



Belize Sustainable Ocean Plan

Report of Proceedings
from the:

Multi-Stakeholder MSP
Workshop 1: Assessments
for Planning
May 8-10, 2024
Belize City, Belize

Report Date: November 31, 2024
Report Revised: April 03, 2025



Belize Fund For A
Sustainable Future



Letter from the Chief Executive Officer

On behalf of the Coastal Zone Management Authority and Institute (CZMAI), I extend my heartfelt gratitude to everyone who contributed to the success of our recent workshop. This event marked a significant milestone in advancing the development of the Belize Sustainable Ocean Plan (BSOP), coming at a crucial juncture as we intensify efforts to promote sustainable ocean management and the integration of our blue economy goals.

I want to specially thank the members of the BSOP Core Team who dedicated their time and expertise to serving on the workshop organizing committee. Your leadership and vision were instrumental in shaping the workshop's agenda and ensuring its alignment with our overarching goals.

A sincere appreciation is also extended to the workshop session leads and presenters, who shared valuable insights and expertise that enriched our discussions. Your contributions were critical in fostering meaningful dialogue and advancing our shared objectives.

To the support staff who managed logistics, registration, facilitated breakout groups, and meticulously recorded notes—your hard work behind the scenes ensured the seamless execution of the workshop. Your commitment and attention to detail did not go unnoticed.

Finally, to the participants, thank you for your active engagement, thoughtful contributions, and collaborative spirit. Your presence and input were vital in making this workshop a resounding success and in furthering our collective efforts toward sustainable ocean management.

This workshop exemplifies the strength of collaboration and shared purpose, and I am confident that the outcomes will significantly inform our ongoing work. Thank you once again for your invaluable support and contributions.

With sincere appreciation,

A handwritten signature in blue ink, appearing to read 'Samuels', with a stylized flourish.

Chantalle Samuels
Chief Executive Officer
Coastal Zone Management Authority & Institute

List of Acronyms

CZMAI	Coastal Zone Management Authority and Institute
TNC	The Nature Conservancy
BBFPU	Blue Bond and Finance Permanence Unit
MBEDRM	Ministry of Blue Economy and Disaster Risk Management
BEU	Blue Economy Unit
BFiD	Belize Fisheries Department
WWF	World Wildlife Fund
WCS	Wildlife Conservation Society
DOE	Department of the Environment
BTIA	Belize Tourism Industry Association
MSP	Marine Spatial Planning
BSOP	Belize Sustainable Ocean Plan
PCCA	People-Centric Conservation Agenda
CT	Core Team
SC	Steering Committee
TWGs	Technical Working Groups
UB	University of Belize
SACD	Sarteneja Alliance for Conservation and Development
SI	Statutory Institute
NICH	National Institute of Culture & History
BPZs	Biodiversity Protection Zones
HBPZs	High Biodiversity Protection Zones
TRIGOH	Trinational Alliance for the Conservation of the Gulf of Honduras
AHP	Analytical Hierarchy Process
MCDA	Multi-Criteria Decision Analysis

NPAS National Protected Areas Systems

MPA Marine Protected Areas

**Report on the
Belize Sustainable Ocean Plan (BSOP)
Multi-Stakeholder MSP Workshop 1: Assessments for Planning
May 8th-10th, 2024
Best Western Plus Belize Biltmore Plaza, River Hall
Belize City, Belize**

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Workshop Organizing Committee

The success of the workshop was made possible through the dedication and active participation of several individuals who played integral roles in its development and execution. We extend our sincere appreciation to all those who contributed their expertise, time, and efforts to ensure the event's success. Their commitment and collaboration were instrumental in achieving the workshop's objectives, and we are truly grateful for their invaluable support.

Responsibility	Name	Organization	Position
<i>Pre-workshop</i>			
Alignment of workshop purpose, desired outcomes/ outputs, agenda, pre-work, and roles	BSOP Core Team Members		
	Chantalle Samuels	CZMAI	Chief Executive Officer
	Arlene Young	CZMAI	Director
	Samir Rosado	CZMAI	MSP Process Lead
	Janel McNab	CZMAI	MSP Coordinator
	Chad Bowman	CZMAI	MSP Science Lead
	Delwin Guevara	CZMAI	GIS Mapping & Spatial Analyst
	Shari Banner-Gentle	CZMAI	MSP Communications & Public Relations Officer
	Jamani Balderamos	TNC-Belize	MSP Specialist
	Nidia Chacon	TNC-Belize	Stakeholder Engagement Specialist
	Wendy Casasola	TNC-Belize	Conservation Program Coordinator
	James Foley	TNC-Belize	Oceans Manager Belize Program
	Chantal Collier	TNC-Global	Senior Associate, Ocean Planning and Mapping
	Kate Longley-Wood	TNC-Global	Marine Spatial Planning Science Manager
	Andria Grinage	MBEDRM-BEU	Senior Blue Economy Officer
	Felicia Cruz	MBEDRM-BEU	Director
	Beverly Wade	BBFPU	Director
	Safira Vasquez	BBFPU	Senior Technical Officer
	Belizario Carballo	BBFPU	Technical Officer
	Adriel Castaneda	BFiD	Senior Fisheries Officer
Alicia Eck-Nunez	BFiD	Fisheries Officer Coordinator Ecosystem-based Management Unit	
Juliet Neal	WWF	Conservation Finance & Policy Officer	
Workshop participant list, invitations, and RSVPs	Nidia Chacon	TNC-Belize	Stakeholder Engagement Specialist
	Wendy Casasola	TNC-Belize	Conservation Program Coordinator
	Janel McNab	CZMAI	MSP Coordinator
Meeting logistics	Jamani Balderamos	TNC-Belize	MSP Specialist

