







### BLACK SEA STRATEGIC RESEARCH AND INNOVATION AGENDA

Representing the work carried out by Black Sea coastal countries experts, (Bulgaria, Georgia, Romania, Russian Fed. Turkey, Ukraine, Moldova), in cooperation with marine experts from leading European marine institutes and organisations, with the support of the European Commission



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## The Black Sea

4869 km

of coastline

421 638 km<sup>2</sup>

Total Area

**90%** of oxygen free, H<sub>2</sub>S-rich volume

160 million

Population of Black Sea coasts and catchment

**18** major sea ports



10 large rivers flowing to the sea, with a total river input exceeding 350 km<sup>3</sup> vear<sup>-1</sup>

5

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

Deep Black Sea as the paleoclimate archive of past 5 million years

Rich in **energy sources** such as wave, currents, offshore wind, H<sub>2</sub>S, gas hydrates

30 to 8

Reduction in the number of fish species with economical significance

# Strategic Reseach 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 bioeconomy/biotechnology, ocean energy, offshore wind energy, coastal and environmental protection



#### **SRIA WILL GUIDE STAKEHOLDERS**

- Academia
- Funding agencies
- Industry
- Policymakers
- Society



## Main Milestones

### June 2017 -Start date



# June 2018 — Burgas EMD — Vision Paper for SRIA



# May 2019 - Romania – Launch of SRIA



#### FOUR MAIN PILLARS OF THE BLACK SEA SRIA



### FROM BURGAS VISION PAPER TO SRIA IMPLEMENTATION

Multidisciplinary Research

Target multi-stressors

Integrate land-sea connection to deep basin

Smart, integrated observing systems

Alignment of working methodologies/national policies

Promote start ups toward circular economy

Harnessing industry 4.0 technologies

Incentives for innovation in developed blue sectors: living resources, transport and tourism

Black Sea

Black Sea Knowledge Bridge

3

**Key Infrastructure** and Policy Enablers

2

Black Sea Blue Economy

4

Empowered Citizens and Enhanced Blue Workforce

Nurture emerging Blue Black Sea sectors: energy, aquaculture, biotech

Ocean-engaged citizens

Learning and training for new marine and maritime jobs

Enhanced science-policy dialogue









### BLACK SEA STRATEGIC RESEARCH AND INNOVATION AGENDA



- √ 4 Pillars
  - ✓ 11 Goals
    - √ 41 Actions











# Transversal issues











## All pillars build on existing expertise and networks Need to capitalize Best Practice both in the Black Sea area and

elsewhere.

# Successful Implementation of the SRIA requires Collaboration

This requires efficient co-funding and co-programming mechanisms and bodies at national, transnational and international level.

## SRIA must permanently maintain relevance

Need to put in place a regular mechanism to update the Black Sea SRIA in permanent dialogue with relevant stakeholders! Revision and update are vital.











- SRIA is to help identification of national level priorities to support national Blue Growth agendas.
- Science resulting from SRIA actions give better knowledge and understanding of the Black Sea = Science-based and well - informed decision making = leads the way to a Sustainable Blue Economy
- SRIA supports the development of the Common Maritime Agenda for the Black Sea.

## **Future**



- Our work will continue with nationallevel feedback to define key framework conditions for the SRIA implementation
- This will also support the establishment of an operational stakeholder network based on the four pillars defined in this version of SRIA.
- The Black Sea SRIA will be further consolidated in dialogue and in close link with relevant national, European and international stakeholders.
- H2020 Black Sea CONNECT