy Sectors: Marine Living Resources: Fisheries and AquaSectorsculture, Black Sea Renewable Energy, Maritime Transport, Coastal and Maritime Tourism, Sustainable Coastal and Maritime Tourism, Blue Biotechnology)
	More Details	Application Deadline: June 30 th 2022 Target group: Graduate Students working on/interested in Blue Economy related topics Selected participants accommodation and travel will be covered!



Upcoming activities: Ocean-Engaged Citizens

- MSc in Blue Growth: Online master programme with participation and cosupervision of Black Sea universities to address concrete issues of the blue economy in an interdisciplinary manner using Black Sea's natural and economic environment
- "Science for Citizens": mini-campaigns on different issues related to Blue Growth will be created via bitesize videos, with simplified science to inform and explain to citizens important scientific & environmental issues with calls to action.
- "Responsible Consumption" Campaign: aims to help citizens make better informed choices regarding their seafood consumption. The output will be an e-book of seafood recipes, launched on Black Sea Day.
- □ **Lighthouses & Black Sea History:** Several historical lighthouses in the Black Sea need to be protected as part of the region's cultural heritage this task will map them and publish a book on important lighthouses called "From Lighthouse to Lighthouse".



Bite size

videos





- Check out our Virtual Blue Career Center (from June onwards)
- Let us know any Black Sea Ocean Literacy initiatives and check out our dedicated webpage
- Check out the Summer School, PhD call.
- Stay tuned for
 - The call for the new cohort for the Black Sea Young Ambassadors,
 - MSc in Blue Growth
 - Citizen campaigns
- Follow us!

- @BRIDGE_BlackSea
- BRIDGE Black Sea

- @BRIDGEBlackSea
- in BRIDGE Black Sea



