

INTERGROUP



Seas, Rivers, Islands
&
Coastal Areas

LAUNCH OF THE BLACK SEA SRIA IMPLEMENTATION PLAN

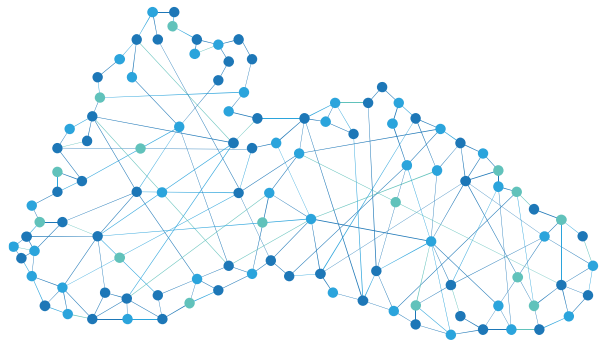
WHAT IS NEXT FOR THE BLACK SEA RESEARCH AND INNOVATION COOPERATION?

HOSTED BY MEP MARIAN-JEAN MARINESCU, SEARICA MEMBER

THURSDAY 4 MAY 2023 | 14.00 – 16.00 CEST | EUROPEAN PARLIAMENT

CO-ORGANISED BY:





Black Sea SRIA Implementation Plan

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Project Coordinator - Black Sea CONNECT

Launch of the Black Sea SRIA Implementation Plan: What is next for the Black Sea research and innovation cooperation?

Brussels, European Parliament

04 May 2023



THE UNIQUENESS AND CHALLENGES OF BLACK SEA

A unique sea basin, rich in biodiversity and heritage, but also where an exceptional combination of natural and human induced stressors co-occur

4869 km coastline with
421 639 km² total area and
18 major sea ports

160 million
population of Black Sea
Coasts and catchment

Deep Black Sea as the
paleoclimate archive of
5 million years

30 to 8 reduction
in the number of fish species
with enocomical significance



10 large rivers flowing to the sea,
with a total river input exceeding
350 km³ year⁻¹

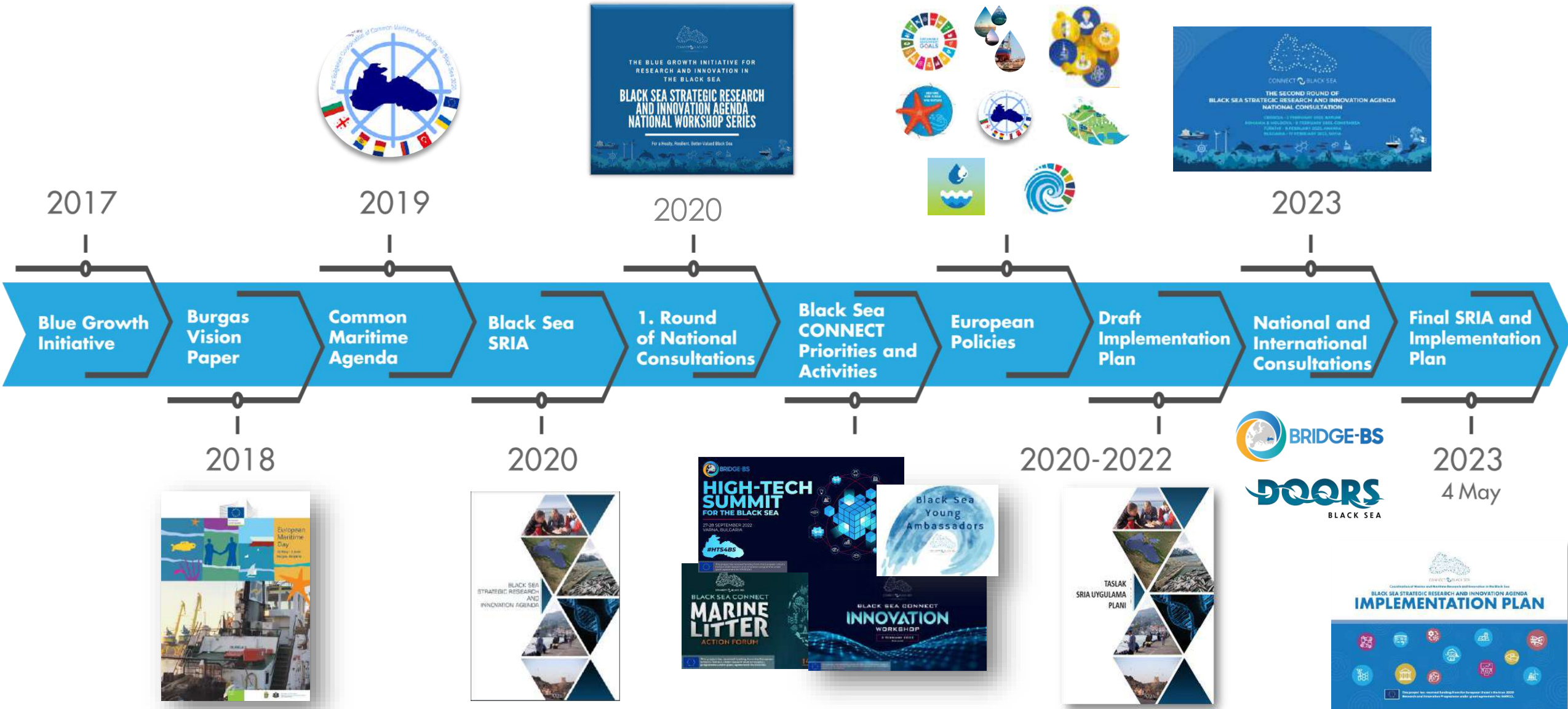
5 ratio of the Black Sea
catchment area to the
sea's area

