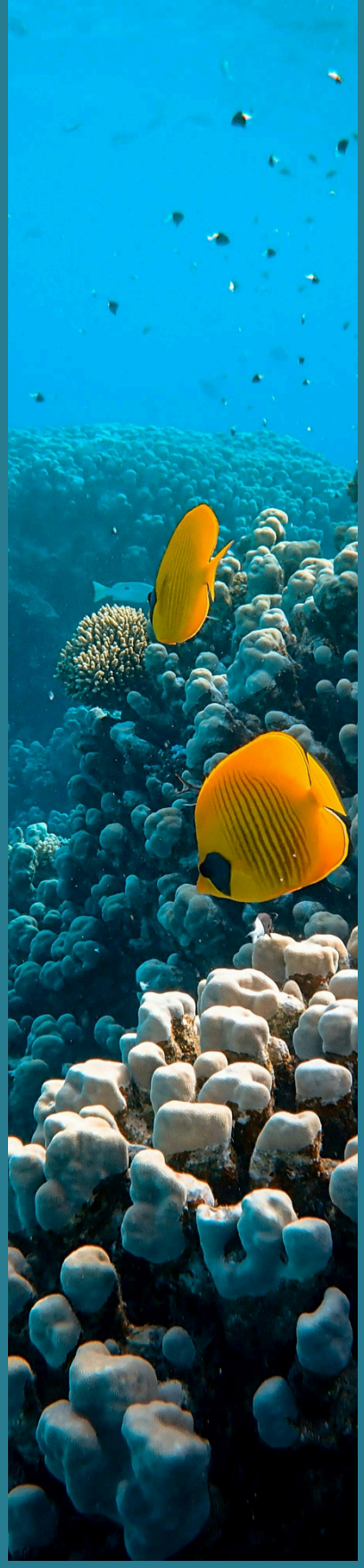
RESEARCH PROGRAM

FISHERIES AND BIODIVERSITY IN THE WESTERN INDIAN OCEAN

UNDERSTAND BRIDGES

MISSION STATEMENT AND TARGETED PROJECTS



MISSION STATEMENT

How to best design **area based management interventions**, including **marine protected areas** to **benefit both biodiversity conservation and sustainable and just fisheries**?

***They are used to frame uses and practices in a targeted geographical area, particularly the use of natural resources.

SUBJECTS OF STUDY

The fisheries social-ecological systems*:

- SES associated with reef resources (fish, invertebrates, etc.), the associated habitats (coral reefs, seagrass beds, mangroves, etc.) and interfaces: **mainly artisanal fishing and also small-scale and inshore fishing.**

- SES associated with large pelagic resources like tuna and bycatch species groups and coastal and offshore habitats: **offshore, small-scale and industrial fishing.**

*A social-ecological system is an interconnected system in which human societies and ecological environments interact and influence each other.

SPREAD ACROSS 6 STUDY SITES

1. SWIO regional site

2. The Comoros and their 4 marine protected areas

Glorieuses

3. Mayotte and its Marine Nature Park

Juan de Nova

Tromelin

4. Réunion Island

The west coast including its Natural Marine Reserve

Bassas da India
and Europa

Discussion for the inclusion of a potential site

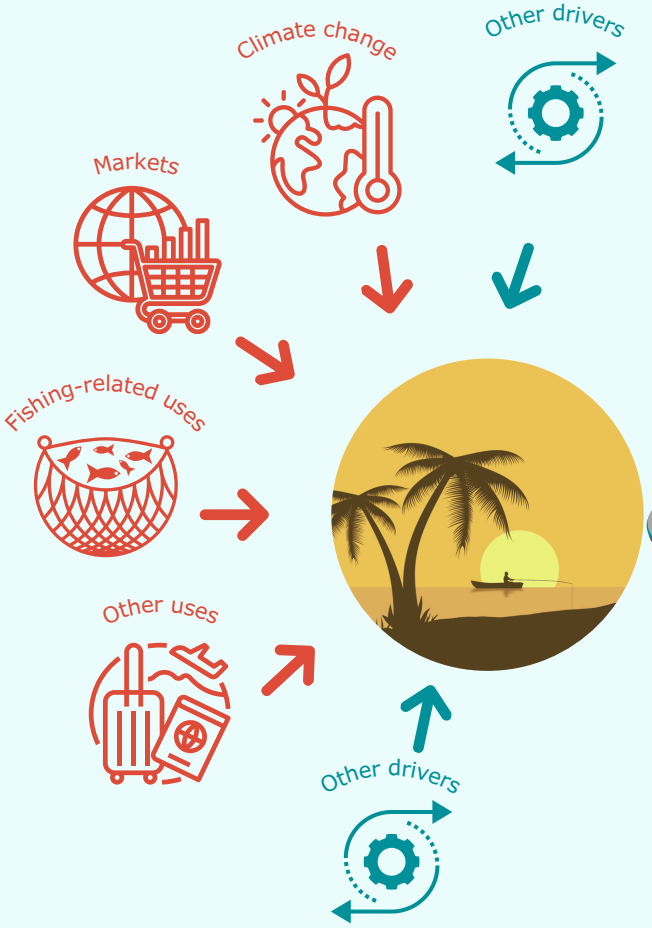
5. Southern Mozambique

from Maputo Bay to Ponta de Ouro.

SUPPORT THE TRANSFORMATION OF SOCIAL- ECOLOGICAL SYSTEMS

INITIAL STATE
OF THE COASTAL AND MARINE SOCIAL-ECOLOGICAL SYSTEM

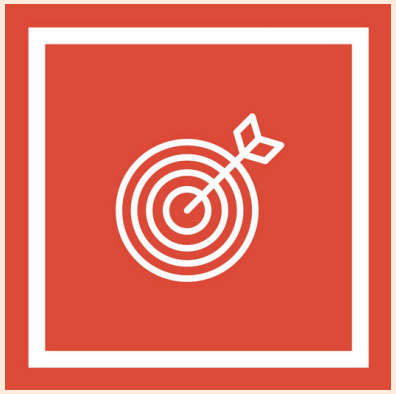
AND ITS DIRECT AND INDIRECT DRIVERS



TRAJECTORIES OF CHANGE

TRANSFORMATIONS OF THE SOCIAL-ECOLOGICAL SYSTEM

INTERCONNECTED TARGETED SCIENTIFIC PROJECTS



IMPACT
Contribute to understanding, monitoring and amplifying socio-ecosystem transformations and their processes.
Maximise the impact of BRIDGES research.

CO-CONSTRUCTION
Identify the stakeholders, tensions and power issues involved in the management of the social-ecological systems studied, in order to propose mechanisms for the co-construction of sustainable and equitable transformations.
Promote knowledge sharing.

RESILIENCE
Understand the dynamics of social-ecological systems and their resilience in the face of global changes.
Seek solutions through the development and testing of intervention portfolios.

AVATAR
Develop and implement digital avatars (models) of social-ecological systems to explore likely trajectories in the context of global changes.

INFORMATION
Identify, catalogue, organise and provide access to existing data on the region.
Develop an information system.

OBSERVATION
Define and implement an ideal long-term, interdisciplinary, multi-scale, spatio-temporal observatory.

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