(venue, room setup, A/V, refreshments, lunch)			
Set up shared Box folder for gathering presentation materials and disseminate folder link to all session leads with guidelines for creating slides			
Final Agenda for Facilitators	Chantal Collier	TNC-Global	Senior Associate, Ocean Planning and Mapping
High-level participants agenda			
Create Facilitation Slide Deck for each day			
Create Breakout Group Worksheets	Kat Griswold	TNC-Global	
Integrate session slides into daily Facilitators Slide Deck			
Dataset list vetting	Delwin Guevara	CZMAI	GIS Mapping & Spatial Analyst
	Chad Bowman	CZMAI	MSP Science Lead
Spatial products and software to support topics and activities	Delwin Guevara	CZMAI	GIS Mapping & Spatial Analyst
	Rick Tingey	TNC-Global	
	Kate Longley-Wood	TNC-Global	Marine Spatial Planning Science Manager
Facilitation materials (Name tags, sign in sheets, BSOP swag, BSOP table banner/sign, evaluation form, copies of breakout sessions worksheets, writing utensils and flit charts)	Janel McNab	CZMAI	MSP Coordinator
	Shari Banner-Gentle	CZMAI	MSP Communications & Public Relations Officer
	Nidia Chacon	TNC-Belize	Stakeholder Engagement Specialist
Workshop Management Roles			
Registration Table (Doors open, sign-in, networking)	Janel McNab	CZMAI	MSP Coordinator
	Wendy Casasola	TNC-Belize	Conservation Program Coordinator
Workshop Host/Facilitator	Chantalle Samuels	CZMAI	Chief Executive Officer
Full Group Session Recorder/ Note Takers	Nidia Chacon	TNC-Belize	Stakeholder Engagement Specialist
	Wendy Casasola	TNC-Belize	Conservation Program Coordinator
	Shari Banner-Gentle	CZMAI	MSP Communications & Public Relations Officer
Communications/Media Manager	Andrea Polanco	TNC-Belize	Communications Specialist
	Shari Banner-Gentle	CZMAI	MSP Communications & Public Relations Officer
A/V Tech Support	Johann/Biltmore staff	Belize Biltmore Plaza	
Breakout group facilitators	Samir Rosado	CZMAI	MSP Process Lead
	Chad Bowman	CZMAI	MSP Science Lead
	Delwin Guevara	CZMAI	GIS Mapping & Spatial Analyst

	Alicia Eck-Nunez	BFiD	Fisheries Officer Coordinator Ecosystem-based Management Unit
	Safira Vasquez	BBPFU	Senior Technical Officer
	Belizario Carballo	BBPFU	Technical Officer
	Kat Griswold	TNC-Global	
	Jamani Balderamos	TNC-Belize	MSP Specialist
	Nadia Chacon	TNC-Belize	Stakeholder Engagement Specialist
Day 1: Wednesday, May 8, 2024 – Setting the scene for planning			
Topics	Presenters		
Setting the scene for planning	Safira Vasquez	BBPFU	Senior Technical Officer
Marine Spatial Planning Process Overview	Chantal Collier	TNC-Global	Senior Associate, Ocean Planning and Mapping
Future Condition Scenarios (part I) - Rapid scenario development			
Future Condition Scenarios (part II) - Preparing for the future			
Areas Under Consideration for new Biodiversity Protection Zones	Samir Rosado	CZMAI	MSP Process Lead
Rapid Assessment of Current Conditions/Uses	Jamani Balderamos	TNC-Belize	MSP Specialist
Day 2: Thursday, May 9, 2024 – Foundational planning assessments			
Topics	Presenters		
Compatible & Incompatible Uses	Chad Bowman	CZMAI	MSP Science Lead
Defining criteria for planning (part I)	Chantal Collier	TNC-Global	Senior Associate, Ocean Planning and Mapping
Defining criteria for planning (part II) [Chantal Collier, TNC]			
Developing the zoning plan for an MSP	Kate Longley-Wood	TNC-Global	Marine Spatial Planning Science Manager
Developing a BSOP zoning framework (part I)	Andria Grinage	MBEDRM-BEU	Senior Blue Economy Officer
Developing a BSOP zoning framework (part II)	Alicia Eck-Nunez	BFiD	Fisheries Officer Coordinator Ecosystem-based Management Unit
Day 3: Friday, May 10, 2024 – Ocean Use Survey and Introduction to Marxan			
Topics	Presenters		
Overview of Ocean Use Survey	Delwin Guevara	CZMAI	GIS Mapping & Spatial Analyst
	Chad Bowman	CZMAI	MSP Science Lead
High Level Marxan Overview	Rick Tingey		
	Kate Longley-Wood	TNC-Global	Marine Spatial Planning Science Manager
Post-workshop			
Workshop summary report	Samir Rosado	CZMAI	MSP Process Lead

