



PROJECT PARTNERSHIP

TR **TUBİTAK Marmara Research Center**
Türkiye · Lead Partner

GE **The Greens Movement of Georgia**
/ Friends of the Earth - Georgia
Georgia

RO **National Institute for Marine Research and Development "Grigore Antipa"**
Romania

BG **Institute of Oceanology**
- Bulgarian Academy of Sciences
Bulgaria

TR **Turkish Employers' Association of Metal Industries (MESS)**
Türkiye

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PROJECT ACTIVITIES



Harmonised FerryBox Systems

Design, procurement, installation and field testing



Operational Monitoring

Validation and development of common quality-assurance procedures



Cloud-based Data Architecture

Automated data transfer services and the open-access BLACKBOX Data Portal



Knowledge Exchange

Stakeholder engagement and dissemination across the Black Sea Basin

28

Months

Implementation

1.55

EUR million

Total budget

4

Countries

TR · BG · RO · GE

5

Partners

Project partnership



Continuous Marine Observation in the Black Sea Basin

Turning ferries into floating observation platforms to monitor, understand and protect the Black Sea.

BSB01231

Interreg  Co-funded by the European Union
NEXT Black Sea Basin



PURPOSE

The project addresses gaps in the spatial and temporal coverage of conventional marine surveys. FerryBox systems will be installed at selected coastal sites and on a research vessel to provide automated, high-frequency observations of temperature, salinity, dissolved oxygen, pH, chlorophyll-a and turbidity.

BLACK SEA

- **TR** **TUBİTAK MRC**
Türkiye · Lead Partner
- **BG** **IO-BAS**
Bulgaria · Inst. of Oceanology
- **RO** **NIMRD Antipa**
Romania · Marine Research
- **GE** **Greens Movement**
Georgia · FoE Georgia

WHAT WE MEASURE

Temperature

Sea surface
thermal patterns

Salinity

Freshwater
mixing zones

Dissolved Oxygen

Aquatic ecosystem
health

pH

Ocean acidification
tracking

Chlorophyll-a

Algal bloom
detection

Turbidity

Water clarity
monitoring

OUR APPROACH

FerryBox systems installed on commercial ferries and research vessels collect continuous, high-frequency data along regular shipping routes.

OPEN DATA & IMPACT

BLACKBOX Data Portal

All collected data will be made openly available through a cloud-based data architecture with automated transfer services, enabling researchers, policymakers and coastal communities to access real-time marine observations.

Knowledge Exchange

Training programmes, stakeholder engagement events and cross-border dissemination activities ensure that project results translate into practical tools for environmental management across the Black Sea Basin.

Expected Impact

BLACKBOX will establish a joint regional observation framework, providing more frequent, comparable and accessible data on Black Sea environmental conditions.