







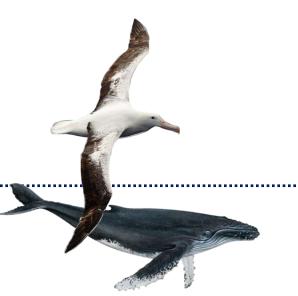








What are Areas Beyond National Jurisdiction (ABNJ)?





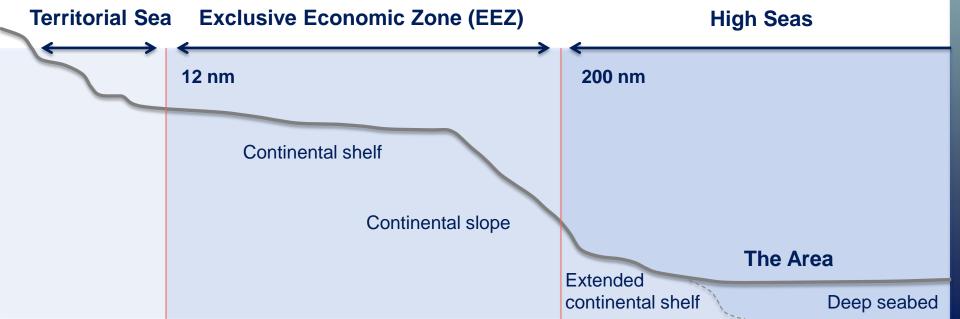
ABNJ explained

71% of the planet are covered by oceans





~ 60% of the oceans are high seas



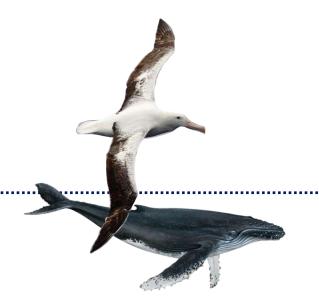


The High Seas in view





Why do ABNJ matter?





The High Seas are full of life

- Deep-sea species often show longevity, high endemism, low growth rates, late maturity and high sensitivity to disturbances
- Unique oceanographic and biological features, e.g. seamounts, hydrothermal vents and cold seeps
- Highly productive ecosystems
- Largely unexplored and understudied



Hydromedusa



Hydrothermal vents in the Lau Basin



Deep sea sponge covered with anemones



Unidentified swimming organism





The High Seas are providing

Seafood, raw materials, genetic and medicinal resources

Climate regulation, carbon sequestration, air purification, habitat

Provisioning services

Regulating services

Supporting services

Cultural services

Nutrient recycling, primary production

Recreation, spirituality, history, science and education



The High Seas are under pressure

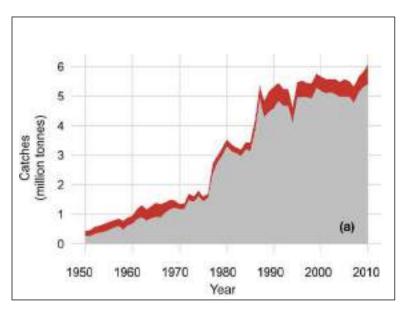
Shipping

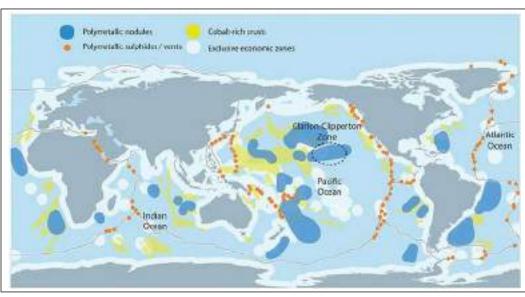
Fishing

Pollution

Seabed mining

Climate change





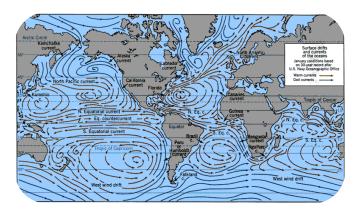
Rising high seas catches

Location of deep-sea minerals

The high seas are connected to national waters



- Clear-cut jurisdictional and geopolitical distinction between ABNJ and national waters, but tight ecological connectivity
- Connectivity is essential for the functioning of ecosystem (restocking of marine resources)



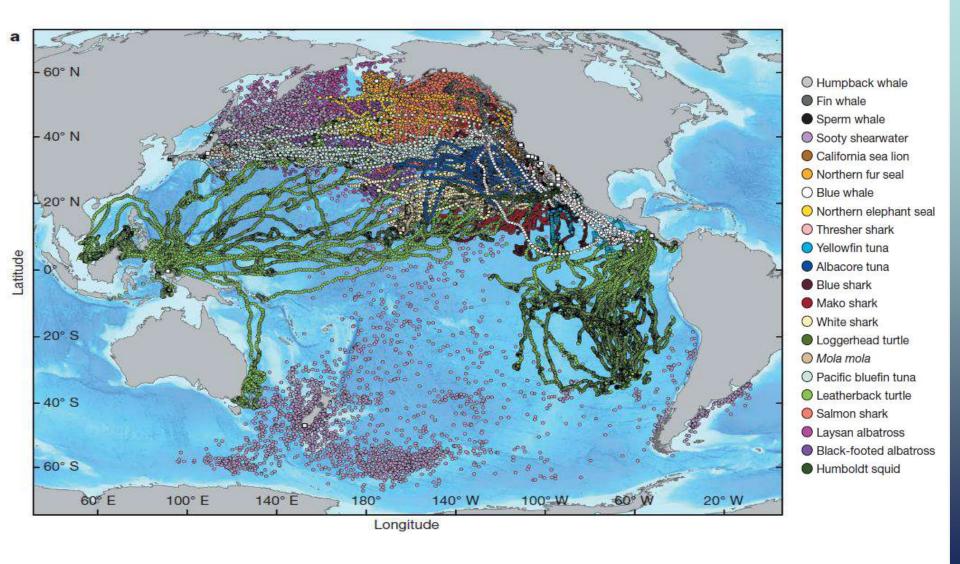
Circulatory (passive) connectivity transports plankton and larvae



Migratory (active) connectivity through tuna, whales, turtles, etc.

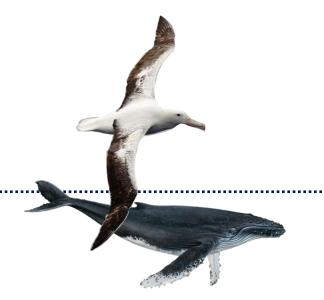


Migratory connectivity in action



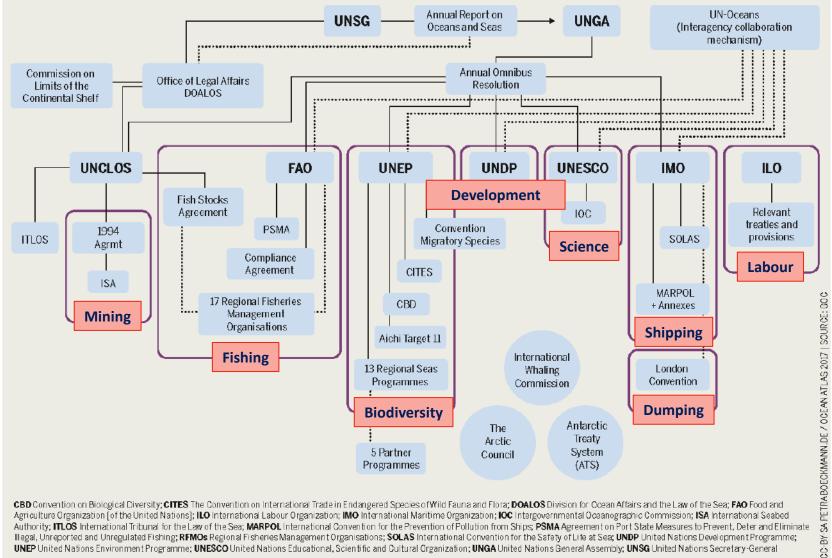


How are the ABNJ governed?

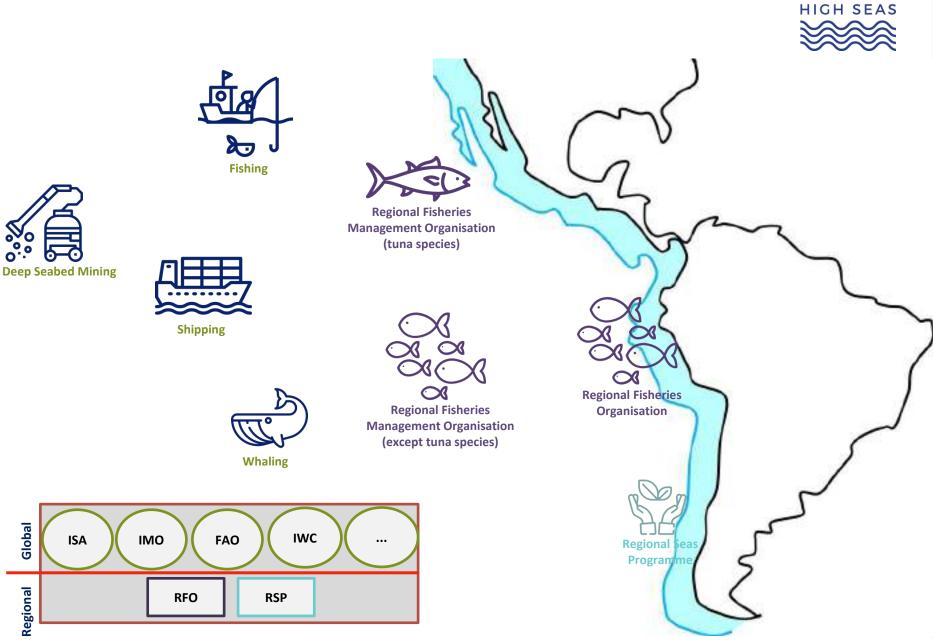




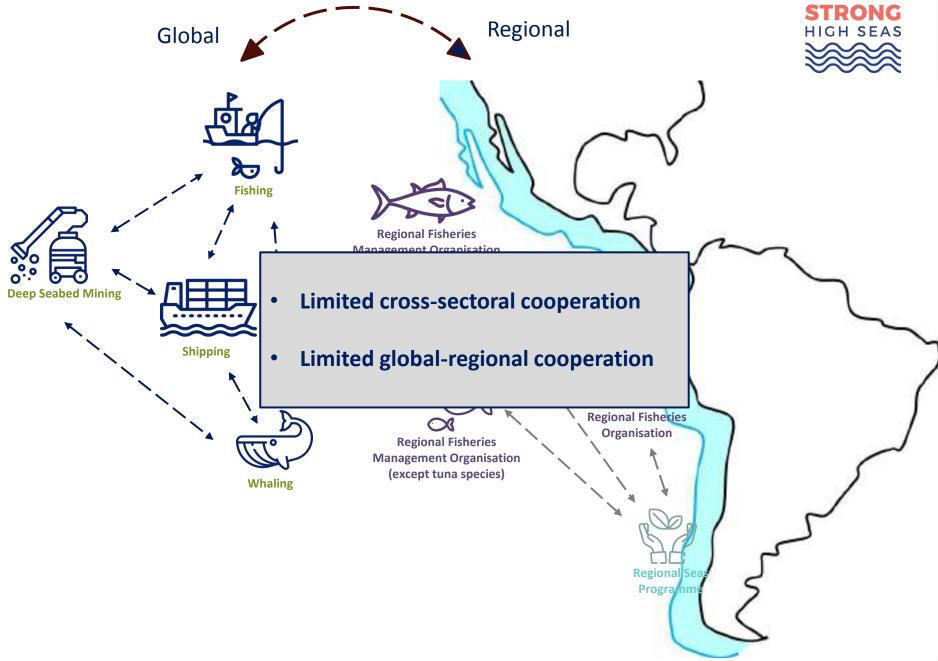
Complex, fragmented governance framework



Agriculture Organization [of the United Nations]; ILO International Labour Organization; IMO International Maritime Organization; IOC Intergovernmental Oceanographic Commission; ISA International Seabed Authority; ITLOS International Tribunal for the Law of the Sea; MARPOL International Convention for the Prevention of Pollution from Ships; PSMA Agreement on Port State Measures to Prevent, Deter and Eliminate Illegal, Unreported and Unregulated Fishing; RFMOs Regional Fisheries Management Organisations; SOLAS International Convention for the Safety of Life at Sea; UNDP United Nations Development Programme; UNEP United Nations Environment Programme: UNESCO United Nations Educational, Scientific and Cultural Organization: UNGA United Nations General Assembly; UNSQ United Nations Secretary-General



STRONG



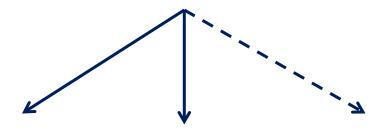


What are the Negotiations on Biodiversity Beyond National Jurisdiction (BBNJ)?



The Future BBNJ Agreement

United Nations Convention on the Law of the Seas (UNCLOS)



UN Agreement on the Implementation of Part XI

UN Fish Stocks Agreement (UNFSA)

UN Agreement on Biodiversity beyond National Jurisdiction (BBNJ)



The BBNJ negotiations: Elements

Marine genetic resources

... or how genetic resources from marine species can be accessed, used, and their benefits shared in an equitable and transparent manner

Area-based management tools

... or how to regulate human activities in ABNJ in and around ecologically important or vulnerable marine areas in a more integrated manner using spatial management tools

Environmental impact assessments

... or how to evaluate the impact of current and future human activities on the marine environment and, when activities are deemed to have an impact, to either cease them or establish strict regulations on how they should be carried out to reduce and limit the environmental impacts

Capacity building and technology transfer

... or how to ensure the ability of developing and geographically disadvantaged states to participate in ABNJ research, commercial use, and management



The BBNJ negotiations: Timeline



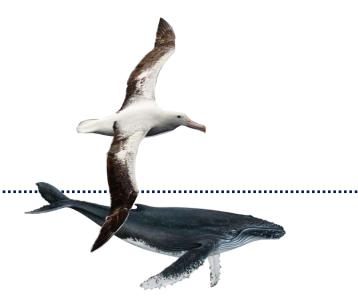
UNGA Resolution 69/292 UNGA Resolution 72/249

BBNJ Working Group meetings	PrepCom meetings	IGC 1	IGC 2	IGC 3	IGC 4 (planned)	
2006-2015	2016-2017	2018	2019	2019	2020	

Agreement



How are the BBNJ Negotiations going?



STRONG HIGH SEAS

Intergovernmental Conferences 1 & 2

IGC 1 – September 2018

Plenary discussion of all four package deal elements guided by the *President's Aid to Discussion*

IGC 2 - March/April 2019

Further plenary discussionon guided by the President's Aid to Negotiations



Credit: Photo by IISD/ENB | Francis Dejon



Credit: Carole Durussel, 2019



I. Marine Genetic Resources (MGRs)

There is some convergence on:

- Need for a benefit-sharing mechanism
- Purposes of benefits
- Need for a general provision on cooperation

- Application of Freedom of the High Seas, Common Heritage of Mankind or other principle?
- What should be included: access in situ, ex situ, in silico, digital sequencing information for MGRs and derivatives?
- Whether and how to regulate access vs. promoting marine scientific research
- Options related to monetary or non-monetary of benefit-sharing?
 - Voluntary or non-voluntary nature of benefit-sharing?
 - •Who shares the benefits and with whom?
- Intellectual property rights?
- Options on if and how to monitor MGR utilisation?
- Agreement to address MGRs in the High Seas and The Area, in ABNJ or only in the Area?



II. Area-based management tools (ABMTs), including marine protected areas (MPAs)

There is some convergence on:

- The use of approaches and principles, such as the precautionary approach, the ecosystem approach and the science-based approach
- Need to consider scientific information as well as traditional knowledge
- ABMT proposals are to be submitted by State Parties to the Secretariat
- Need to promote coherence, complementarity, and synergies with other frameworks and bodies
- The future agreement should not prejudice the rights of coastal States

- Standards and criteria for ABMTs and MPAs
- Whether MPAs should be permanent or temporary
- Modalities for scientific assessments of ABMTs
- Which should be the decision making mechanisms under ABMTs
- Who will be responsible for monitoring and review of ABMTs? Global or regional bodies? Others?





There is some convergence on:

- Obligation to conduct EIAs
- The need to not undermine, streamline and avoid duplication with EIA processes under existing instruments, frameworks and bodies

- Activities requiring an EIA & exemptions
- Modalities for the relationship with relevant global, regional and sectoral bodies
- Whether and how to address cumulative and transboundary impacts
- How would the monitoring, report, review and compliance of EIAs be done and by whom?
- Inclusion of socio-economic and cultural impacts in EIA reports
- Involvement of adjacent coastal States
- Inclusion of Strategic Environmental Assessments (SEAs)





IOC-UNESCO International guidelines already exist; the BBNJ agreement should catalyse CB&TT

There is some convergence on:

- The importance of CB&TT
- Including a general obligation on the promotion of cooperation for CB&TT
- CB&TT should be needs-based and country-driven

- Voluntary or mandatory?
- Categorisation of States and inclusion of preferential treatment?
- Areas in which technology will be transferred (only MGRs or broader?)
- Form of Clearing House mechanism
- Establishment of a funding mechanism



IGC 3 – August 2019

> IGC President Lee will prepare a draft treaty text by June/July 2019

- How to bridge fundamentally different views?
- Can parallel meetings and small, informal group meetings further progress?
- Will the conference be concluded within the deadline?
- How can small delegations participate in such a format?



The DOALOS Voluntary Trust Fund

--- DEADLINE 28 JUNE 2019 - - -

Possibility to obtain funding for representatives from developing countries, especially from LDCs, LLDCs and SIDSs

For more information: https://www.un.org/bbnj/content/trustfundbbnj

Application should to be sent by Governments through their Permanent Missions to the UN

- By email to: doalos@un.org
- Delivered to:

Office of Legal Affairs, Division for Ocean Affairs and the Law of the Sea United Nations Headquarters;

Room No. DC2-0450 New York, NY 10017

Thank you!



Federal Ministry
for the Environment, Nature Conservation
and Nuclear Safety

based on a decision of the German Bundestag





Dr. Carole Durussel

Co-Lead, STRONG High Seas

Email: carole.durussel@iass-potsdam.de

Institute for Advanced Sustainability Studies e.V.

Berliner Strasse 130

D – 14467 Potsdam

Web: www.iass-potsdam.de & www.prog-ocean.org/

























STRONG High Seas:

Strengthening Regional Ocean Governance for the High Seas

- 5-year project (June 2017 May 2022)
- Funded by the German Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (BMU) through the International Climate Initiative (IKI)
- Objective: To strengthen regional ocean governance for the conservation and sustainable use of biodiversity

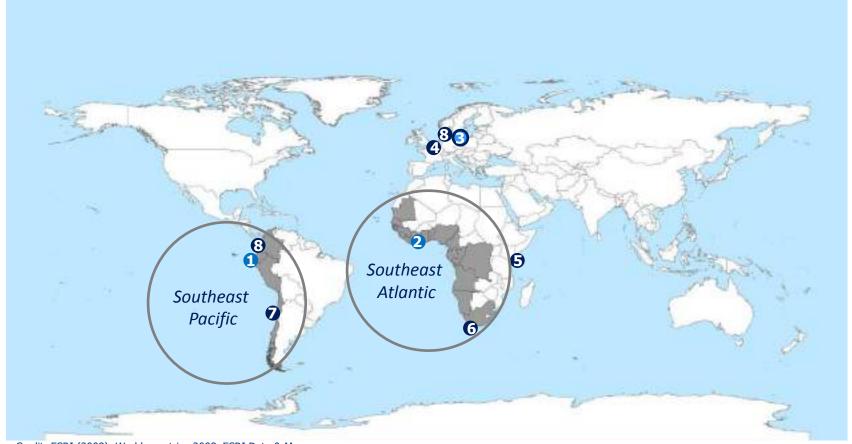
- To develop integrated and ecosystem-based approaches
 - within our two focal regions
 - between marine regions
 - between the regional and global level

Supported by:



Partners of the STRONG High Seas Project





Credit: ESRI (2008): World countries 2008. ESRI Data & Maps





3



5



7













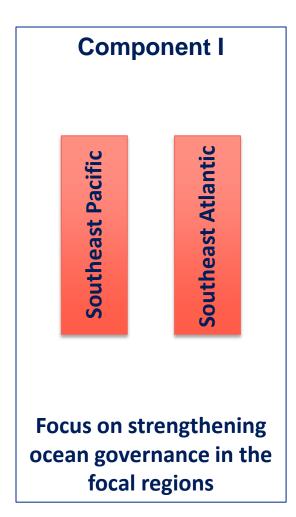


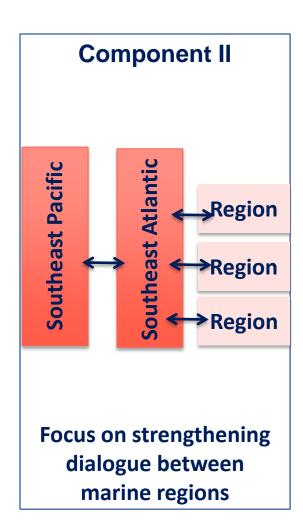


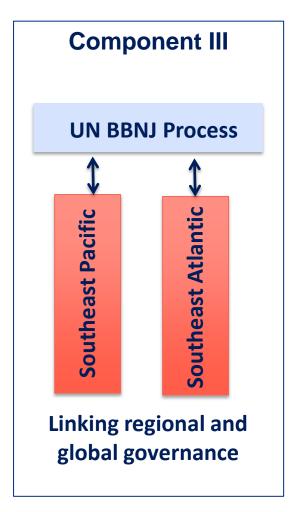




Project Components









Project activities

Engagement in Policy

Communication and Outreach

Capacity Building

Stakeholder Platform

Dialogue Workshops

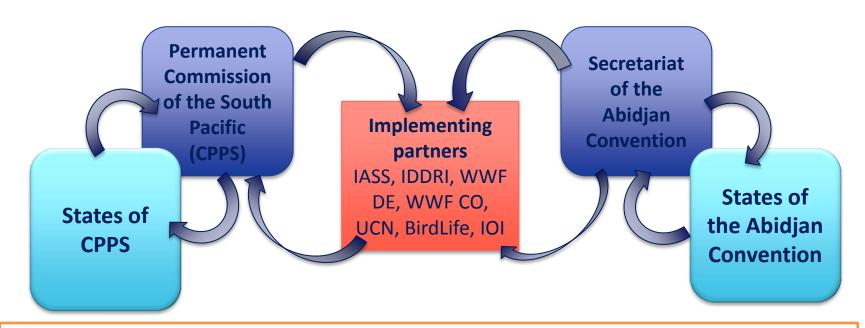
Interregional Workshops

Technical Workshops

Scientific Assessments



Collaborative approach



Collaboration with the regions

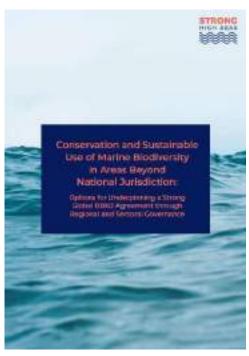
- Identification of topics for in-depth assessment
- Co-design of regional specific scientific assessments (project outputs)
- Data and information exchange
- Review and evaluation of project relevant outputs
- Co-development of joint workshops and trainings
- Ongoing exchange (stakeholder platform)

2017-2018 Project Update









Progress under Component I:



Strengthening Ocean Governance in the Southeast Pacific & Southeast Atlantic

Scientific Assessments

- Assessment of the legal & institutional framework
- Assessment of the ecological characteristics
- Assessment of technological tools relevant for the monitoring, control and sureillance of human activities in ABNJ





Progress under Component I:



Strengthening Ocean Governance in the Southeast Pacific & Southeast Atlantic

Stakeholder Engagement

- Assessment of regional capacity needs
- Identification of a relevant stakeholder engagement platform for the regions
- Organisation of first Dialogue Workshops





Progress under Component II:



Strengthening Dialogue between Marine Regions

Scientific Assessment

• Lessons learnt from other regions in ocean governance

Stakeholder Engagement

Strengthening dialogue with the Southwest Pacific region





Progress under Component III:

Linking Regional and Global Governance



Policy Engagement

 Policy Brief Options to underpin global ocean governance through regional and sectoral governance

Stakeholder Engagement

- Assessment of capacity needs for BBNJ negotiations
- Organisation of first Capacity Building Workshop at the BBNJ negotiations
- Organisation of two Expert Meetings at the BBNJ negotiations



2019 Planning





Scientific Assessments & publications

- Ecological baselines report
- Report on monitoring, control and surveillance (MCS)
- 2nd BBNJ Policy Brief

Other ongoing processes for 2019

- Capacity building & development of a stakeholder platform
- Policy engagement and outreach
- Linking to the Noumea Convention & Nairobi Convention



This Joint Dialogue Workshop

Workshop Objectives

- Present and characterise the state of play for ocean governance in the Atlantic Pacific;
- Present, discuss and review the scientific work done under the STRONG High Seas project;
- Identify opportunities for the development of long-term strategies and approaches for stakeholder engagement and capacity development in the Southeast Atlantic region;
- Exchange and discuss **initiatives in other marine regions** relevant to the conservation and sustainable use of marine biodiversity in ABNJ; and
- Discuss issues relevant to the BBNJ negotiations.

Thank you!



Federal Ministry
for the Environment, Nature Conservation
and Nuclear Safety

based on a decision of the German Bundestag





Ben Boteler

Co-Lead, STRONG High Seas

Email: ben.boteler@iass-potsdam.de

Institute for Advanced Sustainability Studies e.V.

Berliner Strasse 130

D - 14467 Potsdam

Web: www.iass-potsdam.de & www.prog-ocean.org/











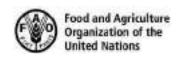














ABNJ Deep Seas Project Update

Sustainable fisheries management and biodiversity conservation of deep-sea living marine resources and ecosystems in the Areas Beyond National Jurisdiction

Dr Nina Bhola Senior Programme Officer UN Environment World Conservation Monitoring Centre







ABNJ Deep Seas Project – Four components



Component 1: Improved application of policy and legal frameworks



Component 2: Reducing adverse impacts on VMEs and components of EBSAs



Component 3: Improved planning and adaptive management for ABNJ deep-sea fisheries



Component 4: Development and testing of a methodology for area-based planning





Objectives of Component 4

- Develop a draft area-based planning methodology suitable for use in areas beyond national jurisdiction
 - Review applicability of area-based planning tools to ABNJ
 - Gather experiences and good practices from other regions
 - Understand the relevant governance frameworks
- Build capacity in the pilot regions for area-based planning in ABNJ
 - Support a planning process that incorporates ABNJ
 - Test area-based planning methodology
 - Provide policy-relevant advice



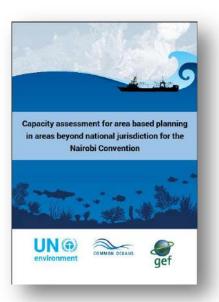


Capacity and Knowledge Sharing



Capacity assessment







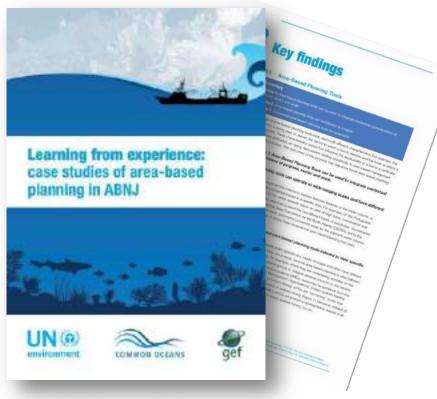


Knowledge Sharing

Area-based planning tools

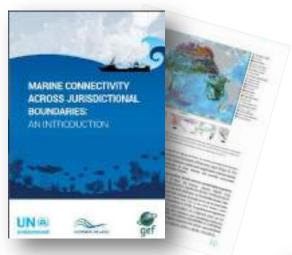


Case Studies





Data and Tools





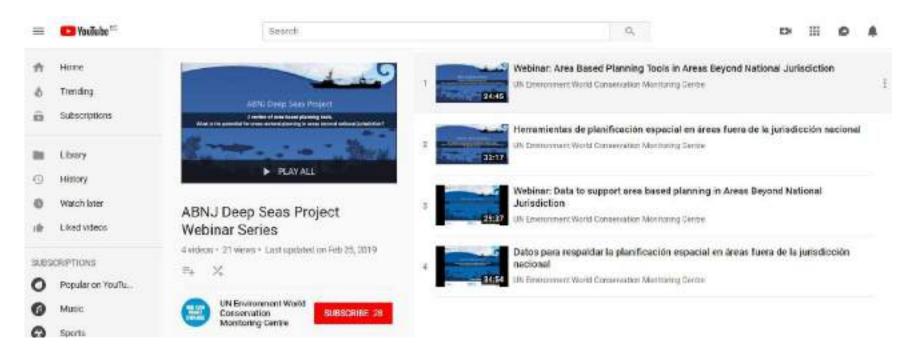






Webinars

- Area Based Planning Tools in ABNJ
- Data to support area-based planning in ABNJ



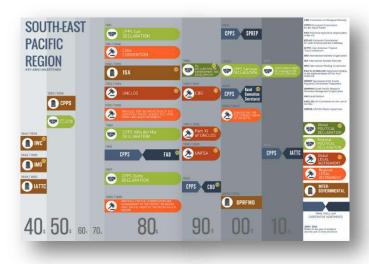


Governance Frameworks

Institutional Arrangements









Approach towards developing a Marine Spatial Planning process for ABNJ



Tool box addressing different aspects of planning



Synthesis materials highlighting the need for and benefits of ABP in ABNJ – targeted at decision-makers and politicians



Creation of marine spatial planning methodology



Outcomes of the project

- Improve understanding of the characteristics of ABNJ and activities occurring in the region
 - * Identifying the need for— and potential benefits of— planning
- Development of area-based planning knowledge
 - * Support technical knowledge through outputs to help engagement with BBNJ
- Develop capacity for engagement in area-based planning processes
 - * Explore what planning in ABNJ could look like development of a marine spatial planning methodology
- Support the development of regional resources
 - * BBNJ working group
 - * Regional metadata inventories
 - Regional connectivity reports











STRONG High Seas - Dialogue Workshop 2

Opportunities for Strengthening Ocean Governance in the Southeast Atlantic

Overview from Southeast Atlantic region perspectives with regard to ABNJ.

10-14 June 2019, Cape Town, South Africa

Abou Bamba



OUTLINE

UNEP

- 1. National and/or regional interests in ABNJ
- 2. Issues (environmental, social and economic) that affect those interests
- 3. National and regional initiatives put in place to address those issues
- 4. Factors that constrain the effectiveness of those initiatives
- 5. Ideas and perspectives since COP11 decision # 10 and on how to improve the situation in the region
- 6. Lessons drawn from coastal management and governance, and in the management of resources in the EEZs, which would be useful to apply in the management and governance of ABNJ in the region



1. Regional interests in ABNJ



- Fishing
- Shipping
- Deep sea mining
- Telecommunications
- Marine genetic resources
- Carbone sequestration/storage
- Offshore oil and gas
- Acquaculture / Sea farming
- Security



2. Issues (environmental, social and UNEP economic) that affect those interests

- Information, knowledge and capacity
- No control over the resources
- Competition with developped nations
- Poverty is still at an unacceptable level
- Threats to marine biodiversity



3. Regional initiatives put in place to address those issues

- Decision CP. 11/10. Conservation and Sustainable use of the Marine Biodiversity of the Areas Located beyond National Jurisdictions
- Africa Group statement at the 8th Ad-Hoc Open-ended Informal Working Group to study issues relating to the conservation and sustainable use of marine biological diversity beyond areas of national jurisdiction (i.e: common heritage of mankind principle + technical capabilities + transfer of marine technology
- STRONG, ABNJ Deep Seas projects





4. Factors that constrain the effectiveness of those initiatives

- No coherent regional framework
- Lack of capacities
- Lack of financial means
- No ocean governance mechanisms



5. Ideas to improve the situation in the region

- Establish comprehensive regional ocean governance mechanism
- Capacity building and transfer of maritme technology
- Learning from regions which have an « experience » on the subject (e.g: OSPAR)
- Focusing on the socio-economic aspects



Abidjan Convention

6. Lessons drawn from the management of resources in the EEZs, which would be useful to apply in the management of and governance of ABNJ in your region

- There is no regional approach or mechanism for EEZ management
- National maritime boundaries delineation is an issue
- EEZ seems far away
- ABNJ is even further





Abidjan Convention (ABC) Working Group on (ABNJ).



Abidjan Convention (ABC) Working Group on (ABNJ)NEI

Background

- Decision CP. 11.10
 - Creation
 - study all aspects of the conservation and sustainable use
 - Partnership
 - Scoping workshop
 - Preparation of ToR
 - Approval by the COP
 - Reference documents (AIMS 2050, AU Agenda 2063)



Abidjan Convention (ABC) Working Group on (ABN)

Terms of Reference

- Members / Composition Parties, Non-Parties, Technical Cooperation Partners, etc.
- Tasks (5) (i)issues to be studied, (ii) studies, (iii) capacity building, (iv) technical reports, (v) recommendations to COP
- Financial Resources



Abidjan Convention Working Group on (ABNJ). (C'd)

Programme of Work

- Basic Principles
 - Post 2015 agenda
 - Ecosystem based approach
 - Regional approach
 - Involvement of all stakeholders



Abidjan Convention Working Group on (ABNJ). (C'd)

Elements of the Programme of Work

- Programme Element 1 : Relationship between the upcoming legal instrument with other instruments and frameworks
- Programme Element 2 : Marine genetic resources, including questions on the sharing of benefits `
- Programme Element 3: Measures such as areabased management tools, including marine protected areas





- Programme Element 4: Environmental impact assessments (EIA)
- Programme Element 5: Capacitybuilding and transfer of marine technology
- Programme Element 6: Institutional arrangements, responsibility, dispute settlement and final clauses





African Position Paper

- Extension of the working group
- Crucial to have an African Position paper with the regional Conventions such as the Nairobi and the Barcelona conventions
- -Collective meeting in Cape Town June 12th





THANK YOU!