Rich in energy sources
such as wave, currents,
offshore wind, H₂S,
gas hydrates

90% of oxygen free,
H₂S-rich volume



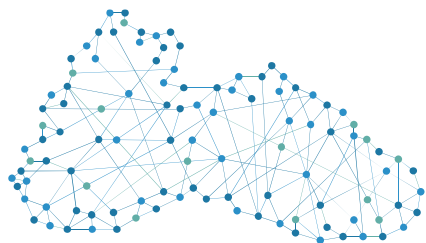
SRIA IMPLEMENTATION PLAN DEVELOPMENT



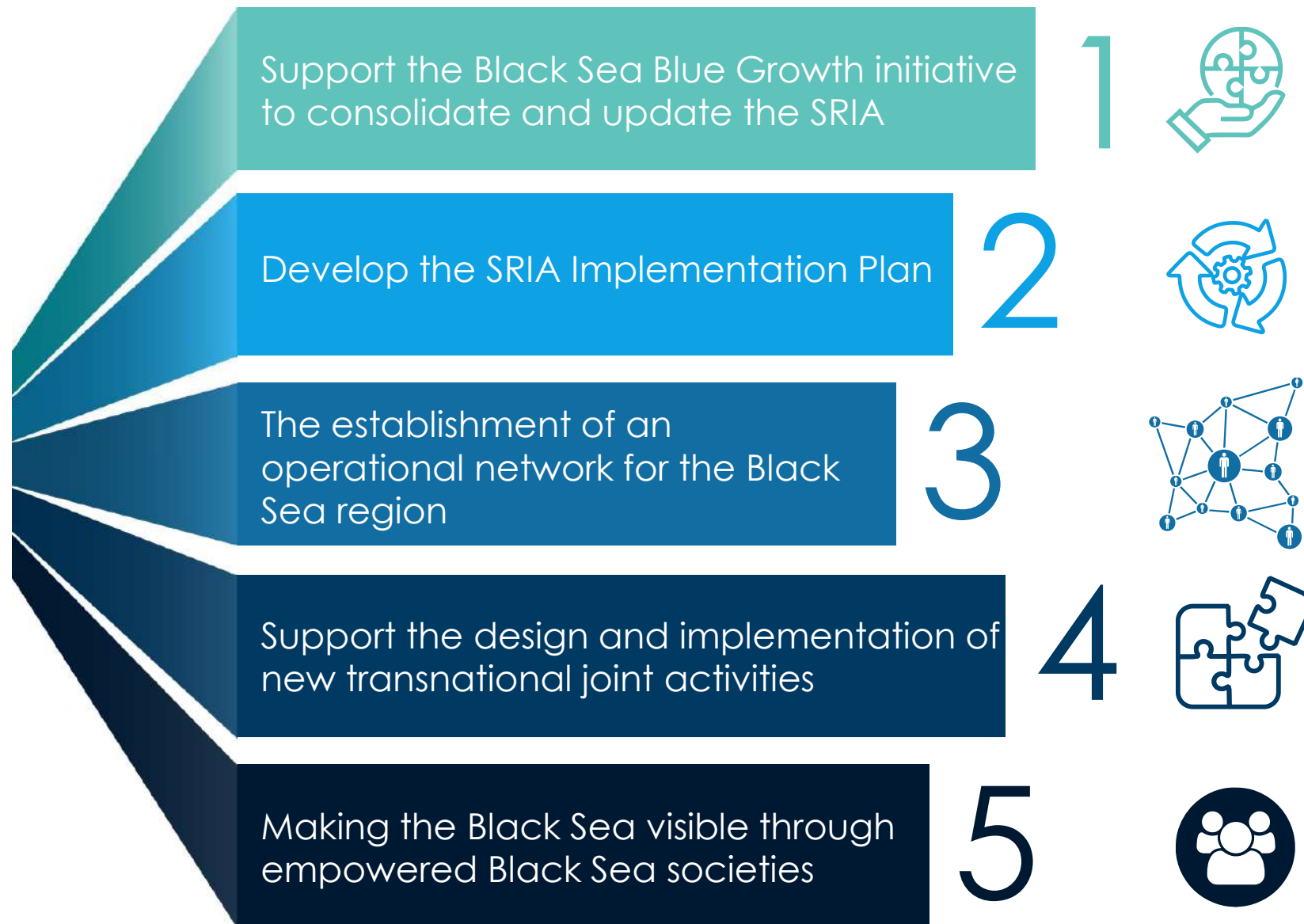


THE CORE CONTRIBUTION OF THE BLACK SEA CONNECT

THE SPECIFIC OBJECTIVES OF



CONNECT BLACK SEA





SRIA



Reference framework consisting of 4 Pillars, Main Goals and Actions

KEY OUTPUTS



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



IMPLEMENTATION PLAN



Action plan based on SRIA Pillars, translating SRIA Goals into concrete and feasible Actions

It consists of 12 Themes and 25 Strategic Joint Actions

OBJECTIVES



