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SEAwise Project



# SEAWISE EBFM TOOL





MEDAC REGIONAL REVIEW WORKSHOP

**ROME, FEBRUARY 2025**





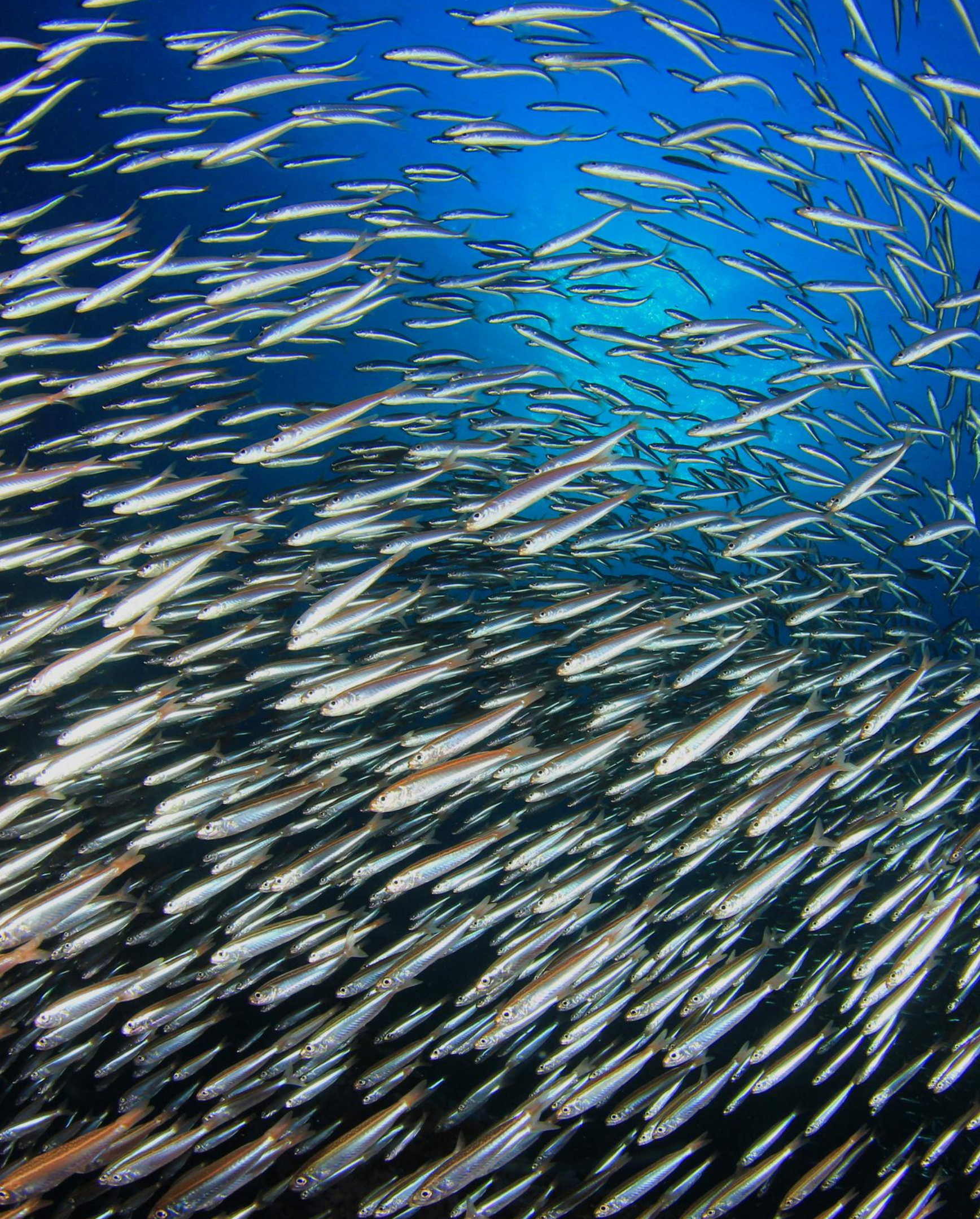
# AGENDA

-  SEAWISE TOOL AND TOOLBOX
-  EBFM TOOL
-  DEMO
-  FEEDBACK AND DISCUSSION

# THE SEAWISE TOOLBOX AND EBFM TOOL

- A key aim of the SEAwise project is to provide **practical tools** that support the implementation and uptake of EBFM in Europe.
- To help meet this aim, we have developed **two tools aimed at meeting the needs and priorities of the SEAwise Stakeholder Network** in understanding, and implementing, EBFM in their fisheries.
- The tools have distinct aims, intended uses, and audiences. Both are based on the research conducted by SEAwise, and provide accessible, useful information in **support of better EBFM in Europe**.
- It is intended that both of these Tools can **complement the other**.