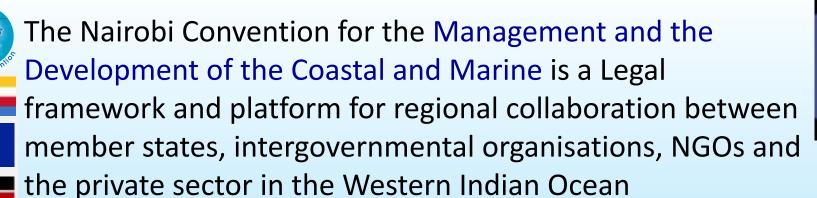


Areas Beyond National Jurisdiction in the Western Indian Ocean Region

Dixon Waruinge Head, **Nairobi Convention Secretariat United Nations Environment Programme**

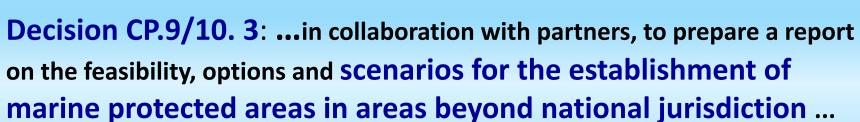


THE NAIROBI CONVENTION





Decision CP.9/10. 2: ... cooperate with existing regional institutions on ocean governance and the conservation of marine biodiversity in adjacent areas beyond national jurisdiction ... to promote blue economy pathways in the Western Indian Ocean region







THE WESTERN INDIAN OCEAN (WIO)

Why the WIO Matters









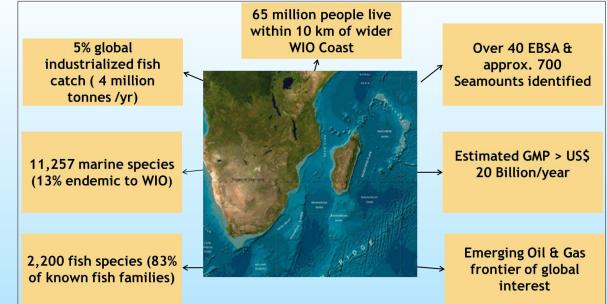






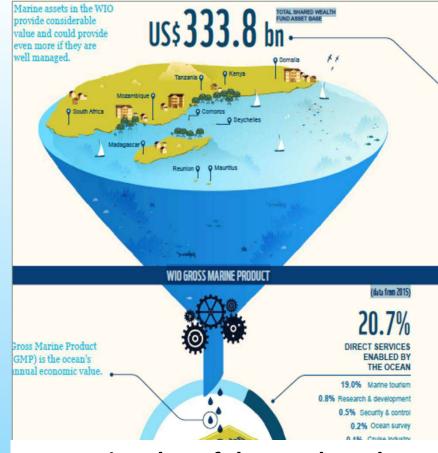






Increasing emphasis on the sustainable use of ocean and coastal resources for blue economy growth





Economic value of the goods and services estimated at over US \$20 billion per year with an asset base of US\$ 333.8 billion

ANAGEMENT & DEVELOPMENT OF THE WIO



GOVERNANCE INSTITUTIONS















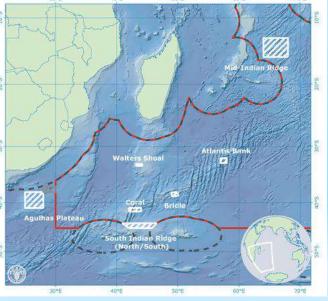


















THE DUALISM: SOVEREIGN RIGHTS + FREEDOM OF ACCESS = CHALLENGES FOR ABNJ GOVERNANCE







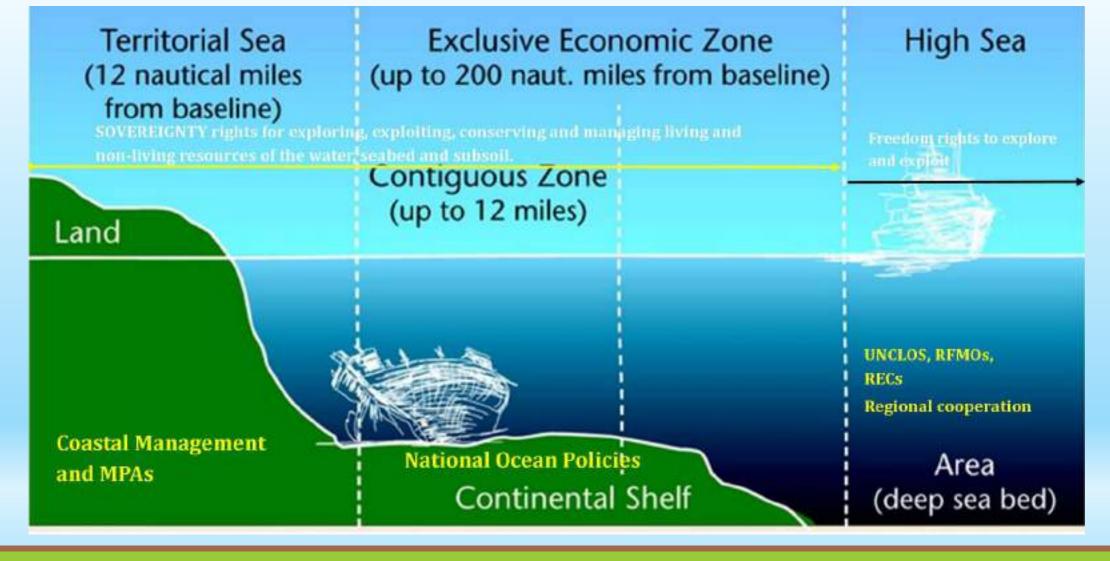














IMPORTANCE OF ABNJ











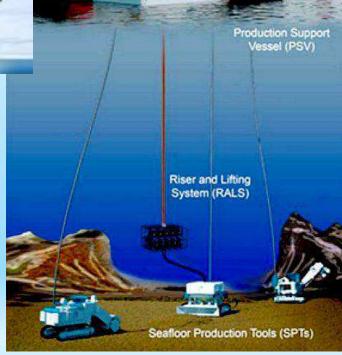








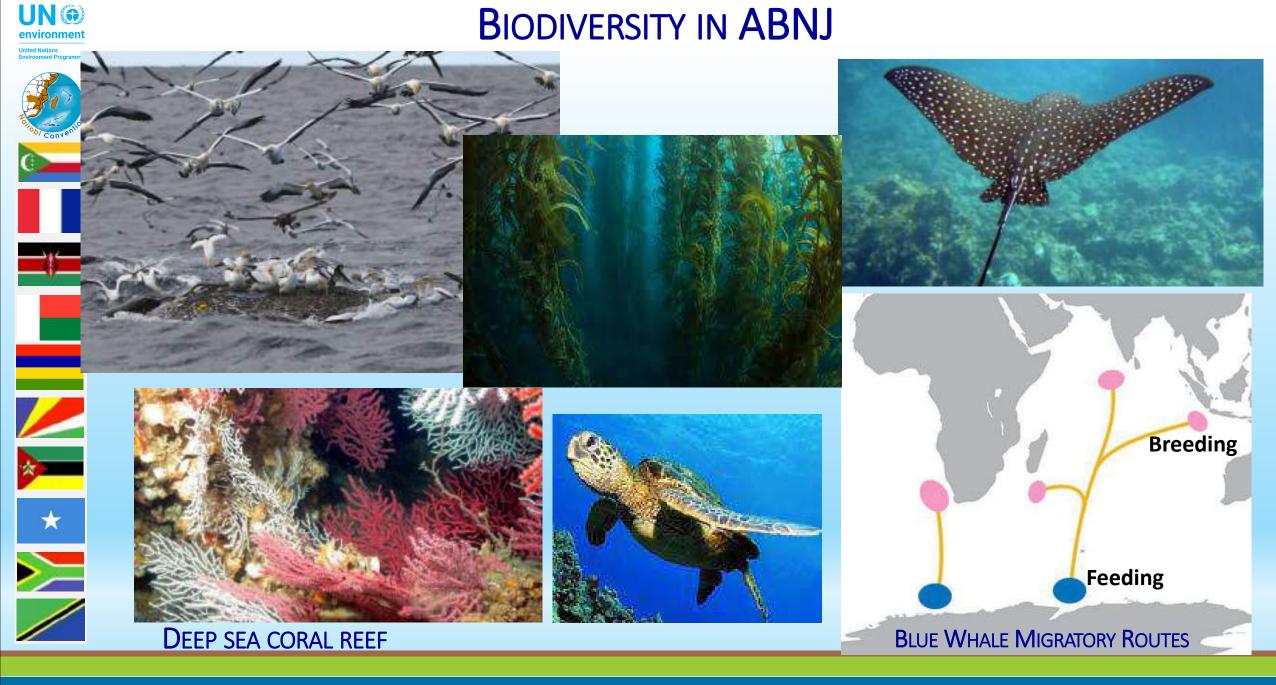




DEEP SEA MINING

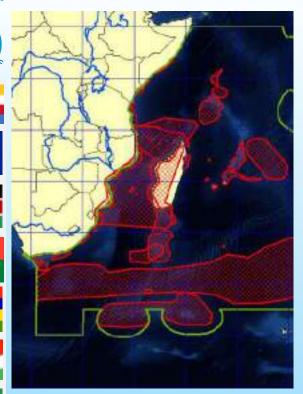






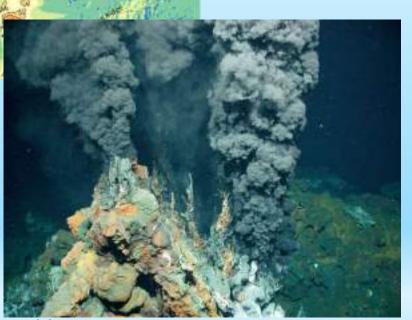


BIODIVERSITY HOTSPOTS



EBSA IDENTIFIED FOR WIO REGION

APPROXIMATELY 700
SEAMOUNTS IN WIO
REGION





NEW MPA OPPORTUNITIES



UN®





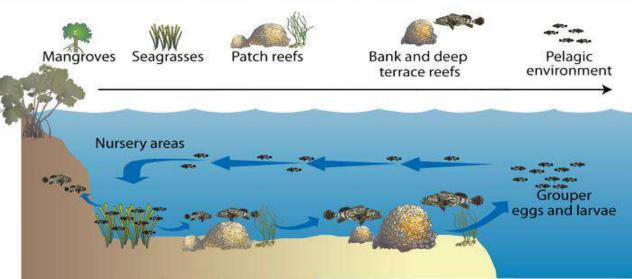




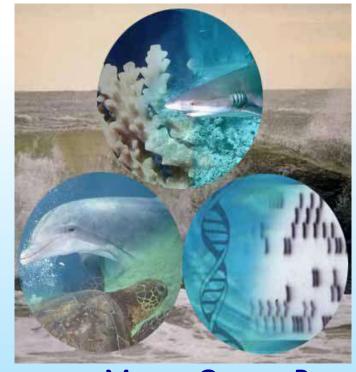




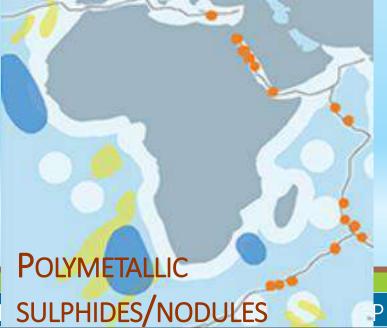
OPPORTUNITIES



CONNECTIVITY — SO FAR YET SO CLOSE



MARINE GENETIC RESOURCES





Mauritius Seychelles - ocean economy (Seabed Exploration, Fishing, Shipping, Renewable energy, Ocean knowledge)



*

CHALLENGES IN ABNJ

1. Lack of awareness - ABNJ are "out of sight, out of mind" to most of the public

 harness public concern for marine living resources, minerals, precious metals, as well as marine genetic resources

2. Institutional **governance gaps exist** in regulating multi-sectoral and emerging











AREA BASED PLANNING IN ABNJ



Targeted Area-based Planning Tools











- Key Biodiversity Areas
- Vulnerable Marine Ecosystems

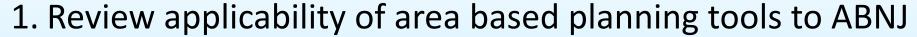


ABNJ DEEP SEAS PROJECT: COMPONENT 4



OBJECTIVES







2. Gather experiences from regional ABNJ area-based planning



3. Develop and test area-based planning tools in pilot regions



AREA BASED PLANNING TOOLS MEETING ORGANIZED BY NAIROBI CONVENTION AND UNEP-WCMC





Outcomes:



Countries recognized need for integrated management of areas within and those beyond national jurisdiction (EEZ & ABNJ) due to issues of interconectivity and migratory species



Countries called upon Nairobi Convention to support ABNJ management through:



1. Capacity building

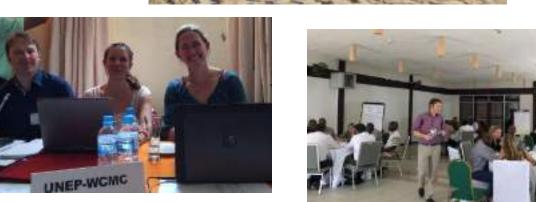


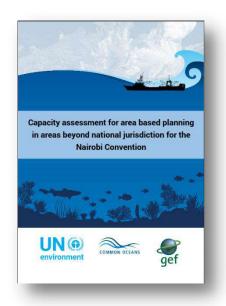
2. Awareness creation

Capacity and Knowledge Sharing



Capacity assessment



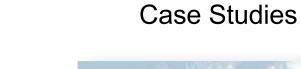


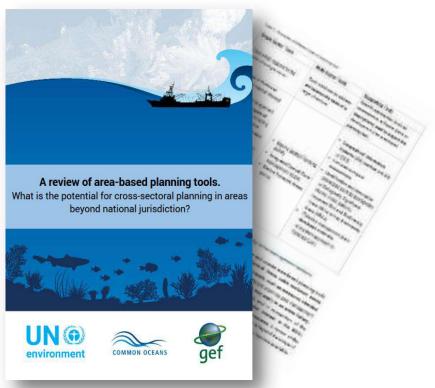


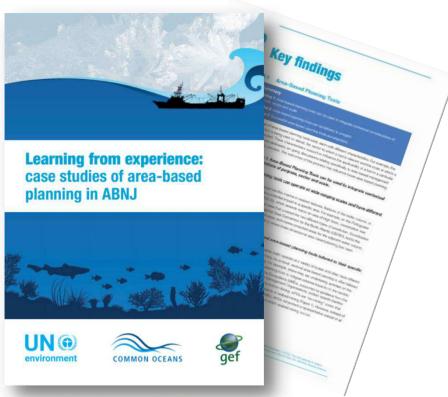


Knowledge Sharing

Area-based planning tools





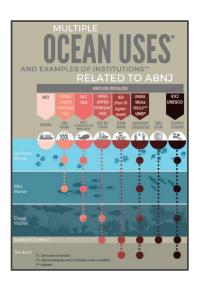


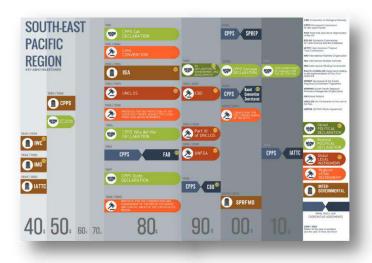


Governance Frameworks

Institutional Arrangements









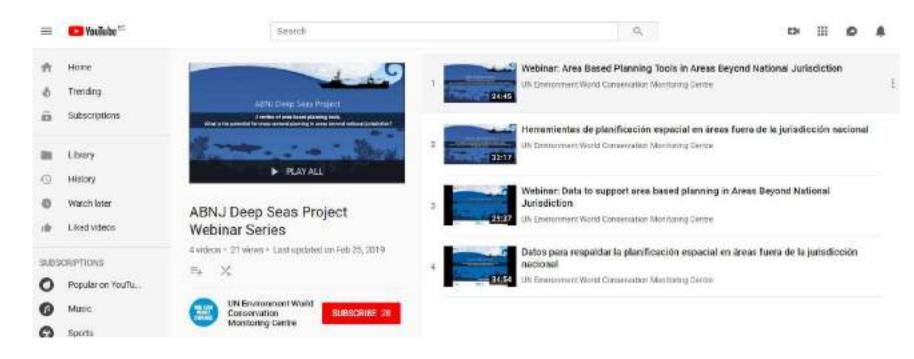
Data and Tools



COMMON OCEA

Webinars

- Area Based Planning Tools in ABNJ
- Data to support area-based planning in ABNJ





Approach towards developing a Marine Spatial Planning process for ABNJ



Tool box addressing different aspects of planning



Synthesis materials highlighting the need for and benefits of ABP in ABNJ – targeted at decision-makers and politicians



Creation of marine spatial planning methodology





PROJECTS BACKGROUND AND LINKAGES



SAPPHIRE Project

















Promote **policy harmonization** in the WIO region to achieve effective long-term ecosystem management in the WIO Large Marine Ecosystems

Component 4: Support demonstration of best lessons and practices in strengthening *partnerships for management of areas beyond national jurisdiction*



WHAT WE PLAN TO DO IN ABNJ



AFRICAN UNION AGENDA 2063; GOAL 6; BLUE/OCEAN

ECONOMY



Africa's Blue/ocean economy, major contributor to continental growth and transformation through:



Sustainable exploitation of marine resources and energy



Streamlining of port operations and aquatic transport



Enhancing application of management tools MSP, EBM, ICZM etc



Ocean Governance Strategy for WIO region





What we Plan to DO in Ocean Governance















5TH JULY – Ocean Governance Session –WIOMSA symposium

August/September - Regional Ocean Governance Workshop

September - Marine Regional Forum -IASS

2020 Ocean Conference







Nairobi Convention Secretariat

UN Environment

Phone: +254 20 762 2025/1250

Email: NairobiConvention@unep.org

http://www.unep.org/NairobiConvention/

Twitter: @NCSecretariat











Demonstrating Innovative Ocean Governance Mechanisms and Delivering Best Practices and Lessons for Extended Continental Shelf Management within the Western Indian Ocean Large Marine Ecosystems.

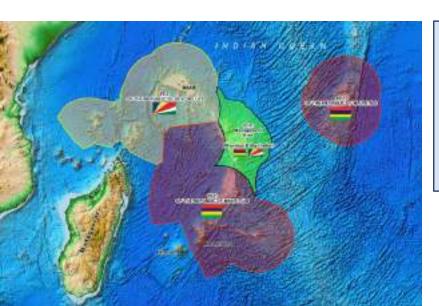
(Short title: UNDP-Joint Management Area [JMA] Demonstration Project)

Allen Cedras International Project Manager

Background

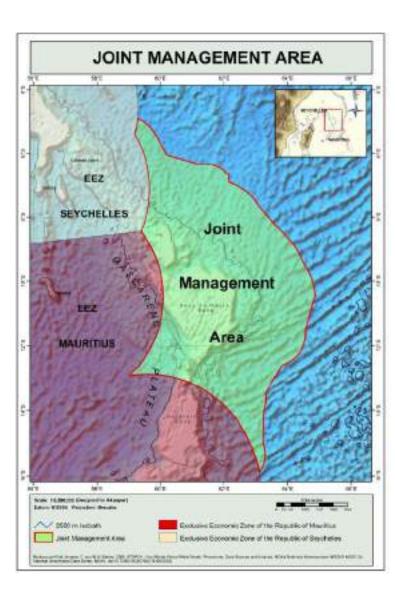
Extended Continental Shelf (ECS) - Joint submission

- <u>29 July 2008</u> Agreement between the Government of the Republic of Mauritius and the Government of the Republic of Seychelles on the **Delimitation of the Exclusive** <u>Economic Zone</u> between the Two States
- <u>1 December 2008</u> Extended Continental Shelf Joint Submission made by Mauritius and Seychelles concerning the Mascarene Plateau Region to the Commission on the Limits of the Continental Shelf, in accordance with **Article 76**, paragraph 8, of the United Nations Convention on the Law of the Sea
- 30 March 2011 the Commission adopted by consensus the "Recommendations of the Commission on the Limits of the Continental Shelf in regard to the joint submission made by Mauritius and Seychelles concerning the Mascarene Plateau region on 1 December 2008".



UN Recommendation 2011

Joint jurisdiction over seabed and subsoil for an area of **396,000 sq. kilometers**



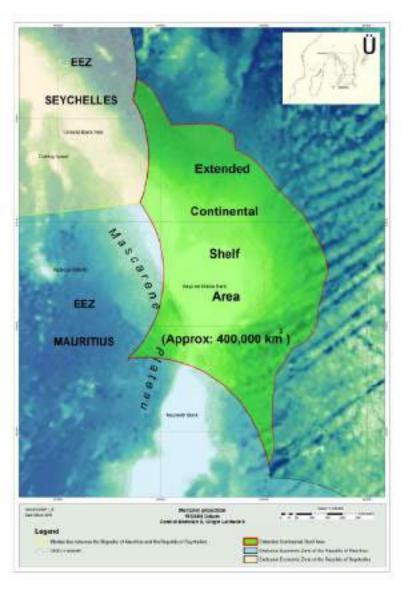
UNDP-JMA and **SAPPHIRE** Project Linkage:

Component 4: Deliverable 4.2, Delivering best practices and lessons through innovative ocean governance demonstration (particularly strengthening partnerships for management ABNJ)

Joint Management Area(JMA) Demonstration project – Mauritius & Seychelles







Project ID: 00094557

Output ID: 00087614

Business Unit: MUS10

PIMS number: 5262

Implementation Modality: NIM

Project Funding:

The project is worth 2.2 M USD in GEF grant financing, will be executed over 4 years from 2018 to 2021.

Dr. Rezah Badal: National Project Director: E-mail: mrbadal@govmu.org

Allen Cedras: International Project Manager: allen.cedras@undp.org

Ms. Ridheema Jhowry: Project Assistant: ridheema.Jhowry@undp.org

- Countries: Mauritius and Seychelles
- Focal SDG: SDG 14 Life Below Water
- Focal Area: International Waters (IW), GEF-5
- Strategic Programmes: IW Objective 2: Catalyse multistate cooperation to rebuild marine fisheries and reduce pollution of coasts and Large Marine Ecosystems (LMEs) while considering climatic variability and change.
- **IW Objective 3:** Support foundational capacity building, portfolio learning, and targeted research needs for ecosystem-based joint management of trans-boundary water systems.
- IW Objective 4: Provides support for first pilot efforts at preventing degradation of valuable ocean areas beyond national jurisdictions It aims to promote effective management of marine areas beyond national jurisdiction.
- Implementing Agency: United Nations Development Programme (UNDP)
- Executing Agency: Government of Mauritius, Ministry of Defence and Rodrigues through the Department for Continental Shelf Maritime Zones Administration and Exploration. (on behalf of the Joint Commission for the JMA)

UNDP JMA Demonstration Project Goal and Objectives

- The UNDP-JMA Demonstration Project has the overall objective to identify and demonstrate new management approaches and techniques concerning databases management for the Mascarene Plateau.
- The UNDP-JMA Demonstration Project will assist Seychelles and Mauritius in the development and demonstration of new management approaches bridging the gap between science and policy in the extended continental shelf areas which can provide lessons and management techniques that can be replicated both within the Western Indian Ocean as well as other similar maritime zones globally.
- The UNDP-JMA Demonstration Project shall also attempt at identifying the data gap in terms of the underlying living and non-living resources in the joint zone.

The JMA Demonstration Project aims at achieving its goals and objectives through the delivery of four components as follows:

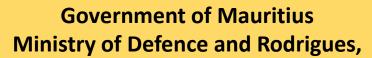
- 1.Building Technical and Management Capacity in support of Marine Spatial Planning (MSP) and effective management of the Joint Management Area.
- 2.Development of a data and information system along with a Programme of data capture and gap-filling as a foundation for an adaptive management strategy.
- 3.Adoption and implementation of a Marine Spatial Planning approach with the objective of improving and implementing effective decision-making for activities within the Joint Management Area.

4. Monitoring, Evaluation, Adaptive Feedback and Sustainability using UNDP and GEF tracking tool for both annual progress and terminal evaluation.

Project Implementation Arrangement



United Nations Development Programmes (UNDP)



Department for Continental Shelf, Maritime Zones
Administration and Exploration, (CSMZAE)



UNDP- Joint Management Area Stand-alone Demonstration Project.

Project Management Unit (PMU) Headed by a Project Manager

The Project Steering Committee permanent members.

Permanent Members:

- Representative(s) of Mauritius delegation to the Joint Commission
- Representative(s) of Seychelles delegation to the Joint Commission
- Representatives of UNDP (both UNDP Mauritius/Seychelles and UNDP-GEF)
- The JMA Demonstration Project Manager (Act as an ex-officio and Secretariat to the PSC).
- A Co-Chair of the Joint Commission and the UNDP Resident Representative will jointly chair the Steering Committee meeting.

PSC permanent members may invite others either as an Observer (with no voting rights) or a full permanent member as deemed necessary/desired at any time during the project implementation.

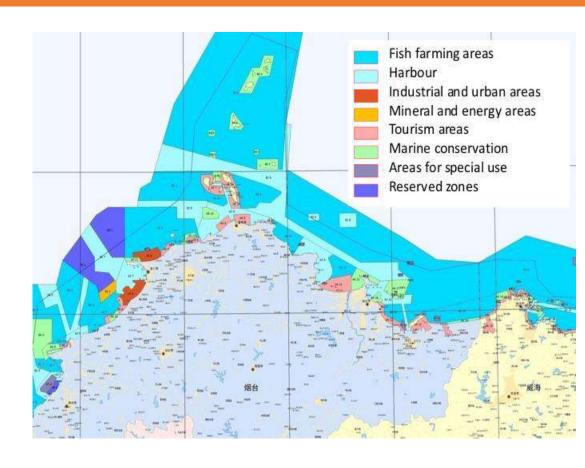
Focal activities and Consultancies

Focused activities	Timeframe	Consultancies	Timeframe
1. MSP Framework	2018 to 2021	Marine Spatial Planning Process: MSP Specialist	2019, 2020, 2021
2.Data Management System:			
A. Data system architecture and	2019, 2020	Monitoring, Control and	2019
design		Surveillance (MCS)	
B. Recommended hardware and	2019,2020	Specialist	
software		Communication Consultant	2019, 2020, 2021
C. Data repatriation and data Capture and monitoring system	2020,2021	IT Specialist (GIS and Data Management)	2019, 2020
3.Associated capacity Building activities.	2018-2021	High Seas Governance Specialist	2020.
		Legal Guidance on Ocean Governance: Short Term, 2020	

JMA-Marine Spatial Planning overview

UNDP-JMA Demonstration Project is to establish a comprehensive marine plan to address key challenges in the Joint Management Area.

This multi-use design of the JMA MSP Initiative will serve as the basis for guiding the implementation and achievement of strategies and decisions of the Joint Commission



Objectives for JMA Marine Spatial Planning

- Provide a framework for the identification, selection, establishment and management of:
 - Critical areas for the exploration for and development of living and non-living marine resources;
 - Environmentally important and sensitive areas; and
 - Areas of multiple use and potential future user conflict.
- Preserve and protect the marine resources and ecological structures of the JMA, including those that support ecosystem function of the wider western Indian Ocean region;
- Ensure the sustainability of the economic uses of the JMA by promoting sustainable management of industry and minimization and mitigation of threats.

Objectives for JMA Marine Spatial Planning cont'

- Promotes appropriate use of the space by ensuring that decisions in relation to the allocation of resources in the JMA are environmentally, socially, culturally and economically balanced;
- Reduce and resolve spatial and temporal conflicts among current and future human activities and between human activities and nature;
- Integrate ecosystem-based management with the management requirements of oceans-based industries;
- Identify data and sources of data relevant to the JMA which will enable a better knowledge of the JMA's seabed and sub-soil.

Data Management system to support MSP Process

- Identify data and data sources relevant to the JMA and recommend a strategy for the repatriation of such data;
- Develop a proposal for a hardware data system architecture and its related design together with recommendations for appropriate hardware and software including data management policy to support MSP process and JMA needs;

• Draft protocols for storage, access, and dissemination of data.

Monitoring, Control, and Surveillance

- Identify options for monitoring, control, and surveillance of human activities in the JMA,
- Potential risks to human activities that may pose a threat to the resources and environment of the JMA, and provides appropriate tools, options, and/or scenarios to mitigate such risks.
- Identify possible monitoring, control and surveillance methods to track the activities identified under (1) above to develop a comprehensive maritime domain picture of the JMA.
- Conduct a capacity gap analysis in monitoring control and surveillance management, to support the JMA management process (Seychelles and Mauritius), including a review of International Best Practices and deliver a workshop to stakeholders;
- Identify, and make recommendations on, appropriate MCS tools (both hardware and software) to support the implementation of a management framework for the JMA (E.g. satellite tracking, in-situ monitoring devices, etc).
- Identify available MCS data, data priorities, and projects to fill data gaps

Thank you

Seychelles and it's Maritime Spaces

From Exclusive Economic Zones to Extended Continental Shelves to Areas Beyond National Jurisdiction

Prepared by Francesca Adrienne Director General, Maritime Boundary Management Department of Blue Economy

Who Owns the Ocean?

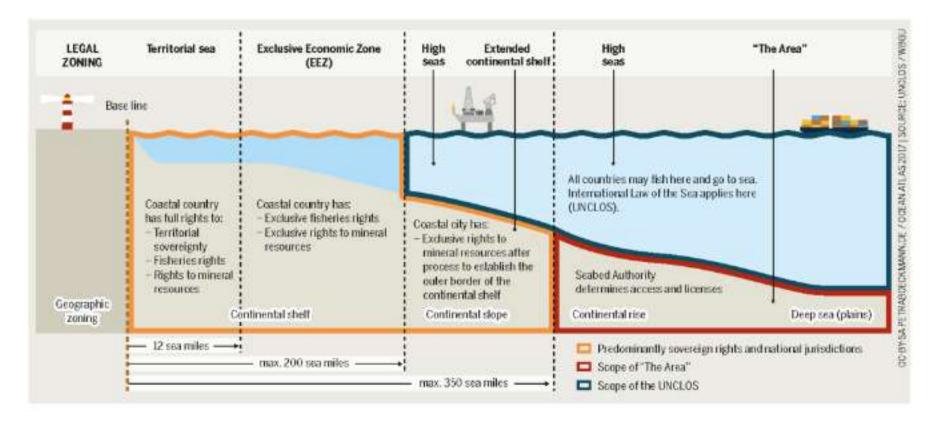
- The United Nations Convention on the Law of the Sea (UNCLOS 1982) which Seychelles ratified in 1991, says that a country may claim an area extending 12 nautical miles from its coast as its own territorial sea. Additionally it can exploit 200 nautical miles of the water column beyond its coast as its exclusive economic zone. The same applies to the first 200 nautical miles of the sea floor, the continental shelf. The resources found there can be exploited by that country alone. If the country can scientifically prove that it has an extended continental shelf - must continuously geologically connected to the mainland - it also has the sole rights to the resources there as well, but only on the sea floor and not the water column above....the high seas
- Within the economic zones, national laws apply governing the exploitation of resources and can environmentally protect some areas where it is needed.

- this constitution of the ocean is intended to peacefully adjudicate the interests of all states and it is intended to guarantee that the environment is protected and that developing nations also have their share of the riches
- but there are loopholes: pirates can be detained by anyone who catches them, but not polluters, illegal fishing fleets, terrorists, weapons dealers, drug smugglers, or human trackers. They can only be pursued by the countries from which they originate. It is often more than unclear who the responsible international organisations are

Territorially speaking, the high seas or "the area" belongs to no one – and so when it comes to exploitation, they belong to everyone and is based on the concept of

"the shared heritage of humanity"

- The high seas cover two thirds of the ocean and are home to 90% of marine life, but this vast expanse of water and seabed that lies beyond the national jurisdiction of any one country has no comprehensive protection.
- UNCLOS guarantees countries the freedom to fish, travel and lay cables in the high seas. It also defines the responsibilities of the use of the ocean, establishing guidelines for businesses, environmental protection, and the management of natural resources.
- Under UNCLOS, almost 20 international organisations manage human activities on the high seas, but they are restricted in their scope.
- Overlapping interests, complicated jurisdictional issues, and gaps in authority have made protection of the high seas nearly impossible to manage.
- At the same time, the growing threat from human activities, including pollution, overfishing, mining, geoengineering, and climate change
- This has made the need for an international agreement to protect these waters even more critical than ever.

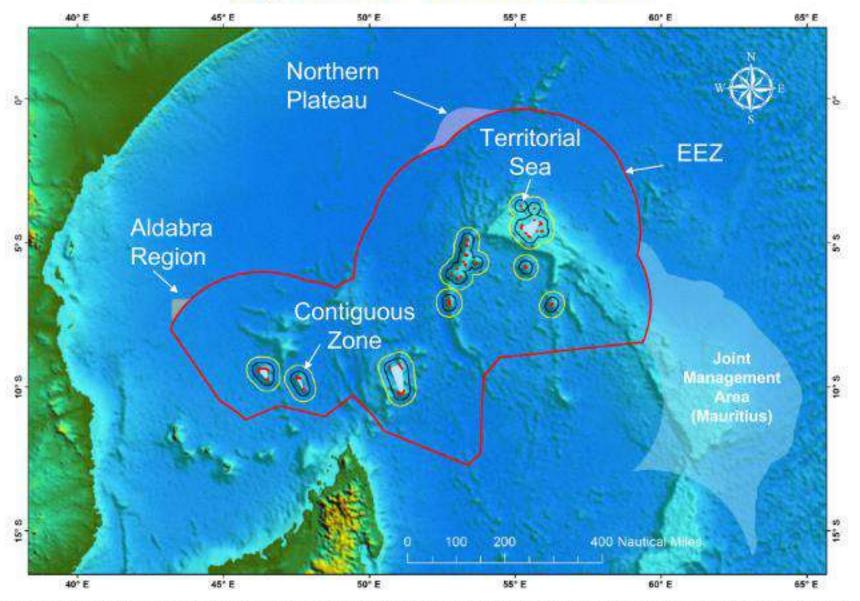


Seafloor in "the area" is administered by the International Seabed Authority

RFMOs organizes the cultivation of the fish stocks in the area as well as the trans-territorial fish stocks in the EEZs

UNCLOS applies to the areas beyond national jurisdiction (ABNJ) where all countries can fish

Seychelles Maritime Zones



Joint Management Area of 396,000 sqkm – first and only JMA over the ECS in the world, treaty was signed in 2012

...a little bit more about Seychelles



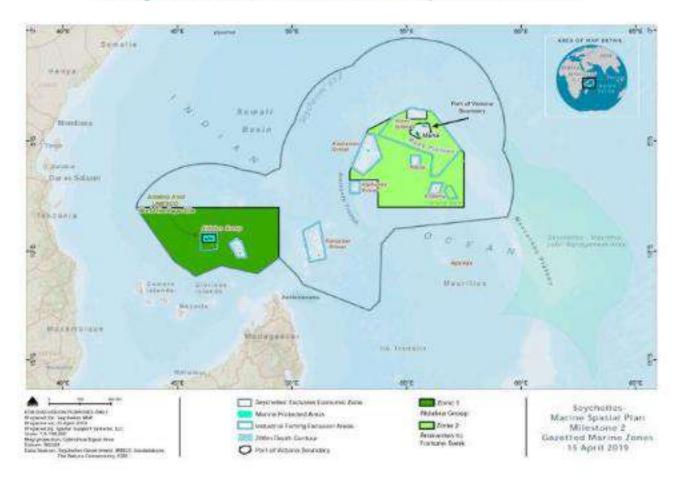
116 islands
Population of 94,000
3 main inhabited islands
Land area is 454 sqkm
EEZ 1.4 Million sqkm
Large Oceanic State
GDP 15,410 USD

Seychelles has benefitted from its ocean resources for over 200 years with the development of fisheries, the reliance on international and domestic shipping supporting trade, our position as a global leader in marine conservation and in the tourism industry.

Over the years the interest in the ocean has grown in response to challenges, constraints, threats - over and non-regulated fishing affecting stock assessment & biodiversity, marine pollution, maritime security, climate change.

An integrated approach to ocean based sustainable development which brings together Economy, Environment and Society, consistent with the Sustainable Development Agenda 2030 (SDG's), the Convention on Biological Diversity (CBD) and the Paris Agreement on Climate Change (2015) – BLUE ECONOMY

Seychelles Marine Spatial Plan



A government led process, initiated in 2012, facilitated by The Nature Conservancy (TNC) in partnership with UNDP GEF PCU. The goal was to protect 30% of the EEZ, including a 15% no take zone (only 0.04% before that). The Debt-for-Climate-Change-Adaptation swap in 2016 raised funding, which has been redireted to fund siustainable projects.

Phase 1

Initiated 2014

Completed 2017

Legalised in Feb 2018

Milestone 1 - 15% coarse zoning with all territorial seas demarcated as medium sustainableuse

Phase 2

Initiated Feb 2018 - also legalised the marine protected areas of Aldabra and Amirantes group

Ongoing till 2020

January 2019 - 26% of the EEZ has been mapped and defined

Milestone 2 and 3 - the other 15%

Refining the zoning design

Implementation Plan

Formalising the funding and costs

Environmental activities within EEZ

Aldabra Cleanup - from Feb 20 to March 2019

12 volunteers for 5 weeks

25 tonnes of plastic including 50,000 pairs offlip flop

Ban on Plastic

Jan 2017 - ban on the importation of all single use plastic bags, styrofoam containers and plastic cutlery by commercial entities

July 2017 - the ban on the use of plastic bags, and cutlery

Ban on Plastic Straws

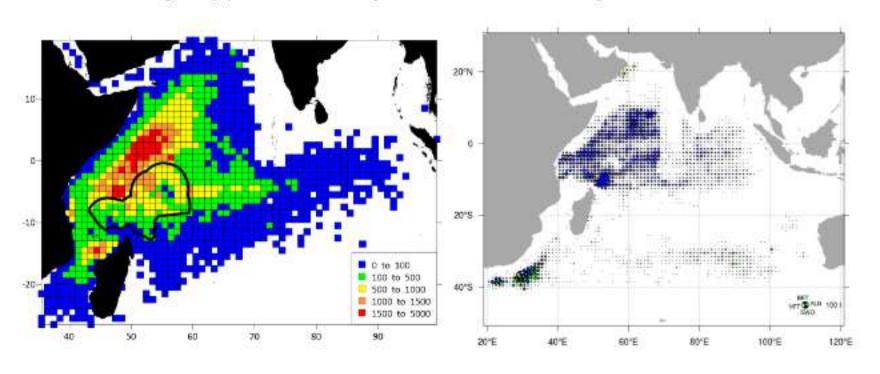
Jan 2019 - ban on the importation of plastic straws except for juice boxes

July 2019 - ban on the use of plastic straws by any commercial entity and will be protected by environmental laws that are being put in place

Ongoing awareness programmes - community action

Migration of tuna in the Indian Ocean

Research in fish especially tuna which is one of the key economic pillar, knowing their migratory patterns in the Seychelles waters and the larger Indian Ocean...





Sharing the benefits and responsibilities

The goal of the BBNJ is so that nations can share equally in the benefits and resources offered by the high seas, and can work together to ensure sustainable development of the marine environment.

- The four key issues up for discussions and negotiations:
 - to minimise impacts with environmental impact assessments
 - to establish a system for sharing the benefits of marine genetic resources
 - to build capacity and transfer technology for developing nations
 - to establish regional conservation mechanisms such as MPAs to protect vulnerable areas
- this binding agreement on protecting the high seas is being seen as the most important piece of marine legislation since UNCLOS came into effect in 1994.

The negotiations so far...

- Most of the developed countries did not want to commit on binding elements particularly for EIAs and sharing of benefits
- There are still some parties are arguing that High Seas belongs to no one and everyone and wanted to maintain the UNCLOS status quo
- Coastal states and particularly SIDS insisted on maintaining the concept of adjacent countries in getting benefits from sustainable use of the resources adjacent to their EEZ

...where to from here

working on building a better future for our shared heritage of humanity



PRESENTATION AT THE JOINT WORKSHOP ON IMPROVING OCEAN PLANNING AND GOVERNANCE FOR THE ABNJ AND BBNJ IN THE SE ATLANTIC AND WEST INDIAN OCEAN, 10-14, JUNE 2019, CAPETOWN, SOUTH AFRICA

NIGERIA

NATIONAL POLICIES AND STRATEGIES

Do you have a national ocean policy / strategy in place? No.

Country policy/legislation on ABNJ - No.

Marine Spatial Planning – No.

NATIONAL POLICIES AND STRATEGIES

INTEGRATED COASTAL (AREA) MANAGEMENT PLAN (ICAMP) – Developed.

OVERALL GOAL – to improve the livelihood of coastal communities through contribution to the successful management of the GOGLME project.

ICAMP STRATEGIES:

- preparation of ecological master plan to guide the use of coastal areas for diverse purposes and to limit land use and biodiversity loss
- facilitation of management structures for the protection and stabilization of damaged areas by appropriate methods
- promotion of sustainable agriculture, soil and water conservation techniques
- enforcement of compliance with the National Environmental Protection Regulations
- environmental assessment, monitoring and audit programmes will be operated routinely.

FISHERIES — Yes,

Federal Ministry of Agriculture & Rural Development had developed a National Fisheries Management Plan

BIODIVERSITY CONSERVATION – Yes. National Biodiversity Strategy and Action Plan (NBSAP) NBSAP Objectives:

- ► To address underlying causes of Biodiversity loss by mainstreaming Biodiversity across government, society and economic sectors
- ► To reduce the direct pressures on biodiversity and promote sustainable use
- To improve the status of biodiversity by safeguarding the ecosystems, species and genetic diversity
- ▶ To enhance the benefits to all from biodiversity and ecosystem services
- ➤ To enhance implementation through participatory planning, knowledge management and capacity building

WHAT IS THE ROLE OF REGIONAL COORDINATION IN THIS STRATEGY?

No direct roles assigned to the Region as the focus is mainly for **national action and regular**. However, these link to broader global agendas e.g ICAMP – LME management; NBSAP; Global Biodiversity conservation and management of the CBD; Fisheries Management Plans; Global Fisheries Management.

Does your country have an Inter-Ministerial Coordinating structure at which cross-sectoral issues are discussed - Yes

However,

In preparation for the BBNJ negotiation sessions – was this discussed nationally? No.

Has your country taken a formal decision to be actively involved in the discussions on ABNJ and do you have a strategy in this regard?

Nigeria made a formal submission to the UN Boundaries Commission through our representative, Prof. Awosika, to extend our EEZ to 350 Nautical miles – unable to confirm current status.

What are the main challenges within the BBNJ negotiations for your country and the region?

Nigeria –

- Lack of national consultation and coordination (No National Ocean Platforms; governance and policies)
- poor national institutional capacities
- poor or unavailable data and information to base and influence negotiations
- poor access to updated research and status of ABNJ alongside BBNJ
- lack of funds to ensure relevant negotiators participate actively for the 4 thematic areas MGR, ABMTs, EIAs, Capacity Building and Technology Transfer

How could the new BBNJ agreement help to better bridge cross-sectoral cooperation both within your country and further within your region?

- Facilitate/encourage the governments to formulate an oceans policy and governance structure. Currently, sectoral approach in policy, laws, regulations and even perspectives.

- Encourage more effective participation at the regional level to ensure policy and implementation coherence at all levels.

ADDITIONALLY..... IUCN'S RECOMMENDATIONS TO THE BBNJ CONFERENCE, SEPTEMBER, 2018

- ► Facilitation of developing countries' access to and research on marine genetic resources: improves and enhances scientific and technical advances for both developing and developed countries.
- ► A long-term strategic plan with science-based global priorities: can support connectivity, climate change resilience, and conservation of key ecosystems.
- ► Establishment of a mechanism or body to aid in global, regional, and national facilitation of communication, cooperation and coordination by relevant stakeholders in capacity building: effectively address the current issue of fragmented initiatives.
- A Scientific and Technical Body: effectively and independently guide, advise, and evaluate and provide assistance during ABNJ/BBNJ processes.

What has the region to 'offer' to the negotiations of a global BBNJ treaty in terms of - lessons learned and - experience in ocean governance?

- Wealth of internationally recognised individual **experts** in ABNJ and BBNJ
- Need for integrated approach in developing laws, strategies
- Need to have comprehensive laws regulating access to bioresources and **benefit sharing to States** which include the **immediate communities** to ensure intergenerational equity
- Strategic and Action plans active **participation** of both private and public institutions (consider including the Navy) which have the capacity and resources to design and implement the action plan

On which ocean governance issue(s) do you foresee the need for increased knowledge, data and capacity?

Increased Knowledge – generally, the need to increase understanding of the biodiversity on the continental shelf, the concept, research information on ecosystem status,

Data- All Areas

Capacity - ABMTs e.g Marine Spatial Planning (MSP), Marine based EIAs, marine biotechnology, deep sea mining, ocean resilience to climate change, operationalising the blue economy.

