Regional MSPforum - Latin America and the Caribbean





Cartagena Convention:

Supporting Integrated Environmental Assessments and the use of Marine Spatial Planning in the Wider Caribbean Region

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What is the Cartagena Convention?

Framework for regional cooperation for the protection and development of the Wider Caribbean Region

Kear

degradation of the

world's oceans and

coastal areas



development of the

marine and coastal

resources in the Wider

Caribbean Region



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1972 Leading

global

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authority

Presentation Outline







State of Marine Pollution (SOCAR 2000)





All indicators except oxygen and pH showed a high proportion of sites

Pollution from most indicators is higher in wet season



Faecal contamination of coastal waters with Enterococcus and E.coli is

in every country assessed

Hotspots were identified mostly in localized areas such as river mouths and sewer outfalls



Wastewater continues to pose a serious threat to the marine environment



of domestic generated in 2015

of it was released in the environment without treatment



State of Marine Pollution/2



PLASTIC WASTE



Plastic waste remains a major problem with an estimated floating plastic concentration **among the highest** in the world.

Multiple **single-use plastic bans** although solid waste management remains a challenge. MILLION TONS of plastic discharged in Caribbean waters in 2015



Most Caribbean islands showed high concentrations of mercury in human hair samples

Mercury emitted by industrial activities, energy production and gold mining **bioaccumulates** in **fish** consumed like mahi-mahi, tuna and kingfish

MERCURY





State of Marine Habitats (SOMH 2021)

The interlinked coral reef-mangrove-seagrass complex is one of the most biologically diverse and productive systems in the world

Coral reef, mangrove and seagrass habitats are significantly degraded and declining after decades of cumulative stresses

Marine habitats provide critical ecosystem services such as acting as nurseries for fisheries, protecting coasts from storms, preventing beach erosion and flooding, filtering water and trapping sediments, and acting as carbon sinks







Root Causes



Inadequate Management Systems

Lack of integration of pollution control into development planning

Life Cycle approach including control of pollution at source

Circular Economy opportunities – Waste as a Resource



Lack of Data & Information

Interaction between Environmental, Social & Economic data.

Lack of Business/Investment Models for Restoration and/or Pollution control

Implications of Environmental Policy decisions & land use on marine Regional MSPforum – Latin America and the Caribbean biodiversity

Enabling Environment

Policy, Legislation & Enforcement

Awareness, Attitudes & Behavior

Political Priorities



Why do we need to address pollution?

There is no Green without Blue!

Caribbean SIDS economies are the most tourism-dependent. Tourism is the largest economic activity, accounting for an average of 45 percent of the region's GDP.



We cannot benefit from a **Blue Economy** if we continue to pollute.



msp

roadmap

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Impacts: Economic Prospects at risk



Increasing marine pollution and habitat degradation threatens the livelihoods and safety of many human communities, and existing and future prospects of ocean-based economies



communities.

Aquaculture MILLION TONS

of fish could be produced using only limited areas in the Wider Caribbean.

A Blue Economy is heavily dependent on a clean environment and healthy and productive coastal and marine ecosystems.







What is missing which MSP must consider?



Quantification of Economic Impacts Science-Policy Divide Lack of Decision-Support tools

Integrated Ecosystem-Based Management Approaches Nature-Based Solutions

Private Sector Engagement Partnerships to address Transboundary Stressors





<u>Responses:</u> Ecosystem-Based Management, Marine Spatial Planning & Integrated Ecosystem Assessment all work together



Maximise the use of resources, prevent waste generation

Recycling, upcycling, more sustainable primary materials, energy generation from waste



Nature-Based Solutions

Use ecosystems natural abilities for human purposes

Constructed wetlands for wastewater treatment, green infrastructure for rainwater control



Water "RRR" Management

Reduce, Reuse, Recycle for sustainable water management

Treated wastewater reuse in irrigation, industrial cooling, non-drinking purposes



Sustainable Agriculture

Improve input efficiency, reduce run-off and pollution

Seasonal fertilizer use, drip irrigation, cover crops, sustainable land management



Finance for Sustainability

Financial mechanisms to target and value natural assets and environmental benefits

Payment for Environmental Services (PES), environment valuation, natural capital, debt-for-nature swap

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What can Governments do to enhance use of MSP?



Ratify and/or implement the Cartagena Convention. its Protocols, and other regional and global agreements on coastal and marine ecosystems and pollution.

Expand cooperation including for the implementation of existing Regional Strategies and Action Plans on Nutrient Pollution Reduction, Marine Litter Management and the Valuation, Protection and/or Restoration of Marine Habitats & related international agreements.

Use harmonized monitoring and data collection methodologies to support efforts to analyse and report on the status of marine resources, threats, impacts and effectiveness of response measures





What else can Governments do to support MSP?

Engage in future regional, sub-regional and national assessments that support development of State of Pollution and Environment Reports and the implementation of the Pollution (LBS) and Marine Biodiversity (SPAW) protocols of the Cartagena Convention which promote use of MSP

Strengthen national institutional frameworks, including via policy harmonisation, to guide strategic, data-driven, long-term, and coordinated ecosystem-based management of marine and coastal resources using MSP and other management tools

Invest in and scale up best management practices and technologies to protect marine habitats and to prevent, reduce, and control pollution using MSP as a planning tool



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Thank you! ¡Gracias! Merci!

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