	Janel McNab	CZMAI	MSP Coordinator
Finalize workshop outputs	Samir Rosado	CZMAI	MSP Process Lead
Produce a list of any additional SeaSketch analytics and Marxan optimizations needed to support BSOP goals, objectives, preferred future scenario	Delwin Guevara	CZMAI	GIS Mapping & Spatial Analyst
	Chad Bowman	CZMAI	MSP Science Lead
Post the workshop summary report and outputs on the BSOP website	Shari Banner-Gentle	CZMAI	MSP Communications & Public Relations Officer
	Janel McNab	CZMAI	MSP Coordinator

Workshop Purpose

The primary purpose of the first Multi-Stakeholder Workshop on Marine Spatial Planning (MSP) was to **(a)** initiate participatory spatial planning activities to achieve Milestones 4 and 6 within the scope and goals of the larger Belize Sustainable Ocean Planning (BSOP) process, and **(b)** define and initiate key assessments to enable spatial planning. These activities were designed to guide the achievement of two critical milestones:

1. *Milestone 4: [By November 4, 2024], the National Assembly shall approve, and the Government shall formally sign into law and Gazette Biodiversity Protection Zones (BPZs) covering a total of 25% of its Ocean.*
2. *Milestone 6: [By November 4, 2026], a) the National Assembly shall approve, and the Government shall formally sign into law and Gazette BPZs Covering a total of 30% of Belize's Ocean, or the percentage stated in the MSP; and b) the MSP shall have been completed and approved by the National Assembly, signed into law, Gazetted, and Implemented.*

Workshop Outputs

Outcomes	Outputs
An understanding of key MSP steps and assessments (Day 1)	
Awareness of areas under consideration for new protections (Day 1)	- Stakeholder comments on the areas under consideration

<p>Current and future scenarios considered, and future scenarios developed (Day 1)</p>	<ul style="list-style-type: none"> - High level list of current conditions - Future condition scenarios matrix - A preferred future scenario
<p>Defined planning criteria and performance measures, based on BSOP goals (Day 2)</p>	<ul style="list-style-type: none"> - Draft table of performance measures (indicators, metrics, scores) - Framing questions for spatial planning analyses
<p>Conflicting and compatible uses identified (Day 2)</p>	<ul style="list-style-type: none"> - Verified list of activities in the BSOP planning area - Draft conflicts & compatibilities matrix
<p>Defined zoning approach (Day 2)</p>	<ul style="list-style-type: none"> - Draft zoning framework/table (zone categories/allowed activities)
<p>Understanding and verifying Ocean Use Survey results (Day 3)</p>	<ul style="list-style-type: none"> - Identification of gaps and/or data anomalies - Next steps for ground-truthing OUS survey data
<p>High-level understanding of how using Marxan can inform and support the BSOP process (Day 3)</p>	

Workshop Agenda

Participants Agenda

Wednesday, May 8, 2024: DAY 1 – Setting the scene for planning

Time	Topic
08:45	Doors open, registration, networking – [Janel McNab, Coastal Zone Management Authority & Institute (CZMAI); Wendy Casasola, The Nature Conservancy (TNC)] <i>Please sign-in and pick up materials. Coffee provided</i>
09:30	Welcome, Introductions, Workshop Overview [Chantalle Samuels, CZMAI]
10:15	Opening Session – Setting the scene for planning [Safira Vasquez, Blue Bond & Finance Permanence Unit, Office of the Prime Minister]
10:45	<i>Coffee/tea break</i>
11:00	Marine Spatial Planning Process Overview [Chantal Collier, TNC]
11:30	Areas Under Consideration for new Biodiversity Protection Zones [Samir Rosado, CZMAI]
12:00	<i>Lunch, provided</i>
1:00	Rapid Assessment of Current Conditions/Uses [Jamani Balderamos, TNC]
2:00	Future Condition Scenarios (part I) - Rapid scenario development [Chantal Collier, TNC]
3:00	<i>Coffee/tea break</i>
3:15	Future Condition Scenarios (part II) - Preparing for the future [Chantal Collier, TNC]
4:45	Close Session: Day 1 [Chantalle Samuels, CZMAI]
5:00	Adjourn Day 1