Additionally..... IOI enumerated six governance challenges:

- ► Land-Sea Interactions
- Area-Based Management
- Seabed Resource Management
- Nutrition Security and Food Systems
- ▶ Ocean, Climate Change, and Acidification
- ▶ Fisheries Governance
- All areas need attention: distribute according to funding and expertise availability

What support would you hope that the new agreement could deliver for the protection of BBNJ in the South-East Atlantic and Western Indian Ocean?

FAO'S 2018 POLICY BRIEF ON BBNJ CAPACITY BUILDING:

- skills that might be required to support the international agreement, including skills relating to marine scientific research, area-based management, environmental and impact assessment (including strategic impact assessment addressing cumulative and cross sectoral impacts), development of marine genetic resources, and development of national and regional policies and actions
- support in the conducting of a national capacity needs assessment, in regards to a new international agreement according to their own national priorities, capabilities, and responsibilities

Further..... Joanna Mossop , 2017 in BBNJ publications:

- Creation of a legally workable framework, internationally and legally, equitable sharing of benefits from exploitation of living organisms gotten from ABNJ seabeds with the international community as required by UNCLOS' Common Heritage of Mankind principle.
- high seas are regulated by sectoral regimes which are poorly or not coordinated. Need to focus on effective delivery of the environmental protection mechanisms (ABMTs, EIAs).
- operationalising obligations created by the ILBI and existing institutions;
- legal separation of responsibility where States having sovereign rights over the resources of the continental shelf, while the resources found in the water column are beyond national jurisdiction.

How can the STRONG High Seas and Deep Seas projects strengthen the presence of Abidjan Convention and Nairobi Convention States in the BBNJ negotiations?

- engenders collaboration and synergy between the 2 Regional Seas that can cascade into similar national level collaborations on oceans issues
- facilitates holistic approach to tackling ocean issues
- enable access to data and research works; prepare negotiating teams by providing technical support.

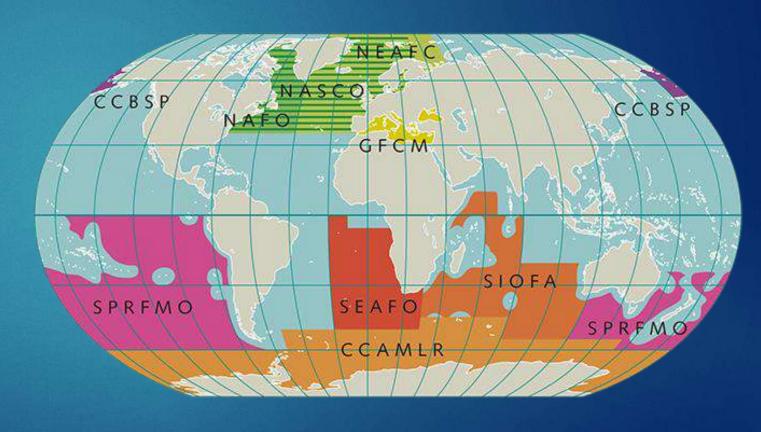
Thank you.

Merci beaucoup.

Halima Bawa-Bwari

South East Atlantic Fisheries Organisat

- SEAFO's CA lies in the Southeast Atlantic ocean beyond the EEZ's of the coastal states of Angola, Namibia, South Africa and United Kingdom (in respect of St. Helena and its dependencies of Accession Islands and Tristan da Cunha).
- It is a very large water mass covering approximately 15 million hectares.
- It is demarcated by the line beginning at the outer limit of Angolan EEZ at 6 degree S extending due west to 10 W degree, then north along 10 W up to the equator, then west to 20W, then due south all the way to 50 S degree, then due east to 30 E degree, then due north to the east coast of South Africa



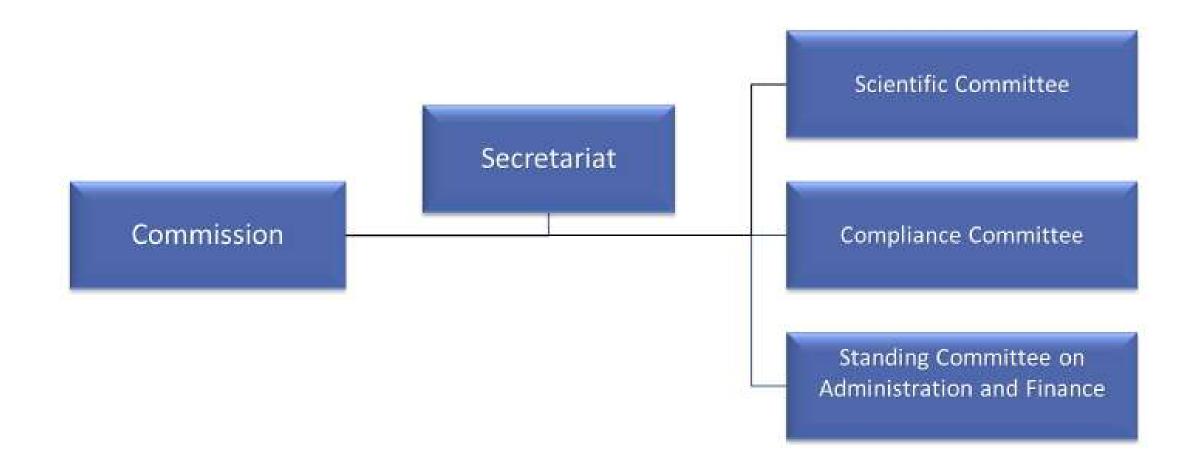
Parties to the Convention



Contracting Parties	
2	Angola Acceded: 07 March 2006
	European Union Acceded: 08 August 2002
	Japan Acceded: 10 January 2010
(•)	Rep. of Korea Acceded: 10 March 2011
//	Namibia Acceded: 26 February 2002
	Norway Acceded: 12 February 2002
>	South Africa Acceded: 18 June 2008

OVERVIEW OF SEAFO





SEAFO mandate and objectives



- SEAFO is mandated to conserve and manage fishery resources that include, fish, molluscs, crustaceans, and some sedentary species on the high seas in the Southeast Atlantic with the exclusion of tunas.
- ▶ Its objective is to ensure long-term conservation and sustainable use of the these resources through the adoption of conservation and management measures, applying the precautionary approach and ecosystem-based management.

GLOBAL INSTRUMENTS GUIDING MANAGEMENT OF RESOURCES IN SEAFO CA



- ▶ 1982 UNITED NATIONS CONVENTION ON THE LAW OF THE SEA (UNCLOS)
- ▶ The United Nations Fish Stocks Agreement (2001)
- ▶ The FAO Port State Measures Agreement (PSMA) (2016)
- ►The FAO Compliance Agreement (1993-2003)
 as well as soft law instruments, such as:
- ▶ The FAO Code of Conduct for Responsible Fisheries (1995)
- ▶ The International Plan of Action on IUU Fishing (2001)
- ▶ The International Guidelines for the Management of Deep-Sea Fisheries in the High Seas (2008)

SEAFO management strategies



- SEAFO sets annual TACs for four deep-sea species and one deepsea crab stock that also include bycatch regulations in one mixed fishery.
- ▶ A global TAC is allocated between parties, and a fishery is closed when the agreed total catch level is reached.
- Direct fishing on deep-sea sharks and the use of gillnets are prohibited.
- Measures to reduce incidental catch of seabirds have been established for longline and trawl fisheries based on the International Plan of Action for Reducing Incidental Catch of Seabirds in Longline Fisheries.

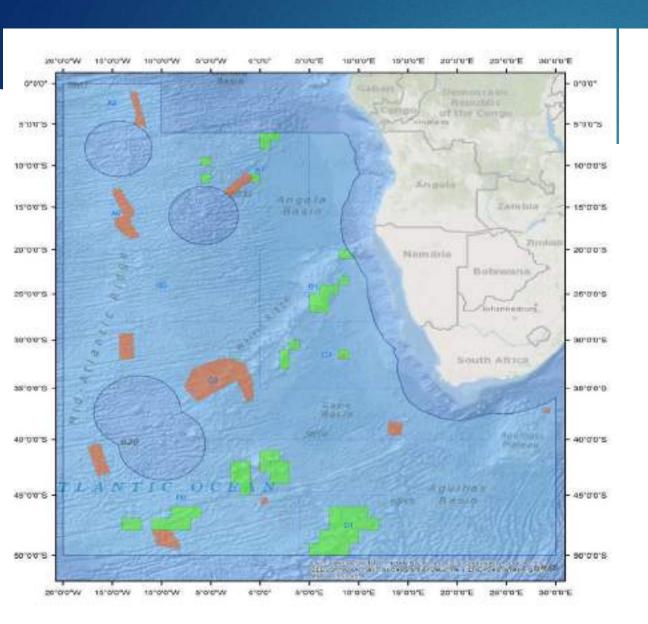
SEAFO management Strategies



- A system to minimize the risk of "ghost fishing" by obliging parties to ensure that their vessels attempt to retrieve any lost gear, and if unsuccessful, notification requirements (gear type, position, etc.) is in place.
- Measures are adopted based on the best available scientific information and the application of the precautionary approach.
- ► SEAFO can adopt legally binding measures related to fishing in the Convention Area.
- A series of measures in order to protect VMEs from significant adverse impacts through deep-sea fishing are in place.

SEAFO management strategies





- Areas that may or do contain benthic organisms have been identified and are closed to fishing (Red areas)
- A system of area management, defining "existing fishing areas" to be those areas where VMS data and/or other available data indicate that bottom fishing activities have been conducted, while "new fishing areas" are all other areas that are not defined as existing fishing areas has been established.
- Fishing in "new fishing areas" can only be undertaken as exploratory fishing.
- Parties must submit an assessment of the known and anticipated impacts that the fishing activity may have on VMEs in order to participate in exploratory fishing

SEAFO management strategies



- Such exploratory fishing has to be approved by the SEAFO Commission after which a special authorization/licence is granted to the vessel by its flag state.
- Commercial deep-sea fishing can therefore only take place within an area defined as existing fishing area.
- ► However, within such an area, approval for an exploratory fishery is needed if there are significant changes in the conduct and technology of the deep-sea fishing.
- Thus, contracting parties shall establish national legislation prohibiting their vessels to fish outside such fishing areas.

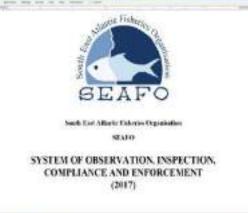
SEAFO strategies to protect VMEs



- To protect unidentified VMEs from significant adverse impacts, SEAFO has also established encounter protocols.
- An encounter is considered to occur when the bycatch of VME indicator species (live corals and sponges) is above threshold levels.
- ▶ The threshold values are different for trawls, longlines and pots.
- ▶ If the bycatch is above threshold levels, the vessel is required to cease fishing and move away at least 2 nautical miles from the end point of the trawl tow in the direction least likely to result in further encounters.
- If another gear is being used, then the "move-on" rule is 1 nautical mile from the most likely position of the encounter. The

SEAFO MCS





- SEAFO has established a system of observation, inspection, compliance and enforcement that puts a series of obligations on those fishing for deepsea species in the CA.
- These include general control measures, such as authorizations to fish, vessel requirements (e.g. marking of vessels, documents to be carried on board), marking of fishing gear and product labelling.
- ▶ There are requirements on logbook recording, mandatory implementation of VMS and communication concerning entry and exit to and from the CA, and catch reports every five days.
- ▶ In addition, parties have to ensure that all their vessels operating in the SEAFO area carry scientific observers.
- Transhipment operations at sea is prohibited.

SEAFO MCS measures



- ► The system also contains details concerning monitoring of transhipments in port describing duties of contracting parties, both as flag states of any donor or receiving vessel.
- ► Furthermore, the scheme contains a chapter on port state control, corresponding with the **FAO PSMA** measures.
- Contracting parties must also adopt national legislation concerning obligations of masters on their vessels during inspection procedures in foreign ports.

SEAFO MCS



- ► The system contains a specific chapter on measures to promote compliance, which in essence deals with vessels identified to have been involved in IUU fishing.
- ► They are listed (SEAFO IUU Vessel List), and the system subsequently obliges contracting parties to take a number of follow-up actions against those listed vessels.
- Actions requiring domestic implementation include the prohibition of port entry, refusal of granting nationality, and prohibition against chartering such vessels.

Guidelines for fisheries research and basic marine science activity in the SEAFO Convention Area



- The primary purpose of these guidelines is to facilitate that high-quality science is conducted freely and to the benefit of all while ensuring that the activity is conducted in a manner which does not cause significant adverse impacts (SAI) on the marine ecosystems and organisms, including fisheries resources.
- ▶ The party is requested to submit to the Executive Secretary of SEAFO, preferably no later than 6 months of the intended period of sea-going activity, a letter of intent explaining the activity being planned.
- ► The ES provides guidance on any management measures that may be relevant to the intended research activity, as well forms and routines for submitting reports and/or data.
- Upon receiving the response from SEAFO, the party is requested to submit, no later than one month prior to the sea-going activity, a more detailed plan outlining methods to be used, areas to be sampled, sampling intensity, samples generated, and data to be gathered.
- The plan should also provide information on what measures will be implemented to mitigate anticipated negative impacts on fisheries resources and biodiversity, in particular VMEs.
- Upon receipt the letter of intent and detailed plan is forwarded to all SEAFO Contracting



Capacity building initiatives

- Scientific observer and Port Inspector training are conducted in cooperation with ABNJ deep seas project
- Developing countries were trained on international instruments relevant to deep-sea fisheries and associated biodiversity during the first DEEP-FLIP training workshop which was held in October 2019 in Thailand, with selected countries from the SIOFA and SEAFO regions - ABNJ deep seas project
- A MCS workshop for SIOFA and SEAFO was conducted for members to identify gaps in their MCS frameworks and develop plans of actions to address the gaps - ABNJ deep seas project

RFMO/As



- ▶ RFMO's are regarded as appropriate mechanisms for cooperation in managing high seas fish stocks, which include deep-sea species.
- ▶ RFMO's provide a platform for nations with a 'real interest' in the ABNJ to share in the responsibility for proper management and conservation of ABNJ, shifting the focus from 'no-one' to 'everyone'. RFMO/As are also important mechanisms through which other fisheries instruments are implemented.

RFMO/As



- ▶ The role of RFMO/A's is significantly strengthened by UNFSA.
- ▶ NPFC, SEAFO, SIOFA and SPRFMO's have been established after the adoption of UNFSA, using the agreement as a template for negotiating the treaties
- Since the adoption of UNFSA, all RFMO/As have used the agreement as a basis and inspiration for the development and subsequent adoption of conservation and management measures.
- Most pre-UNFSA RFMO/As have revised and/or amended their founding treaties in order to bring themselves in line with modern management principles.



Cooperation with other RFMO's and other organisations

- ▶ The Commission embraces cooperation with other RFMO's
- to strengthen global high seas fishery governance
- sharing of information, such as IUU fishing activities
- SEAFO attends annual meetings of CCAMLR, ICCAT, NAFO, NAMMCO and NEAFC
- Has close working relationship with other agencies, including FAO
- SEAFO have MoU's with ACCAP and CCAMLR and is in the process to sign a MoU with ICCAT

The role of RFMOs in a future Biodiversity beyond National Jurisdiction (BBNJ) agreement



- ▶ RFMO/As are tasked with collecting fisheries statistics, assessing resources, making conservation and management decisions, and monitoring activities.
- ► The eight deep-sea RFMOs cover 77% of the ABNJ area, and regulate a large majority of the catches of deep sea species in these areas.
- Many RFMOs are adopting the Ecosystem Approach to Fisheries, recognizing the need to manage fisheries more holistically.
- ► Ecosystem issues are addressed through the adoption of actions to mitigate the impact on non-target species, or the ecosystem habitat and structure.
- ▶ In deep-sea RFMOs, protocols have been adopted to cease fishing if there is a Vulnerable Marine Ecosystem is encountered.

The role of RFMOs in a future Biodiversity beyond National Jurisdiction (BBNJ) agreement



- ▶ For the tuna RFMOs, ecosystem considerations include stricter controls to reduce or eliminate bycatch, and mitigate the impact of fishing gear lost at sea through the use of biodegradable materials.
- As a result, the state of many of these resources is recovering (in the case of the slow-growing and vulnerable bluefin tuna) or close to recovered (e.g. yellowfin and bigeye tunas in the Indian and Pacific Ocean) to what it was a few years ago.

The role of RFMOs in a future Biodiversity beyond National Jurisdiction (BBNJ) agreement



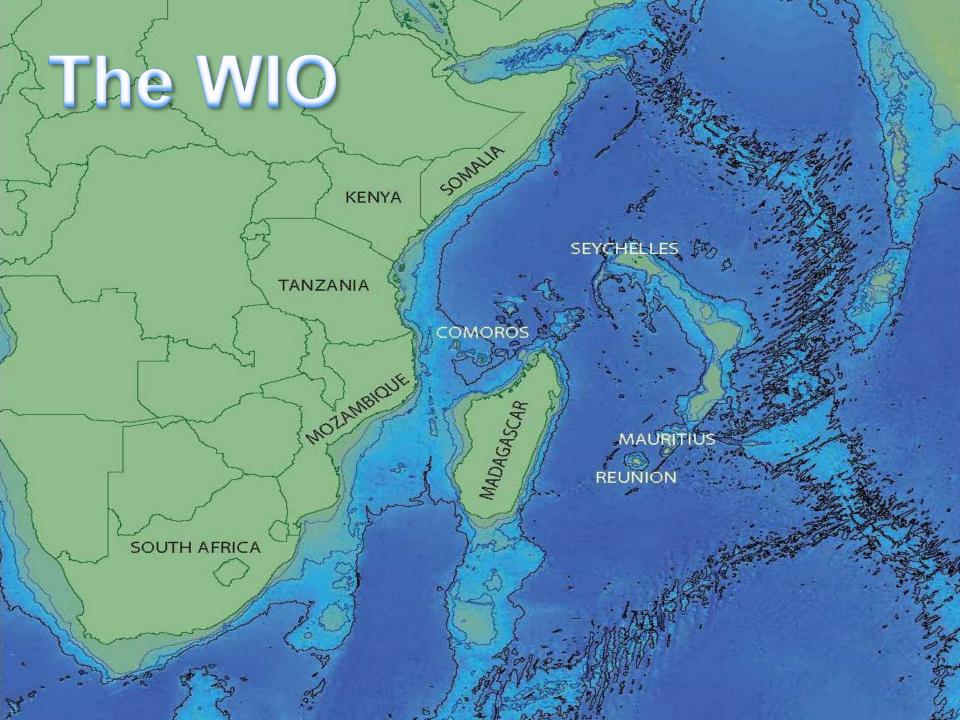
- In spite of this shared responsibility, there is no specific mechanisms to coordinate efforts to address biodiversity concerns among the various users of the ABNJ.
- There are challenges in ensuring sufficient knowledge sharing and coordinated action to ensure that impacts on biodiversity, coming from any user, are monitored and mitigated.
- ▶ The role of RFMO's need to be recognized and strengthened by bridging the gaps the BBNJ Agreement.
- ▶ Will improve biodiversity conservation, promote sustainable utilization and asssit in combating IUU.





WIOMSA's Perspective

Julius Francis WIOMSA





1. WIOMSA in brief...



- Forum for addressing the <u>regional issues</u> efficiently;
- Means for generating knowledge whilst building capacity;
- The basis for developing collaborations & partnerships;
- Mechanisms to promote the <u>relationship between</u> <u>science and management</u> and improving decision-making processes
- Opportunities for <u>upscaling and enhancing</u> outcomes and impacts
- Mobilizing more resources for the region



WIOMSA and ABNJ...

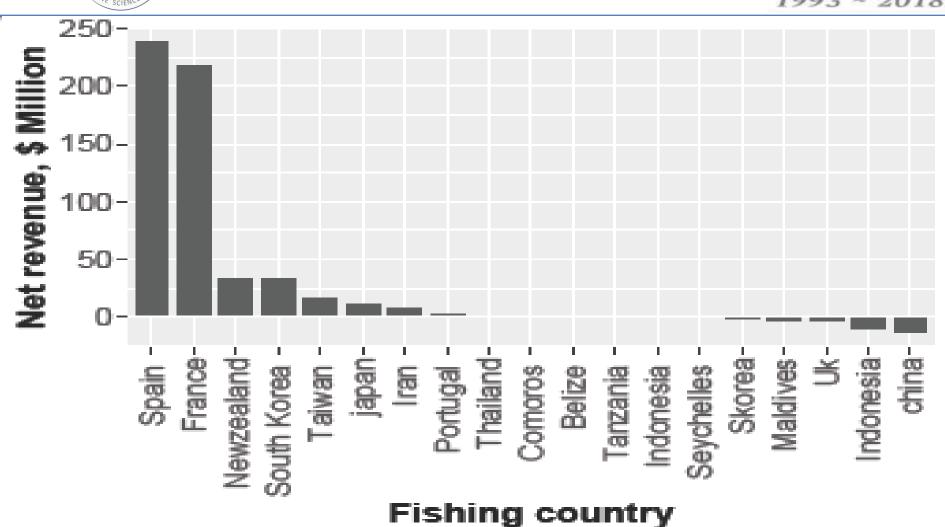


- Functional Connectivity as a Basis for Aligning Marine Spatial Conservation Priorities Across Maritime Jurisdictions
 - Identification of areas suitable for inclusion in the high seas MPA in the Western Indian Ocean region.
 - Assessed connectivity patterns among existing MPAs, coral reefs and seamounts at large spatial scales to identify the gaps and opportunities for maintaining functional connectivity.
 - Illustrate how regional scale prioritisation across maritime zones of Exclusive Economic Zones (EEZ) and ABNJ can be applied using area-based tools.



The economics of fishing in the WIO ABNJ



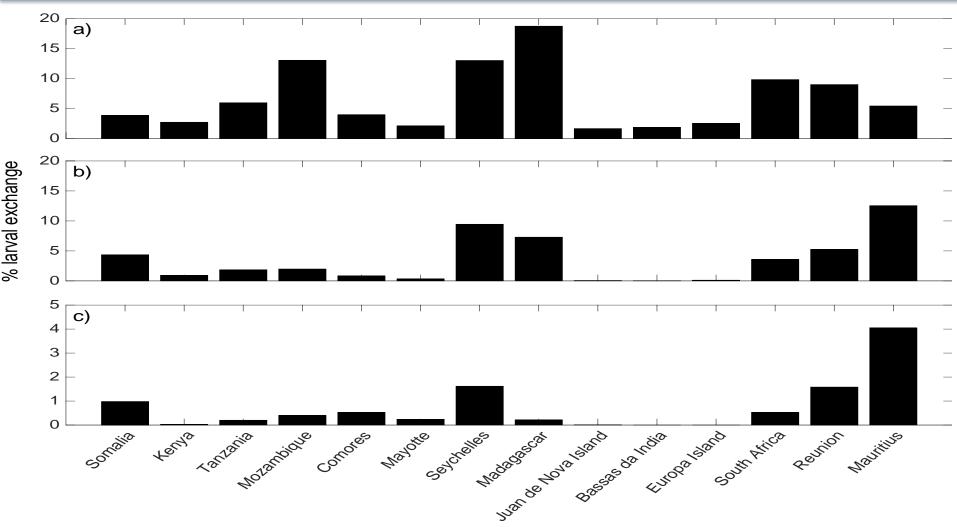




Proportion of larvae by different







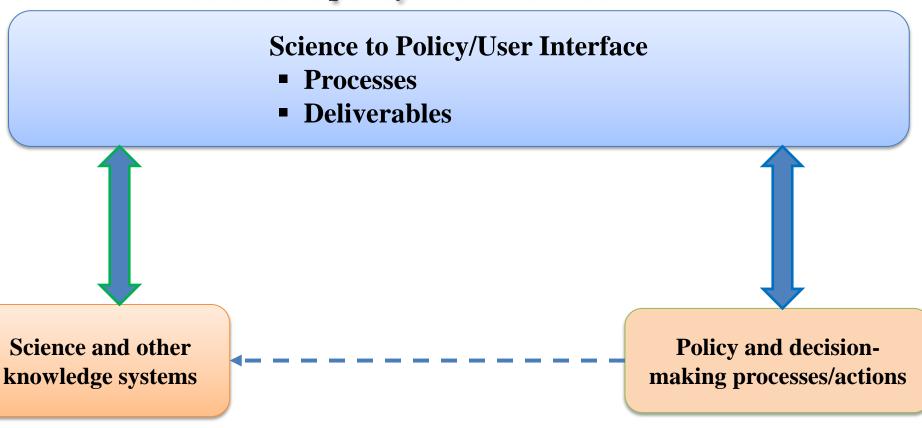
Exclusive Economic Zones



Science to Policy Platform



Science to policy/user interface



FARI

COP



Governance of the South West Indian Ocean Seamounts



- To encourage historical data rescue activities on seamounts of the SWIO in order to set up a knowledge base on the marine natural heritage, its potential and its vulnerability.
- To examine the issue of extending geographical competence beyond national jurisdiction because of different types of connectivity (economic, ecological...) between seamounts located in international waters and coastal zones
- To account for new measures from RFMOs, in particular the recent classification (29/06/2018) by the SIOFA of 5 seamounts located in international waters (Walters shoal, Coral, Middle of What, Atlantis Bank, Fools Flat) as Protected Areas, with ban of trawl fishing and mandatory boarding of observers for all other gears, pending a final management plan by SIOFA in 2019.
- To support the States to engage any form of network protection —partial or total— of marine regional natural heritage that is partially documented by the LMEs, the EBSA process, or the oceanographic cruises, but which remains with any legal protection.



Governance of the South West Indian Ocean Seamounts



■ To capitalize on opportunities provided in the UN binding international instrument on the governance of the oceans, currently under development, in order to enable convergence of the WIO on the 5 authorized themes: i) spatial management and MPAs in international waters; ii) marine technology transfer; iii) sharing advantages of the genetic diversity; iv) combating IUU fishing and v) environmental impact assessments.



Some thoughts...



- Are there lessons to learn from the UNCLOS experience?
- Are key actors on the table?
 - FAO and RFMOs?
 - AU?
- Is existing data optimally used?
- How to link up with other similar processes?
- What is the appropriate framework for these dialogues at regional level? What is regional ocean governance in the context of ABNJ?







1-6 July 2019 in Mauritius

Thank you for your attention!!





United Nations Educational, Scientific and Cultural Organization

> Organisation des Nations Unies pour l'éducation la science et la culture

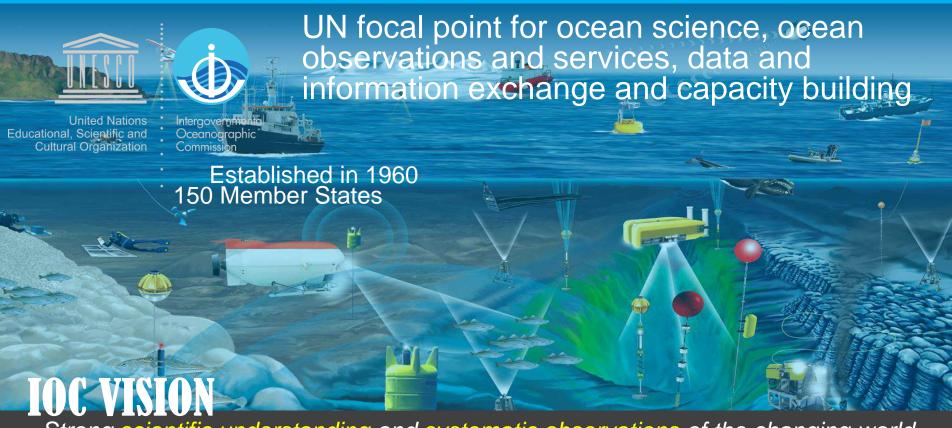
Organización de las Naciones Unidas para la Educación la Ciencia y la Cultura

Организация Объединенных Наций по вопросам образования науки и культуры

- Intergovernmental Oceanographic
- Commission
- Commission
- océanographique intergouvernementale
- Comisión
 Oceanográfica
 Intergubernamental
- Межправительственная океанографическая комиссия

IOC's Sub Commission for Africa and the Adjacent Island States (IOCAFRICA)

Mika Odido
IOC Coordinator in Africa



Strong scientific understanding and systematic observations of the changing world ocean climate and ecosystems shall underpin sustainable development and global governance for a healthy ocean, and global, regional and national management of risks and opportunities from the ocean.







United Nations . Educational, Scientific and · Oceanographic Cultural Organization · Commission

Intergovernmental

Development Goals

IOC: Secretariat, Planning & Activities

One Planet, One Ocean







The boundaries and names shown and the designations

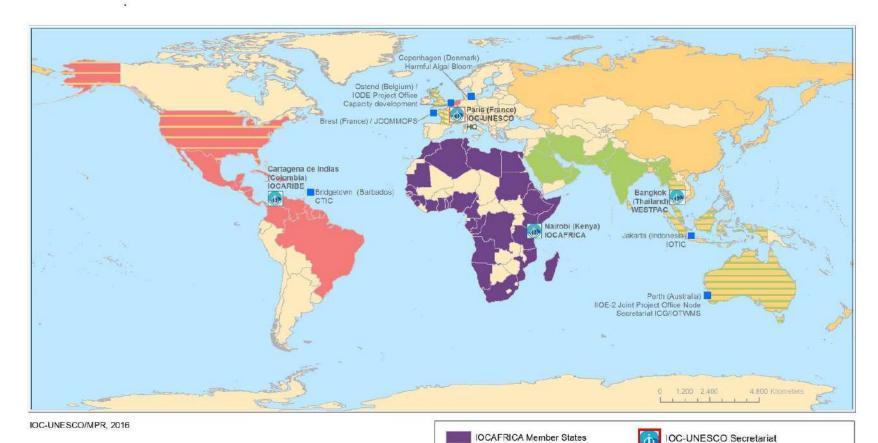
used on this map do not imply official endorsement or

acceptance by the IOC-UNESCO.

Intergovernmental Oceanographic Commission of UNESCO IOC Sub-commissions, Programme and Project Offices

IOC Sub-Commissions

IOC Programme and Project Offices



OCARIBE Member States

IOCINDIO Member States

WESTPAC Member States

ĪĒ



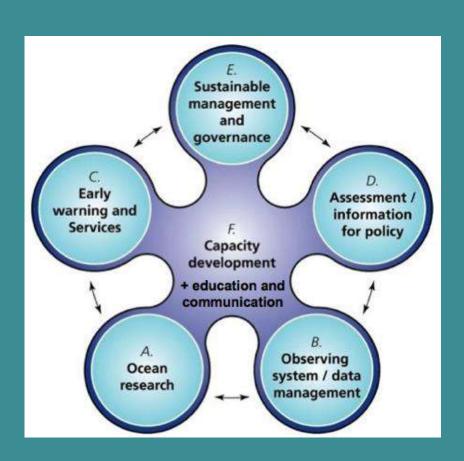




Goals

United Nations . Educational, Scientific and · Oceanographic Cultural Organization · Commission

One Planet, One Ocean



IOC: Secretariat, Planning & Activities



Function A: Ocean Research

(Ocean science is a shortcut to sustainable Portfolio: development)







One Planet, One Ocean

- Developing science content of the Decade
- Developing networks + cooperation (ICSU, SCOR, Future Earth, WCRP), ...
- Ocean Acidification (with IAEA), GOAON
- Blue Carbon Initiative (with UICN, CI, a number of Governments)
- Ocean Oxygen (GO2NE)
- Phytoplankton Trends (TrendsPO)
- Marine Ecological Time Series (IGMETS)
- Ocean and climate a major theme
- Plastics and microsplastics e.g. via GESAMP
- Harmful Algal Blooms (desalination), with SCOR
- Global Ocean Science Report
- Active regional work, especially in WESTPAC

Some Highlights of Function A: Ocean Research

Ocean Acidification



Development of the methodology for indicator 14.3.1

Ocean Oxygen





Global Ocean Science Report – 2 (portal, indicator of SDG Target 14.a, release 2020)



Educational, Scientific and .

Cultural Organization •

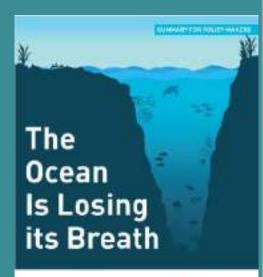


Commission

Oceanographic Development

Goals

One Planet, One Ocean



Declining Oxygen in the World's Ocean and Coastal Waters





Function B: Observing System

(One cannot manage what one cannot measure)



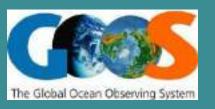
United Nations





One Planet, One

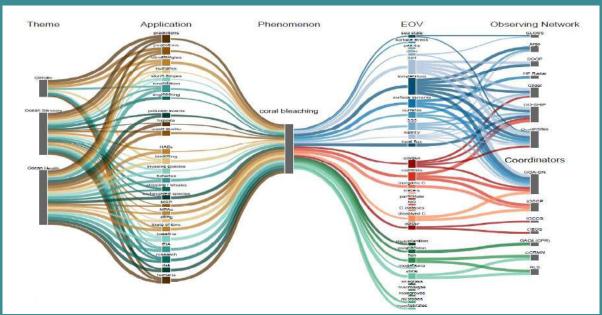
Ocean

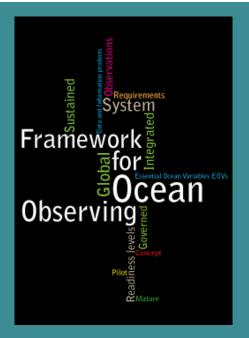














Global Ocean Observing System

GOOS Strategy for 2030

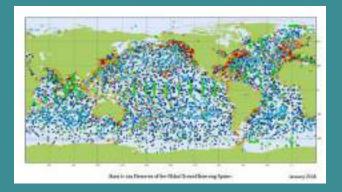






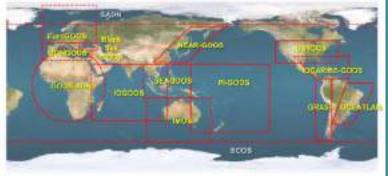
Goals

One Planet, One Ocean



OOPC - GOOS Physics and Climate Panel IOCCP - GOOS Biogeochemistry Panel BioEco - GOOS Ocean Biology / Ecology Panel







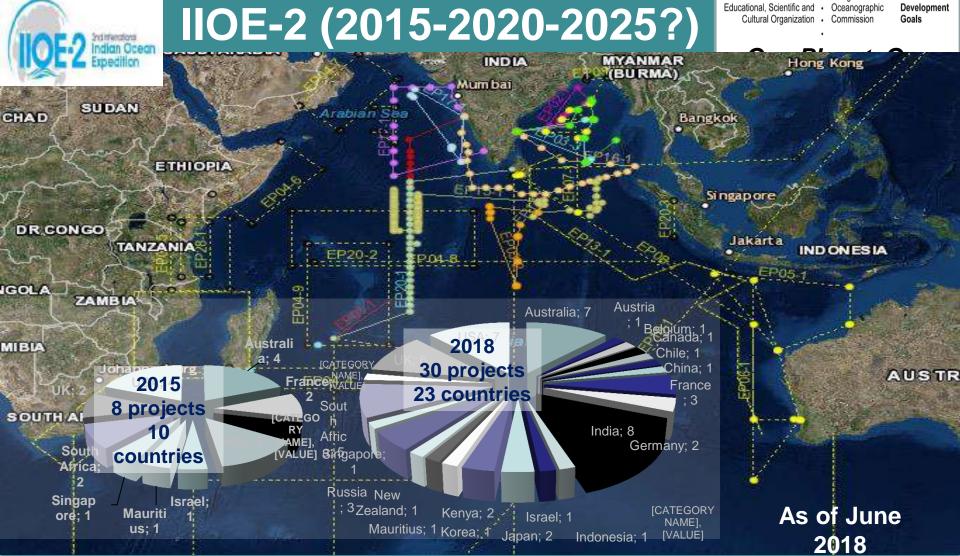






Cultural Organization

Goals

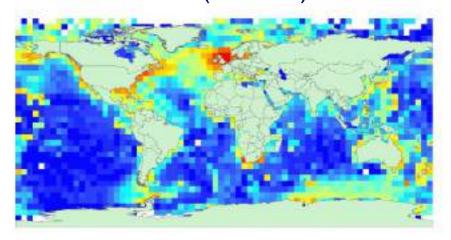


Data and information



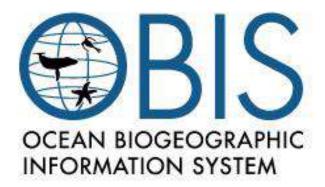


>100 IODE DATA CENTRES NODC + ADU (+OBIS)



IODE VISION

Established in 1961 to enhance marine research, exploitation and development, by facilitating the exchange of oceanographic data and information between participating Member States, and by meeting the needs of users for data and information products



A data clearing-house and sharing facility

45,000,000 species observation

4,600,000 sampling events

www.iobis.org 3,200,000 sampling Stations

114,000 marine species

1,900 databases in 1 central global database

500 data providers, 56 countries (

1,000 papers have cited OBIS













UNGA resolution (A/RES/70) notes with appreciation the contribution of OBIS to marine scientific research.

