INTRODUCTION

With unique habitats, abundant resources, and rich cultural heritage, the Black Sea is vital to its coastal communities and the broader population of over 160 million inhabiting its watershed. The Black Sea is a distinctive semi-enclosed basin with 10 large rivers flowing into a highly coupled coastal-deep-sea system introducing anthropogenically generated nutrients and pollutants nourishing the largest anoxic-sulfidic water body of the Earth.

THE CHALLENGE

The Black Sea ecosystem is also unique in being susceptible to increasingly negative impacts from several human-induced stressors, such as eutrophication and hypoxia, overfishing, and the introduction of alien species. These multistressors are a central challenge to be tackled by BRIDGE-BS.

BRIDGE-BS will develop predictive tools and capabilities necessary to understand and predict the impacts of climate-driven and anthropogenic multistressors on the services stemming from Black Sea ecosystems. These services and their responses to stressors will be mapped, monitored, and modeled to identify a safe operating space within which a sustainable blue economy can flourish.

AT A GLANCE

Programme H2020-BG-2018-2020 (Blue Growth)
Type of Action Research and Innovation Action
Topic BG-11-2020
Duration June 2021 – November 2025
Consortium 33 partners – 15 Countries
Coordinator Middle East Technical University (METU)
Total Budget €9 Million

INTERCONNECTED NODES OF BRIDGE-BS

BRIDGE-BS will advance knowledge and deliver research under three NODES: Ecosystem Service Dynamics, Blue Growth Incubators and Empowered Citizens. The NODES will be highly interlinked, feeding on and into each other.

NODE1. ECOSYSTEM SERVICE DYNAMICS

Node 1 will assess the status, and develop the multidisciplinary understanding and predictive tools on ecosystem functioning necessary to implement adaptive management.

NODE2. BLUE GROWTH INCUBATORS

Providing an operational platform to translate scientific ideas into business opportunities and stimulating the ocean economy in the Black Sea will be the main objective of Node 2.

NODE3. EMPOWERED CITIZENS

Node 3 will support the development of a cohesive, knowledgeable, and literate Black Sea international community.

WORK PACKAGES

BRIDGE-BS builds its methodology around the three NODES of Ecosystem Service Dynamics, Blue Growth Incubators and Empowered Citizens. A total of 10 work packages will support the implementation of the project.