# EBFM TOOL



**OPEN ACCESS TOOL**



**BROAD RANGE OF STAKEHOLDERS**



**EXPLORE KEY SEAWISE RESULTS**



**EXAMINE AND VISUALISE TRADE-OFFS**



**SUPPORT EBFM**

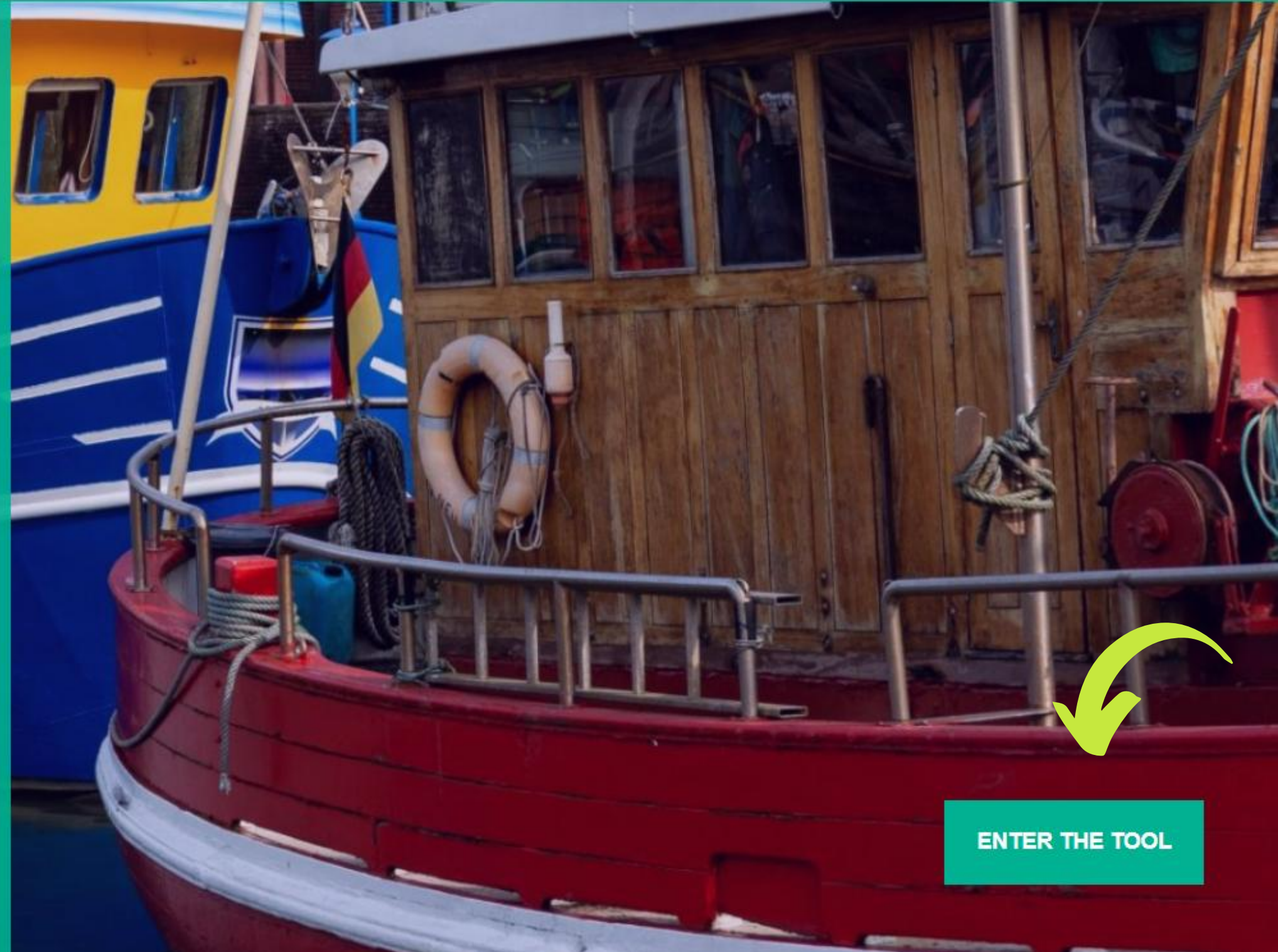


# WELCOME TO THE SEAWISE EBFM TOOL

The SEAWISE EBFM Tool lets you explore the key results of the SEAWISE project.

Intended as an accessible resource for a broad range of stakeholders, the EBFM Tool can be used to gain a better understanding of the trade-offs associated with different