Ocean knowledge











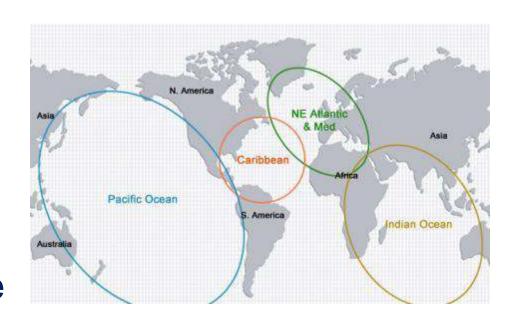






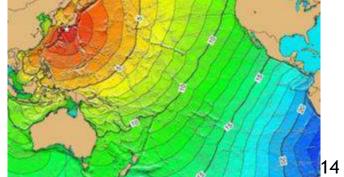
Function C: Early Warning - Tsunamis

- Pacific since 1965
- 2004 tsunami in Indian Ocean illustrated need for more
- IOC mandated in 2005 to establish three more TWS



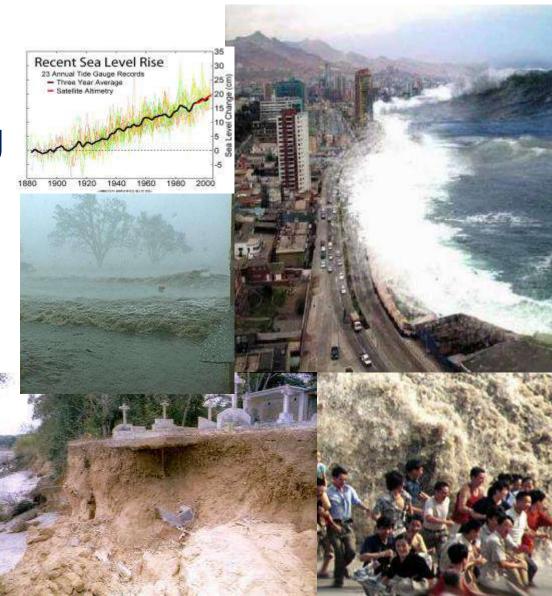
- ICG IOTWS
- ICG CARIBE EWS and
- ICG NEAMTWS





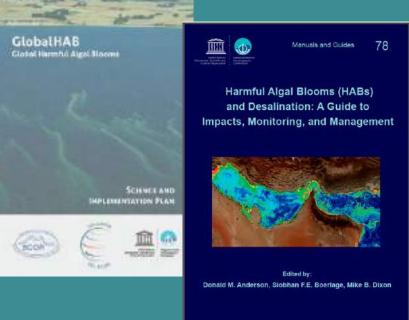
Other coastal hazards

- Storm surges
- Coastal flooding
- Coastal erosion



Function C: Early Warning, HABs

UNESCO

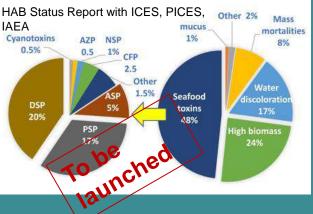




With IAEA, FAO, WHO: coordinated strategy for the increasing problem of Ciguatera fish poisoning

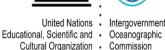


One Planet, One Ocean



Function D: Assessments and Information for Policy







One Planet, One Ocean

Portfolio:

- WOA-2, workshops: WESTPAC/Thailand and IOCARIBE/Brazil
- Indicators for targets 14.3, 14.a (as custodian), 14.1 and 14.c
- GEBCO, Seabed 2030 complete mapping of sea floor by 2030
- Development of Information Products and Services for ocean assessments (DIPS-4) based on OBIS and HAEDAT
- Ocean/Coastal Atlases: CLME+, Canary LME, ACMA

Intl Coastal Atlas Network





Function E: Sustainable Management/ Governance

Joint Roadmap to accelerate Marine Spatial Planning worldwide

PA 1: TRANSBOUNDARY MSP

Guidance on transboundary MSP
Transboundary projects in WestMED & SE Pacific





PA 2: SUSTAINABLE BLUE GROWTH

MSP and Blue Growth Studies and Conferences at global and regional scale

PA 3: ECOSYSTEM-BASED MSP

Knowledge and capacities on environmental pressures

PA 4: CAPACITY BUILDING

Training the trainer for planning our ocean in line with Agenda 2030 targets

PA 5: MUTUAL UNDERSTANDING

International Fórum of experts and joint communication actions

#OceanAction15346 #MSPglobal





Marine Spatial Planning workshops:

- ✓ Mahe, Seychelles, November 2017 (English)
- ✓ Mindelo, Cape Verde, February 2018 (Portuguese)
- ✓ Dakar, Senegal, September, 2018 (English)
- ✓ Mombasa, Kenya (September, 2018 (English)
- ✓ Port Louis, Mauritius, October 2018 (French)

Partners:

- UN Environment
- UNDP
- WIOMSA
- National agencies



























GEF LME:LEARN

A global provider of training, experiencesharing, programmatic guidance and partnership-building for LME's and their coasts

- ✓ LME Hub communication tool launched
- √ 3 Inter-Project Twinning exchanges conducted
- √ 3 regional networks launched (Asia-Pacific, LAC, Africa)
- √ 7 "toolkits" developed (Governance, LME Strategic Approach, LME Project Management, Marine Spatial Planning, Environmental Economics, LME Scorecard, Stakeholder Engagement)
- ✓ Partnership Meeting on Regional Ocean Governance (with GEF, FAO, UNEP)
- √19th Annual LME Consultation

marine.iwlearn.net

Function F: Capacity Development

Educational, Scientific and · Oceanographic Cultural Organization · Commission





One Planet, One Ocean



- IOC Capacity Development Strategy (2014-2021)
- IOC Group of Experts on Capacity Development
- Potential for establishing an operational clearing house mechanism for transfer of marine technology

Training centers:

OTGA + Regional Training and Research Centers:

- Marine Biodiversity and Ecosystem Health (Jakarta)
- Ocean Dynamics & Climate (Qingdao)

UNESCO Category 2 Centers:

Tehran (@INIOAS) and Hyderabad (INCOIS)

Multiple UNESCO Chairs in Oceanography





Ocean**Teacher**



Function F: OceanTeacher Global Academy sharing training resources and expertise in a coordinated way





> 2 500 people trained from 134 Member States



> 4 200 registered users



> 180 training courses (English, Spanish, French, Portuguese



Learning Services Provider







Government of Flanders, Belgium

GLOBAL OCEAN SCIENCE REPORT – GOSR

https://en.unesco.org/gosr

The Current Status of Ocean Science around the World

Marine Ecosystems Functions and Processes Ocean Observation and Marine Data Ocean and Climate Ocean Health Human Health and Wellbeing Blue Growth Ocean Crust and Marine Geohazards Ocean Technology



Figure ES1. Ocean science categories considered in the Global Ocean Science Report.

GLOBAL OCEAN SCIENCE REPORT – GOSR

OCEAN SCIENCE PUBLICATIONS AND CITATIONS

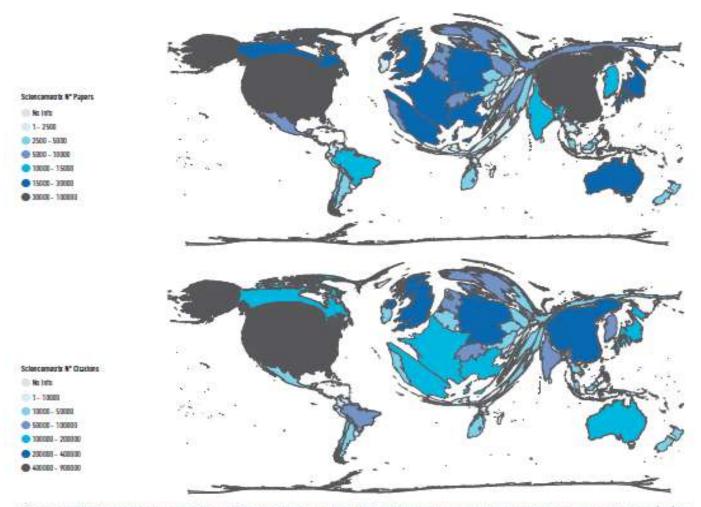


Figure ES7. Publication and citation map of the world. The area of each country is scaled and deformed according to the number of ocean science publications (top) or citations received (bottom). Different colours indicate a different number of publications (top) or citations (bottom). Source: ScienceMetrix, 2015.









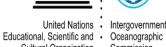


United Nations Educational, Scientific and . Cultural Organization · Commission

> One Planet, One Ocean











Cultural Organization . Commission

Goals

Ocean Literacy



"FAR AND AWAY, THE GREATEST THREAT TO THE OCEAN, AND THUS TO OURSELVES, IS IGNORANCE".

Sylvia Earle, President of Mission Blue

Ocean Literacy for All

A toolkit

Ocean Literacy Portal

Students



Educators



Scientists



Media



Policy Makers



Private Sector



UN Decade of Ocean Science for Sustainable Development (2021-2030)



On 5 December 2017, the UN General Assembly proclaimed the Decade of Ocean Science for Sustainable Development (2021-2030).

Resolution A/72/L.18 calls upon the IOC to prepare an Implementation Plan for the Decade in consultation with:

- Member States;
- UN partners;
- Institutional partners;
- · Other relevant stakeholders.

And to report to the UN Secretary-General about the implementation of the Decade.

Resolution A/72/L.18 also invites UN-Oceans to collaborate with IOC.

Why a Decade of Ocean Science for Sustainable Development?

- A global framework to support efforts to reverse the cycle of decline in Ocean health & create improved conditions for sustainable development
- A global collective research and investment framework to close the knowledge gaps
- A global framework to structure and boost scientific efforts at national and international levels to address global and regional SD challenges



TRANSFORM

knowledge systems to support sustainable development



. . .

- Complete mapping of the seafloor
- eDNA Sequencing of marine life
- Science products for maritime industries
- Enhanced sharing of data and information





REDUCE

vulnerability to ocean and coastal hazards

Potential activities

- Improved coastal hazards warnings syst.
- Better mapping of vulnerable areas
 - Coordinated programme of OA research, including forecasting
- Sea-level change and coastal impacts projections



BOLSTER

ocean observing and data systems



- An Ocean Observing System for All Major Ocean Basins
- Sustained Deep Ocean Observing System
- Open access, data portal for all
- · Social science metrics



ACCELERATE

transfer of marine technology, training and education

Potential activities

- Marine technology transfer/exchange hubs
- Self-driven regional capacity development programmes
- Ocean literacy initiatives
- Gender focused programmes

DELIVER

best available knowledge to decision-makers

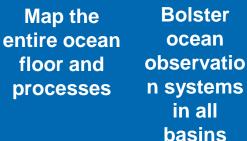
Potential activities

- Promotion of Science/policy mechanims
- Consolidated network of Decade partners
- Regional & global dialogue enhancement
- Peace through science initiatives



Research & Development Priority Areas





IOC



Conduct an inventory of ecosystems and their functioning



Develop a data and information portal



Establish an integrated multi-hazard warning system



New integrated models for ocean prediction



Strengthen capacities and accelerate technology transfer and ocean literacy



Key Applications



Coastal zone management and adaptation



Marine
Spatial
Planning/
Blue economy



Establishment of Marine Protected Areas



Fishery management



Nationally
Determined
Contributions
to UNFCCC



Development of national ocean policies



Development of national R&D strategies



Regional and national capacity development planning



Early warning systems





A cooperation framework for ocean

Integration natural & social sciences

Capacity development

science

Synthesise existing research defining trends, knowledge gaps, priorities for future research

Mobilizing scientists on critical ocean priorities relevant to Agenda 2030

New co-designed research strategies



Science-policy dialogues, dissemination, access to data, information, communication

Synthesising, assessing results, development of user-driven solutions

Fostering new joint research and cooperation within & across ocean basins





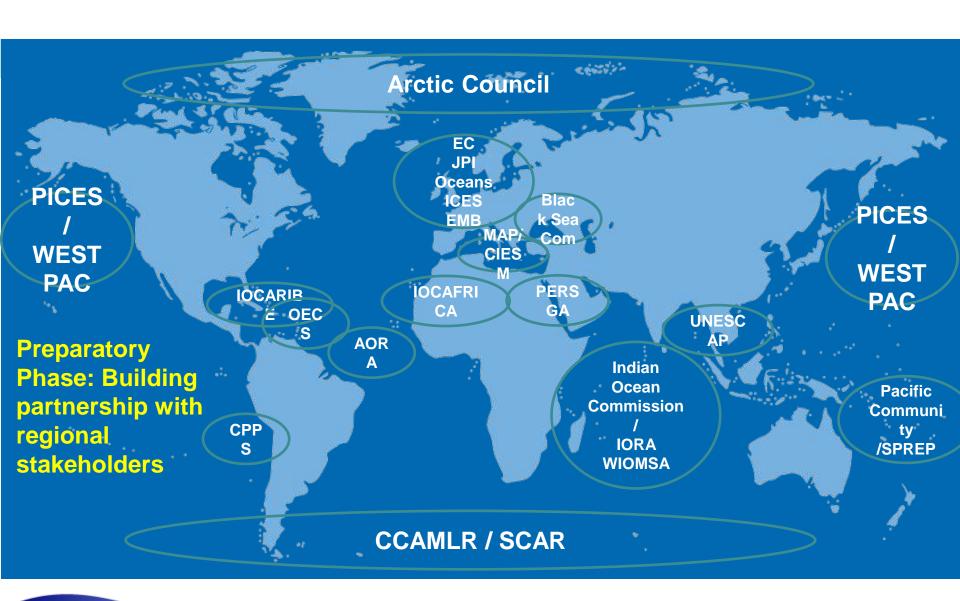
Implementation Plan

Between 2018 and 2020, the UNGA tasked IOC with preparing the Decade and coordinating the development of an Implementation Plan which will include:

- Science Plan
- Capacity Development Plan
- Resource Plan

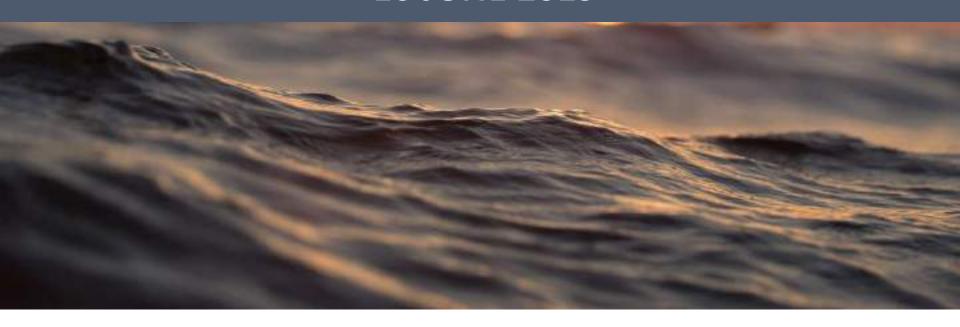
- Communications & Engagement Plan
- Monitoring & Reporting







SCIENCE FOR SOLUTIONS WORKSHOP 10 JUNE 2019



Alex Benkenstein

South African Institute of International Affairs

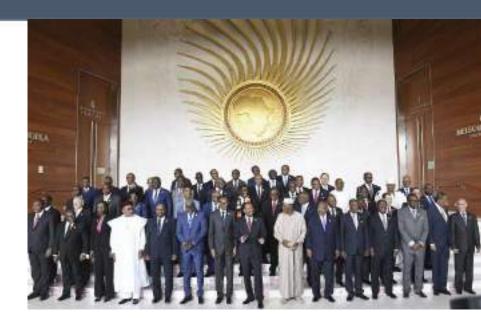
AFRICA'S BLUE ECONOMY: CROWDED AND CONTESTED





Agenda 2063:

"Africa's Blue/ocean economy...shall be a major contributor to continental transformation and growth, through knowledge on marine and aquatic biotechnology, the growth of an Africa-wide shipping industry, the development of sea, river and lake transport and fishing; and exploitation and beneficiation of deep sea mineral and other resources."





Agenda 2063:

Enhance Africa's united voice in global negotiations, through pooled sovereignty, integration and the development of common African positions.

Catalyse education and skills revolution and actively promote science, technology, research and innovation, to build knowledge, human capital, capabilities and skills to drive innovations and for the African century

Act with a sense of urgency on climate change and the environment

Transform, grow and industrialise our economies through beneficiation and value addition of natural resources

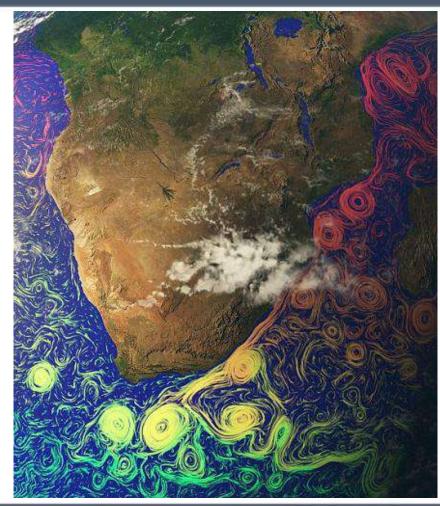




2050 AIMS / Lomé Charter

"...the time has come for Africa to rethink how to manage her inland water ways, oceans and seas.... There is...an urgent imperative to develop a sustainable "Blue Economy" initiative... one that improves African citizens well-being while significantly reducing marine environmental risks as well as ecological and biodiversity deficiencies."

"The overarching vision of the 2050 AIM Strategy is to foster increased wealth creation from Africa's oceans and seas by developing a sustainable thriving Blue Economy in a secure and environmentally sustainable manner."





African Union Reform Process

AUDA-NEPAD

African Blue Economy Governance Infrastructure



African perspectives. Global insights.

International (UN) Decade of Ocean Science for Sustainable Development (2021-2030)





Alex.Benkenstein@saiia.org.za



Publication

Prospects for the Kenyan Blue Economy



Publication

Socio-ecological resilience in South Africa's Blue Economy: the role of marine protected areas



Publication

South Africa's Indian Ocean Rim Association Legacy: A More Inclusive and Open IORA



Publication

The Nexus Between Prosperity in the African Maritime Domain and Maritime Security



News Item

Room for (Blue) Growth? Exploring national, regional and global ocean strategies



Publication

Safeguarding Tanzania's Coral Reefs: The Case of Illegal Blast Fishing



Alex.Benkenstein@saiia.org.za

Conference on Marine and Coastal Ecosystem-based Adaptation

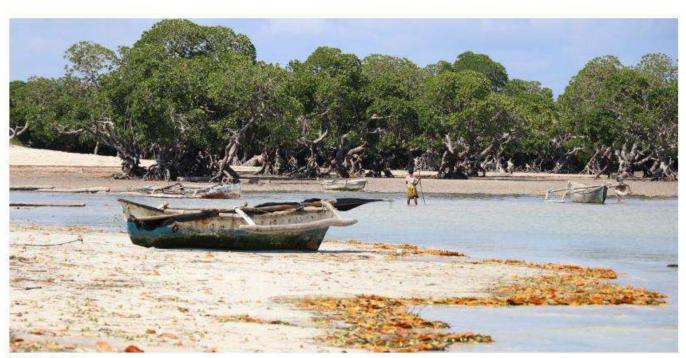


Image: Romy Chevalller



Alex.Benkenstein@saiia.org.za

Room for (Blue) Growth? Exploring national, regional and global ocean strategies





Alex.Benkenstein@saiia.org.za

Small-Scale Fisheries in Mozambique



Small-scale fishermen in Mozambique.



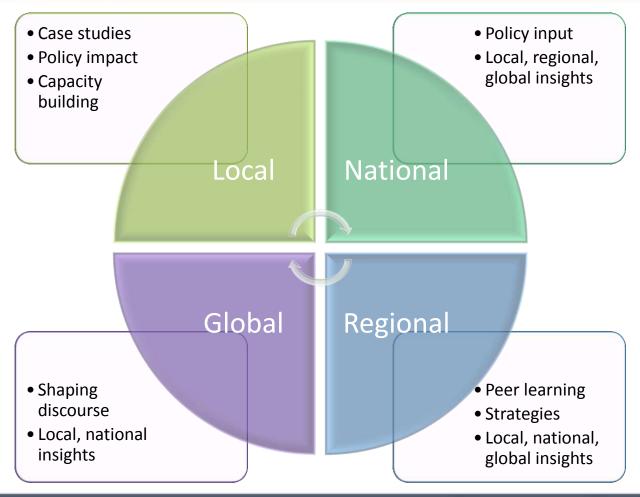
Alex.Benkenstein@saiia.org.za

Oil and Fisheries in Ghana: Prospects for a Socioecological Compact





Alex.Benkenstein@saiia.org.za





ALEX.BENKENSTEIN@SAIIA.ORG.ZA



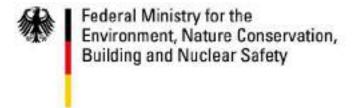
ALEX.BENKENSTEIN@SAIIA.ORG.ZA

AFRICA'S BLUE ECONOMY: CROWDED AND CONTESTED





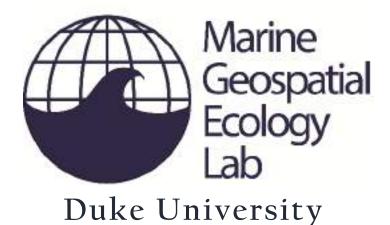
Supported by:



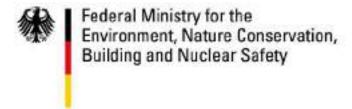
based on a decision of the German Bundestag







Supported by:



based on a decision of the German Bundestag





Daniel Dunn
Corrie Curtice
Ellie Heywood
Connie Kot
Sarah DeLand
Ei Fujioka
Ben Donnelly
Guillermo Ortuño
Crespo

Sarah Poulin Meredith Whitten Hannah Blondin Amalia Alberini Alejandro Herrero Palacio Jesse Cleary Pat Halpin



























MiCO IS A

CONSORTIUM

https://mico.eco/consortium











Convention on **Biological Diversity**









DEAKIN



























































Stazione Zoologica Anton Dohrn Napoli







MiCO IS A

CONSORTIUM

https://mico.eco/consortium























































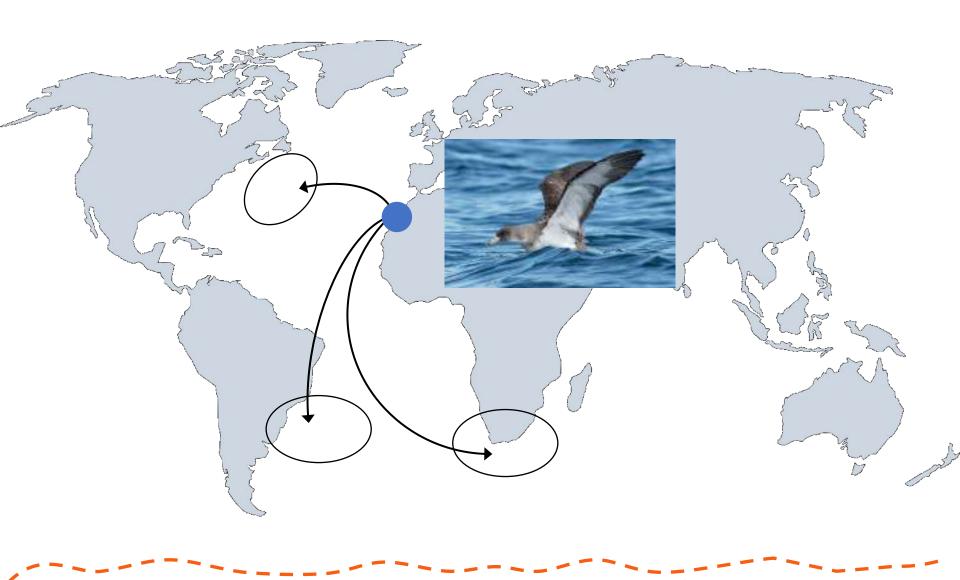




What is Migratory Connectivity?

Migratory connectivity is the geographic linking of individuals & populations between one life cycle stage and another.













Abundance of publications on migratory species

>12,000 papers returned from a search for information on migratory connectivity since 1990 Marine Mammals: 5926

Fish: 2969

Sea Turtles: 1677

Seabirds: 4032







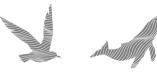


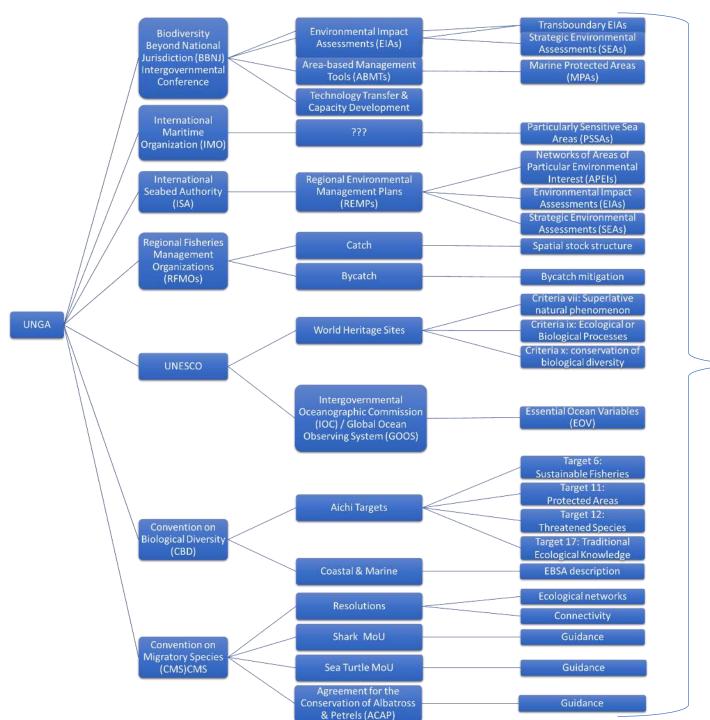
Data Collection Data Processing Analysis Publish Paper Knowledge Transfer Gap Individual Contributors Data Repositories Repositories Repositories Repositories



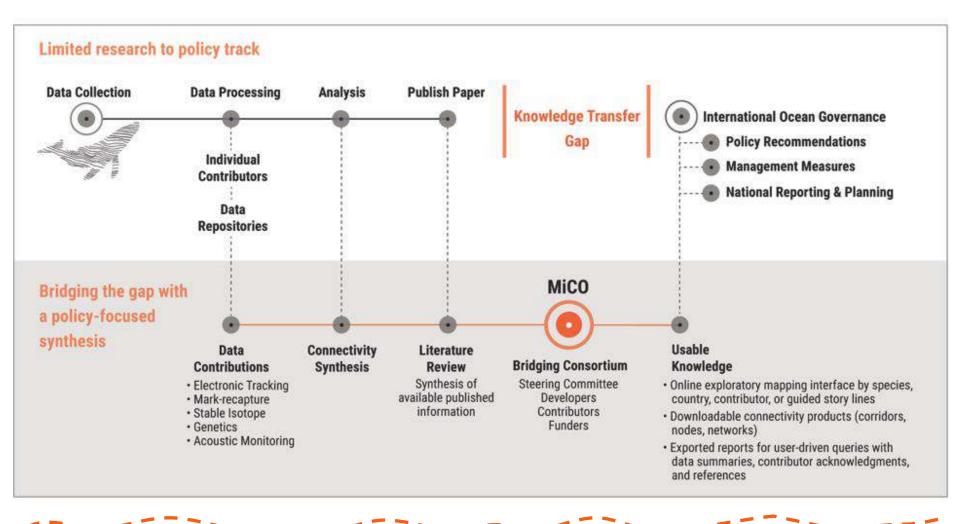








Migratory Connectivity Knowledge





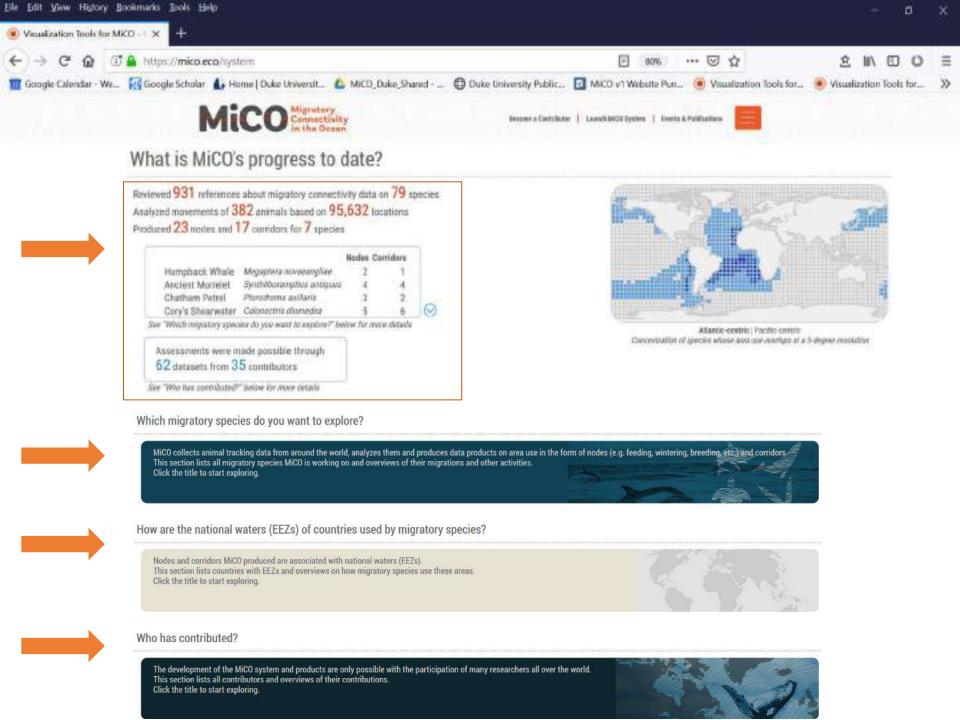














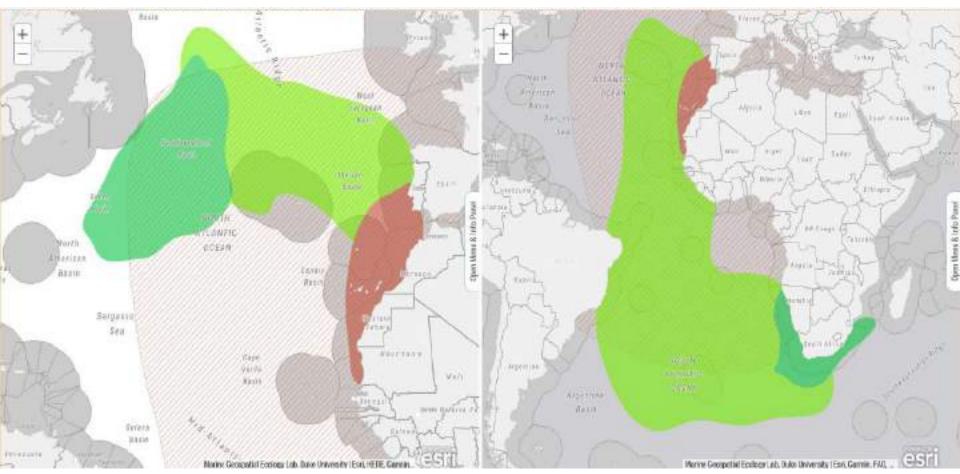
Which migratory species do you want to explore?







Species invested by EET. Percentage of species the Arte or Talle Arth control by EET.



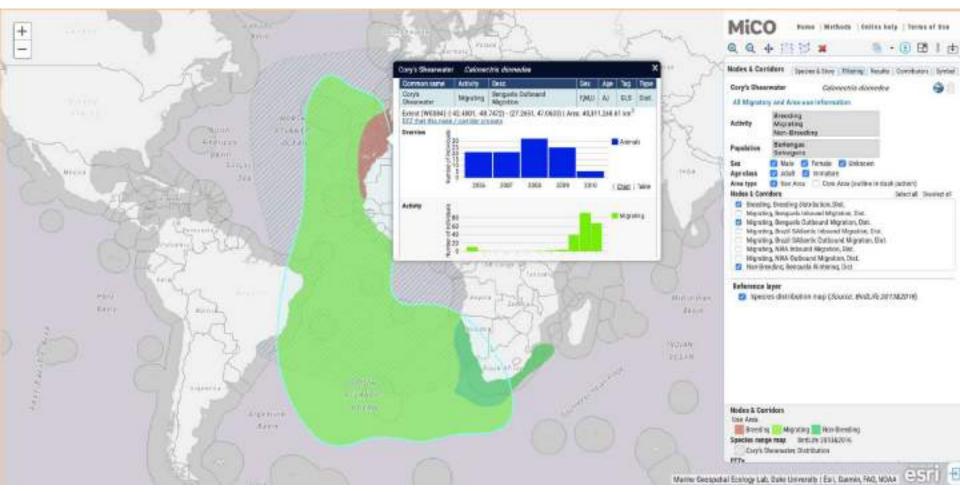
Migratory Connectivity in the Ocean (MiCO). Highly migratory marine species nodes and corridors, developed with data contributed to MiCO. Available from the MiCO System Version 1.0. MiCO. https://mico.eco. Accessed June 9 2019.











Migratory Connectivity in the Ocean (MiCO). Highly migratory marine species nodes and corridors, developed with data contributed to MiCO. Available from the MiCO System Version 1.0. MiCO. https://mico.eco. Accessed June 9 2019.

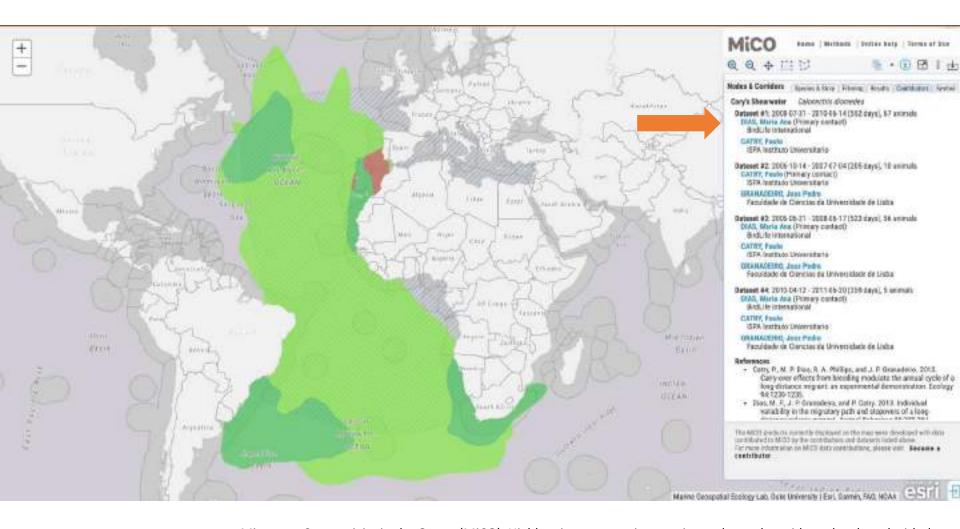












Migratory Connectivity in the Ocean (MiCO). Highly migratory marine species nodes and corridors, developed with data contributed to MiCO. Available from the MiCO System Version 1.0. MiCO. https://mico.eco. Accessed June 9 2019.

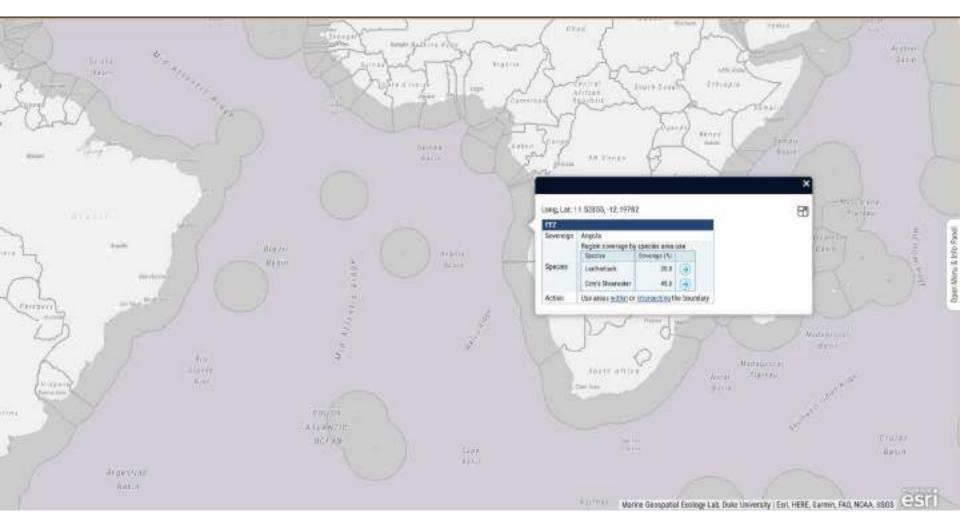












Migratory Connectivity in the Ocean (MiCO). Highly migratory marine species nodes and corridors, developed with data contributed to MiCO. Available from the MiCO System Version 1.0. MiCO. https://mico.eco. Accessed June 9 2019.









Abstract network diagrams from data













Abstract network diagrams from literature

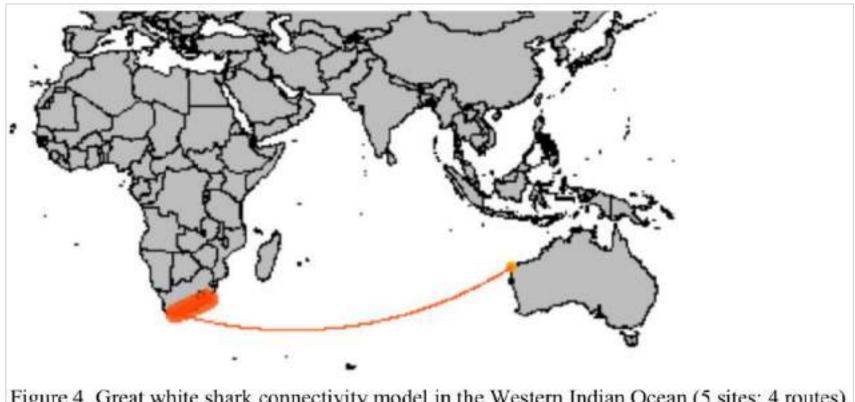


Figure 4. Great white shark connectivity model in the Western Indian Ocean (5 sites; 4 routes).

Kot*, C.Y., S. DeLand*, S. Poulin*, M. Whitten*, E. Fujioka, C. Curtice, D.C. Dunn. 2019. Migratory connectivity of marine megafauna in the Western Indian Ocean and Southeast Pacific. Migratory Connectivity in the Ocean (MiCO).









Engagement & Outreach

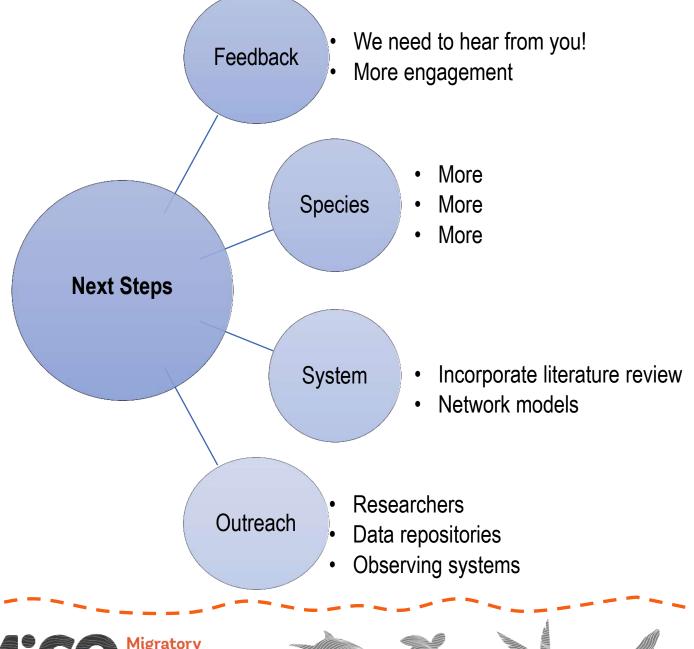
- 1. Report: Migratory connectivity of marine megafauna in the Western Indian Ocean and Southeast Pacific
- 2. Side event publicly launching MiCO at the **BBNJ ICG2 meeting**, organized by UNEP-WCMC and hosted by Ecuador.
- 3. International Sea Turtle Symposium workshop on migratory connectivity
- 4. STRONG High Seas CPPS workshop
- 5. MarViva workshop
- 6. Important Marine Mammal Areas (IMMA) workshop in Kota Kinabalu
- 7. Sustainable Oceans Day at Convention on Biological Diversity CoP 14
- 8. Benguela Current LME region workshop to update and supplement the described EBSAs in that region
- 9. World Conference on Marine Biodiversity
- **10.MarViva workshop** "Towards a governance model for the Costa Rica Thermal Dome"
- 11. UNEP-WCMC presented two MiCO cases studies at the WIOMSA meeting in South Africa
- **12.IIED Workshop** on "Ecological connectivity between coastal waters and the high seas: scientific evidence to underpin UNCLOS negotiations on the conservation and sustainable use of marine biological diversity of areas beyond national jurisdiction"
- 13. International Sea Turtle Symposium presentation
- 14. Convention on Migratory Species Expert Workshop on Migratory Connectivity
- 15. International Marine Protected Areas Congress
- 16. Bio-Logging Symposium
- 17. Society for Marine Mammalogy Conference
- 18. A MiCO side event at the **Convention on Migratory Species** Conference of the Parties to introduce delegations to the project and lay the groundwork for future use and inclusion of the system in resolutions
- 19. Animal Movement Ecology session at the Gulf and Caribbean Fisheries Institute
- 20.CPPS/UNEP-WCMC CPPS Integrated Regional Ocean Policy and ABNJ project workshop
- **21.Convention on Biological Diversity** "Expert workshop to develop options for modifying the description of ecologically or biologically significant marine areas, for describing new areas, and for strengthening the scientific credibility and transparency of this process"
- 22. Side event at the **4th BBNJ PrepCom** meeting hosted by NF-Nereus Program and Costa Rica, and their Deputy Permanent Representative to the UN, Mr. Rolando Castro Córdoba co-chaired the event along with Co-PI Daniel Dunn
- 23. Side event at the **3rd BBNJ PrepCom** on Adjacency co-chaired by the Permanent Representative to the UN from the Federated States of Micronesia, Ambassador Jane Chigiyal, and Co-PI Dunn.





