Thursday, May 9, 2024: DAY 2 – Foundational planning assessments

Time	Topic
09:00	Doors open, sign-in, networking – [Janel McNab, CZMAI & Wendy Casasola, TNC] <i>Coffee provided</i>
09:15	Welcome & recap of day 1 [Chantalle Samuels, CZMAI]
9:30	Compatible & Incompatible Uses [Chad Bowman, CZMAI]
10:45	<i>Coffee/tea break</i>
11:00	Defining criteria for planning (part I) [Chantal Collier, TNC]
12:00	<i>Lunch, provided</i>
1:00	Defining criteria for planning (part II) [Chantal Collier, TNC]
2:00	Developing the zoning plan for a MSP [Kate Longley-Wood, TNC]
2:30	Developing a BSOP zoning framework (part I) [Andria Grinage, Ministry of Blue Economy & Civil Aviation]
3:00	<i>Coffee/tea break</i>
3:15	Developing a BSOP zoning framework (part II) [Alicia Eck-Nunez, Belize Fisheries Department]
4:45	Close Session: Day 2 [Chantalle Samuels, CZMAI]
5:00	Adjourn Day 2

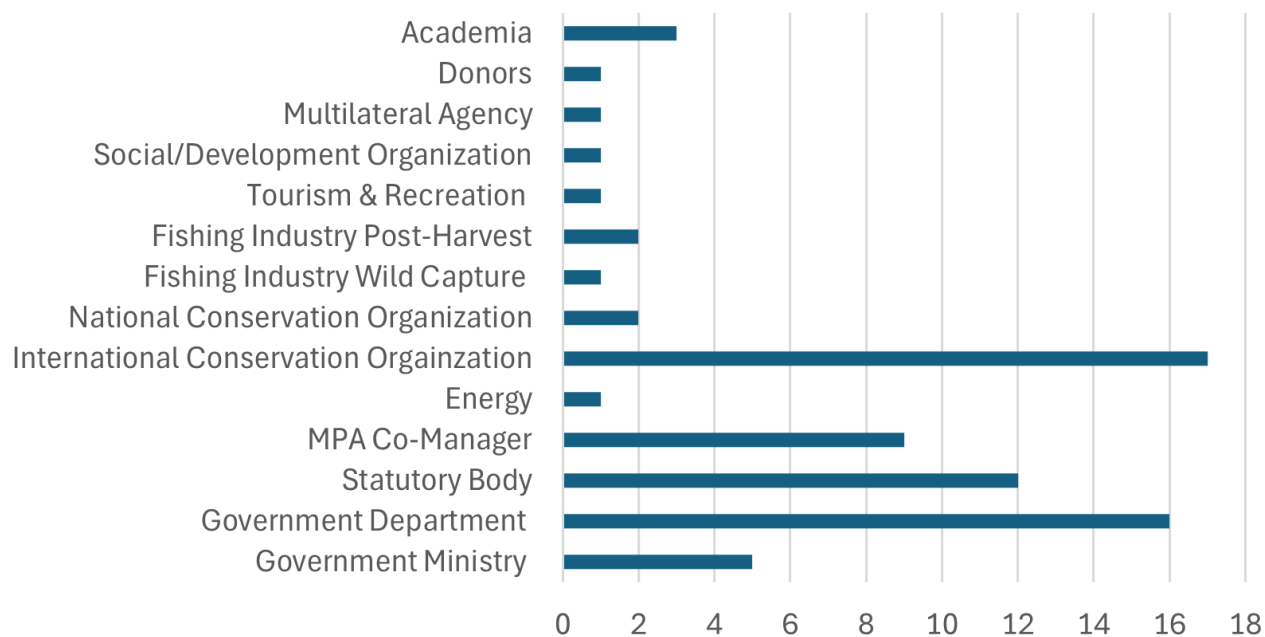
Friday, May 10, 2024: DAY 3 – Ocean Use Survey and Introduction to Marxan

Time	Topic
09:00	Doors open, networking [Janel McNab, CZMAI & Wendy Casasola, TNC] <i>Coffee provided</i>
09:15	Welcome & recap of day 2 [Chantalle Samuels, CZMAI]
9:30	Overview of Ocean Use Survey [Chad Bowman and Delwin Guevara, CZMAI]
10:45	<i>Coffee/tea break</i>
11:00	High Level Marxan Overview [Rick Tingey and Kate Longley-Wood, TNC]
12:30	Closing Workshop [Chantalle Samuels, CZMAI]
12:45	Workshop Adjourns

Attendance

The workshop attendance encompassed partners and stakeholders from the Core Team (CT), Steering Committee (SC), Technical Working Groups (TWGs) with extension to external technical partners. With a total of 72 participants (33 Males; 39 Females).