fisheries management interventions, under different climate change scenarios, across four Case Study Regions – the North Sea, the Baltic Sea, the Mediterranean Sea, and Western Waters.

The Tool allows for visualisation of these trade-offs across social,



ENTER THE TOOL

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Tool Welcome > Case Study Regions

BALTIC SEA >

NORTH SEA >

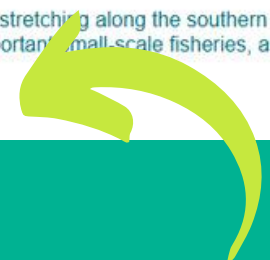
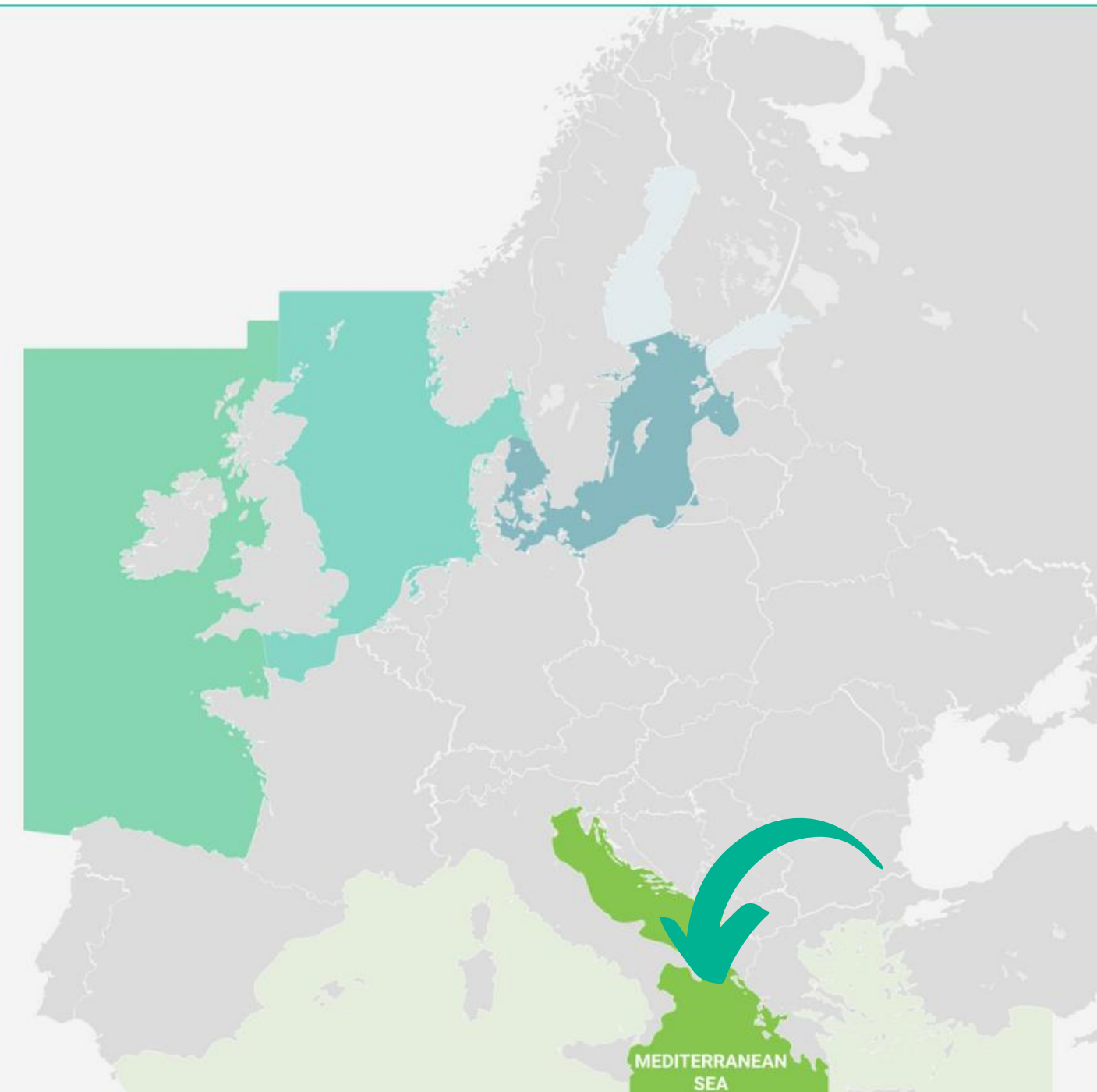
WESTERN WATERS >