The MiCO System

On April 1st, 2019 the MiCO System launches at the 2nd Intergovernmental Conference on the Conservation and Sustainable Use of Marine Biological Diversity of Areas Beyond National Jurisdiction (BBNJ).

Learn more and explore the system

mico.eco/system



@ExploreMiCO

@duke_mgel

corrie.curtice@duke.edu











A/Prof. AJ Smit Southeast Atlantic Coordinator Biodiversity & Conservation Biology Department University of the Western Cape

Prof. J Murray Roberts
iAtlantic Coordinator
The University of Edinburgh









Belém Statement on

Atlantic Research and Innovation Cooperation

Conference in Lisbon on 13-14 July 2017

FOR THE EUROPEAN UNION FOR THE DEPARTMENT
OF SCIENCE AND
TECHNOLOGY, A
GOVERNMENT
DEPARTMENT OF THE
REPUBLIC OF
SOUTH AFRICA

FOR THE MINISTRY OF SCIENCE, TECHNOLOGY, INNOVATIONS AND COMMUNICATIONS OF THE FEDERATIVE REPUBLIC OF BRAZIL

- 200000 55550.55

Commissioner for Research, Science and Innovation

Carlos Moedas

G.N.M. Kerroler Naledi Pandor

Minister of Science and Technology JA441

Minister of State for Science, Technology, Innovations and Communications Realising the mutual benefit that would accrue from linking research activities in the South Atlantic and Southern Ocean with those in the North Atlantic, and exploring synergies with other initiatives such as the interdisciplinary Atlantic Interactions Research Agenda and the AIR Centre; the Joint Programming Initiatives, the Strategic Forum for International Science and Technology Cooperation, the European Union's Earth Observation and Monitoring programme - Copernicus, and the Benguela Current Commission;

Increasing operational efficiencies by optimising the appropriate use and sharing of research infrastructures, and access to and management of data and platforms; together with emerging methods of data science; and,

and deepening scientific knowledge of marine ecosystems and the interrelations between oceans and climate change, oceans and food, and oceans and energy systems, as well as the dynamics of the Atlantic Ocean and its interconnected Circulation Systems from Antarctica to the Arctic.



RESEARCH & INNOVATION

Search

Participant Portal

European Commission > Research & Innovation > Participant Portal > Opportunities

HOME

FUNDING OPPORTUNITIES

HOW TO PARTICIPATE

PROJECTS & RESULTS

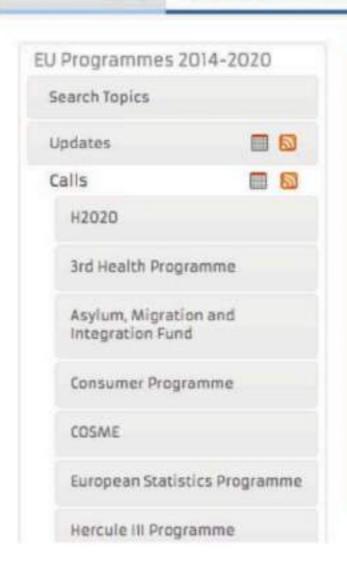
EXPERTS

SUPPORT +

- LOGIN



Q





iAtlantic

- 33 partners
- €10.6M budget
- 11 international associate partners
- €30M programme of 32 cruises

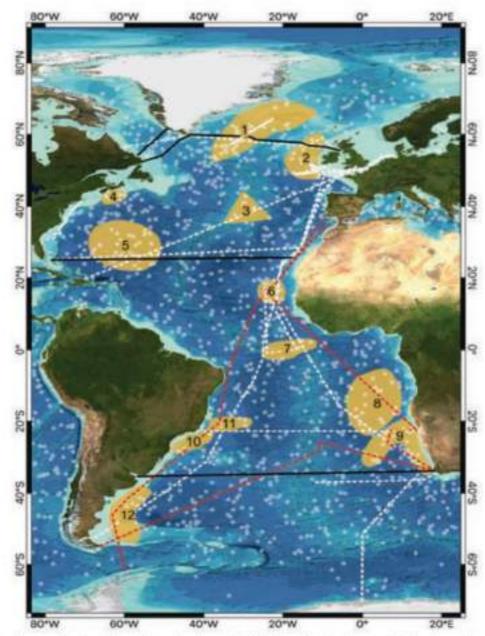


Figure 2: Chart illustrating the density of ARGO floats (grey circles) and positions of transatlantic monitoring arrays (black lines) providing oceanographic data to iAtlantic. Dashed white lines illustrate tracks of iAtlantic cruises with the two S Atlantic Demonstrator Capacity Building cruises | Mirabilis and | Corsage shown in red, Led by the Spanish Institute of Oceanography (IEO) and named for iconic plants of W Africa and S America, these cruises are dedicated to the IAtlantic consortium. | Mirabilis targets Regions 6–9 and will bring the UK Autosub6000 AUV equipped with the MAPS eDNA sampler and the Portuguese Luso ROV to the S Atlantic for the first time. The iCorsage cruise primarily targets Region 11 where it will conduct extensive mapping of the Vitória-Trindade Seamounts and provide training in the latest shipboard mapping approaches. | iAtlantic will run a third Demonstrator Capacity Building cruise on a UK vessel in Region 2. Equipped with Autosub6000 and science-class ROV, this cruise will be open to iAtlantic fellows with dedicated berths for S Atlantic researchers.

WP1

Veerle Huvenne (NOC)



WP2

Lea-Anne Henry (UEDIN)



Andrew Sweetman (HWU)



WP5

Telmo Morato (IMAR-UAZ)



WP6

Vikki Gunn (Seascape)



WP7

Tina Dohna (UniHB)



Arne Biastoch

Didier Jollivet (SU)



Colin Devey (GEOMAR)



WP3

Marjorlaine Matabos (Ifremer)



Marina Carreiro-Silva (IMAR-UAz)



Kate Larkin (EMODnet)



Sebastian Unger (TMG)



PANGAEA (UniHB)

WP8



Murray Roberts (UEDIN)

SW Atlantic



Angel Perez (UNIVALI-Brazil)

SE Atlantic



AJ Smit (UWC-South Africal)

NW Atlantic



Ellen Kenchington (DFO Canada)

NE Atlantic

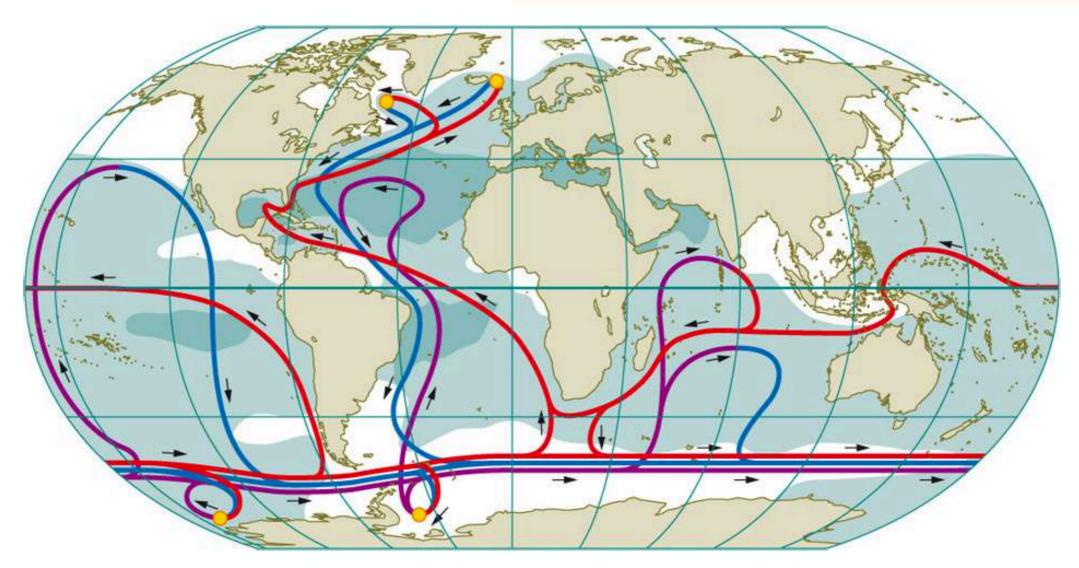


Stefán Áki Ragnarsson (MFRI Iceland)

iAtlantic Steering Committee

Atlantic oceanography and ecosystem connectivity

- 1. Develop ocean hindcasts and forecasts
- 2. Enhance AMOC monitoring capacity in the SAMOC/SAMBA and OSNAP arrays
- 3. Develop ultra-high resolution ocean models at Lucky Strike and Walvis Ridge
- 4. Measure basin-scale spatio/temporal modes of physical variability
- 5. Conduct genomic studies



Standardise South and North Atlantic Ocean observations to enable short, medium, and long-term assessments of Atlantic Ocean circulation and its physico-biogeochemical environment.

SAMOC enhancement

iAtlantic will enhance the capacities of transatlantic monitoring arrays at both southern and northern boundaries. At the southern boundary, we will extend the SAMOC array by: (i) augmenting the horizontal coverage of the existing SAMOC-West array, involving mooring deployment at the continental shelf in the region of the Brazil Current (measuring temperature, salinity, pressure, and currents); (ii) enhancing the SAMOC-West and SAMOC-East arrays with oxygen sensors, and; (iii) testing the need to have a zonal component in the array (using in situ observations in the central S Atlantic 10°W-[27°S-24°S]). At the northern boundary we will continue the enhancement of OSNAP moorings in the North Atlantic Current branch of the AMOC adding oxygen sensors so that we can compute fluxes of carbon, nutrients and oxygen in the upper limb of the AMOC (funded first under the H2020 AtlantOS and ATLAS projects).



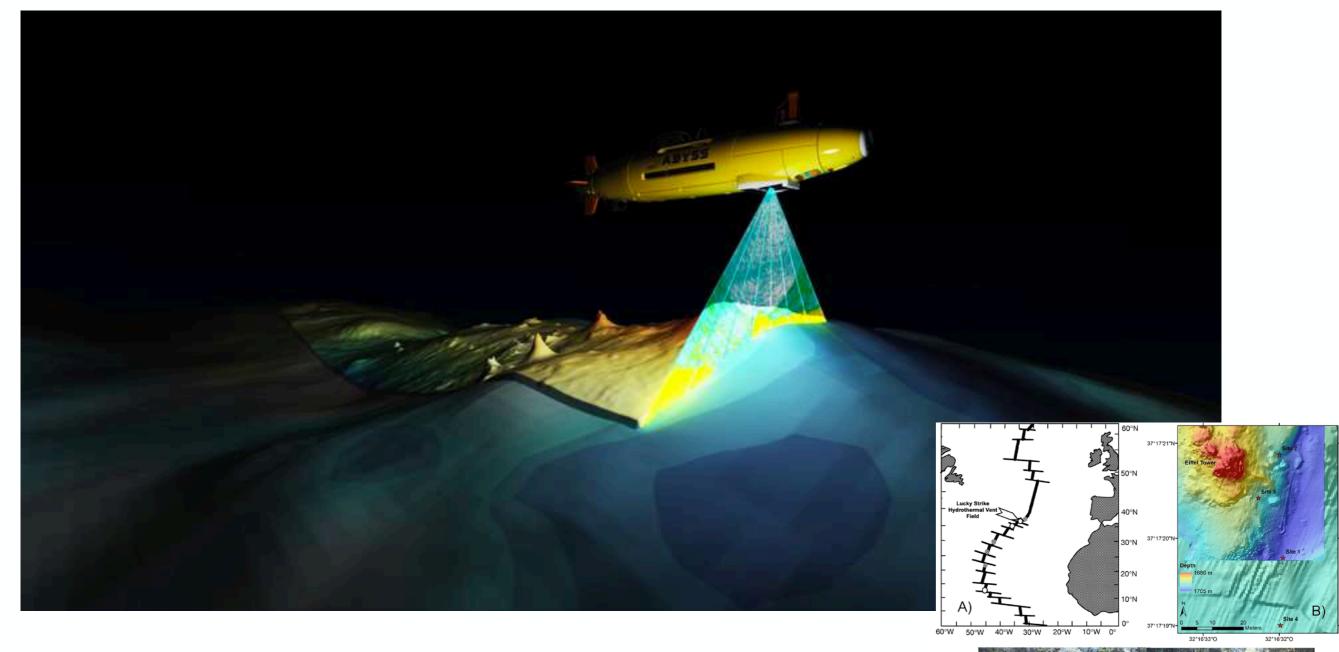




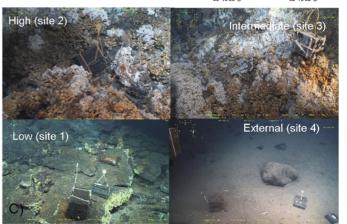


Mapping Atlantic ecosystems

- 1. Basin-wide (all-Atlantic) data collation and analysis
- 2. Regional-scale mapping in iAtlantic's 12 regions (100-1000 km)
- 3. Local scale habitat mapping (1-10s km)
- 4. Advance the technology readiness level of new mapping technologies
- 5. Analysis of spatial patterns in ecosystem drivers



Map deep and open-ocean ecosystems at basin, regional, and local scales.



Drivers of ecosystem change and tipping points



Assess the stability, vulnerability, and any tipping points of deep and open-ocean Atlantic ecosystems to changes in ocean circulation, and effects of single and multiple stressors.

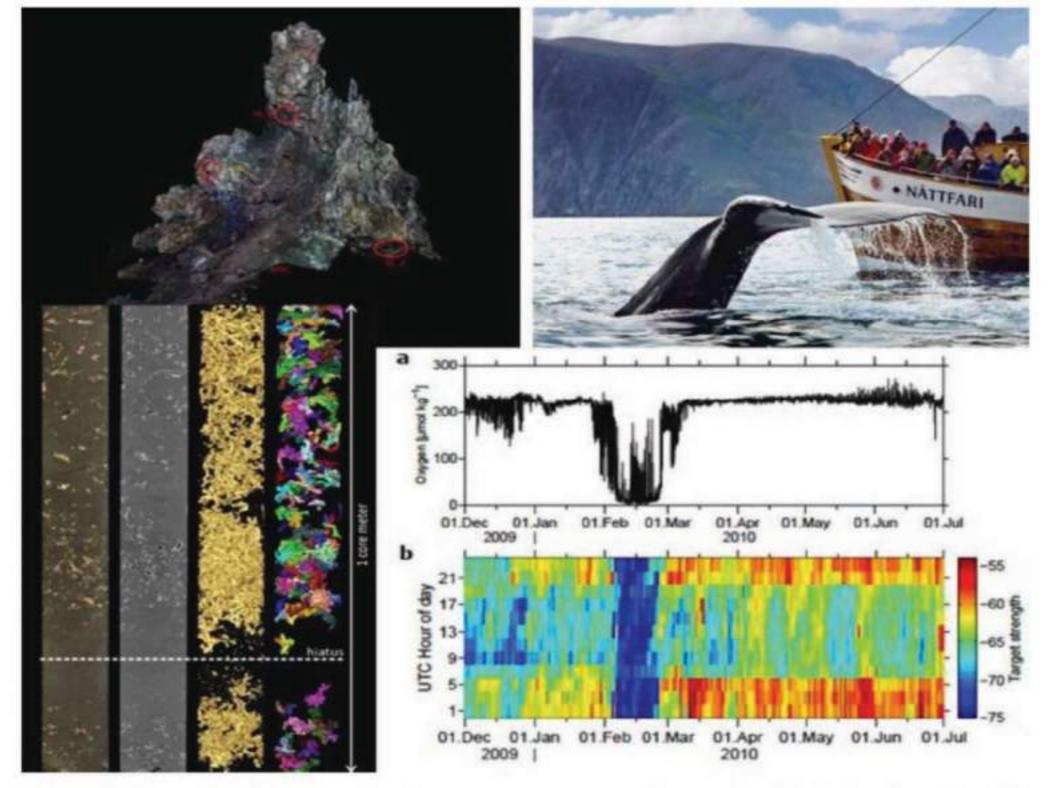
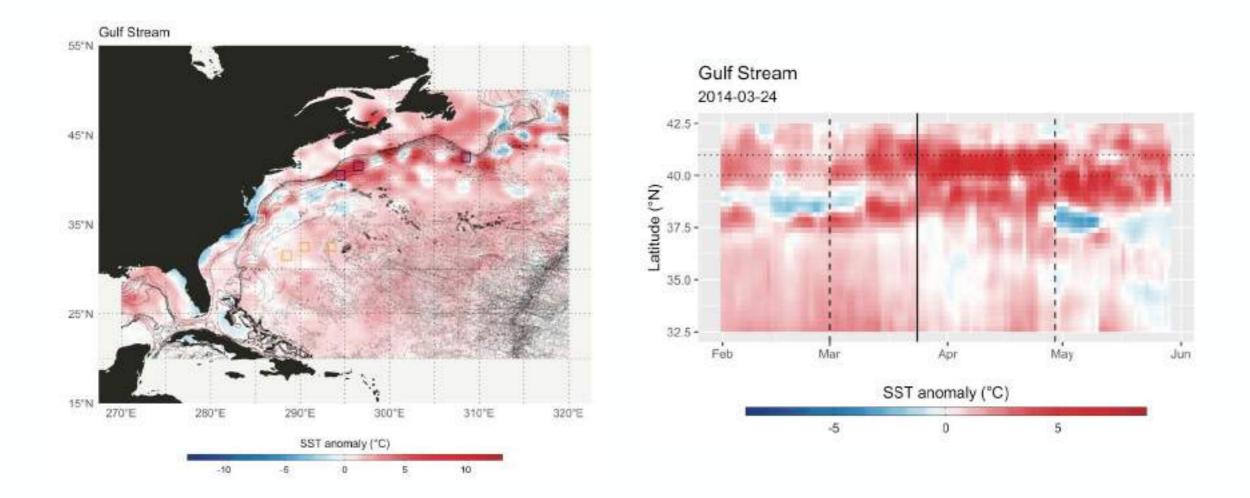


Figure 6: Examples of novel methods to create ecosystem timeseries. Clockwise from top left: 3D reconstruction of benthic communities at the Lucky Strike hydrothermal vent using photomosaics; whale fluke identifications from Iceland and Bermuda to reconstruct temporal changes in population size; inter-annual changes in oxygen (a) and effects on zooplankton (b) derived from ADCP from the CVOO off Cape Verde (Karstensen et al., 2015); sediment core from Mauritania with periods of coral growth and hiatuses from Wienberg & Titschack (2017).

iAtlantic WP4 Impact of multiple stressors

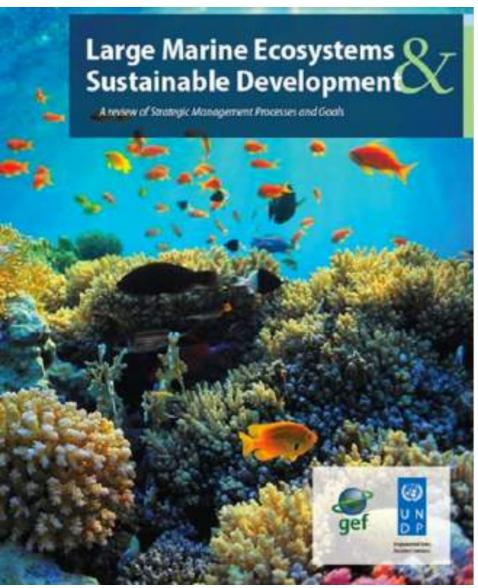
- 1. Conduct ex situ multiple stressor impact experiments on mesopelagic zooplankton communities
- 2. Compare natural spatial gradients in deep pelagic and benthic ecosystem functioning
- 3. Conduct ex situ single and multiple stressor experiments on hard-bottom VME species
- 4. Conduct ex situ single and multiple stressor experiments on soft-sediment ecosystems
- 5. Evaluate impacts of single and multiple stressors on pelagic larvae of VME species



Ecosystem and species responses to multiple stressors will be enabled by targeted *in situ* and *ex situ* experimental studies.

Spatial and temporal management and protection (sustainable management)

- 1. Compilation of regions of interest maps from existing data sources
- 2. Development of iAtlantic advanced web-based GIS-tools
- 3. Regional prioritisation and scenario development
- 4. Evaluation of sustainable management planning scenarios





SDG 14 TARGETS:

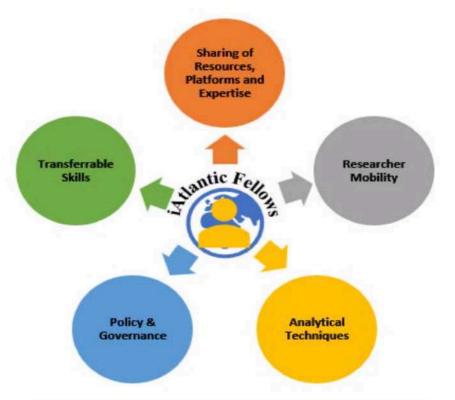
- 14.1 By 2025, prevent and significantly reduce marine pollution of all
- 14.2 By 2020, sustainably manage and protect marine and coastal ecosystems to avoid significant adverse impacts
- 14.3 Minimize and address the impacts of ocean acidification, including through enhanced scientific cooperation at all levels
- 14.4: By 2020, effectively regulate harvesting and end overfishing, illegal, unreported and unregulated fishing and destructive fishing practices
- 14.5: By 2020, conserve at least 10 per cent of coastal and marine areas
- 14.6 By 2020, prohibit certain forms of fisheries subsidies which contribute to overcapacity and overfishing, eliminate subsidies that contribute to illegal, unreported and unregulated fishing
- 14.7 By 2030, increase the economic benefits to Small Island developing States and least developed countries from the sustainable use of marine

Define requirements for sustainable management with industry, regulatory and governmental stakeholders to reflect societal needs and inform policy developments that ensure and encourage a sustainable Blue Economy.

Capacity building, policy, stakeholder engagement and outreach

- 1. Development of dissemination, communication and engagement plan
- 2. Innovation and exploitation
- 3. Outreach and dissemination
- 4. Stakeholder engagement
- 5. Capacity building
- 6. Ocean governance





Agreement in principle for industry sponsorship to enhance iAtlantic fellowship scheme.

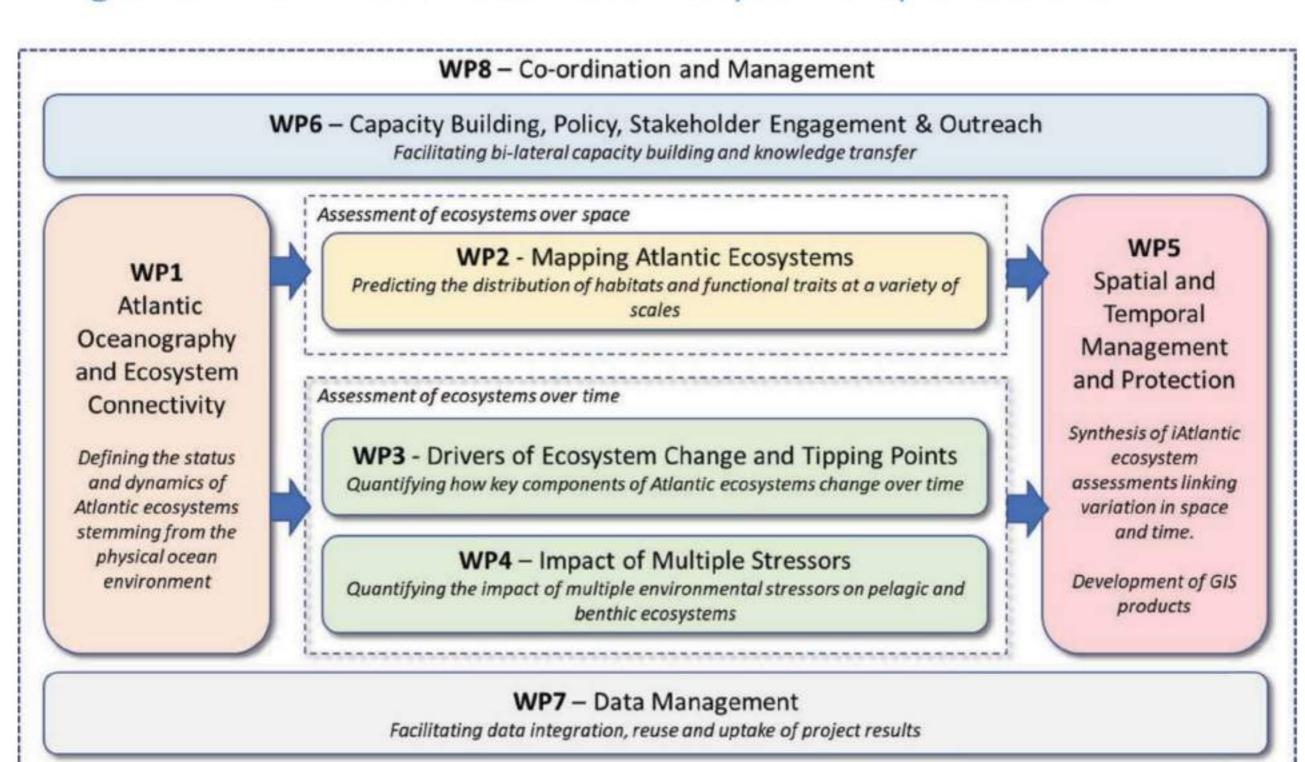
Align and enhance human, technological, and data inter-operability capacities for cost-effective cooperation and planning across the Atlantic.

Data management

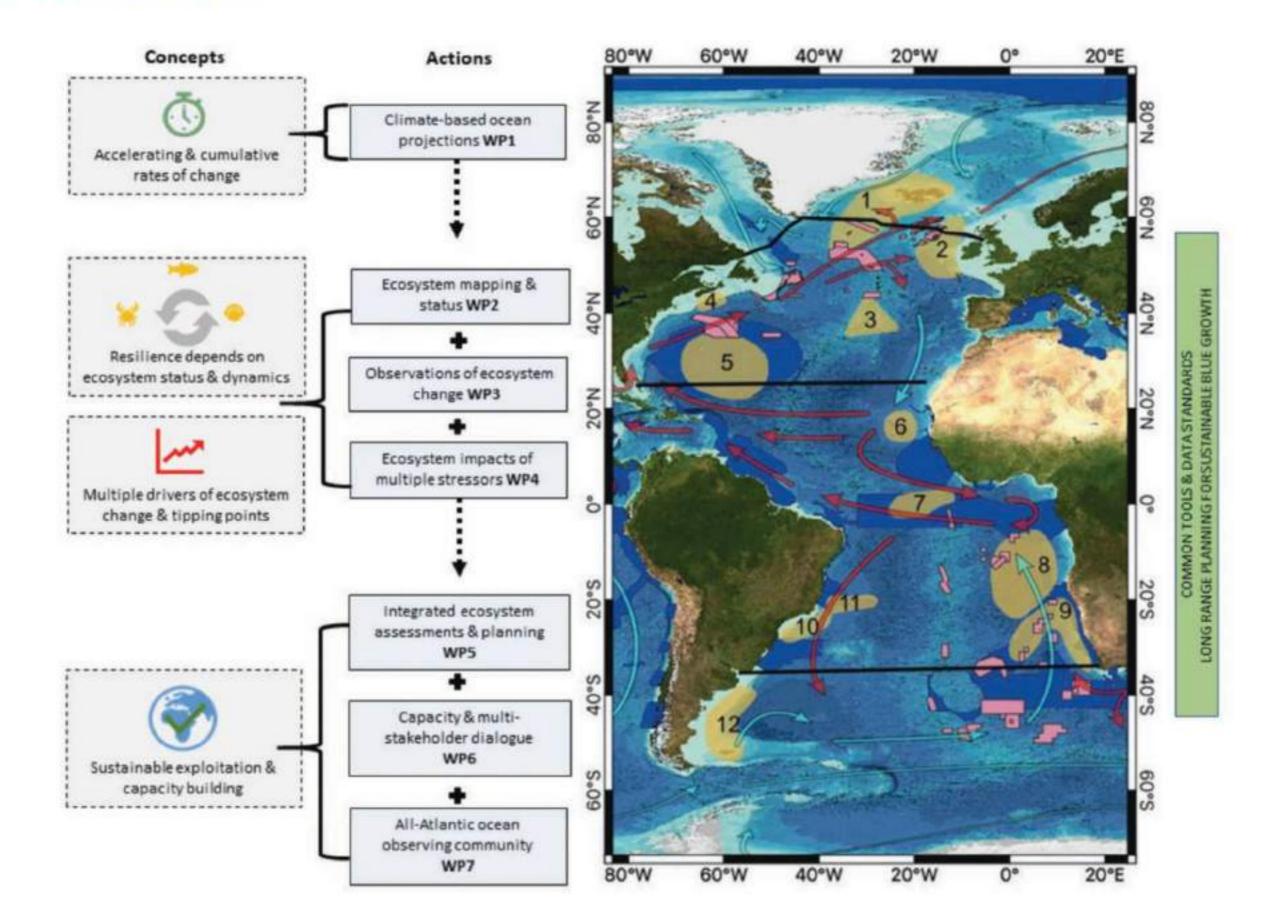
iAtlantic WP8

Coordination and management

iAtlantic



iAtlantic



Research and Innovation Activity	Link with iAtlantic
ACEP Phuhlisa (SAIAB, UWC, South Africa)	The ACEP Phuhlisa (Development) programme is an NRF/DST supported initiative managed by iAtlantic partner SAIAB. It aims to transform the S African marine science community to become more representative of the demographic ratios in the country. ACEP Phuhlisa has been planned and designed around key impediments which limit entrance or participation in marine science. Marine disciplines are represented by iAtlantic, and graduates from this programme will be encouraged to participate in iAtlantic-related research projects and the iAtlantic Fellowship Scheme.
Abidjan Convention	The Convention for Cooperation in the Protection, Management and Development of the Marine and Coastal Environment of the Atlantic Coast of the West, Central and Southern Africa Region (Abidjan Convention) covers a marine area from Mauritania to South Africa. iAtlantic will provide ecosystem assessments in four S Atlantic regions under Abidjan's remit (Regions 6–9), and through our links to the STRONG High Seas Project (led by Partner TMG), will help develop innovative governance solutions for the conservation and sustainable use of marine biodiversity in coastal and ABNJ regions, including one of its priority areas the South East Atlantic (see LoS from Abidjan Convention).
Atlantic Regional Environment Management Planning (ISA, United Nations)	The data generated by iAtlantic will be of direct relevance to the ISA's initiative, supported financially by the EU, to develop a regional environmental management plan for the Atlantic (formerly SEMPIA), which is working with ISA and stakeholder groups in relation to deep-sea mining activities on the Mid-Atlantic Ridge. iAtlantic will deliver data in support of these activities through an MoU.
ATLAS (H2020, EU)	iAtlantic will leverage data produced by ATLAS (2016-2020) on N Atlantic deep-sea ecosystem response to projected AMOC change and will enhance and complement datasets from this project with new data from the S Atlantic.
AtlantOS (H2020, EU)	iAtlantic will build upon foundations established by AtlantOS, notably the first high resolution hydrographic transect along 34.5S between South America and South Africa (led by iAtlantic partner GEOMAR).
Benguela Current Commission (Angola, Namibia, South Africa)	The BCC was established with the vision to ensure 'A Benguela Current Large Marine Ecosystem that is sustainably used and managed, conserved, protected and contributes to the wellbeing of the people of the region'. iAtlantic will cooperate closely with BCC to share access to data, offshore expeditions and through joint capacity building activities (see LoS).
BIOIL (USP and Shell, via IOGP, Brazil)	Biology and geochemistry of oil and gas seepages (BIOIL) is a partnership between USP and IOGP member Shell to find and study the ecology and geochemistry of cold seeps in the Campos and Santos basins (Region 10). Two cruises programmed in the next three years with iAtlantic participation.

Research and Innovation Activity	Link with iAtlantic
CLASS (UKRI-NOC, UK)	Climate-Linked Atlantic Sector Science is a £22.3M programme (2018-2023) designed to deliver improved knowledge of the Atlantic to support management, conservation, exploration and economic development. CLASS will link with iAtlantic providing access to ship time and long-term datasets in Region 2 (see LoS).
DeepSearch (BOEM/USGS/NOAA, USA)	DeepSearch is a 4.5-year study of deep-sea coral, canyon, and gas seep ecosystems in the NW Atlantic involving researchers from US universities coordinated by iAtlantic partner Temple University. DeepSearch and iAtlantic will share sampling opportunities, particularly in relation to deep coral and chemosynthetic ecosystems.
Deep Secrets Project (African Coelacanth Ecosystem Programme, South Africa)	The Deep Secrets Project leveraged a high-resolution multibeam bathymetry dataset through a collaboration with IOGP member Anadarko. This dataset reveals a large pockmark field and several previously unmapped submarine canyons on the continental slope off South Africa. The project team will collaborate with iAtlantic to support regional studies of gas seep and canyon ecosystems and facilitate new surveys of chemosynthetic and deep-water coral ecosystems in Region 9. This builds on previous surveys in the SE Atlantic shelf edge and links to WP2. Deep Secrets also has a capacity building component that promotes technical and human capacity development in line with WP6.
DECODE USP and PETROBRAS, via IOGP, Brazil)	The DEep-sea Coral Observatory: Decoding Ecological patterns and dynamics (DECODE) project is a partnership with Petrobras (who are supporting iAtlantic through IOGP, see LoS), involving ecological analyses of industry ROV videos and the installation of a deep-sea lander, which will collect time-lapse stereo images and environmental data from Campos and Santos Basins (Region 10). Four cruises are programmed (2019-2022) with iAtlantic participation.
Global Ocean Biodiversity Initiative (International partnership)	GOBI is an international network of scientists working to promote the conservation of marine biodiversity. In particular, GOBI works very closely with the Convention on Biological Diversity in support of the process to establish Ecologically or Biologically Significant marine Areas (EBSAs), and also with the Convention on Migratory Species (CMS). iAtlantic will work closely with the GOBI community to ensure new scientific knowledge of important Atlantic ecosystems is fed into the CBD's EBSA mechanism to strengthen existing EBSA descriptions and to support the description of potential new areas meeting EBSA criteria.
INTEMARES (EU-LIFE)	'Integrated, innovative and participatory management of the Natura 2000 network in the Spanish marine environment' is one of the largest marine conservation projects in Europe. INTEMARES has a budget of €49.8M and lasts till the end 2024. iAtlantic will cooperate with INTMARES on approaches and outputs (e.g. oceanographic forecasts) relevant to Spain's marine environmental management.
MERCES (H2020, EU)	'Marine Ecosystem Restoration in Changing European Seas' is developing conceptually coherent ecosystem tools and methodologies for deep-sea restoration and assessing their cost-effectiveness including the role of passive restoration, which iAtlantic will integrate with its connectivity models and larval stressor experiments to promote restoration in dialogues with industry.
INCT Mar COI - CNPq (Brazil)	The National Institute of Science and Technology Mar - Center of Integrated Oceanography (INCT Mar COI) (CNPq) subproposal 2 aims to describe, through seafloor imagery, deep-sea habitats and megafauna diversity at the Brazilian continental margin and oceanic seamounts as baselines for future human activities. iAtlantic will provide opportunities to collect new data using state-of-the-art technology and integrate results with other areas and research groups in the Atlantic Ocean.
NOAA-OER and ASPIRE (USA)	NOAA's Office of Ocean Exploration and Research collaborates with iAtlantic particularly through plans for joint work at sea developed through the ASPIRE initiative in Regions 1, 3, 4 and 5. The iAtlantic consortium submitted White Papers on these regions and will attend ASPIRE discussions in November 2018. The Director of OER will join the ATLAS Advisory Board (see LoS from NOAA).
Oceanic Islands' Long- Term Ecological Research Program (PELD-ILOC) (CNPq – CAPES), (Brazil)	The Long-Term Ecological Research Program (PELD) is an initiative funded by CNPq-Brazil since 1999. There are 30 PELD sites in Brazil, and the PELD-ILOC (Oceanic Islands) site includes the only atoll in the S Atlantic (Rocas Atoll) and three oceanic islands: The Trindade Island in particular, still harbours a comparatively high biomass of fish and other marine life, and it is part of the Vitória-Trindade Seamount chain that will be surveyed in the iAtlantic project (Region 11). Since PELD-ILOC and other projects only sample the shallow-water and mesophotic realms of the Vitória-Trindade Seamount chain, iAtlantic will provide pivotal new data on ecosystem status in the deep waters of this region.
SAMOC (NOAA, USA; FAPESP, Brazil; Argentina)	The SW Atlantic Meridional Overturning Circulation is a multi-national effort with contributors in the USA, Brazil and Argentina. iAtlantic will add to the capacity of SAMOC's ocean observing infrastructure to align it with the N Atlantic RAPID and OSNAP arrays.
Sargasso Sea Commission	The Hamilton Declaration on Collaboration for the Conservation of the Sargasso Sea established the SCC in 2014 to 'encourage and facilitate voluntary collaboration toward the conservation of the

Research and Innovation Activity	Link with iAtlantic
(Azores, Bahamas, Bermuda, UK, USA)	Sargasso Sea'. iAtlantic's Region 5 is the Sargasso Sea where our work ecosystem status assessment will encompass timeseries analyses directly relevant to SSC and the Hamilton Declaration (see LoS).
Seabed 2030 (Nippon Foundation– GEBCO)	Several iAtlantic partners play key roles in Seabed2030, a 10-year effort to map the world's oceans. These links allow for a two-way flow of knowledge between the programmes. iAtlantic mapping efforts will be guided by Seabed2030 work and vice-versa. Partnerships in Seabed2030 will also provide additional stakeholder access for iAtlantic cooperation and outreach efforts linking to the International Hydrographic Organisation, the Intergovernmental Oceanographic Commission of UNESCO and EMODnet.
SEAmester (South Africa)	SEAmester introduces marine science as an applied and cross-disciplinary field to students in a combined theoretical classroom learning approach with the application of this knowledge through ship-based and hands-on research. Students graduating from SEAmester will participate as student researchers on iAtlantic-linked research programmes. Its long-term vision is aimed at building capacity within the marine sciences by coordinating cross-disciplinary research projects through a highly innovative programme. SEAmester is led by iAtlantic partner UCT and uses the state-of-the-art research vessel, SA Agulhas II, proposed to participate in iAtlantic research cruises.
MEEE-PDSES (CNPq)	The Spatial Management with an Ecosystem Approach for the Demersal Fisheries off southeastern and southern Brazil project is using fisheries and environmental data to design a network of spatial fishing management units off SE-S Brazil. iAtlantic will allow the analysis of deep-sea coral ecosystems status (and associated megafauna) at the continental margin (Region 10) to contribute relevant information to the design of slope bottom fisheries management units.
SponGES (H2020, EU)	iAtlantic will access new results on the distribution and functional ecology of N Atlantic deep-water sponge grounds, notably via the SponGIS compilation of spatial data arising from the project (2016-2020), for mapping at the local, regional and all-Atlantic scales.
STRONG High Seas (Germany)	The Strengthening Regional Ocean Governance for the High Seas project is working with countries in the Abidjan Convention region (SE Atlantic, see LoS) as well as the Permanent Commission for the South Pacific to strengthen regional ocean governance and facilitate development of integrated and cross-sectoral approaches to develop a new legally-binding instrument for the conservation and sustainable use of marine biodiversity in areas beyond national jurisdiction (ABNJ).







































































iAtlantic Beneficiaries





















Pêches et Océans Canada

Fisheries and Oceans Canada

iAtlantic International Partners









Phil Williamson (Chair)











Wendy Brown









Gordon Paterson (Chair Science Council)

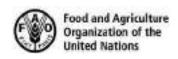


Alan Leonardi



iAtlantic Advisors

Thank you





Cross-sectoral area-based planning in ABNJ

Sustainable fisheries management and biodiversity conservation of deep-sea living marine resources and ecosystems in the Areas Beyond National Jurisdiction

Rachael Scrimgeour
Programme Officer UN Environment World Conservation Monitoring Centre



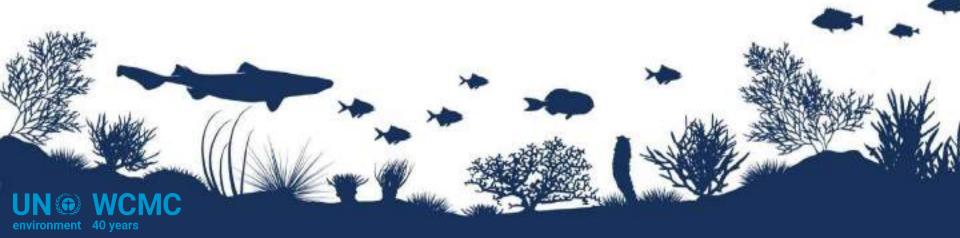


What is Area Based Planning?