Type of stakeholders represented at the Multi-Stakeholder MSP Workshop



The workshop attendance log is available in Annex 1.

Summary of Key Discussions

Throughout the 3-day workshop eight (8) breakout sessions were conducted where participants were divided among six (6) groups. Breakout groups seating was random on day 1 and 3, whereas day 2 seating was assigned to ensure multi-agency and multi-sectoral perspectives were included in each group. The number of participants per group ranged from 11 to 12 individuals, inclusive of a group facilitator, a recorder and a group reporter. The length of each session ranged from 10 to 15 minutes or as mentioned in the participants' agenda above.



Image 1: Group session from day 2 featuring stakeholders from the Belize Fisheries Department, Belize High Seas Fisheries Unit, Department of the Environment and Crocodile Coalition, TNC, CZMAI, University of Belize, Sarteneja Alliance for Conservation and Development and Forestry Department.

Day 1

Opening Session- Setting the Scene for Planning, Safira Vasquez, Blue Bond and Finance Permanence Unit: The participants were provided with a comprehensive review of the Conservation Commitments and Milestones, as well as an overview of the Belize Sustainable Ocean Plan (BSOP) and its updated vision, goals and governance framework. The presentation highlighted the critical role of the BSOP Technical Working Groups (TWGs) in advancing these efforts. Additionally, the marine spatial plan Milestones and timelines were outlined to give participants a clear understanding of the work required to achieve the objectives of the BSOP. The presentation also introduced the People-Centric Conservation Agenda (PCCA) and its three key commitments, which support and complement Belize's Blue Bonds delivery. In the question-and-answer segment of the presentation, participants inquired if the commitment for increase of full protection of coral reefs from 7% to 20% under the PCCA will be completed within the delivery timeframe of the BSOP. Participants were informed that while the BSOP process is instrumental in identifying areas for the 20% coral reefs protection, it may not be designated upon the delivery of the BSOP (Milestone 6) but will be delivered within the timeframe of the Resilient Bold Belize (Project Finance for Permanence).

The Marine Spatial Planning process, Chantal Collier, The Nature Conservancy: The presentation provided a high-level overview of key steps, assessments and best practices for Marine Spatial Planning. The importance of understanding the placement of Milestone 4 and 6 within the context of the larger BSOP process was also discussed as crucial for achieving Belize's conservation commitments and objectives. An invitation for comments and feedback followed the presentation, although none were offered from the floor.

Areas Under Consideration for new Biodiversity Protection Zone, Samir Rosado, Coastal Zone Management Authority and Institute: The MSP Process Lead gave a presentation highlighting areas of interest to be considered for new Biodiversity Protection Zones (BPZs). These included Lighthouse Reef Atoll, Central Region/Goff's Caye Area, Placencia Lagoon, Areas consistent with Statutory Institute (S.I) 106 of 2022 (Lighthouse Reef Atoll and Glover's Reef Atoll), and Banco Chinchorro/Bacalar Chico. Additionally, there are plans to redesignate the Cayman Crown area from highly protected to fully protected.

The current ocean space was calculated to be 33,706.00 km² where 6,845.60 km² or 20.3% is currently under protection. Of this 11.65% is under high protection and 8.65% under medium protection. The MSP Process Lead explained that in consideration of the timeframe for the delivery of Milestone 4 only medium protection BPZs would be designated. The Southern Alliance for Community Development (SACD) sought clarification on the distinctions between medium and high protection. Medium protection allows for sustainable extraction in general use zones, while high protection is designated as total no-take replenishment zones.

Participants raised the question about whether the remaining days would allow for the identification of the remaining 2% of areas not yet identified for protection. It was noted that there is flexibility, and these areas will need to go through stakeholder participation. Plans to expand protection up to 25% were discussed, including the feasibility of managing these new areas. Interested organizations have expressed a desire to co-manage these areas.

The National Institute of Culture and History (NICH) highlighted underwater cultural features, such as the Caye Caulker cave system, that they are interested in declaring as protected areas. Collaboration with NICH to identify and protect cultural features in marine space is welcomed.