- To contribute to the national Blue Economy Strategies and better structuring of the relevant funding mechanisms for solution oriented implementation
- To contribute to the international and regional strategies and their implementation; and support the co-funding mechanisms

THE FOUR PILLARS OF THE BLACK SEA SRIA

The Initiative for Research and Innovation in the Black Sea has determined four main pillars based on the Burgas Vision Paper and the Black Sea Strategic Research and Innovation Agenda.



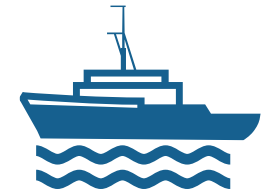
Black Sea Knowledge Bridge
Addressing fundamental Black Sea research challenges



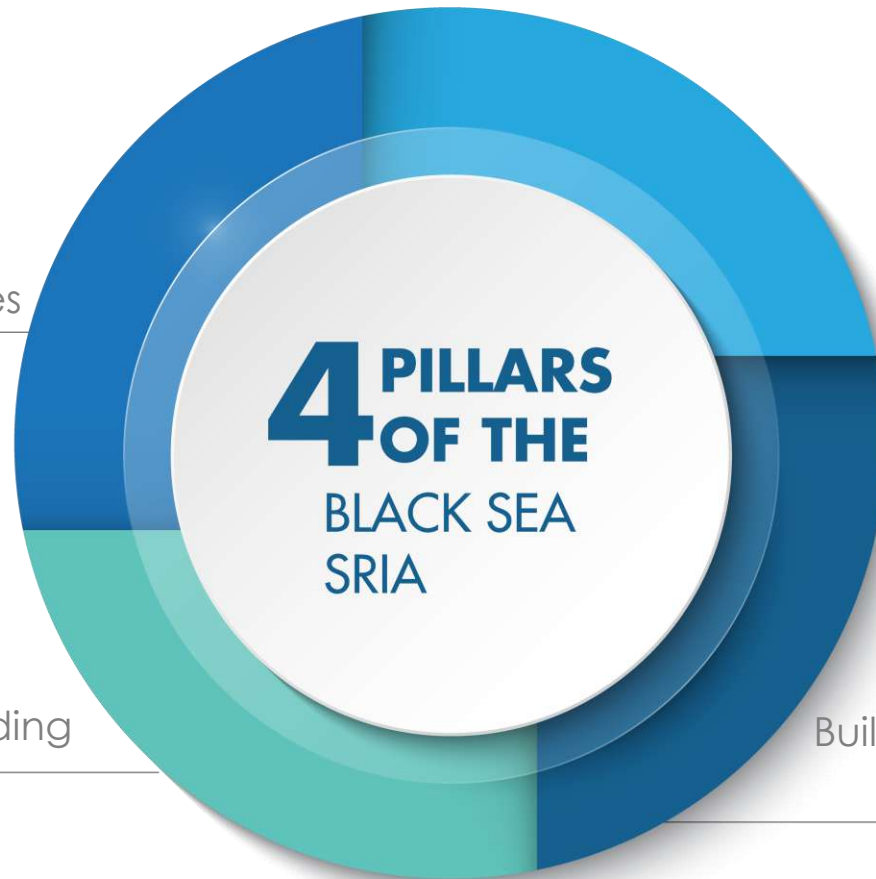
Empowered Citizens & Enhanced Blue Workforce
Education and capacity building