"the consideration of a geographic area in which activities are carried out, and accounting for different factors which may influence, where, when and how you undertake those activities."

Area Based Planning in ABNJ

- Sector-specific planning approaches
- Uncertainty as to how sectoral approaches will interact in the future
- Cross-sectoral area-based planning provides an opportunity to ensure balanced and considerate use of ABNJ



Relevance to BBNJ

* ABNJ governed under sectoral regimes

ISA



Areas of Particular Environmental Interest

IMO



MARPOL Emission Control Area



MARPOL Special Area for Sewage

FAO RFMO/As



Vulnerable Marine Ecosystem



Fisheries Closures





Relevance to BBNJ

- Legal, governance and geographic gaps no overarching regime for biodiversity
- Difficult to measure cumulative impacts

* BBNJ implementing agreement – ABMT element

Marine Spatial Planning

[Terms raised in relation to measures such as area-based management tools, including marine protected areas]

(15) "Area-based management tool" means:

OPTION I: A tool designed and applicable in a specified area located beyond national jurisdiction with a view to achieving defined objectives.

OPTION II: A spatial management tool for a geographically defined area through which one or several sectors/activities are managed with the aim of achieving particular conservation objectives and affording higher protection than the surrounding areas.

* Ambition to "not undermine" existing processes

Communication, cooperation and coordination



Marine Spatial Planning

- * Cross-sectoral area-based management framework
- * Its purpose is to deliver policy objectives
- * Follows an ecosystem based management approach
- Participatory, and science based approach founded on best available data
- * Currently only occurring in national jurisdictions



wcmc.io/ABNJ_toolsreview





Develop a draft area-based planning methodology suitable for use in ABNJ

- Review applicability of area-based planning tools to ABNJ
- Gather experiences and good practices from other regions
- Understand the relevant governance frameworks



Development of the methodology



* Research into the different aspects of area-based planning

Knowledge **Sharing and** Governance **Data and Tools Capacity** Marine Spatial Planning identified Development of methodology



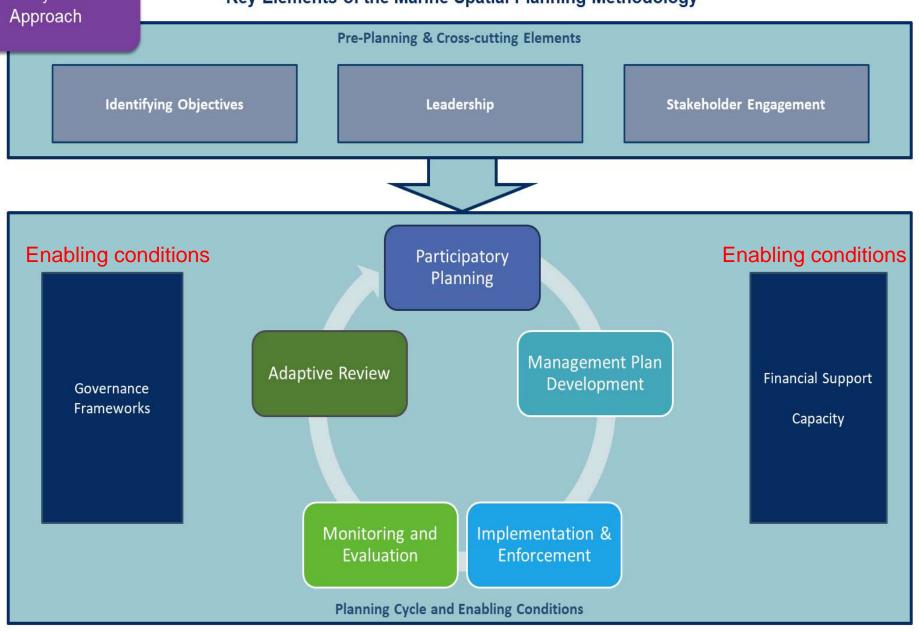
Development of the methodology

- Review of existing marine spatial planning frameworks for national jurisdiction
 - Key elements of marine spatial planning
 - Guiding principles
- Explored elements in the context of ABNJ
- Methodology comprises: key elements with associated activities
 - What could be done
 - The next step is to describe how activities would be undertaken and by whom.

This workshop will provide input on this when 'testing' the methodology



Key Elements of the Marine Spatial Planning Methodology



Pre-Planning & Cross-cutting Elements

Identifying Objectives

Loadorchin

Stakeholder Engagement

Identifying the need, objective and location for planning

- Define and agree the objective. This could involve generating a common vision.
- Identification of existing ecological conditions
- Prioritisation of issue and definition of specific area
- Consider wider stakeholder input on objective and priorities

Governance Frameworks Ada

Planning Cycle and Enabling Conditions

Key Elements of the Marine Spatial Planning Methodology

Pre-Planning Cross-cutting Elements

Identifying Objectives

Leadership

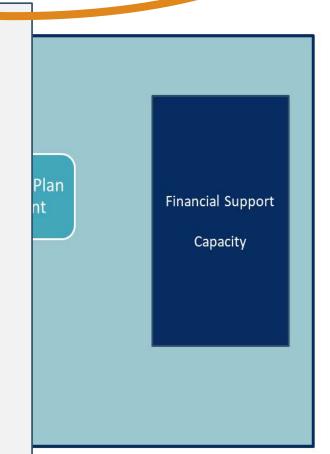
Stakeholder Engagement

Stakeholder identification and engagement

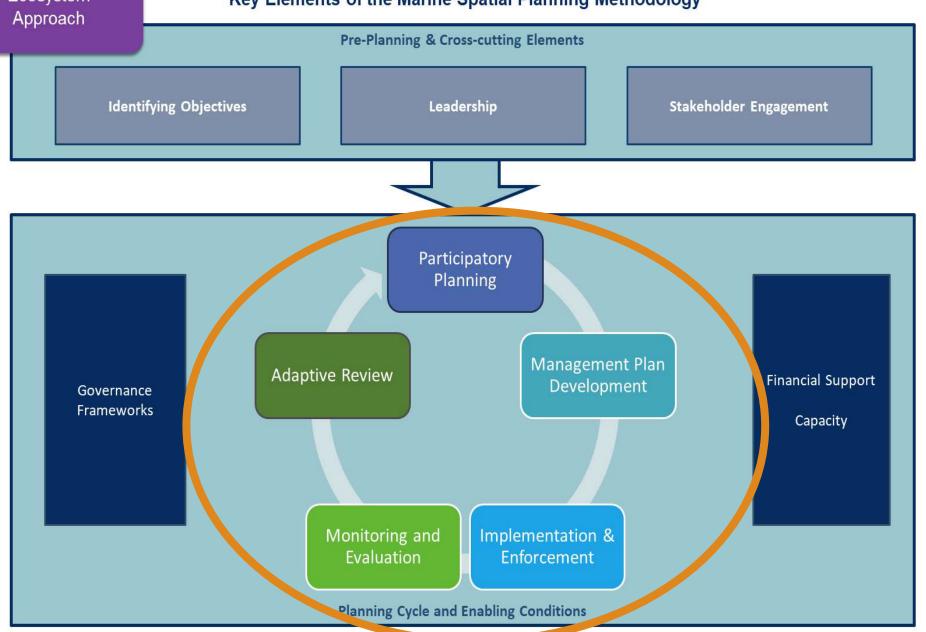
- Define and agree the objective. This could involve generating a common vision.
- Develop a mechanism for stakeholder engagement
- Identify when and how stakeholders can participate

Leadership

Define roles and responsibilities



Key Elements of the Marine Spatial Planning Methodology





Considerations

- Outlined a general Marine Spatial Planning process
- Lack of a cross sectoral governance framework for ABNJ is a potential barrier to the implementation of marine spatial planning
- * Developed governance options under which the methodology can be 'tested'
- * ABNJ-specific guidance to be developed for each element



Next steps for the Marine Spatial Planning Methodology

- March 2019 input from CPPS workshop
- Draft output available for South East Pacific regional review
- * June 2019 input from Nairobi Convention workshop
- Draft output available for Western Indian Ocean regional review
- July 2019 Circulation for external expert review
- * August 2019 finalised methodology potentially presented at IGC 3









Thank you





Key Elements of the Marine Spatial Planning Methodology

Legal frameworks

 Identify, review and agree upon existing relevant legal frameworks and mandates of relevant organisations

ler Engagement

Finance

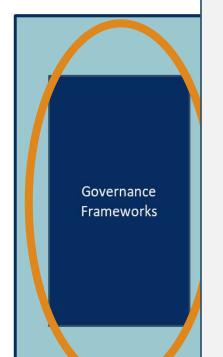
- Identify financial mechanisms to support the planning process
- Identify sustainable finance for implementation

Capacity

- Identify champions for the planning process
- Identify capacity needs and develop to engage with and implement plan



Planning Cycle and Enabling Conditions



Identifying Ob

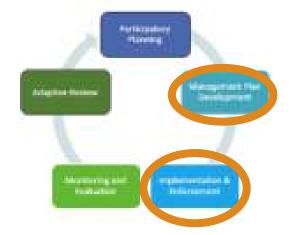
Participatory plan formation

- Develop participatory planning process
 - Who, how, when
 - Dispute settlement processes
- Identify and incorporate relevant data
 - Existing activities, measures etc.
 - Analysis of future conditions





Planning Cycle



Management plan development

Draft management plan for area-based management measures

Implementation and enforcement

- Responsible entities (previously identified) to implement management measures
- Enforcement identified in planning process





Planning Cycle



Monitoring and Evaluation

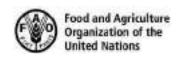
- Conduct monitoring activities in line with management plan requirements
- Evaluation of effectiveness of measures (process in line with management plan)

Adaptive review

- Participatory process to review management actions
- Adaptation of measures











Rachael Scrimgeour
Programme Officer UN Environment World Conservation Monitoring Centre





The issue

- * **Key challenge:** governance framework
 - * Evolution of governance framework in the future
 - * Increases in- and emergence of new- activities in ABNJ

We need to understand how the methodology will be affected by the evolving governance and usage landscapes.

To do this, we need to consider a hypothetical future...



In this future....

- Marine Spatial Planning is ation seed to ensure biodiversity conservation and sustainable resembles, the continuation of activities and avoid incompatible
- * Current uses include:

Conservation

- Migrating whales
- Deep-sea coral and sponges exist
- **EBSA** and KBA descriptions

Fisheries

- Fishing footprint increasing
- RFMO management more sophisticated
- VME designation for deepsea coral

Tourism

- Tourism revenue from whale watching
- Coastal tourism

Telecommunications

- Communications cable runs through mining exploration area
- Awareness of cable locations increasing
- Some cables still at risk of damage

Mining

- Designated mining exploration area in proximity to VME.
- REMP processes nearly finished for all ocean basins
- APEIs designated in associated with all mining concessions.





Testing the methodology

Imagine you are a marine planner living in this imaginary future.

We need to understand how the MSP will be affected by the evolving governance regimes.

To do this you will explore **one element** of the MSP methodology under two different governance options.

International Lection can be found in ANNEX 2

Binding Incommation

This information No International Lec.

International Legally Binding Instrument



Testing the methodology

Tourism

- Tourism revenue from whale watching
- Coastal tourism

Conservation

- Migrating whales
- Deep-sea coral and sponges exist
- EBSA and KBA descriptions

Fisheries

- Fishing footprint increasing
- RFMO management more sophisticated
- VME designation for deep-sea coral

Telecommunications

- Communications cable runs through mining exploration area
- Awareness of cable locations increasing
- Some cables still at risk of damage

Mining

- Designated mining exploration area in proximity to VME.
- REMP processes nearly finished for all ocean basins
- APEIs designated in associated with all mining concessions.

How does the governance option influence this element of MSP?

No International **Legally Binding** Instrument



Instrument



International **Legally Binding**

Activity

* This is a group activity

- * You will be given a number
- * After coffee break, please join the group matcl
- * Groups will be separated into French and Eng
- * Please nominate a rapporteur
- Groups will report back after lunch

* Each group will be given:

- * An instruction sheet
 - * Annex 1 = Hypothetical future
 - * Annex 2 = details on governance options
- * 2x worksheets
 - Each worksheet corresponds to a different element
 - Each group will look at a different element



Marine Spatial Planning methodology/municities assulon.

Working regime, paint Marketia, best 32" 2020; Ope Street

make and other ways, and but you have

Many levels 15000-And Placetter

A more pand planning exchanging for 4th has been evaluated by VAC ACIE. for the 1850 Coar late groupe until the med secretary to it impose quarter demand affilits medicatelling, and consider from they regist for against an priorities probat different governance quilland.

one vices will us you helped to regive the extracting and the guidean't custom - you be political as a report at the extrol flat project.

and a time article and a state out and a LEG beauty for the park and a principle of the state of hypothesial Kissin in which new protests which sitted which the pre-trinent in which is your report wome analytic, and a range of Names armine consum with each other and pose thress to the environment, who beauty before made on spiriet. The following new a contractor Ariela I.

images per una a mansa plannar ferrigio fine imagesary fotoso. Vine prin n lo sosi manna quanal planning as a softer palice profitio and reason represented freads, which to hoose artistics in Affect

ALTONO DE LOS DE MANOR

Way L stoke ducking the power.

- . Plant that Mongh by color to have built.
- * . Third doubling control the registering and the applications right hadron from Way I State ducting the promise on upline
- Pleasant of the har grown constraint forms Z.
- Consequence reprinted in company ordination where these is not retermally legally linearing temporaries and the year outside or your sources developed options office a distance when there is a view constitution in the property and the contract

- The name apply placing exclusiving a region gradient chance, but an elite point region in bias one of these demands grader the test graderance options.
- covider it the warrent of econe-leading disnery can be uneartaken under each governore patien. one what tradit he resolved or support the process. Their plant the polarities for order persons recording, and the personal project continuate and fundaments.

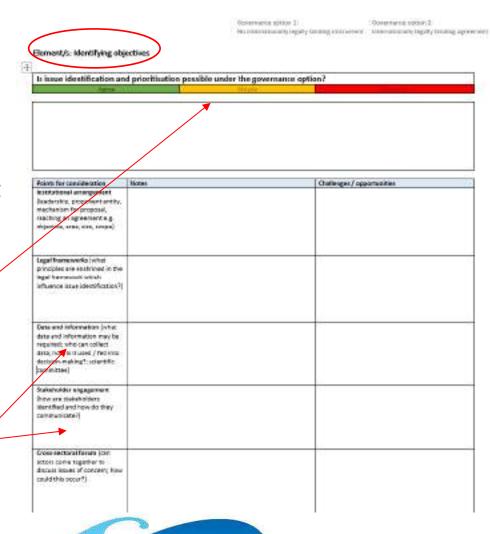
Element/s: Identifying objectives

Points for consideration	None	Challenger,/ opportunities
instructional arrangament	10001	
Baderskip, proposent antity, mechanism for proposel, reacting an agreement a.g. algorithm, area, size, singel)		
Legal frameworks (what principles are essimined in the legal harmonistic which influence issue identification?)		
Date and information (what date and information may be required; who can collect date, now is a used / feel end declare-making! - claratific (unfailtate)		
Stakeholder singagement box are stakeholders identified and how do they carrier unicated)		
Cross-sectoral flavors (con action come together to discuss issues of concern how		

What you will do

* In your groups

- Read the materials provided
- Consider the element of marine spatial planning on your worksheet
- One worksheet is to be used for each governance option
- Determine whether you agree with the statement at the top and comment using your experiences
- Points to consider are provided to encourage discussion on how the element is influenced





Worked example

Stakeholder engagement (what stakeholders should be involved and how, are there

Element: stakeholder engagement

Governance Option:

No ILBI Relevant stakeholders can be easily identified and engaged. Agree Stakeholders to engage include: ISA, IMO, RFMO, scientific research and academia, NGOs, cable laying company (and the country in which that country is based) Points for co Institutional A regional platform could coordinate consultation (entity respo undertaking: Wider involvement of sectoral stakeholders in regional platform engagement, required – potential for gaps relevant stak how they will Lack of recognition of regional platform at global level may be challenging. might hinder its support/ability to engage meaningfully Legal framev obligation to ensure wider stakeholder obligation)

Worked example

Element: stakeholder engagement

Governance Option:No ILBI

+

Relevant stakeholders can be easily identified and engaged.

Agree

support this

inv

Maybe

- In the fictional scenario stakeholders who would need to engage would include: ISA, IMO, RFMO, scientists studying deep seabed and whales, NGOs, the cable laying company (and the country in which that country is based)and others?
- A regional platform provides a mechanism to coordinate consultation
- There could be gaps from organisations who are not part of the platform
- Lack of global recognition of the regional platform might hinder its support/ability to engage meaningfully

Points for consideration	Notes		Challenges / opportunities
Institutional arrangement (entity responsible for undertaking stakeholder engagement, who determines relevant stakeholders and how they will be engaged)			
 The regional plate Regional Seas of Fishery manages are the season of these of the season of the seas	atform could be made up of a Organisation and a Regional ement organisation. could organise a consultation gation for all actors to engage tion would be challenging to	• A s: p	ingagement with the process would be ptional as there is no formal mechanism in open process could be done to allow takeholders to self select – but this would otentially miss some. Experts could be consulted to identify dditional individuals to engage.
include as there	e is no current mechanism to		

Worked example

Element: stakeholder engagement

Governance Option:No ILBI

+

Relevant stakeholders can be easily identified and engaged.

Agree

Vlayba

- In the fictional scenario stakeholders who would need to engage would include: ISA, IMO, RFMO, scientists studying deep seabed and whales, NGOs, the cable laying company (and the country in which that country is based)and others?
- A regional platform provides a mechanism to coordinate consultation
- There could be gaps from organisations who are not part of the platform
- Lack of global recognition of the regional platform might hinder its support/ability to engage meaningfully

Points for consideration	Notes	Challenges / opportunities
Institutional arrangement (entity responsible for undertaking stakeholder engagement, who determines relevant stakeholders and how they will be engaged)	The regional platform could be made up of a Regional Seas Organisation and a Regional Fishery management organisation. Either of these could organise a consultation mechanism. There is no obligation for all actors to engage in that process Public participation would be challenging to include as there is no current mechanism to support this	Engagement with the process would be optional as there is no formal mechanism An open process could be done to allow stakeholders to self select – but this would potentially miss some. Experts could be consulted to identify additional individuals to engage. X? might challenge the process
Legal frameworks (is there an obligation to ensure wider stakeholder obligation)	Continue adding notes in response to these points	
Stakeholder engagement (what stakeholders should be involved and how, are there		

When reporting back...

- * Please report on the following:
 - * Agree, disagree, uncertain about element?
 - * Why?
 - * What are the key challenges or opportunities?







Marine spatial planning elements – ABNJ context

Identifying the Need

- Limited sectors operating in ABNJ
- Ecological conditions in ABNJ are not yet fully understood

Ecosystem Approach

- It will require data on the ecosystems, and an understanding of what benefits people are gaining from them. E.g. deep sea sponges may provide medicine now and in the future through scientific research, whales are important for eco-tourism and deep sea habitats can support aspects of fisheries.
- Can this information be accessed? Who holds it?
- Is there an obvious scientific committee, or working group, that could help with this aspect?

Leadership, Roles and Responsibilities

- Do any organisations currently have a mandate for cross-sectoral planning?
- Is it something being considered in the BBNJ process?
- Maybe they don't need a mandate but would need those participating to agree that org X could lead a planning process (similar to the national gov agreeing an NGO could lead one in a specific country).









STRONG High Seas Project

Project Goals

- Development of targeted measures aimed at strengthening integrated/crosssectoral governance of ABNJ at multiple scales
- Promotion of cross-regional cooperation and global-regional interaction
- Development of targeted measures based on the <u>ecosystem approach</u> to support the above
- Development of capacity to participate in international negotiations on BBNJ
- Development of capacity to implement conservation and management measures in ABNJ
- Identification/development of tools and best practices for: i) monitoring, control and surveillance; and ii) integrated ocean governance in ABNJ
- Promote stronger role for regional approaches in international ABNJ negotiations



Project Activities

- > Awareness-raising and capacity-building
- Assess capacity building needs and provide training on the implementation of regional ABNJ governance approaches (training in 2019 & 2020).

Responsibility for the capacity building component of the project in the ABC region was assigned to IOI-SA as a local project partner.



Capacity Needs Assessment

First step was to undertake a **Capacity Needs Assessment** with a view to providing direction for the training and awareness-raising activities both under the project and in the longer term.

For purposes of the assessment, capacity was seen to include:

- Capacity to implement conservation and management measures in ABNJ;
- ➤ Capacity to participate in the BBNJ negotiations; and
- Awareness-raising aimed at building the political will in the region to support and participate in ABNJ/BBNJ.



Capacity building & BBNJ Negotiations

Capacity building and technology transfer are one of the elements being considered in the BBNJ negotiations

The Policy Brief on Capacity Building (Common Oceans Project) describes them as the "enabler" of the other elements which include:

- Area-based management tools, including marine protected areas;
- Environmental impact assessments;
- Marine genetic resources, including questions of their access and sharing of their benefits.



Scope of technical skills required

- ➤ Legal skills including an understanding of international law, and the development of national policy and legislation on marine and coastal management issues (eg. ICZM, resource management, spatial planning etc)
- Identification and development of resources in ABNJ which could potentially contribute to Blue Economy initiatives
- Application of various management tools (ABMTs such as VMEs, PSSA's, EBSA's, MPAs EIAs etc)
- Implementation of the ecosystem approach
- Scientific research
- Technology transfer
- Data acquisition and information management.

NOTE: Most of these skills are <u>not unique to ABNJ</u> but are also required for management on marine areas within the jurisdiction of coastal states



Capacity needs assessment process

A set of questions was developed based on the definition and scope of capacity building adopted for the project.

The questionnaire was circulated by e-mail – with the option of either completing a copy as a Word file OR via an online facility – to between 150 and 200 stakeholders (including all the ABC Focal Points). It was also made available via social media.

To date, <u>20 responses</u> have been received from individuals from 11 of the 22 countries in the ABC region. Most were from government officials - including 6 Focal Points – but responses also received from academics, research institutions and NGOs.

Given the low response, what we are presenting should be considered as preliminary results/ recommendations. In order to strengthen the basis of the recommendations, we would like to request those present from ABC countries to complete a questionnaire.



Levels of Awareness of ABNJ/BBNJ

Target group	Yes	No	NR
Respondents	18	2	
Decision-makers	10	7	3
Colleagues	14	5	1
General public	1	18	1



Legal aspects

Of the 11 countries from which responses were received, the following number had policies/legislation on:

- Integrated Coastal Zone Management 8
- Conservation and sustainable use of marine biodiversity 9
- Fisheries management 10
- Marine Spatial Planning 3.

With respect to participation in the BBNJ negotiations and/or UNDOALOS training on ABNJ, 7 countries indicated that they were involved in the negotiations but none had participated in the training. Of concern was that, based on information from other sources – eg. workshop reports – it is clear that people from quite a few of the countries have, in fact attended the training. This suggests that there is a lack of sharing of information around the BBNJ negotiations & related activities within the countries.



Management tools

Tool	Yes	No response
Area-based Management Tools (inc MSP)	6	5
Vulnerable Marine Ecosystems (FAO)	6	5
Particularly Sensitive Sea Areas (IMO)	5	6
Special Areas (IMO)	3	8
Areas of Particular Ecological Importance (ISA)	3	8
Marine Protected Areas (CBD)	11	0
Ecologically or Biologically Sensitive Areas (CBD)	9	2
Environmental Impact Assessments	11	0
Ecosystem approach	Most	

Some are linked to specific sectors, so response likely influenced by expertise of respondent

Research, data acquisition & management



- All of the 11 countries undertake research on marine/coastal ecosystems/resources but only 5 include work on ABNJ.
- The latter include work on Deep Sea Biodiversity, Marine Genetic Resources and Management Tools.
- Some of them are involved in international collaborations but there were no clear indications of technology transfer.
- 9 of the countries have coastal/ocean monitoring systems in place (ocean observation systems (9); water quality (6); coral reef (3); and seagrass (1)).
- Most also have information management systems in place.



Priorities for capacity building

Type of capacity building		High	Medium	Low
Building political will	Decision makers	15	0	4
	General public	5	6	5
Legal/ enforcement capacity	Drafting policy/laws	10	8	1
	Compliance & enforcement	11	6	2
Management capacity	Management tools	12	5	1
	Ecosystem approach	11	3	1
Research capacity		14	3	2
Technology transfer		13	3	1



Capacity building options

Option	# of votes
Regional introductory short course on ABNJ/BBNJ	18
Policy dialogue at regional level	18
Regional short course/s on management tools	17
High Level Seminar on ABNJ/BBNJ (political will)	16
Public awareness via social media	15
Public awareness via traditional media	12
Primer/policy brief aimed at decision-makers	11
Academic course on ABNJ/BBNJ	11
Massive Online Open Course	8
Webinars	7

Existing opportunities in the region



- □ IOC-AFRICA
- ☐ SEAFO partner of Common Oceans Deep Seas Project
- Monitoring, Control & Surveillance Workshop (Dec 2018)
- Surveys on Fridtjof Nansen (Jan/Feb 2019)
- Observer training (May 2019)
- Port Inspection training (June 2019)
- □ BCC BCLME
- ☐ iAtlantic?
- ☐ IDDRI Project on Oil & Gas
- □ DOSI Deep Ocean Stewardship Initiative
- Mami Wata Project
- ☐ IOI Ocean Governance training



Recommendations on capacity building

Option	Other opportunities
SHORT TERM:	
Regional short course on ABNJ/BBNJ	Priority for STRONG
Policy dialogue at regional level	STRONG HS, iAtlantic etc
Regional short course/s on management tools	Various existing courses
High Level Seminar on ABNJ/BBNJ (political will)	Priority for STRONG (COP 2020)
LONGER TERM:	
Primer/policy brief aimed at decision-makers	ABC Working Group?
Academic course on ABNJ/BBNJ	Available in US, section in IOI OGTP
Massive Online Open Course	
Webinars	



Way forward

- First round of training scheduled to take place in the second half of this year.
- ➤ The ABC WG on ABNJ has a sub-group on capacity building which we would like to request to consider the recommendations of this report and in the longer term help drive and coordinate implementation of regional capacity building activities around ABNJ/BBNJ.
- Should also consider capacity needs assessments from other sources.
- National Working Groups to coordinate activities/ information incountry.



Complete questionnaire

Thank you



STRONG Dialogue Workshop 1 – Abidjan 2018



"At the moment, there is no framework in place for cooperation and management of issues connected to ABNJ in the Southeast Atlantic. Participants identified the lack of an information-sharing mechanism and the lack of a centralised information platform with, for example, basic information on ABNJ issues and details on regional events such as conferences and workshops. It was recommended to establish a platform that would help stakeholders stay in touch and to propagate information."



Information dissemination and communication platform

www.abidjanconvention.org









HOME MEETINGS VACANCIES GALLERY CONTACT

















































http://abidjanconvention.org/biodiversity-beyond-national-jurisdiction-web-platform-abidjan-convention-region





HOME

MEETINGS

VACANCIES

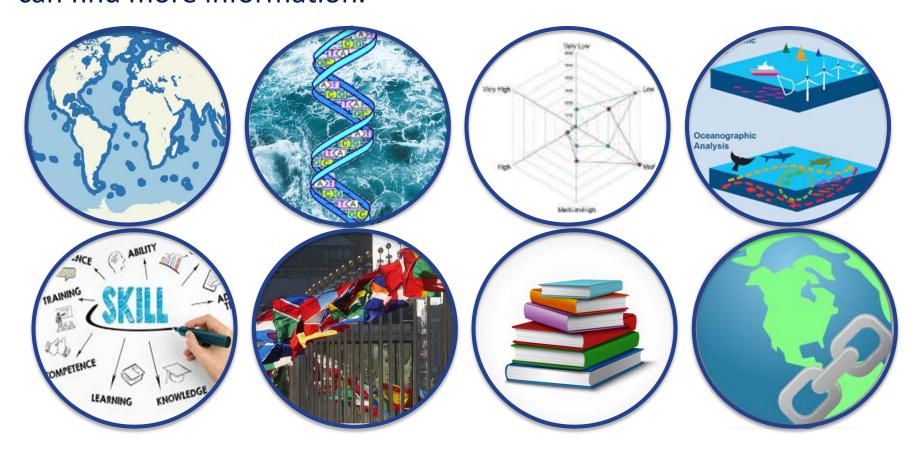
CONTACT

BIODIVERSITY BEYOND NATIONAL JURISDICTION WEB PLATFORM FOR ABIDJAN CONVENTION REGION

Biodiversity Beyond National Jurisdiction web platform for Abidjan Convention region



Pages to include e.g.: Brief, relevant description of the topic in user friendly, jargon-light text and most importantly, Links to where you can find more information.





Understanding BBNJ and its importance for Africa

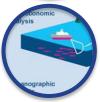




Marine Genetic Resources



Environmental Impact Assessments and Strategic Environmental Assessments



Area-Based Management Tools (ABMT)



Capacity building and Knowledge transfer



Updates from the New York Negotiations



Publications



Links to organisations, data sources & articles

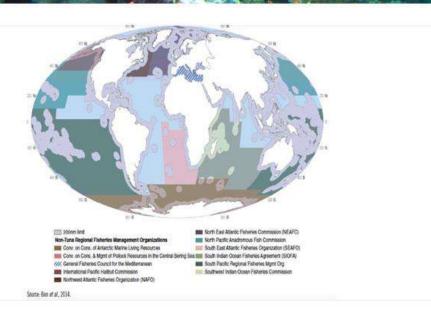






HOME MEETINGS VACANCIES CONTACT

BIODIVERSITY BEYOND NATIONAL JURISDICTION WEB PLATFORM FOR ABIDJAN CONVENTION REGION



ECOLOGICAL CONNECTIVITY OF THE OCEAN

UNDERSTANDING BBNJ AND ITS IMPORTANCE FOR AFRICA

The adoption of UNCLOS in 1982 was established to manage human activities taking place in and on the ocean. It however does not reflect the ecological connectivity of the ocean.

The ocean is dynamic environment within which nutrients, gases, energy and heat move both horizontally across marine realms and vertically within the water column through physical, chemical and biological processes that enable their distribution across latitudes,







HOME MEETINGS VACANCIES CONTACT

BIODIVERSITY BEYOND NATIONAL JURISDICTION WEB PLATFORM FOR ABIDJAN CONVENTION REGION

ENVIRONMENTAL IMPACT ASSESSMENTS AND STRATEGIC ENVIRONMENTAL ASSESSMENTS









HOME

MEETINGS

VACANCIES

CONTACT

BIODIVERSITY BEYOND NATIONAL JURISDICTION WEB PLATFORM FOR ABIDJAN CONVENTION REGION

AREA-BASED MANAGEMENT TOOLS





Capacity building and Knowledge transfer









Links to Training Opportunities:

- STRONG High Seas BBNJ Training for Abidjan Convention Region
- IOI-SA Course in Ocean Governance

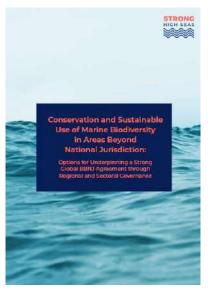
Find Deep Sea Experts: www.deepseaexperts.org

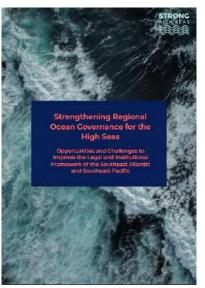
Find organisations working on BBNJ:

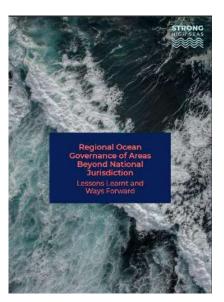














https://www.prog-ocean.org/resources/





User Log on interface

User name: xxxxxxxx

Password: xxxxxxx

- Join the conversation on marine genetic resources
- Join the conversation on EIA and SEA
- Join the conversation on ABMT
- Join the conversation on Capacity Development and Technology Transfer
- View the calendar of events
- View training opportunities
- Access the latest and archived news
- Webinars

Links to events









www.prog-ocean.org/marine-regions-forum

"Achieving a healthy ocean – Regional ocean governance beyond 2020".

30 September – 02 October 2019 in Berlin, Germany





https://www.sustainableoceansummit.org/

Ngiyabonga! Dankie! Merci! Asante! **Enkosi! Thank you!**













Shannon Hampton IOI-SA

Institute for Advanced Sustainability Studies e.V. Berliner Strasse 130

D - 14467 Potsdam

Web: www.iass-potsdam.de & www.prog-ocean.org/























ABNJ Deep Seas Project Capacity Assessment, Nairobi Convention: Area-Based Planning in ABNJ

Louise Lieberknecht, Miles Macmillan-Lawler (GRID-Arendal) Nina Bhola, Rachael Scrimgeour (UNEP-WCMC)













Capacity of the Nairobi Convention **network** (Member States + Secretariat) to carry out **area-based planning in ABNJ** of the Western Indian Ocean



- 1. Identify current capacity development needs.
- 2. Review previous capacity assessment.
- 3. Identify progress made on capacity building within ABNJ Deep Seas Project.









What do we mean by "capacity"?





3 Components of Capacity

Internal Attributes

Structure & Procedures
Organisational Capacity
Goals

Resources

Data & Information

Finance

Tools/Technology

Enabling Environment

Authority

External Relationships

Legal & Policy Framework







2016-2017 Capacity Assessment



Banham, W., Bubb, P., Moktar, Z. (2016) UNEP-WCMC Capacity Development Tool: User Guidelines, version 3.0. UNEP-WCMC, Cambridge, UK.





"data on key species and habitats available at appropriate scale"

"data on the most important human activities available at appropriate scale"

Internal Attributes

Structure & Procedures
Organisational Capacity
Goals

Resources

Data & Information

Finance

Tools/Technology

Enabling Environment

Authority

External Relationships

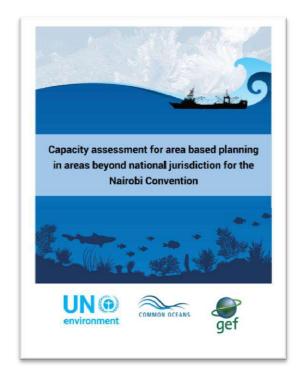
Legal & Policy Framework







2016-2017 Capacity Assessment



Macmillan-Lawler, M., Thomas, H., Fletcher, R., and Martin, J. 2018. Capacity assessment for area based planning in areas beyond national jurisdiction for the Nairobi Convention. Technical document produced as part of the GEF ABNJ Deep Seas Project. Cambridge (UK): UN Environment World Conservation Monitoring Centre. 22pp











Capacity of the Nairobi Convention **network** (Member States + Secretariat) to carry out **area-based planning in ABNJ** of the Western Indian Ocean

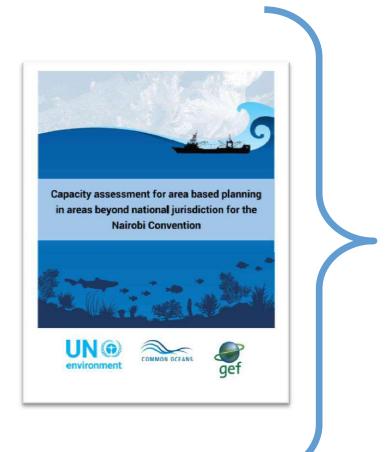


- 1. Identify current capacity development needs.
- 2. Review previous capacity assessment.
- 3. Identify progress made on capacity building within ABNJ Deep Seas Project.



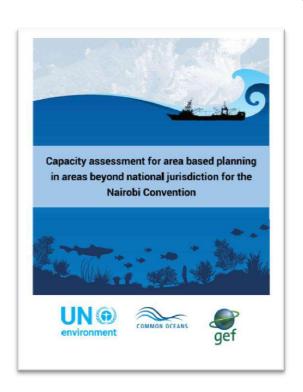


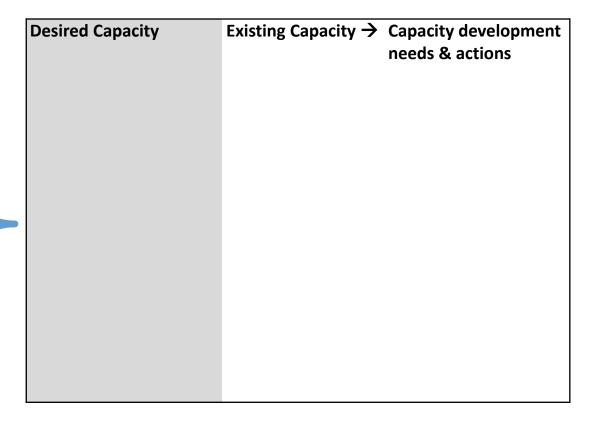




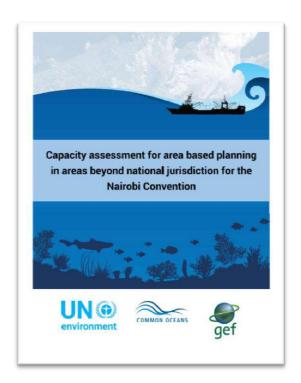












Desired Capacity

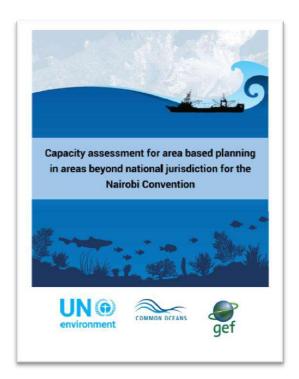
Existing Capacity → Capacity development needs & actions

Data & Information

Data on key species and biodiversity available at global resolution, & ideally at regional & ecosystem resolution.







Desired Capacity

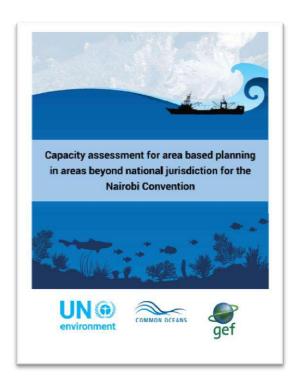
Existing Capacity → Capacity development needs & actions

Data & Information

Data on key species and biodiversity available at global resolution, & ideally at regional & ecosystem resolution.

Relevant data exist for the region, but are not being shared between organisations in the network. No shared data repository for ABNJ data for the region.