Following the presentation, maps of the areas being considered for BPZs were posted around the meeting venue. Attendees were invited to review the areas and provide feedback via sticky notes made available. The feedback received were as follows:

Cayman Crown:

- Question: Can redesignation be achieved by November 2024? If yes, fully support
- Can the Trinational Alliance for the Conservation of the Gulf of Honduras (TRIGOH) increase their support this?
- There is a definite need to increase enforcement in this area. Recommendation for the use of thermal cameras.

Placencia Lagoon

- Fully support. Should be prioritized

Lighthouse Reef Atoll

- Question: Would this expansion also mean increasing the fishing zone? How will the existing high protection for biodiversity zones, spawning aggregation sites, and natural monuments be rationalized within a new marine reserve.

Banco Chinchorro/Bacalar Chico

- Question: Do we know the state of this area? What purpose would protecting/investing in this zone serve? What would the management plan look like? Is there existing information on this area?

Placencia Lagoon:

- Various levels of support (high & medium) should be considered for this area.
- Key considerations: Potential limits to submarine cables and electrical sub-station installation/development.

Rapid Assessment of Current Conditions/ Uses, Jamani Balderamos, The Nature Conservancy: An overview of the MSP step - assessing current conditions and uses of the ocean planning area - was presented, followed by an introduction to a rapid assessment method to be conducted by the workshop participants. During the breakout group exercise, participants were organized by sectors to assess the perceived status and trends of marine resources, marine conservation, and maritime activities in the planning area. The groups focused on understanding current human uses of the planning area, key marine ecosystems, and current ocean conditions, as well as their perceived status and trends (improving, stable, or declining). After the exercise, the groups presented their findings. They highlighted common uses, noting that recreational fishing is increasing, and perceived level of use is high. Opinions on the status and trends of ecosystem health varied; some participants indicated that ecosystem health is improving, while others expressed concerns about poor water quality, with some perceiving it as particularly bad.

Future Condition Scenarios – Part 1, Chantal Collier, The Nature Conservancy: An introduction to the MSP step - assessing future conditions and uses of the ocean planning area - was presented, followed by an introduction to a rapid future scenario planning method to be conducted by the workshop participants. The Rapid Scenario Analysis exercise centered around the focal question linked to the BSOP vision and goals: *How will Belize’s ocean space and marine and coastal resources be used in 2030 to support the sustainable growth and development of Belize’s blue economy while ensuring a healthy, resilient, and equitably shared ocean?* Participants engaged in a full group exercise to develop a scenarios matrix or continuum, focusing on projected trends in current conditions and uses and the anticipated or likely impacts of those trends as driving forces to shape the future.

During the exercise, participants identified the driving forces of change and their implications for different sectors. The outcomes revealed that the driving force most frequently voted on was the level of governance, while the most uncertain driving force was the impact of climate change.

Future Condition Scenarios – Part 2, Chantal Collier, The Nature Conservancy: In this session, participants used the driving forces they had previously selected to construct a scenarios matrix. Next, participants engaged in breakout group exercises to develop each of the four (4) scenarios in the matrix, with each group creating one scenario. This was followed by a full group discussion about each scenario and an exercise to select a preferred future scenario for Belize's ocean space. "High Governance, Low Climate Change," was selected as the preferred future scenario for Belize's ocean to guide the next steps in the BSOP process.

Collective images from day one (1) are noted in Annex 2.

Day 2

Compatible and Incompatible Use, Chad Bowman, Coastal Zone Management Authority and Institute: Conflicts in marine spatial planning generally fall into two categories: **(1)** conflicts among human uses (user-user conflicts) and **(2)** conflicts between human uses and the environment (user-environment conflicts). To address these conflicts, a compatibility matrix is utilized, providing a systematic approach to determine compatibility or conflict among various uses and the environment. The compatibility matrix plays a crucial role in the MSP process by enhancing decision-making and supporting an ecosystem-based approach to managing human activities in the marine environment. It helps identify conflicts and compatibilities. For the BSOP, the Analytical Hierarchy Process (AHP) will be used. AHP is the most commonly used Multi-Criteria Decision Analysis (MCDA) method for comparing conflicts.

The attendees participated in several activities during the workshop. First, they confirmed the list of uses by reviewing, adding, or removing uses to finalize the list for the BSOP matrix. Some recommended changes included clarifying the definitions of subsistence and traditional fishing, adding a category for cultural uses, changing "beach traps" to "commercials," adding eco-tourism, separating scuba diving from fishing, removing dredged material disposal, adding sargassum catchment/management, including disposal materials from boats to development, and adding research and science. Additionally, they suggested adding illegal fishing and extraction of gillnets.

Next, the attendees participated in a high-level comparison to identify areas of conflict and compatibility. This was followed by a second level of comparison, where they used an AHP table to calculate the conflict coefficient for each use and provided comments on the current status of conflicts and potential solutions.