MEDITERRANEAN SEA >



The Mediterranean Sea is an intercontinental sea stretching along the southern coast of the European continent, and encompassing the Ionian and Southern Adriatic Seas. The region is characterised by high biodiversity and socially important small-scale fisheries, as well as heavily exploited stocks, with low biological productivity.

DIVE INTO THE MEDITERRANEAN SEA >





[Tool Welcome](#) [Study Regions](#) [Mediterranean Sea](#)

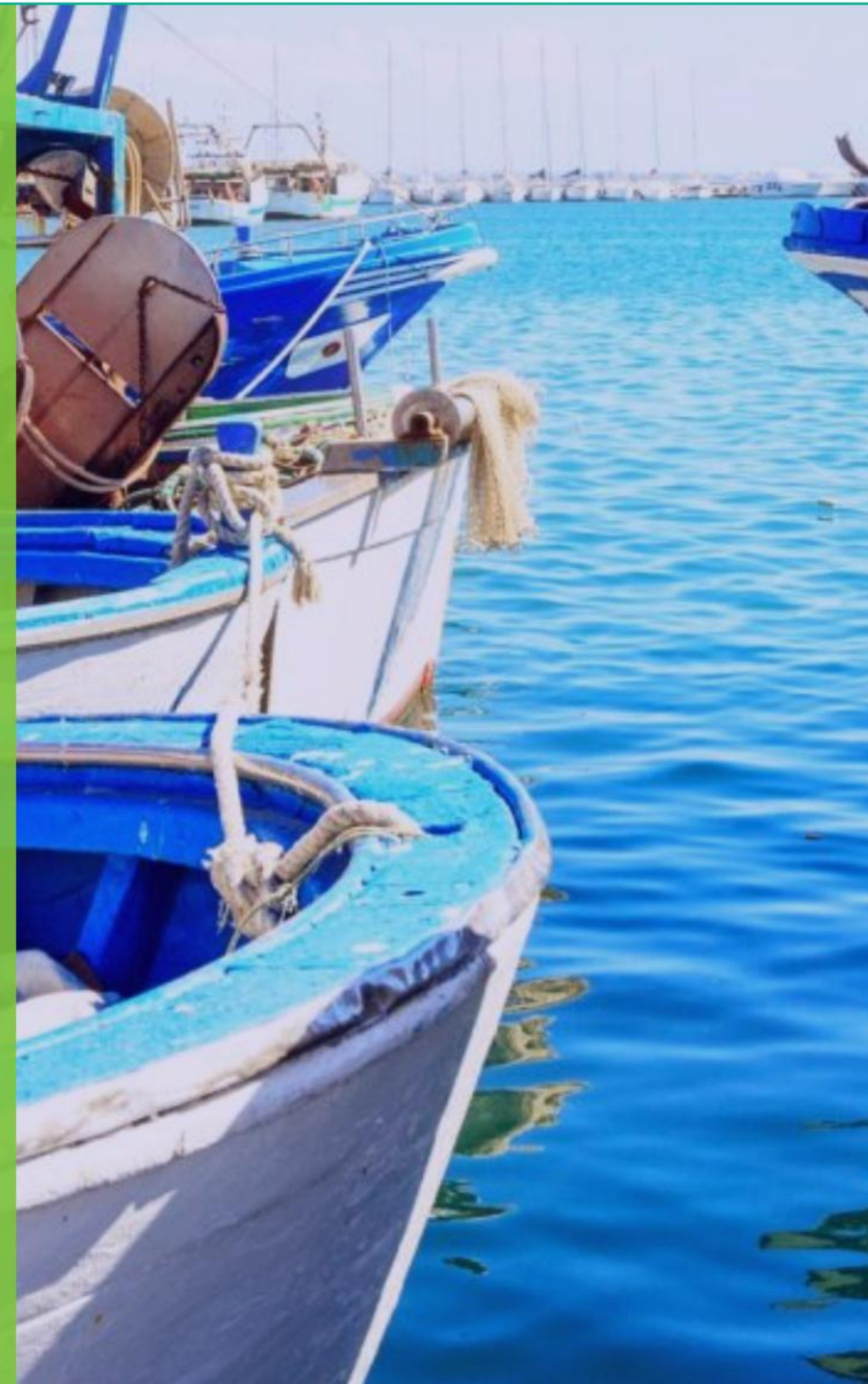
# MEDITERRANEAN SEA

Beyond poorly identified and heavily exploited stocks, low biological productivity means that species in this region have slow rates of growth and reproduction which complicates management further by hindering the potential recovery of the ecosystem as a whole, and its associated fish stocks.

The research carried out by SEAWise in the Mediterranean Sea has focused on two main sub case regions – the Adriatic and Western Ionian Seas – GFCM Geographical Sub Areas (GSA) 17,18,19, and the Ionian Sea – GSA 20. You can explore these two cases in more detail by clicking on the links below.

[ADRIATIC AND WESTERN IONIAN SEAS >](#)

[EASTERN IONIAN SEA >](#)





## ADRIATIC AND WESTERN IONIAN SEAS

The diverse ecosystems of the Adriatic and Western Ionian Seas are two regions characterised by different productivity, that is higher in the Adriatic sub-region, but with biodiversity more pronounced in the western Ionian.

Home to a host of demersal and pelagic fisheries, small-scale fisheries are socially significant at local level. Though there has been recent progress towards sustainability, many of the region's commercially exploited fish and shellfish species remain overfished.