Desired Capacity

Existing Capacity → Capacity development needs & actions

Data & Information

Data on key species and biodiversity available at global resolution, & ideally at regional & ecosystem resolution.

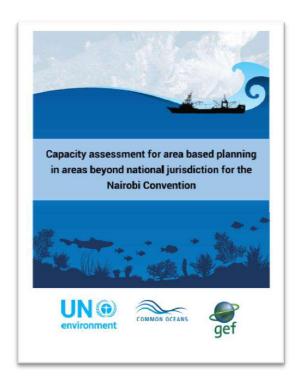
Relevant data exist for the region, but are not being shared between organisations in the network. No shared data repository for ABNJ data for the region.

Need:

- Data collation & shared data store







Desired Capacity

Existing Capacity → Capacity development needs & actions

Data & Information

Data on key species and biodiversity available at global resolution, & ideally at regional & ecosystem resolution.

Relevant data exist for the region, but are not being shared between organisations in the network. No shared data repository for ABNJ data for the region.

Need:

- Data collation & shared data store

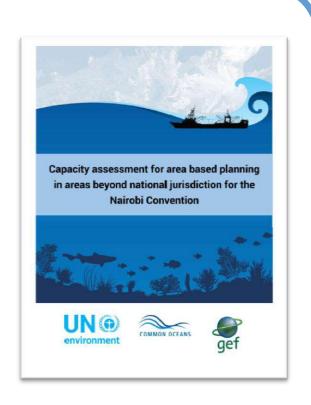
Action (by project):

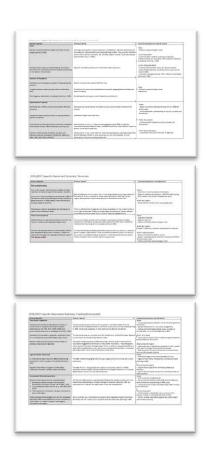
 Assist with data collation and create a data store











Internal Attributes

Resources



Enabling Environment







Perri Denta	Anthe Sant	Tachchaten: moketo
	Associates and in the specified or of long displacement representation. Note that the behavior of the specified of the specif	Section of puring decays of products. Section on puring decays of billioning change Section of the control of the control Area (Section). Area (Section).
National State of States of States &	Promise pullmane and in single for our disease deposits on the credit forms of an exercise production from the principal approximation of the pullman and production of the pullman and pu	
		Transcription of the control of the
	materials for any constant prospect to the later shows a material to the later shows a state of the la	Anna metter more me
The Marie Color	The remark EM decount about which is lost for these, by The 6 is a separate point in respect to the service. The service is the remark to the	A hard comment of course and comment to comment. After the comment of the commen

	Terring sports #	Capacity diversional count & a box
Constitute response to the constitute appropriate to the constitute and the constitute appropriate and the constitute and the c	The laminosist has past returning the an agreem, and the analysis of forms the department of commences and commences and commences and commences are commenced as differ the particular field beginning and commences are commenced as differ the particular field beginning and commences are commenced as differ the particular field beginning and commences are commenced as a finite particular field beginning and commenced as a finite particular field beginning as a finite particular field	here: - Transport of the control of
	For the during that the control has the results from the first basis flames, on processor of principal life belows made.	A tip throughout the company to the
	Company has been proposed to be a propos	A type (month oracle) 1 Sales are made of the other promote in control could need to represent the control could need to represent the could
rapid and Marin Toursenance		These comments are supposed to the comment of
to believe the father than the second period		Injury their first remarkly route on hand
Name that they is again controlled.	The riter for the is assignment for the control of the public of the pub	Arthur (Mariel Angel). - Agent to excupe of the first haplaness of the Angel to excupe of the first haplaness of the Angel to excupe of the Angel to except
Constal Residential		No. or word Angelows
1 Production of the State of S	on name toda kinab undergrap d'indice ha, perencuent de has Assamble republic d'inside solings l'inside. Inside to del la Assamble republic de l'inside solin soli d'indice solin.	to di selectivo de comingo de la comingo de
8 Passannes and an art age of the state of the same of		Anton County of the County of the Assessment of the County
Company of the company of the language of the company of the compa	Both popular, lain uniformatival about 9 to 4 page page of his field being being and his field being being being a field being	Transcription and the best being the control of the

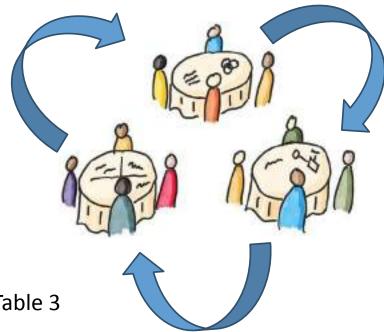


15 minutesx3 = 45 minutes total

Internal Attributes → Table 1

Resources → Table 2

Enabling Environment → Table 3







Review 2016-2017 assessment

- → Is it still accurate today?
- → What is missing, what has changed?
- → What are the capacity development needs now?





Before we start...
Any questions about the workshop session?







Review 2016-2017 assessment

- → Is it still accurate today?
- → What is missing, what has changed?
- → What are the capacity development needs now?











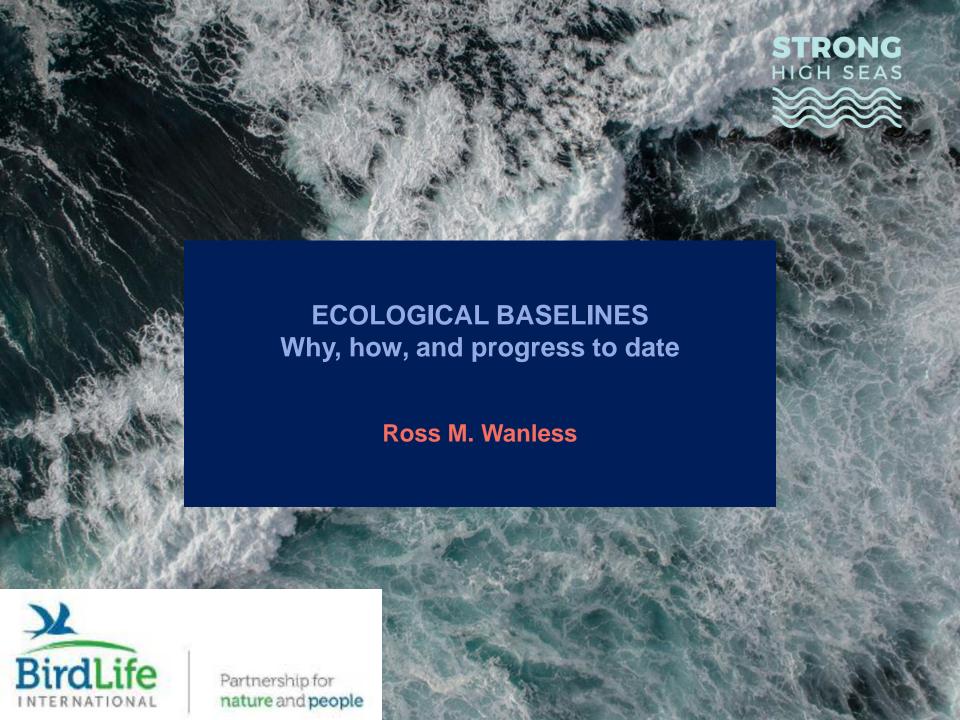
- → What are the 3 main capacity development needs now?
- → What are the 3 most important actions to take next? (what, who, when...)
- → What are the main capacity development achievements of the ABNJ Deep Seas Project?













Outline

- 1. Why an Ecological Baseline
- 2. What it looks like
- 3. What we've done so far



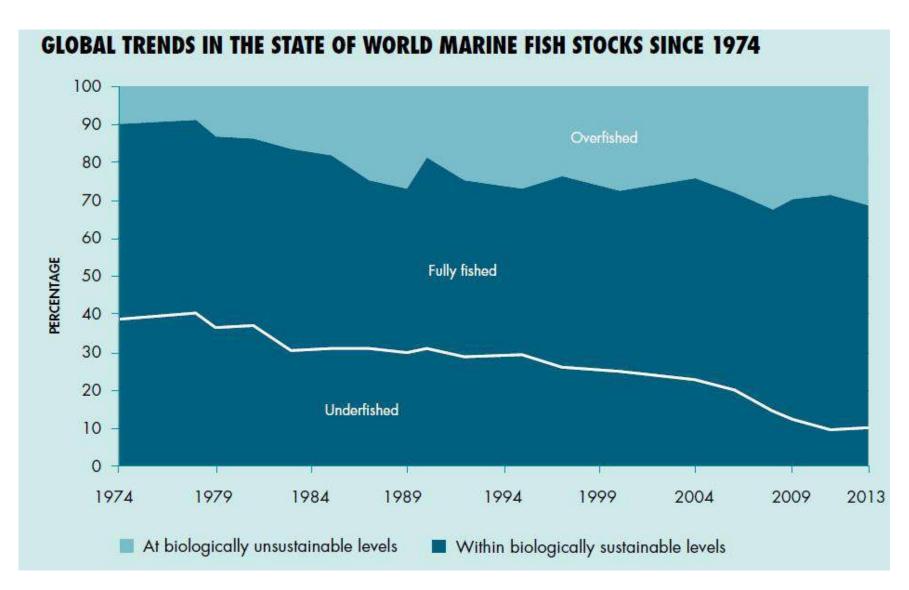


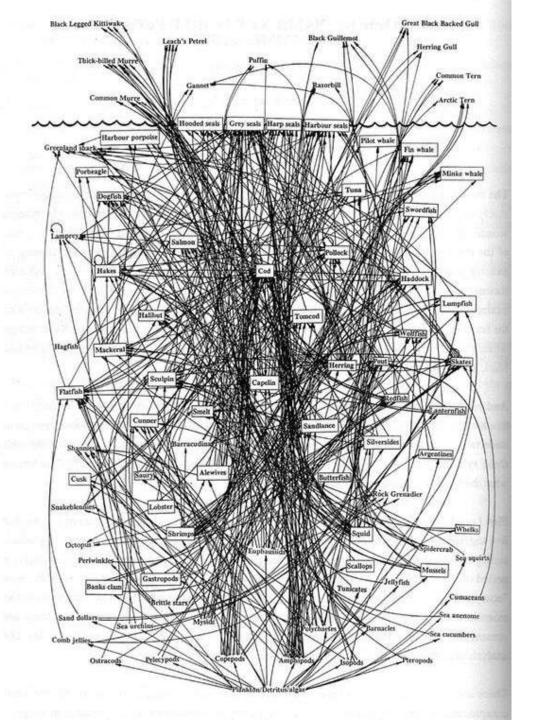
The single biggest impact that humans have on the ocean is...





Source: FAO SOFIA 2016: http://www.fao.org/3/a-i5555e.pdf









WHY?

- 1. Develop ecosystem-based approaches to managing High Seas (Ben Boteler: Monday)
- 2.Particular focus developing an integrated (multi-agency) approach to establishing protected areas on the high seas







- 1. What is out there (or what do we know)?
- 2. What do we know we don't know (but can make an educated guess at)?
- 3.We have to ignore things that we have no knowledge of



Can you conserve areas in the high seas

...if you don't know what is out there?

EBSAs, VMEs, IBAs, PSSAs, etc...



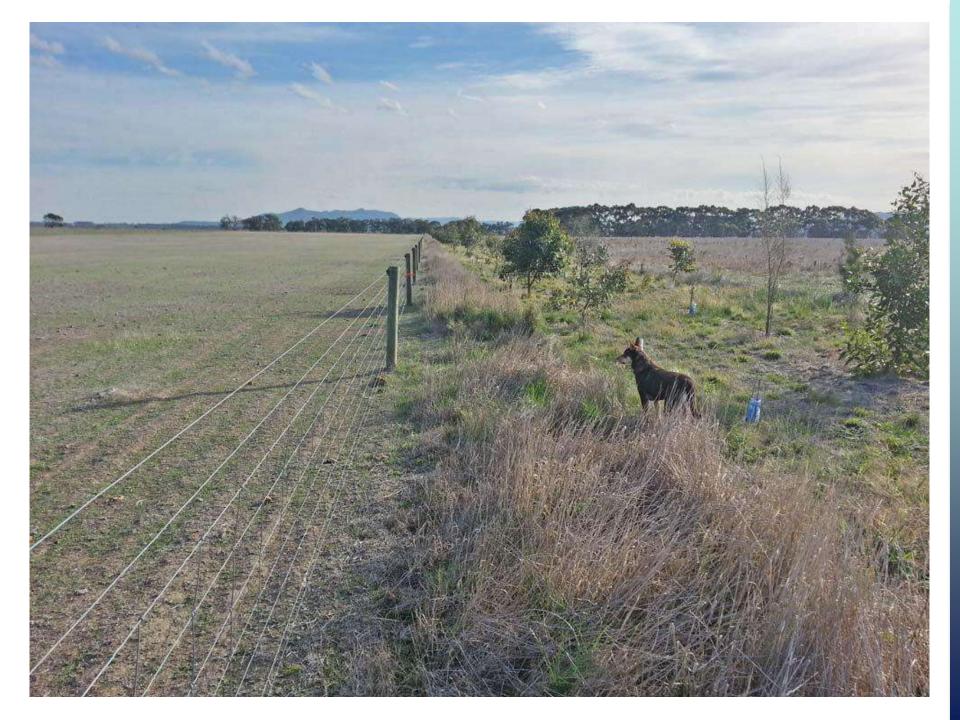


Ecological Baselines Report



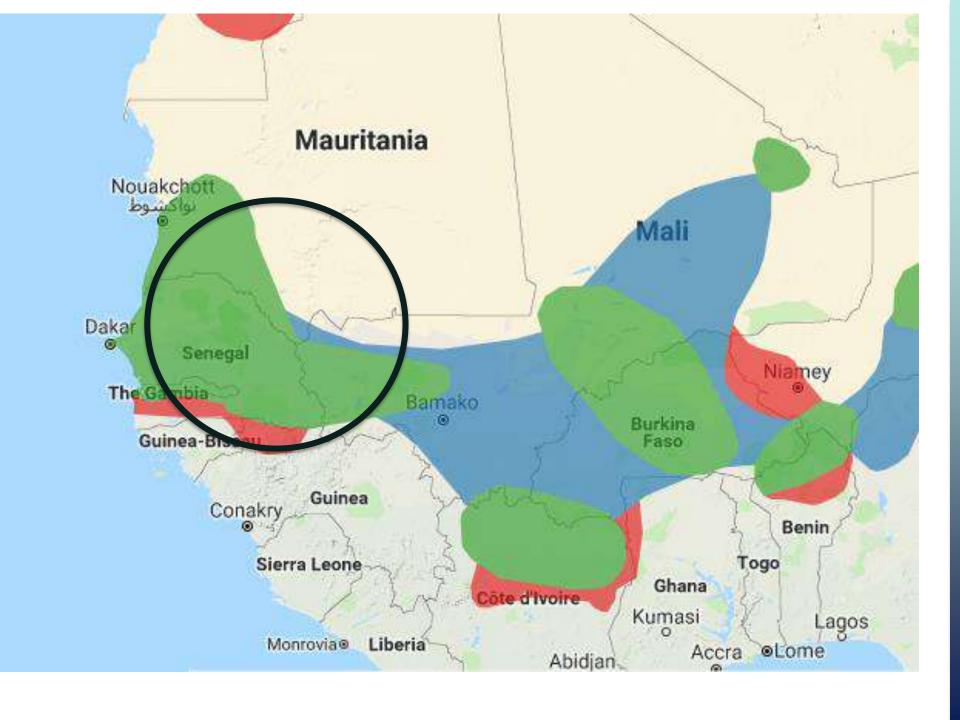
- 1. Desktop review of major themes, collating 'what is known' and 'what is not known'
- 2. Experts within the project team doing the drafting for each region
- 3. No time or budget to develop new analyses or conduct primary research
- 4. Major themes
 - a. Pattern: sections covering geophysical and biodiversity
 - b. Process: threats

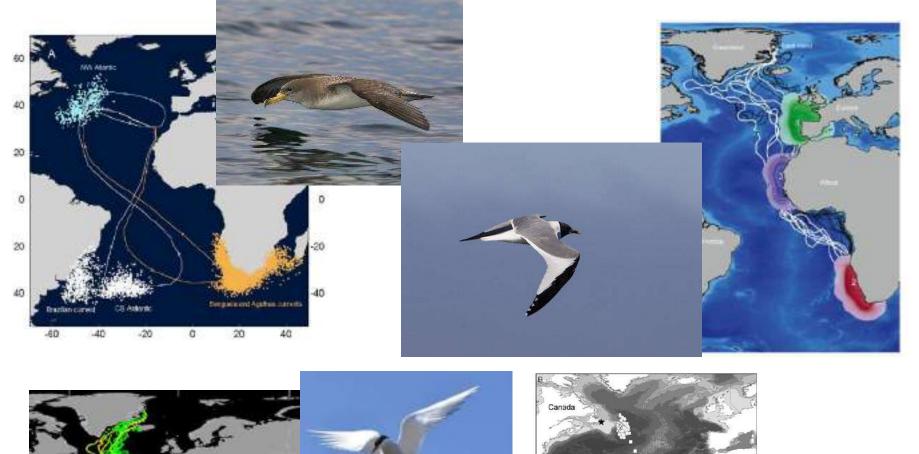


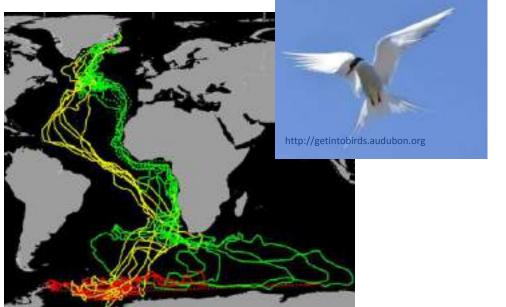


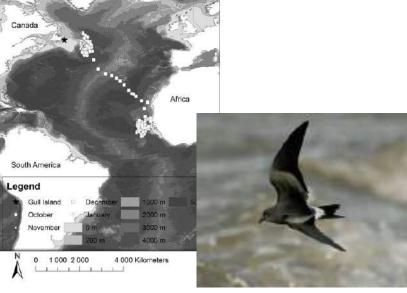












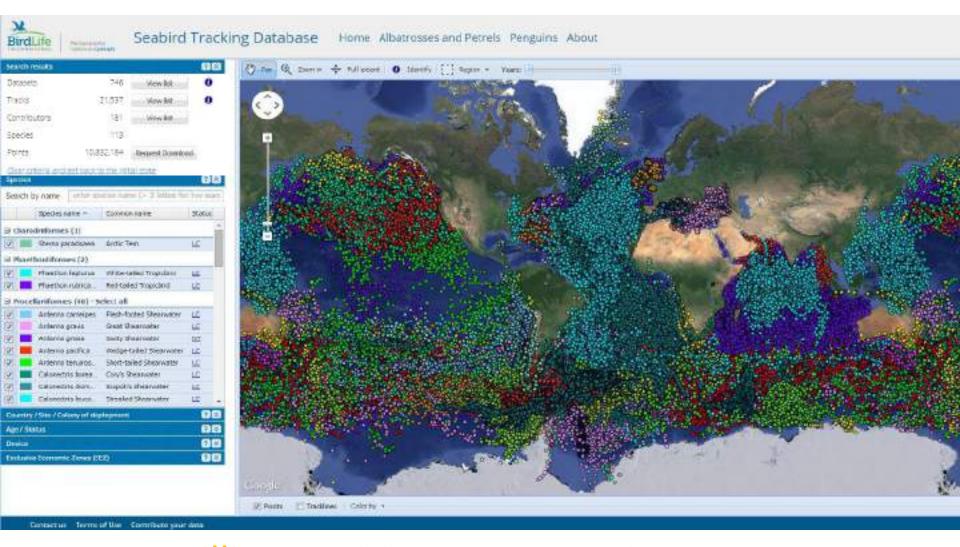


Connectivity...

...between ABNJ and EEZs

- a. How biodiversity and habitats straddle boundaries
- b. How activities in ABNJ can directly threaten activities in EEZ
- c. Why protecting biodiversity, habitats, and ocean ecosystems is critical to secure national interests within EEZs





> 11 million positions; 113 species; 180 contributors



Process

- Draft concept presented at 2018 Dialogue WS in Abidjan (and from S America Dialogue WS)
- 2. Comments and inputs taken onboard, and revised EBR report being finalised

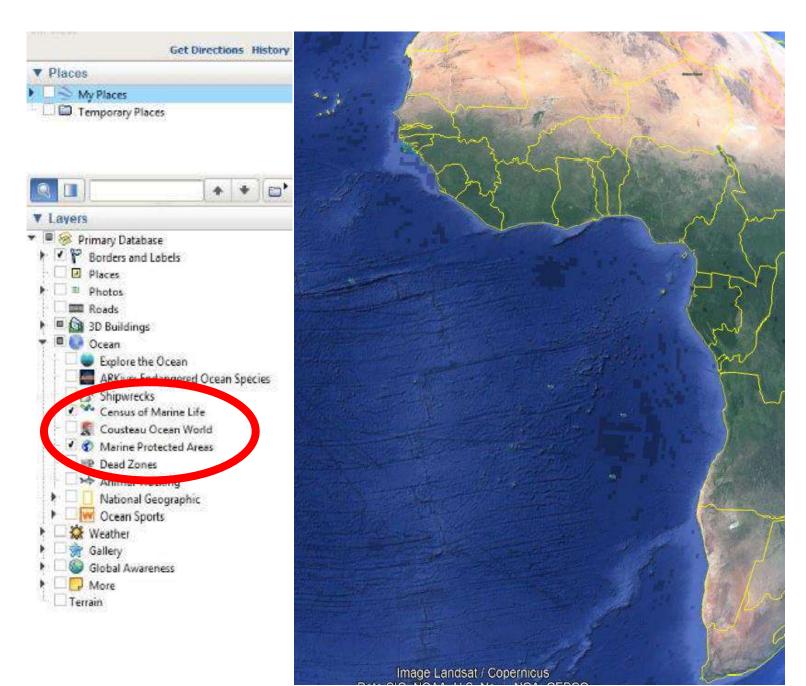




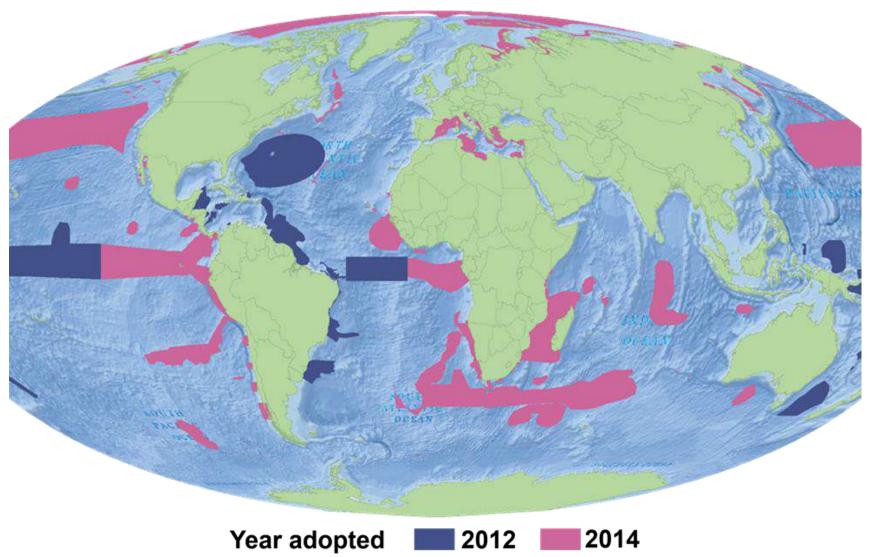
What next?

- EBR report serves as a benchmark for the current status of biodiversity: what we know (so that we can start to prioritise) spatial conservation
- Highlighting areas of biodiversity and habitat mapping that we don't know, so that those can be filled
- 3. It details the major threats and processes (to help address threats holistically, etc.)











What next?

- Used as a basis for initial recommendations for ABMT focal areas
- Targeted towards decision-makers (incl BBNJ negotiations)
- Identifies priorities for first pass of spatial conservation and other area-based management objectives
- Identifies threats that cannot be easily addressed by ABMT – e.g. climate change, plastic pollution, etc, linking local effects from global processes
- 5. Links to socio-economic assessment work under the project cost/benefits





Disclaimer – I've shamelessly stolen images from the internet for illustrating points





STRONG High Seas Reports

seas

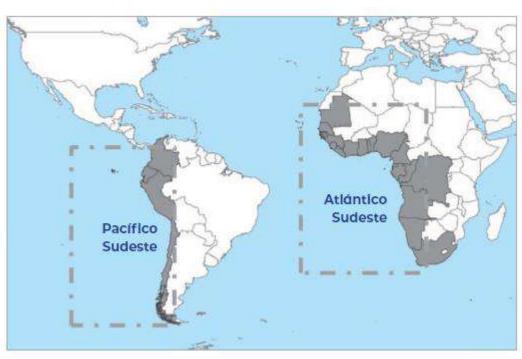
→ This report is part of a series of reports covering issues of Southeast Pacific and Southeast Atlantic

2022 ocean governance with a focus on the high seas of the 2021 **Final** Report 2020 **Options for** management Socio-2019 measures economic importance 2018 of the high **Ecological** seas State of the high

STRONG HIGH SEAS

Objectives of the Report

- Assess the relevant governance frameworks currently in place for the management of high seas biodiversity in the Southeast Pacific and Southeast Atlantic
- opportunities for advancing conservation and sustainable use of high seas biodiversity around two important ongoing international processes: the BBNJ process and Sustainable Development Goal 14
- Identify possible options for strengthening governance and regional cooperation

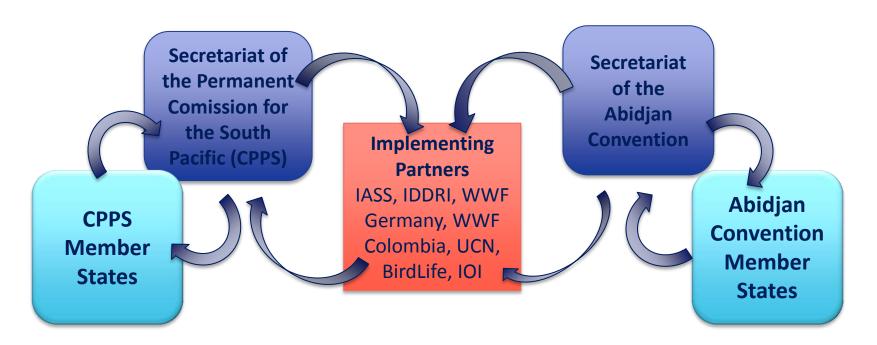


Focal regions of the STRONG High Seas project



Methodology

- Co-design of scientific assessments with Secretariats in both regions and involvement of stakeholders through regional workshops and expert opinion
- Extensive literature review and detailed analysis of legal and policy documents (based on previous studies)
- Review by ocean governance experts and STRONG High Seas project advisory board members



BBNJ Elements and Sustainable Development Goal 14



The discussion in this report is structured around two important ongoing international processes:

- The ongoing negotiations within the United Nations for an international legally binding instrument on the conservation and sustainable use of marine biodiversity beyond national jurisdiction (BBNJ); and
- Sustainable Development Goal (SDG) 14

BBNJ Elements:

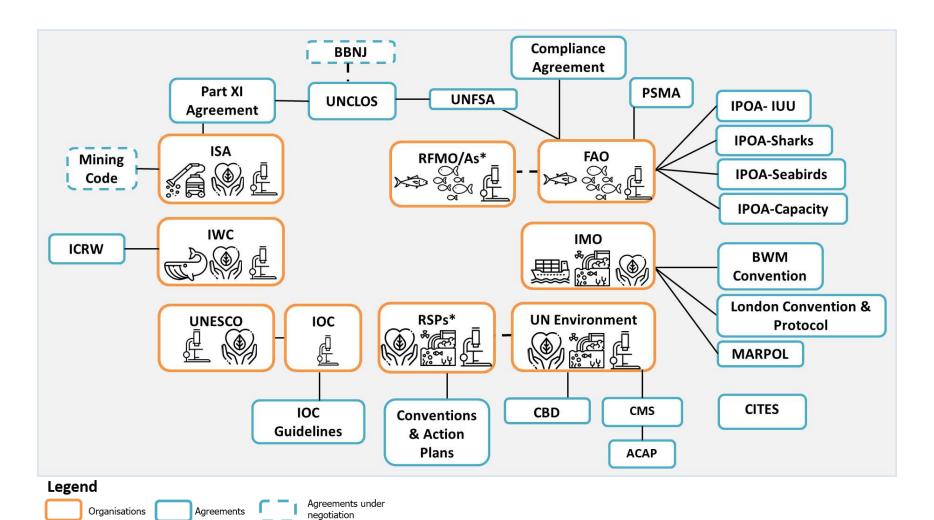
- Area-based Management Tools (ABMTs)
- Environmental Impact Assessments (EIAs)
- Marine Genetic Resources (MGRs)
- Capacity Building and Transfer of Marine Technology

SDG 14:

- 14.1 Marine Pollution
- 14.2 y 14.5 Management and Protection of Marine Ecosystems in ABNJ
- 14.4 Illegal, Unreported and Unregulated (IUU) Fishing

STRONG HIGH SEAS

Global Governance Framework for BBNJ



Depiction of main mandates/activities

















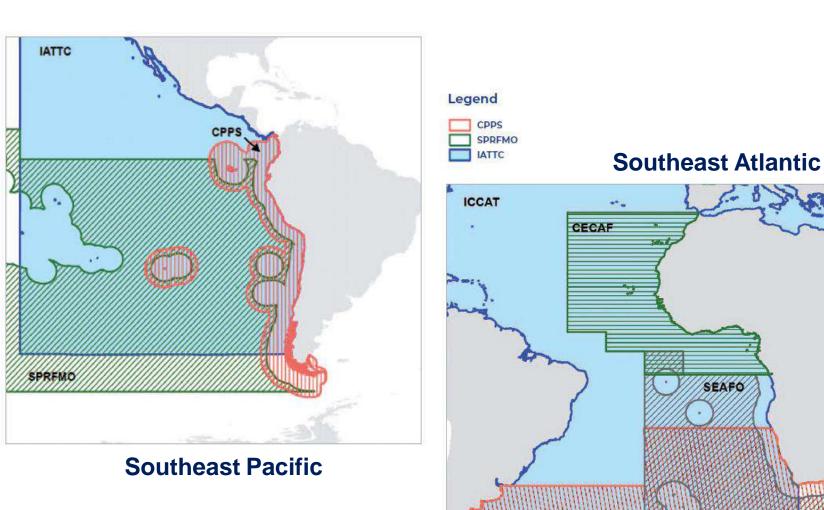


Legend

CECAF

CCSBT

Regional Governance Framework for BBNJ



Challenges in the Regions



- Organisations within the regions have varying and non-comprehensive or limited mandates to address issues related to BBNJ – in the Southeast Pacific, organisations have a complementary mandate;
- There is limited cross-sectoral cooperation within the regions, with individual organisations adopting their own principles, resolutions and recommendations for addressing BBNJ challenges;
- There exists varied and uneven participation in regional and global agreements within both regions, making it difficult to fully address issues related to biodiversity beyond national jurisdiction (BBNJ) without an adequate legal basis or, in the case of the Southeast Atlantic, also an institutional basis;
- Member States in the Southeast Atlantic are diverse in terms of culture, language and available capacity.

Possible Options to Strengthen Regional Ocean Governance in the Regions



- Cross-sectoral cooperation and coordination to ensure the implementation of the ecosystem-based approach to the conservation and sustainable use of BBNJ:
 - can be eased if more States in the regions become parties to key international and regional agreements → shared basis for common action
 - through e.g. joint programmes, Memoranda of Understanding, and participation in events;
 - could support a coordinated, regional approach to conservation and sustainable management through e.g. the expansion of efforts to coordinate BBNJ issues by empowering regional seas programmes to consider areas beyond national jurisdiction (ABNJ).

Possible Options to Strengthen Regional Ocean Governance in the Regions



- States in the regions could:
 - implement a common approach or policy for the region on conservation priorities by championing flag State responsibility to impose regulations regarding areas or activities that are not currently covered by a competent management authority;
 - form coalitions to promote mutual interest in specific BBNJ-related issues within existing processes;
 - promote conservation and sustainable use of BBNJ by voicing their views and proposing management actions at global and regional fora;
 - support a robust scientific basis and the development of capacity for taking action to ensure the establishment of conservation and management measures and ensure the complementarity of sectoral measures.

Possible Options to Strengthen Regional Ocean Governance in the Regions



- States may also consider the negotiation of a BBNJ agreement as an opportunity to give coherence to a fragmented governance regime, provide additional support to enhance intersectoral cooperation and allow for the establishment or strengthening regional integration mechanisms;
- The negotiation of a new agreement therefore offers a way to support and achieve many of the above-mentioned options for strengthening regional governance of the oceans.

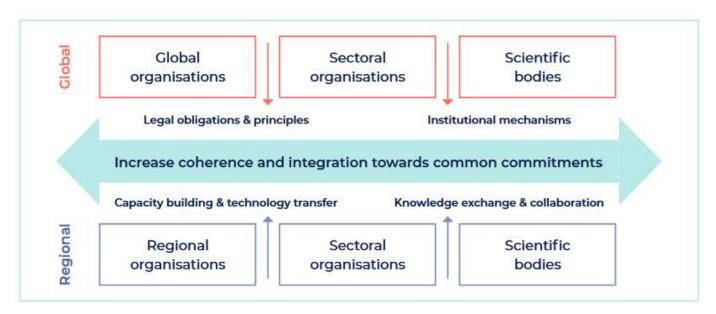
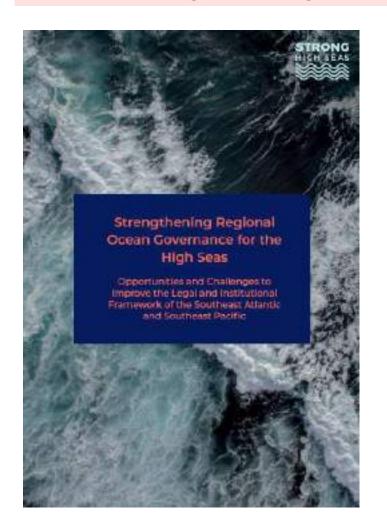


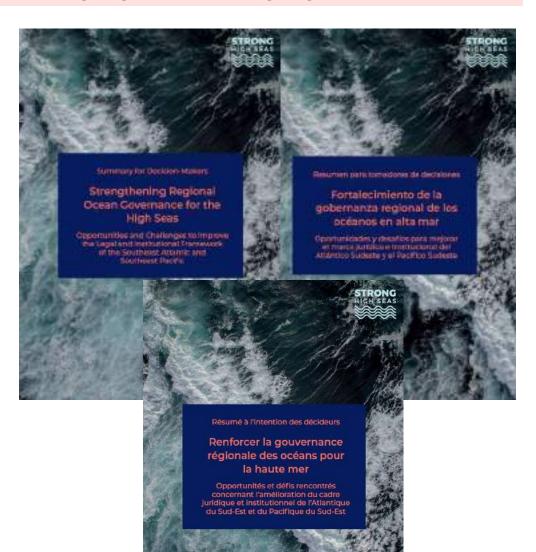
Figura: Un nuevo acuerdo deberá aumentar la coherencia y la integración entre las instituciones regionales y globales, tanto verticalmente como horizontalmente, para mejorar la conservación y el uso sostenible de la BBNJ (Gjerde et al. 2018)





https://www.prog-ocean.org/our-work/strong-high-seas/strong-high-seas-resources/





Thank you!



Federal Ministry
for the Environment, Nature Conservation
and Nuclear Safety

based on a decision of the German Bundestag





Dr. Carole Durussel

Co-Lead, STRONG High Seas

Email: carole.durussel@iass-potsdam.de

Institute for Advanced Sustainability Studies e.V.

Berliner Strasse 130

D - 14467 Potsdam

Web: www.iass-potsdam.de & www.prog-ocean.org/













































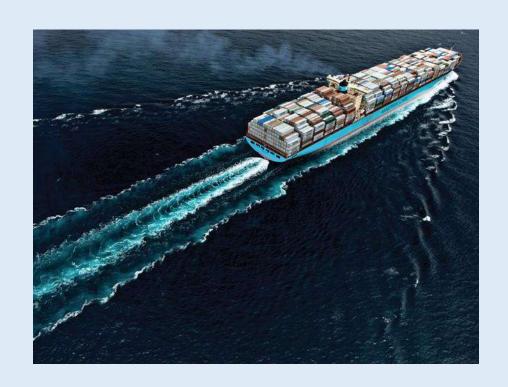
- MCS expert workshop I (technological tools) Paris, July 2018
- MCS expert workshop II (policy options) Paris, April 2019
- Regional MCS workshop CPPS November 2019
- Regional MCS workshop Abidjan 2020



Contents



- 1. What is MCS and why is it important?
- 2. An overview of MCS tools
- 3. Best MCS practices
- 4. MCS challenges
- 5. How to strengthen MCS?
- 6. Conclusion
- 7. Questions





- a) Monitoring the continuous requirement for the measurement of fishing effort characteristics and resource yields;
- **b)** Control the regulatory conditions under which the exploitation of the resource may be conducted;
- c) Surveillance the degree and types of observations required to maintain compliance with the regulatory controls imposed on fishing activities.

Source: FAO, 1981

















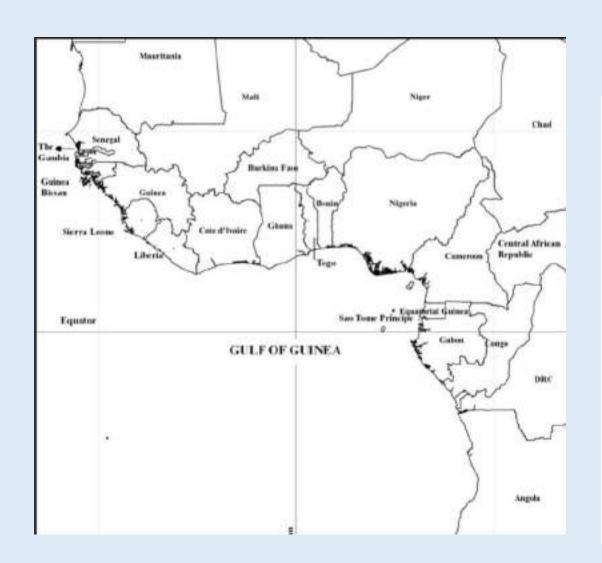
West Africa (Belhabib et al, 2019; Doumboya et al, 2017)

➤ Governance issues and high monitoring costs

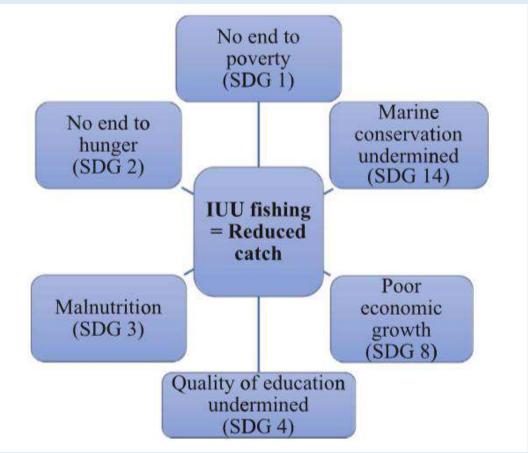
➤ Illegal fishing is responsible for a loss of US\$2.3 billion a year, of which only US\$13.8 million a year is recovered through MCS

>Strengthening of the legal system higher fines + increased resources for MCS reducing incentives for IUU fishing + higher chance to catch offenders





West Africa (Okafor-Yarwood, 2019)







What factors need to be taken into account when choosing MCS tools?