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



IMPLEMENTATION PLAN THEMES

SRIA PILLAR 1

-  1 DIGITAL TWIN OF THE BLACK SEA
-  2 EFFECT OF MULTIPLE STRESSORS ON THE BLACK SEA ECOSYSTEM
-  3 CHANGING BLACK SEA BIODIVERSITY AND ECOSYSTEM RESILIENCE UNDER CLIMATE CHANGE AND MULTISTRESSORS

SRIA PILLAR 2

-  4 ECOSYSTEM-BASED FISHERIES AND HIGH-TECH AQUA AND MARICULTURE
-  5 BLUE BIOTECHNOLOGY
-  6 HEALTH AND SAFETY FOR BLACK SEA COASTS
-  7 MARINE LITTER
-  8 MARINE RENEWABLE ENERGY

SRIA PILLAR 3

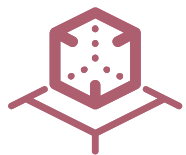
-  9 INNOVATIVE OBSERVING SYSTEMS
-  10 BLACK SEA UNDERWATER AND COASTAL HERITAGE

SRIA PILLAR 4

-  11 INNOVATIVE APPROACHES TO CONNECT SCIENTISTS, POLICY MAKERS, INDUSTRY AND SOCIETY
-  12 BLUE SKILLS AND CAPACITY BUILDING ON MARINE SCIENCES



THEME 1: DIGITAL TWIN OF THE BLACK SEA

Strategic Joint
Action 1.1

Developing the Digital Twin of the Black Sea, building on innovative models at regional and basin-scale that simulate climate change and multiple stressors and integrating them with socioeconomic trends, blue economy scenarios and system of systems approaches

Strategic Joint
Action 1.2

Advancing AI-powered decision support tools (DSTs) for ecosystem based management in the Black Sea



THEME 6: ONE HEALTH APPROACH AND IMPROVED SAFETY FOR BLACK SEA COASTS



Strategic
Joint
Action 6.1

Investigate the long term and episodic (extreme weather event-related) changes related to marine heatwaves, sea level rise and coastal floods with associated impacts and adaptations including social aspects and nature-based solutions



Strategic
Joint
Action 6.2

Risk assessment of harmful algal bloom (HAB), jelly blooms and mucilage events at the regional level and their impact on ecosystem services, food safety and evaluation of their potential biotechnological applications



Strategic
Joint
Action 6.3

Identification of the ecosystem impact of civil and military disruptive activities (such as hazardous pollution and unexploded ordnance) affecting the resilience of coastal communities, integrating coastal scientific, socioeconomic and psychological angles



THEME 10: BLACK SEA UNDERWATER AND COASTAL HERITAGE



Strategic Joint
Action 10.1

Continue to map and select (for further promotion) the underwater heritage of the Black Sea and assess the sensitivity of heritage sites to climate change and multistressors



Strategic Joint
Action 10.2

Opening the Common Cultural Heritage of the Black Sea coast to the wider public through the development of sustainable and innovative tourism models



THEME 12: BLUE SKILLS AND CAPACITY BUILDING ON MARINE SCIENCES



Strategic Joint Action 12.1

Building on the momentum of existing Black Sea Young Ambassadors Programme, new approaches for all ECOPS will be developed in order to engage the general public such as the Citizen Science initiatives – actively involve citizens in science-related processes using innovative tools for learning by doing (water quality, biodiversity monitoring)



Strategic Joint Action 12.2


Develop an Intergenerational Training series (including summer school-type activities) for ECOPs and LATE COPS (peer training, involving late careers as mentors)

Adopt a "Train the Trainer" Programme Approach (through staff exchanges, secondments, mobility programmes etc.) to increase the capacity of mentors/researchers who can act as mentors to younger researchers


BLACK SEA SRIA POLICY SYNERGY WITH OTHER INITIATIVES AND STRATEGIES



EU Mission: Restore our Ocean and Waters



The European Green Deal



Sustainable Blue Economy Partnership



EU Blue Economy




Black Sea SRIA



Burgas Vision Paper



Black Sea SRIA Implementation Plan



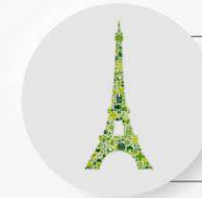
UN Ocean Decade



UN Sustainable Development Goals



UN Framework Convention on Climate Change



The Paris Agreement

A better future will prevail with this comprehensive and solid action plan that is for future programmes, strategies, initiatives, funding agencies.



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