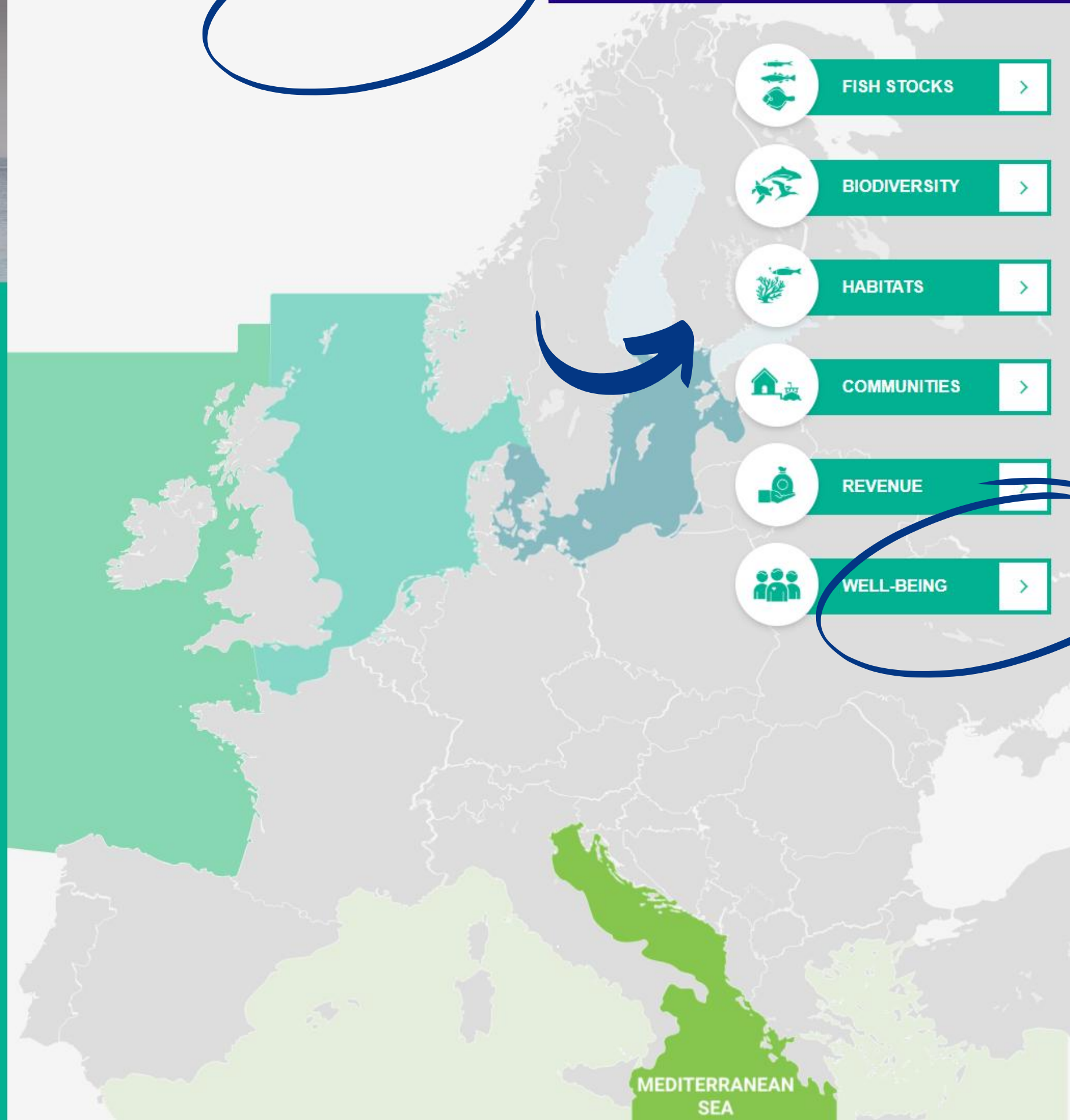
The region is subject to several management actions, including the GFCM Multi-annual Management Plan (MAP) for the demersal Adriatic Sea fishery and the GFCM MAP regulating the deep-water fisheries in the Ionian Sea.