- Purpose
- Costs
- Access
- Reliability
- Coverage

- Cross-checking data
- Ease of manipulation
- Privacy considerations
- Capacity to analyse data
- Different actors/stakeholders





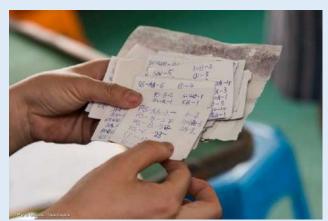


Traditional MCS tools:

- Inspectors at sea
- Logbooks
- Naval and aerial surveillance at sea

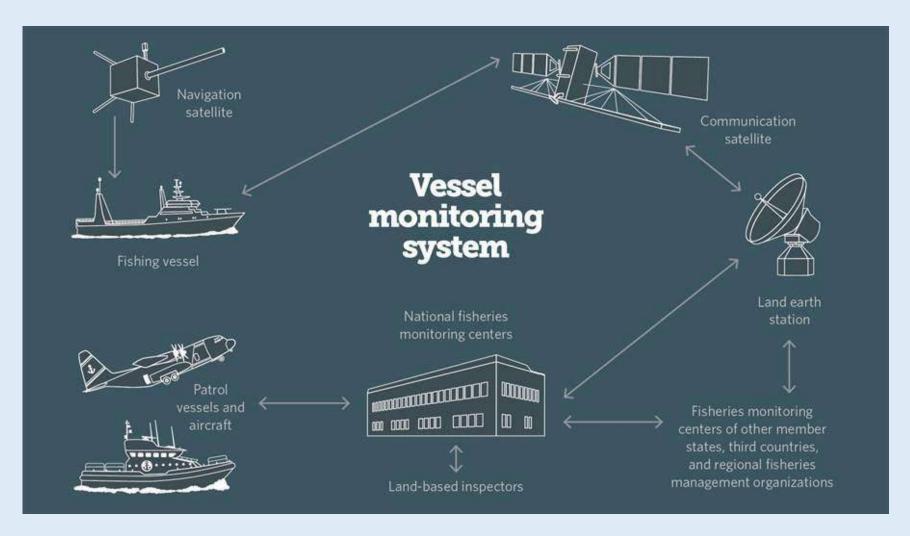






Automatic Identification Systems (AIS) Vessel Monitoring System (VMS)





Source: Pew Charitable Trusts, 2016

Synthetic Aperture Radar (SAR)

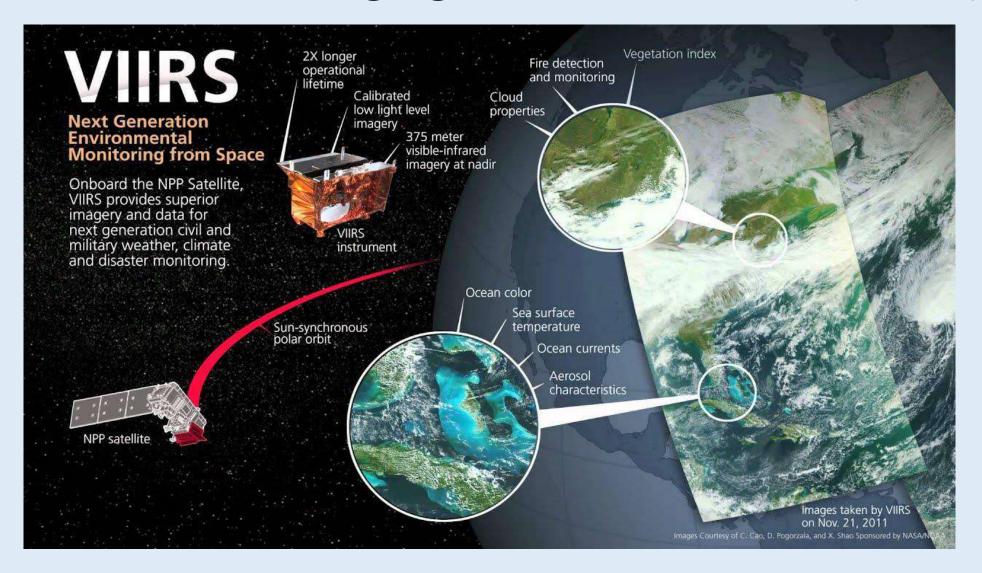




Source: Schwegmann et al, 2016

Visible Infrared Imaging Radiometer Suite (VIIRS)

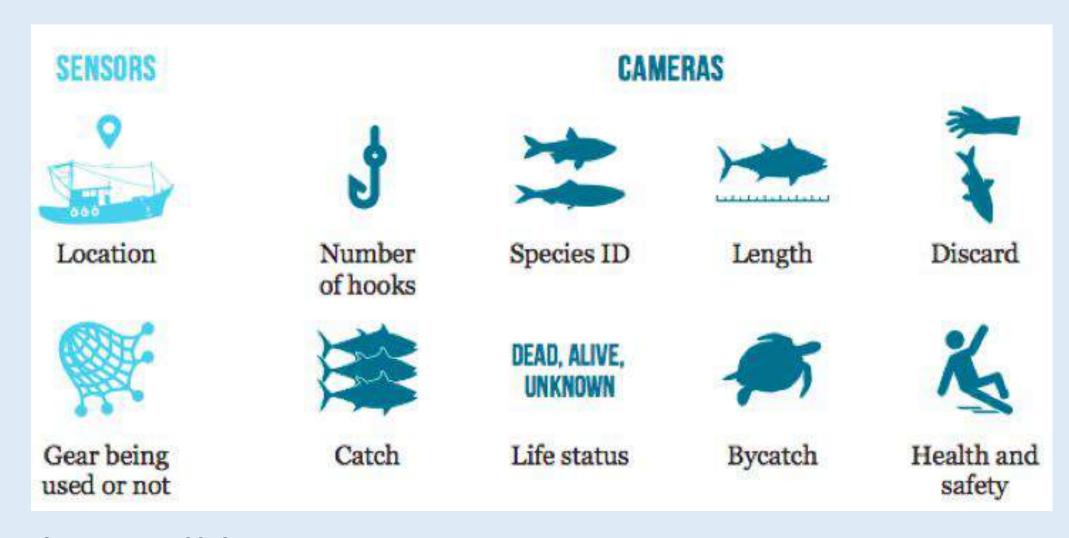




Source: National Snow & Ice Data Center

E-monitoring



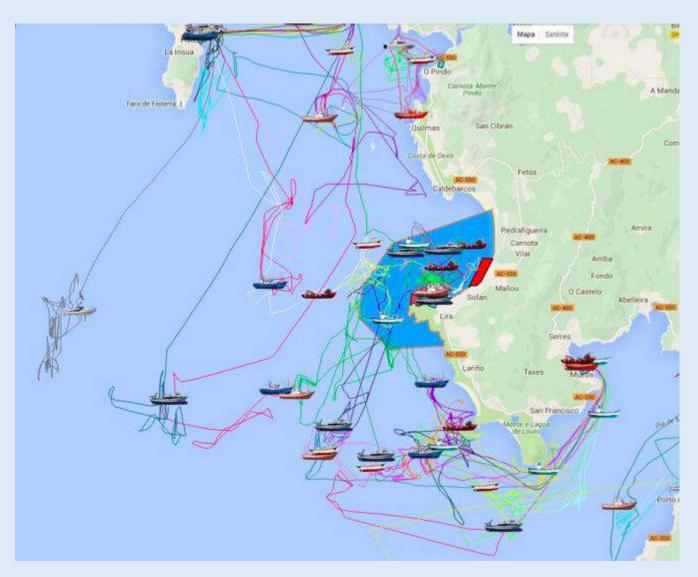


Source: WWF, 2018

E-reporting

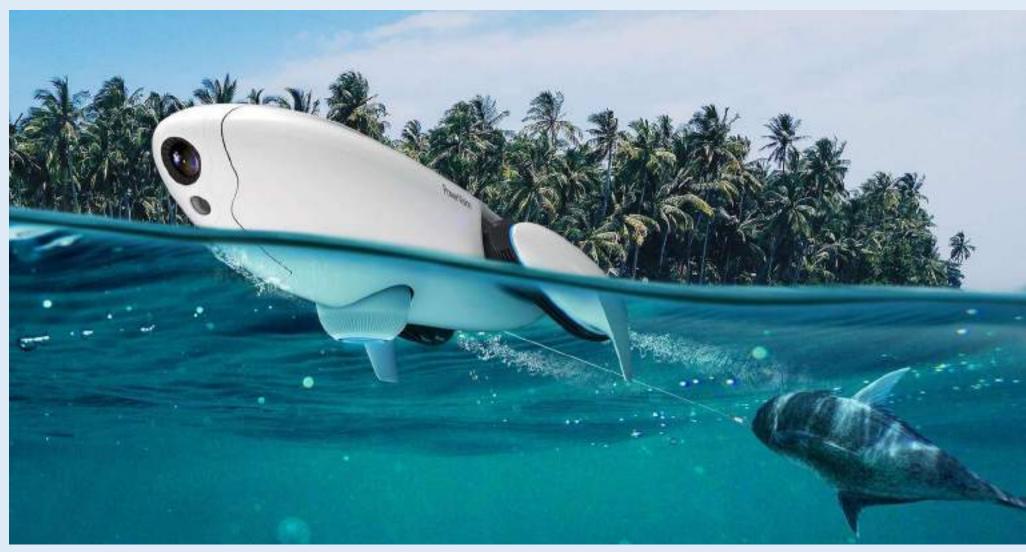






Drones









- 1) RFMOs
- 2) International MCS platforms and networks (e.g. IMCS network, Southern African Development Community MCS Center)
- 3) Transnational partnerships (e.g. Global Fishing Watch, FISH-I Africa Task Force)

RFMOs





RFMO	Lists of authorised vessels	Catch reportin g/CDS	VMS	Inspections at sea	Observer programmes for fishing	Tranship- ment monitoring	Inspections in ports	Designation of landing ports
CCSBT	~	✓	✓		*	✓	✓	✓
GFCM	~	#	✓	√* *		~	✓	~
IATTC	~	✓2	✓		*	✓		
ICCAT	~	√3	✓	✓	✓	~	✓	✓
IOTC	~	✓4	✓		*	~	✓	~
NAFO	✓1	#	✓	✓	✓	✓	✓	✓
NEAFC	√ 1	#	✓	✓		1	✓	~
NPFC	~		✓	***	✓	~		
SEAFO	1	#	V	✓	✓	✓	✓	~
SIOFA	✓	#	✓	***	*	~	✓	~
SPRFMO	~	#	✓	~		~	✓	1
WCPFC	~	#	✓	✓	✓	✓	~	
CCAMLR	✓	~	✓	✓	✓	✓	✓	

Note: * Observer programme limited to scientific purpose; ** spatially limited; *** measure implementation in progress (proposal or implementation plan available); # limited to standards on catch reporting. 1. List of authorised vessels not publicly available; 2. limited to bigeye statistical documentation programme with some elements of CDS (Res. C-03-01); 3. limited to Atlantic bluefin tuna, for bigeye tuna and swordfish, there are statistical document programmes in place (ICCAT, 2016[7]); 4. limited to statistical document programme for bigeye tuna with some elements of a CDS (communication with the IOTC Secretariat).

Source: Based on the review of relevant documents and communication with relevant RFMOs.

Source: Hutniczak, B., C. Delpeuch and A. Leroy (2019-02-14), "Intensifying the Fight Against IUU Fishing at the Regional Level", OECD Food, Agriculture and Fisheries Papers, No. 121, OECD Publishing, Paris. http://dx.doi.org/10.1787/b7b9f17d-en

International MCS platforms and networks







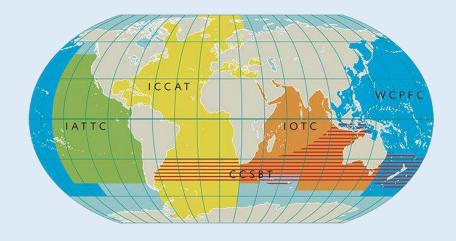
Transnational partnerships



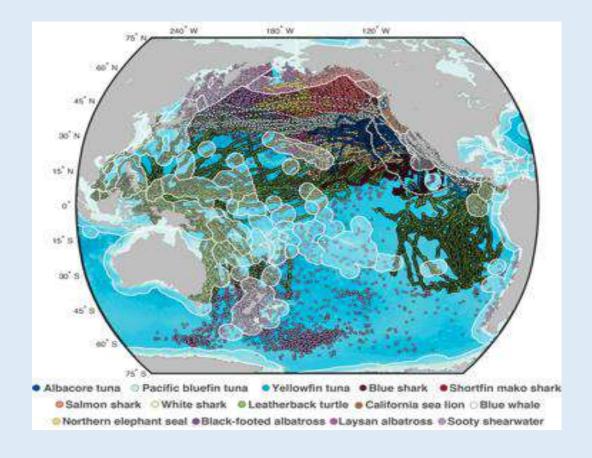


4. MCS Challenges

- 1) A patchwork of MCS rules
- 2) Lack of capacity
- 3) Governance gaps











- 1) Technological tools
- 2) Policy options
- 3) Market measures









Treaty on ABNJ

- No global MCS system, but MCS as cross-cutting issue in negotiations
- Two-way relationship between MCS and the agreement
- Package deal components
- Incorporate guiding principles
 - Cooperation and coordination
 - Transparency
 - Reporting





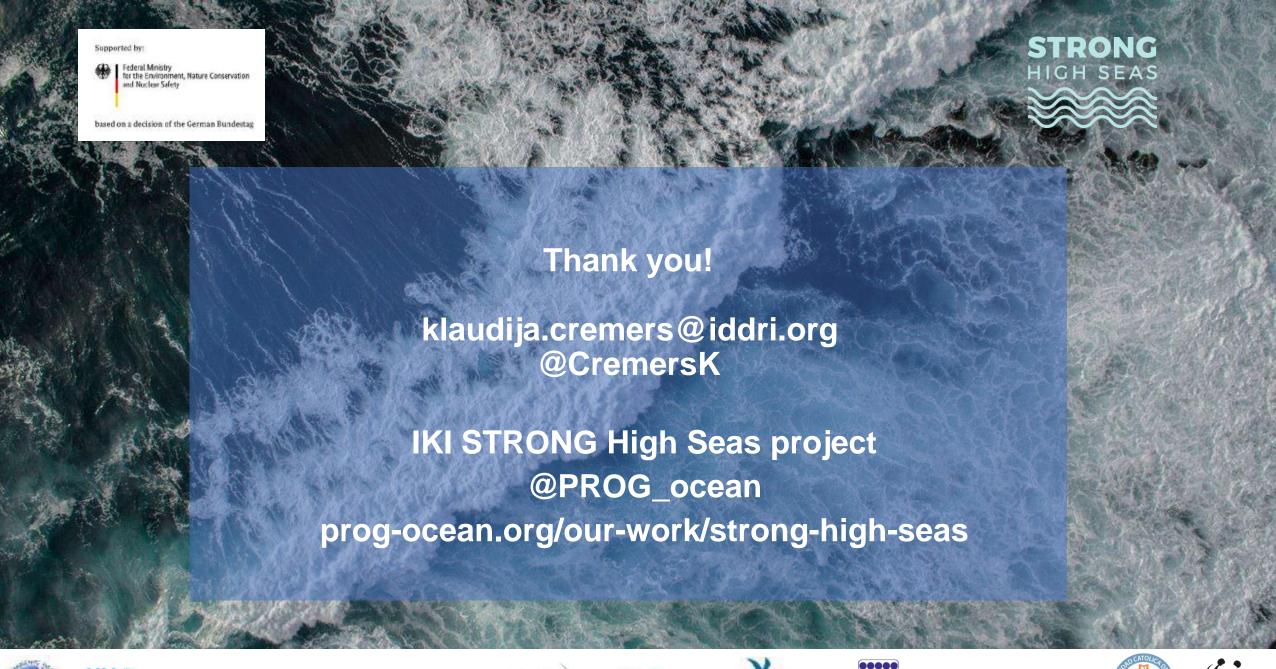


- ➤ Many MCS tools available, but problem of implementation gaps and lack of capacity
- ➤ No one-size-fits-all approach to MCS
- ➤ Cooperation and coordination is key:
 - ➤ Chair of the FISH-i Africa Task Force: "the cheapest tool in fighting IUU fishing is the sharing of information and intelligence through cooperation among all MCS practitioners"
- Future high seas treaty: global vs regional MCS standards



7. Questions

- What are your experiences with MCS in your country/region?
- Could you share some examples of MCS challenges or best practices in your country/region?
- How do you think MCS could be strengthened in your country/region?
- Are you or someone in your area working on something related to MCS?

























Some general reflections

- Recognition of the importance of conservation and sustainable use of marine biodiversity in ABNJ.
- Engagement in further debates and negotiations at the national, regional and global level is important for ABNJ. Call to action – Africa Position Paper?
- The projects are initiating some research (and addressing early capacity issues) in both regions, however attention should be paid to establishing strong connections to policy platforms, and ensuring a robust science to policy process to ABNJ, as well as coastal waters.
- Cross-sectoral collaboration/communication/coordination is needed at both the national, regional and global level.
- A regional (or inter-regional) mechanism or platform for sharing knowledge and data is needed to support collaboration.



Some general reflections

- Area-based management tools, such as MSP, are appropriate for use in ABNJ, and - extension/expansion of the emerging capacity for the implementation from coastal areas.
- Capacity building and the transfer of marine technology are required to ensure the full implementation of BBNJ objectives.
- Activities such as (fishing, shipping, offshore oil and gas, etc.) and MGRs are of particular interest.
- Improved tools and policy support for monitoring, control and surveillance are needed.
- A sustainable blue economy is important to ensure the socioeconomic development as well as into future.
- Ecological connectivity! Biodiversity loss in the high seas threatens coastal livelihoods and activities in the EEZ.

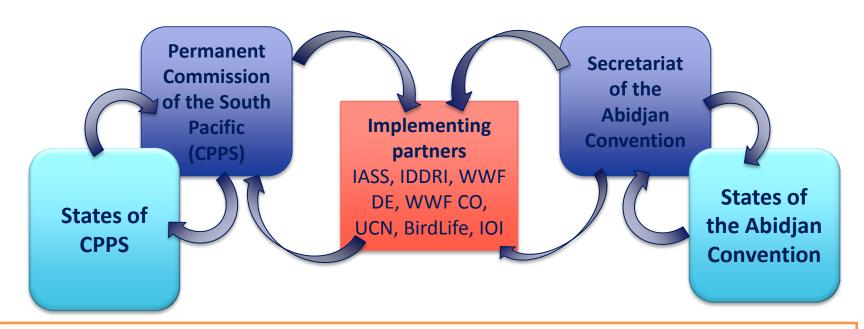


What will STRONG High Seas do?

- Support the joint summary of the Workshop Summary, including ppts and pictures.
- Publication of the ecological baselines report.
- Policy brief to be published in preparation of IGC3 in New York.
- Capacity building event on MGRs at IGC3 in New York.
- Report on technical technological tools and policy needs relevant for the monitoring, control and sureveillance of human activities in ABNJ
- Regional workshop on MCS in 2020
- Report on capacity building needs for the region
- Capacity building workshop to be held later this year
- Development of an initial stakeholder platform, hosted by the Abidjan Secretariat website.
- Begin work on a socioeconomic assessment to be a focus of next regional workshop.



Collaborative approach



Collaboration with the regions

- Identification of topics for in-depth assessment
- Co-design of regional specific scientific assessments (project outputs)
- Data and information exchange
- Review and evaluation of project relevant outputs
- Co-development of joint workshops and trainings
- Ongoing exchange (stakeholder platform)



What can you do?

- Apply for the DOALOS trust fund by 28 June and join STRONG High Seas in New York for IGC3 – Capacity Workshop on 25 August.
- Look for emails from the Abidjan Secretariat (Ms Binta Toure) from the STRONG High Seas project and other information on BBNJ/ABNJ.
- Join STRONG High Seas at the next Dialogue Workshop in 2020

 Date and location TBD.
- Be champions for ABNJ in your national governments or organisations and in the region.
- Engage with the STRONG High Seas team.
- Sign up for the **newsletter**, follow on **social media.**



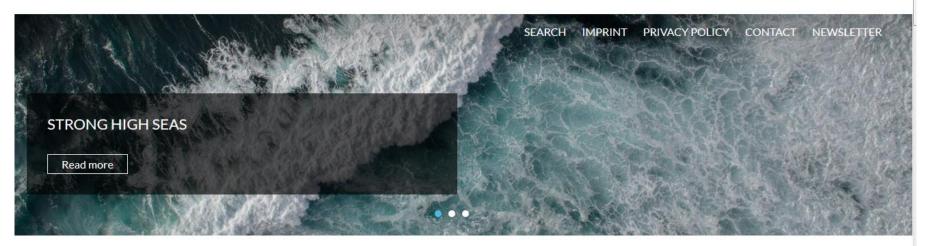


Project website

https://www.prog-ocean.org/our-work/strong-high-seas/



HOME ABOUT OURWORK RESOURCES EVENTS NEWS















https://www.prog-ocean.org/newsletter/



ABOUT OURWORK RESOURCES EVENTS NEWS SEARCH IMPRINT PRIVACY POLICY CONTACT NEWSLETTER **NEWSLETTER NEWSLETTER** Notes on data protection, revocation, Notes on data protection, revocation, performance measurement and logging can be found in our privacy policy performance measurement and logging can be found in our privacy policy Please enter your e-mail address for the registration. Please enter your e-mail address for the Your email address registration. Your email address SIGN UP SIGN UP Share this... f 💆 in LATEST NEWS High-Level Expert Meeting -Building a Strong High Seas Treaty: What is the Role for Regional Ocean Governance? October 2, 2018

STRONG High Seas Biodiversity Beyond National Jurisdiction Capacity Building Workshop September 18, 2018



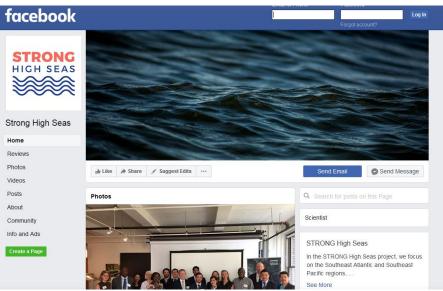
Social media

Twitter & Facebook:

https://twitter.com/prog_ocean

https://www.facebook.com/Strong-High-Seas-1719871564774351





Thank you!



Supported by:







based on a decision of the German Bundestag

Ben Boteler

Co-Lead, STRONG High Seas

Email: ben.boteler@iass-potsdam.de

Institute for Advanced Sustainability Studies e.V.

Berliner Strasse 130

D - 14467 Potsdam

Web: www.iass-potsdam.de & www.prog-ocean.org/























ABNJ Deep Seas Project Next Steps

Sustainable fisheries management and biodiversity conservation of deep-sea living marine resources and ecosystems in the Areas Beyond National Jurisdiction

Dr. Nina Bhola Senior Programme Officer UN Environment World Conservation Monitoring Centre





Outputs

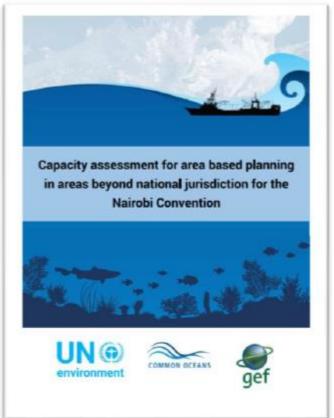
- Synthesis report
 - Key messages
- Methodology for crosssectoral planning in ABNJ
 - Interactive sessions to test
 - Wider review

Online summary report





Capacity Assessment updated



Internal Attributes

Structure & Procedures
Organisational Capacity
Goals

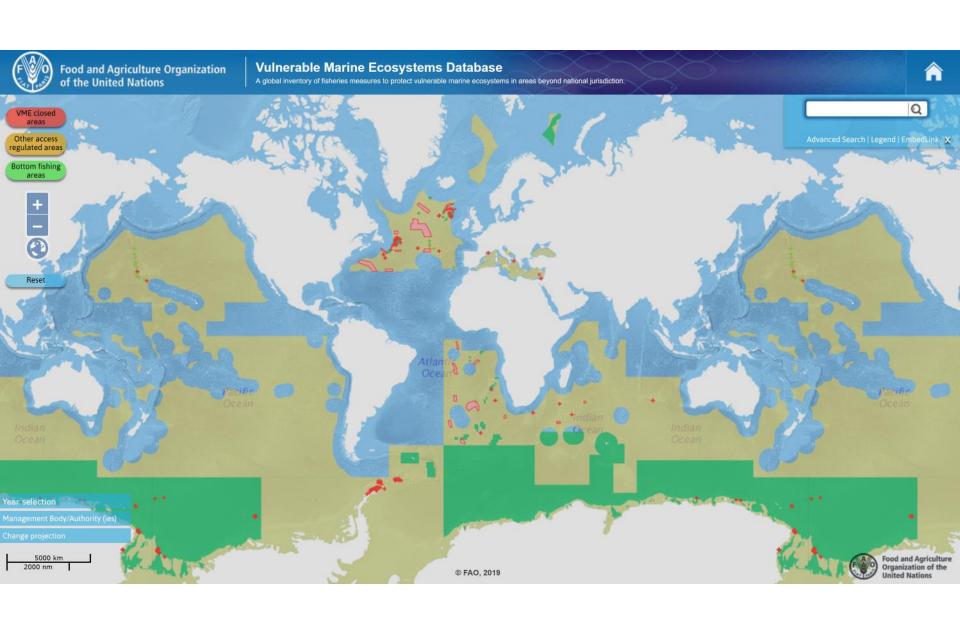
Resources

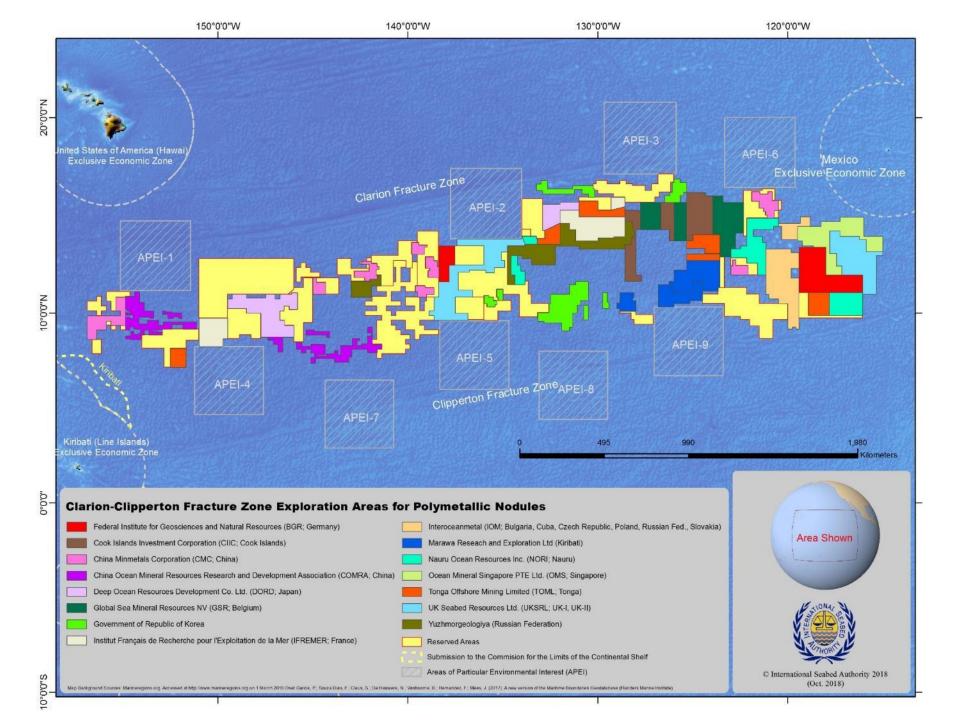
Data & Information Finance Tools/Technology

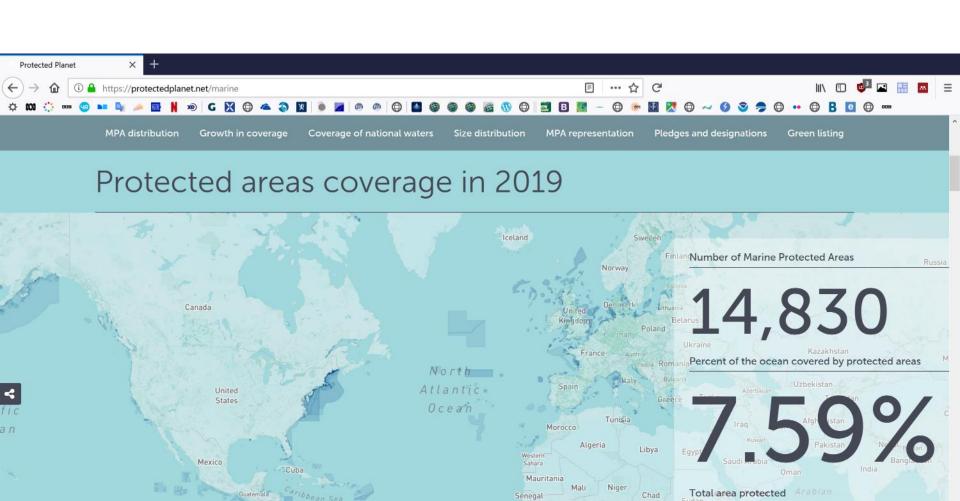
Enabling Environment

Authority
External Relationships
Legal & Policy Framework









The designations employed and the presentation of material on this map do not imply the expression of any opinion whatsoever on the part of the Secretariat of the United Nations concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries.

La Download the marine dataset

Venezuela

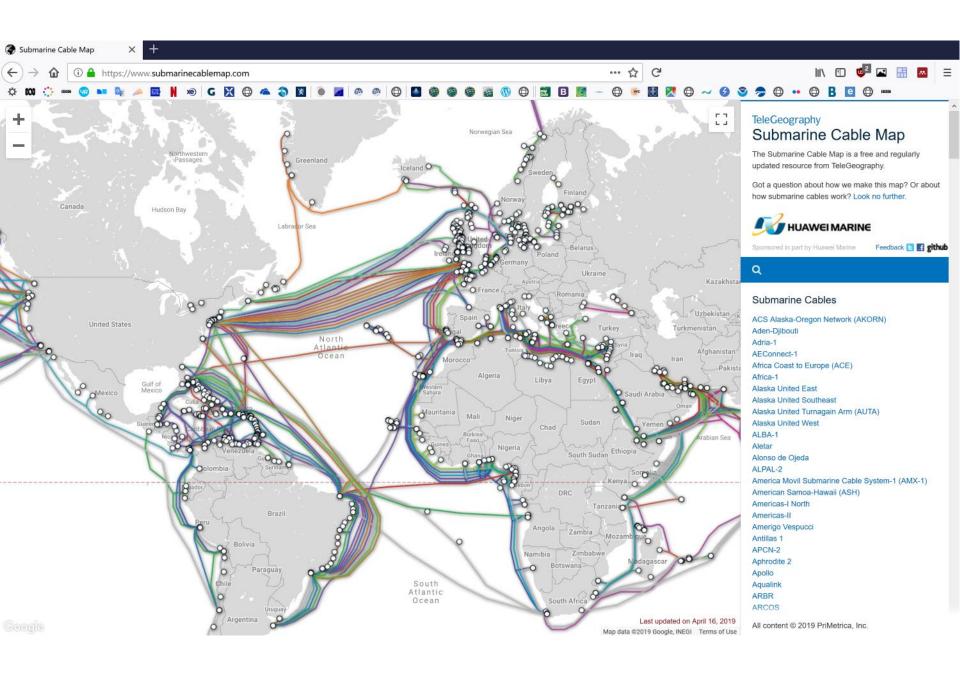
Colombia

Burkina Faso

Republic

,495,595km²

@ Mapbox @ OpenStreetMap Improve this map, @ Mapbox @ OpenStreetMap Improve this map



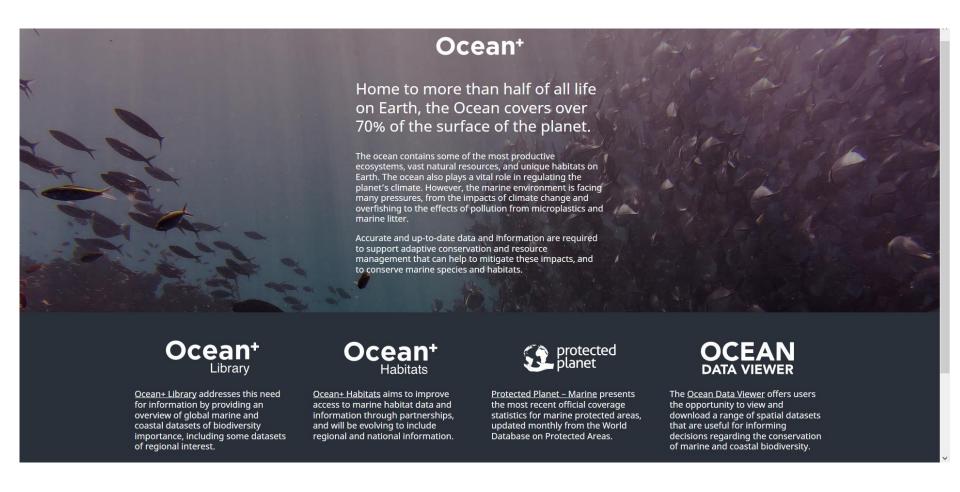
ABNJ Deep Seas Project Information Sharing Platform (*Prototype*)



Aim: to create a **prototype** of a user-friendly web platform that brings together information from **across all sectors** active in ABNJ



Ocean + libarary





Deep Seas project: partners

Funding:

US\$ 8 million from GEF for 5 years



Co-funding estimate US\$ 79 million

Executing Agencies





Partners



Convention on Biological Diversit Secretariat of the Convention on Biological Diversity (CBD)



Commission for the Conservation of Antarctic Marine Living Resources (CCAMLR)



Permanent Commission for the South Pacific (CPPS)



Duke University



General Fisheries Commission for the Mediterranean (GFCM)



Global Oceans Biodiversity Initiative (GOBI)



GRID-Arendal



International Coalition of Fisheries Associations (ICFA)



International Union for Conservation of Nature (IUCN)



Northwest Atlantic Fisheries Organization (NAFO)



Nairobi Convention



North East Atlantic Fisheries Commission (NEAFC)



National Oceanic and Atmospheric Administration (NOAA)





South East Atlantic Fisheries Organisation (SEAFO)



Sealord Group



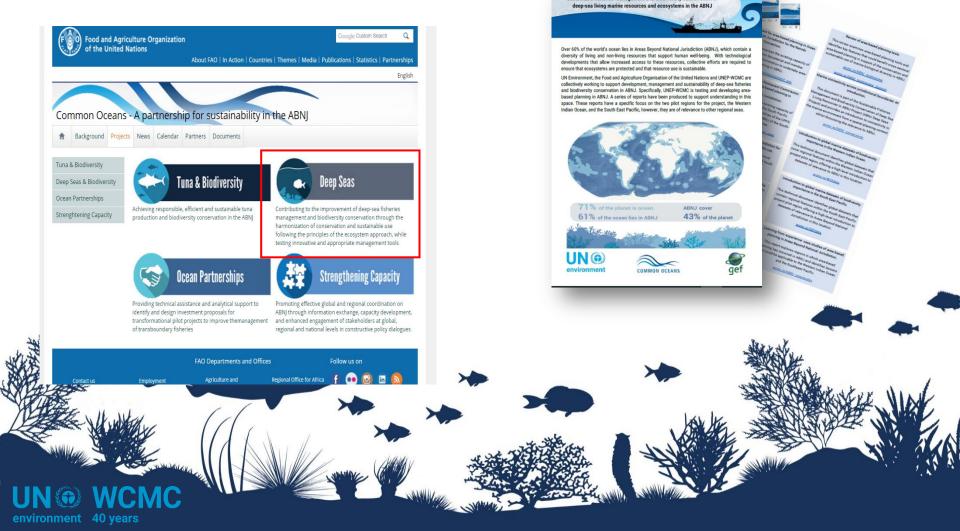
Southern Indian Ocean Deepwater Fishers Association (SIODFA)



South Pacific Regional Fisheries Management Organisation (SPRFMO)

All outputs available online

www.commonoceans.org



Sustainable fisheries management and biodiversity conservation of

Possible Next Phase under GEF 7 (Draft)

Immediate programme Outcomes and key elements (enabling environment)

Outcome 1 – Frameworks and processes for more effective governance and management in ABNJ (including fisheries management) strengthened

- Policy and legal frameworks to support sustainable use of ABNJ resources
- Government and institutional mandates, roles and responsibilities related to governance of ABNJ
- Fisheries management processes to enhance responsiveness to uncertainty strengthened
- 4. Incentives and and deterrents to promote compliant behaviour

Outcome 2 - Capacity for better implementation of ecosystem based management in fisheries management in the ABNJ strengthened

- Capacity to apply EAM to ABNJ
- Capacity to develop and enforce governance regimes related to ABNJ resources (e.g. addressing IUU fishing)
- Data collection, compliance monitoring and reporting to support science-based decision making and implementation
- 4. Management solutions for sustainable use of ABNJ resources

Outcome 3 – Participation in multi-sectoral coordination for more effective governance and management of ABNJ improved

- Mechanisms, tools and resources to improve coordination between sectors and stakeholders with interests in ABNJ
- Awareness and understanding of the role of all sectors in the sustainable use of ABNJ

Outcome 4 – Knowledge and information exchange for more informed decision-making among stakeholders to support sustainable utilization of ABNJ improved

- 1. Technical/scientific information on ABNJ issues
- Information exchange mechanisms to support decision-making and awareness-raising
- Information on ABNJ issues available to inform choices of decision-makers and civil society

Medium-term Outcomes (changes in systems and behaviour)



Widespread adoption of best practices for sustainable management of ABNJ resources

including consideration of impacts on the ecosystem and adaptation to climate change

Comprehensive, wellinformed BBNJ process

underway with coordinating mechanisms among sectoral users (including links to LMEs and RSOs) to achieve ecosystem goals in the ABNJ

Increased market and political pressure for sustainably sourced ABNJ products with greater transparency and traceability, reducing presence of IUU products

Increased public and private sector support and investment for sustainable management of ABNJ

in the markets

Effective and sustainable cross-sectoral **governance** of natural resources in ABNJ

Adaptive, coordinated, sustainable management of ABNJ resources following Ecosystem Approach



Sustainable/optimal use of ABNJ resources and strengthened biodiversity conservation in face of a changing environment

Intermediate states (improved environmental + social conditions)

Environmental (GEB)

Reduced/minimized negative impacts on biodiversity and ecosystem services in ABNJ (e.g. reduced bycatch)

Improved conservation status of key ABNJ species/ habitats

Socio-economic

Improved livelihoods, food security for communities dependent on ABNJ resources

Improved working conditions and gender opportunities in ABNJ Reduced vulnerability/improved resilience of communities reliant on ABNJ resources to CC impacts

Equitable and managed access and benefit sharing of ABNJ resources including marine genetic resources



Long-term impacts

Healthy ecosystem structure, function and processes in ABNJ improved and maintained

Sustainable supply of ecosystem goods and services from ABNJ with long-term socio-economic benefits (both use and non-use values) to human populations (link with Blue Growth?)



- UNEP-WCMC:
 - Nina.Bhola@unep-wcmc.org
 - Rachael.Scrimgeour@unep-wcmc.org