The outcomes of these sessions included a revised list of uses, a draft high-level matrix, key areas identified for second-level comparison, and the identification of area-based conflicts and compatibilities.

Defining Criteria for Planning – Part 1, Chantal Collier, The Nature Conservancy: Participants were reminded of the definitions of vision, goals, and objectives, followed by the presentation of the revised goals and objectives for the BSOP to set the context for identifying and developing qualitative or quantitative indicators to support the design and evaluation of spatial management scenarios proposed during the BSOP process. Additionally, a case study on developing performance measures for Seagrass Management Area planning in Long Island Sound, USA, was discussed. In this project, the planning team collaborated with local stakeholders and local government agencies to facilitate a community-driven MSP process for developing the first seagrass management plan in Long Island Sound. They created performance measures based on the conservation goals and targets to build custom analytics in SeaSketch. This involved identifying indicators, with descriptions, metrics and scores for each conservation goal or target.

Defining Criteria for Planning – Part 2, Chantal Collier, The Nature Conservancy: Participants received handouts outlining the BSOP goals and objectives and worksheets to complete for the BSOP process. Each group focused on a specific BSOP goal and was tasked with brainstorming and drafting criteria that could be used to evaluate alternative spatial management scenarios to achieve that BSOP goal and its associated objectives using the SeaSketch planning tool.

One group working on *Goal 2: Marine Conservation Objective 1: Design Biodiversity Protection Zones to protect priority habitats, areas, and species..., integrating climate resilient safeguards*, indicated that the necessary data layers must be prepared before involving stakeholders. Another group, focusing on *Objective 3: By November 3rd, 2026, sign into law Gazette Biodiversity Protection Zones covering up to 30% of Belize’s Ocean space using a phased approach*, emphasized the importance of mapping and protecting ecosystems such as mangroves and seagrass beds. They noted that 30,000 hectares are currently under protection, aligning with the 2030 goals. Their performance measure description included assessing the level of carbon sequestration by these ecosystems, with a scoring system ranging from 0 to 4, where 0 indicates no protection and 4 indicates full protection.

Developing the Zoning Plan for a MSP, Kate Longly-Wood, The Nature Conservancy: The presenter, highlighted that ocean zoning in an MSP is a crucial tool for managing and, where appropriate, separating human activities based on knowledge of ocean characteristics and the spatial distribution of these activities. Most zones in the marine environment can be categorized into three basic types:

1. *General Use Areas: Where existing uses continue unrestricted.*
2. *Priority Use Zones: Where no use is permitted that constrains the priority use.*
3. *Restricted Access Zones: Where some uses are prohibited.*

The presentation provided an overview of zoning best practices including delineating zones using straight lines (rather than habitat boundaries), having fewer and larger zones, ensuring consistent allowable activities across zone categories, and using objective-based zone categories (rather than zones based on single activities) to allow for complementary activities and future uses to be considered. Additionally, the presentation clarified the definition of High Biodiversity Zones (HBZs), addressing a question raised on the first day.

Developing a BSOP Zoning Framework – Part 1, Andria Grinage, Ministry of Blue Economy and Disaster Risk Management: Marine Spatial Planning is crucial for sustainable ocean management. Zoning within MSP is guided by legislation such as the National Protected Areas System (NPAS) Act, the Forest Act, the Fisheries Act, and the National Institute of Cultural Heritage Act. The NPAS Act, in particular, provides the legal framework for managing and conserving protected areas in Belize. Emphasizing an inclusive and adaptive approach is essential for Belize to balance conservation efforts with the socio-economic development of its marine resources.

Developing a BSOP Zoning Framework – Part 2, Alicia Eck-Nunez, Belize Fisheries Department: The presentation highlighted the various categories of protected areas and their alignment to the IUCN categories, focusing on the different types of Marine Protected Area (MPA) zones and how the zones fit within the Full, High and Medium Biodiversity Protection Zones:

1. *High and full protection for Biodiversity Zones do **not allow commercial fishing** and include:*

- *Areas where no extractive activities are allowed (fully protected)*
- *Areas where catch and release recreational fishing is allowed (highly protected)*

2. *Medium protection for Biodiversity Zones **allows for some level of extraction and sea-bed alteration, with appropriate management and direction, depending on the objective of each designated area.***

Attendees then participated in a group activity to identify existing zones, zoning gaps, categories, activities, and conflicts.

Collective images from day two (2) are noted in Annex 3.