< MEDITERRANEAN SEA

< CASE STUDY REGIONS

### ADRIATIC AND WESTERN IONIAN SEAS: AT A GLANCE

### INSIGHTS FROM THE ADRIATIC AND WESTERN IONIAN SEAS



FISH STOCKS >

BIODIVERSITY >

HABITATS >

COMMUNITIES >

REVENUE >

WELL-BEING >

MEDITERRANEAN SEA





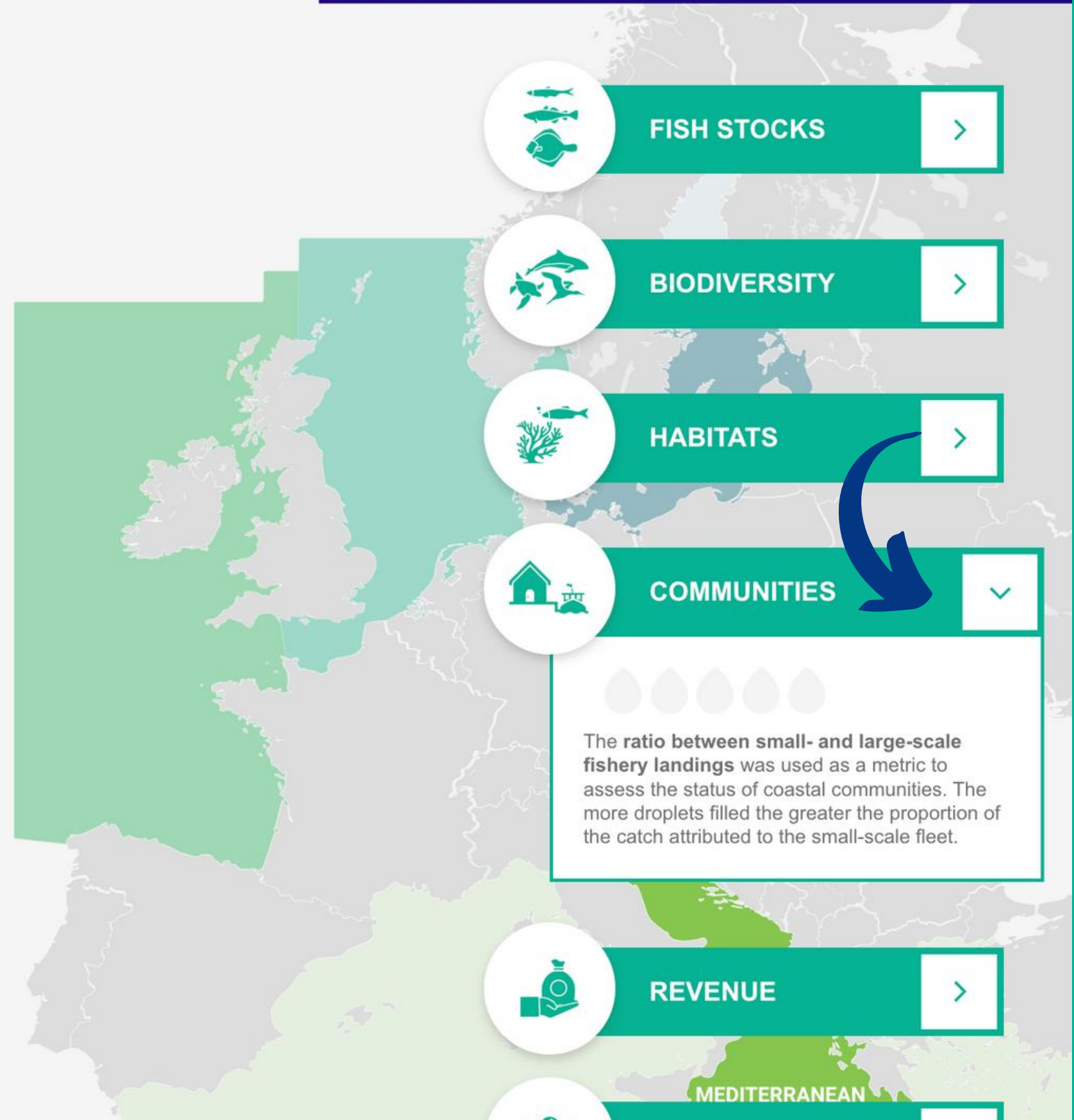
# ADRIATIC AND WESTERN IONIAN

Ecosystems of the Adriatic and Western Ionian Seas (GSAs 17,18,19) are characterised by different habitats that is higher in the Adriatic sub-region with biodiversity more pronounced in the Ionian.

Most of demersal and pelagic small-scale fisheries are socially managed at local level. Though there has been progress towards sustainability, the region's commercially exploited

## ADRIATIC AND WESTERN IONIAN SEAS: AT A GLANCE

## INSIGHTS FROM THE ADRIATIC AND WESTERN IONIAN SEAS





### EBFM IN THE REGION

Here you can explore a range of social and ecological categories related to the fisheries in the Adriatic and Western Ionian Seas, and how these are expected to change over time and according to different scenarios, based on SEAWISE research.

Clicking on the icons allows you to explore each category in more depth, while the filters below allow you to visualise the trade-offs across these categories, under different climate change and fisheries management scenarios.

Also provided is an indication of any gaps relating to our knowledge relating to these categories, alongside links to key SEAWISE reports and the technical SEAWISE EBFM Toolbox where these categories and the research underpinning the EBFM Tool can be explored more fully.

#### FILTERS

- CLIMATE CHANGE SCENARIO A ⓘ
- CLIMATE CHANGE SCENARIO B ⓘ
- STATUS QUO ⓘ
- PGY ⓘ
- FMSY ⓘ
- CASE SPECIFIC ⓘ

< CASE STUDY REGIONS

#### ADRIATIC AND WESTERN IONIAN SEAS: AT A GLANCE

#### INSIGHTS FROM THE ADRIATIC AND WESTERN IONIAN SEAS

		2025	2035	2045
FISH STOCKS	⌵	5 grey droplets	5 teal droplets	5 purple droplets
BIODIVERSITY	⌵	5 grey droplets	5 teal droplets	5 purple droplets
HABITATS	⌵			
COMMUNITIES	⌵	5 grey droplets	5 teal droplets	5 purple droplets
REVENUE	⌵	5 grey droplets	5 teal droplets	5 purple droplets
WELL-BEING	⌵	5 grey droplets	5 teal droplets	5 purple droplets

DOWNLOAD SNAPSHOT ↓

EXPLORE OUR DATA IN DETAIL >



ADRIATIC AND WESTERN IONIAN SEAS: AT A GLANCE

INSIGHTS FROM THE ADRIATIC AND WESTERN IONIAN SEAS

Adriatic and Western Ionian Seas


social and the fisheries in seas, and the over time periods, based on

to explore

IO A ⓘ

IO B ⓘ



-  **FISH STOCKS** ^
-  **BIODIVERSITY** v
-  **HABITATS** v
-  **COMMUNITIES** v
-  **REVENUE** v
-  **WELL-BEING** v

**Fish Stocks**

Currently, several of the stocks in the Adriatic and Western Ionian Seas are exploited above Fmsy, though sustainability improvements have been observed in recent years, and this is also seen with respect to SSB.

In this region, SEAwisE focused its assessment on the following key demersal stocks: Adriatic hake, western Ionian Hake, Adriatic/western Ionian Deep water rose shrimp, Adriatic/western Ionian giant

Additional non-fishery related factors, such as climate change, are also impacting marine resources in the region, and these were explored.

The effect of environmental factors like temperature and salinity on stocks was also analysed, in terms of variability in recruitment and SSB, with findings indicating temperature effects on recruitment for all investigated stocks – hake and mullet and deep water rose shrimp.

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[EXPLORE OUR DATA IN DETAIL](#) >



ADRIATIC AND WESTERN IONIAN SEAS: AT A GLANCE

INSIGHTS FROM THE ADRIATIC AND WESTERN IONIAN SEAS

Tool Welcome > Case Study Regions > Mediterranean Sea > Adriatic and Western Ionian Seas

### EBFM IN THE REGION

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- CASE SPECIFIC ⓘ



- FISH STOCKS
- BIODIVERSITY
- HABITATS
- COMMUNITIES
- REVENUE
- WELL-BEING

### Fish Stocks

is quite certain.

increasing temperature.

#### Certainty



*\*Certainty here relates to our understanding of the current status of seven stocks examined in the region.*

THE PERFORMANCE OF EXISTING MANAGEMENT PLANS

IMPROVED PREDICTIVE MODELS OF RECRUITMENT UNDER DIFFERENT

DOWNLOAD SNAPSHOT ↓

EXPLORE OUR DATA IN DETAIL >



# TOOL DEMO



[WWW.SEAWISEPROJECT.ORG/TOOL](http://WWW.SEAWISEPROJECT.ORG/TOOL)



THINGS YOU LIKE



THINGS YOU DON'T LIKE



THINGS YOU FOUND USEFUL



THINGS THAT COULD BE IMPROVED



QUESTIONS



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[seawiseproject.org](http://seawiseproject.org)



SEAWISE Project

THANK YOU FOR YOUR  
TIME AND INPUT

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