Day 3

Overview of Ocean Use Survey, Delwin Guevara, Coastal Zone Management Authority and Institute: During the session on using SeaSketch to gather data on coastal communities and ocean activities, participants learned about the Ocean Use Survey developed to allow individuals to digitally map their activities. The survey targeted over 27 coastal communities, including three (3) atolls, and involved partnerships with organizations like World Conservation Society (WCS), Blue Bond & Finance Permanence Unit (BBFPU), The Nature Conservancy (TNC), various universities in Belize, and other groups to gather input from traditional users and enumerators in different communities. Data collection methods included one-on-one interviews, focus groups, site visits, and online surveys.

A brief walkthrough video of the BSOP OUS was shown to the audience, highlighting the challenges and lessons learned. Challenges with online group surveys included issues with independent users and technology delays. In-person interviews proved more effective for sharing and designating areas of use. While group sessions were feasible, dominant personalities could influence participants. Despite these challenges, overall targets were met. The delay in census data posed difficulties in assessing coastal community populations. Most responses focused on fishing and mariculture, tourism, and marine ecosystems. The energy sector data was limited to underwater cables.

The survey prioritized data collection to assess ocean space usage across various sectors, with intensity levels ranked from low to high. Challenges included limited responses in certain areas, such as Rocky Point and Belize City, leading to uneven visibility in the heat maps. Sector-specific heat maps highlighted fishing activity, tourism types, shipping lanes, coastal research areas, and general cultural uses, offering insights into how different sectors interact with Belize's ocean space while addressing biases in response data.

Stakeholders who were present and contributed to the OUS and the review process of the maps, participated in a feedback session. Ranking the satisfaction levels for various maps: Fisheries (51% satisfied), Tourism (51% satisfied, 36% neutral, 3% disagree), Maritime Administration (60% satisfied, 22% neutral, 2% disagree), Maritime and Ecosystems (48% satisfied, 32% neutral, 10% disagree), and General/Cultural Use (51% satisfied, 35% neutral, 5% disagree).

A breakout group activity directed participants to visit seasketch.org/belize to explore different layers and engage in discussions. Creating an account was necessary to access all public forms and view comments on mapped areas. The display included layers of administrative, human stressors, and a list of public forms for stakeholder engagement. Areas under consideration for BPZ were shown, allowing participants to view and comment on key habitats such as corals, mangroves, and seagrass in priority areas.

High Level Marxan Overview, Ricky Tingey & Kate Longley-Wood, The Nature Conservancy: The presentation series focused on the use of spatial analysis tools, particularly Marxan, for marine conservation planning in the Seychelles. Marxan, a software designed to prioritize conservation areas, was highlighted for its ability to use spatial data to identify efficient protection zones. A case study demonstrated its application in defining zoning plans that integrate stakeholder input on biodiversity priorities, even in data-limited offshore and deep ocean areas.

The discussions also emphasized the critical role of stakeholder engagement in conservation planning. Insights from a consultant's work in the Seychelles underscored the importance of aligning conservation goals with stakeholder priorities. Techniques such as objective-based zoning and planning grids were presented to integrate biodiversity input with spatial data, especially for offshore regions. Researchers further explored various scenarios using Marxan to balance biodiversity protection with human activities and utilized hotspot maps to pinpoint priority areas for marine protection, creating a comprehensive framework for sustainable conservation efforts.

The final session underscored the importance of data quality and participatory mapping in spatial analysis tools. Fisheries management tools like SeaSketch and InVEST were also discussed. The importance of Marxan for planning and decision-making in various contexts was highlighted, with a suggestion to invite the Department of Environment (DOE) to a training on database development and Marxan functionality. Additionally, the possibility of using the InVEST tool to model values under different management scenarios and incorporate that data into Marxan was proposed.

Closing of Workshop, Chantalle Samuels, Coastal Zone Management Authority and Institute: At the conclusion of the 3-day workshop, the primary facilitator requested that participants share one key takeaway or something they would take back to their respective agencies or associations. She suggested that representatives from different sections of the room share their insights. The following feedback was captured:

A member from SACD commented, ***"What I have gained from this workshop, particularly regarding the Ocean Use Survey, is invaluable. Previously, I understood the theoretical aspects, but I struggled to comprehend its practical application during discussions with the fishermen at SACD. Now, having seen the examples and heard the complete presentation, I have a clearer understanding, enabling me to explain its significance more effectively to others."***

A member from BTIA remarked, ***"This experience has been incredibly enlightening for me, providing a fresh perspective beyond our usual tourism-centric viewpoint. Observing the various ways in which the ocean is utilized for different purposes has broadened my understanding. Effective communication is paramount, ensuring that our stakeholders***

comprehend the significance, benefits, and potential challenges associated with these activities. While we acknowledge that some may be resistant to change, having comprehensive information enables us to address their concerns. Overall, this experience has been truly enlightening, and I appreciate the opportunity to be a part of this. Thank you!"

A member from NICH noted, ***"Although I haven't attended the entire workshop, I've gleaned some valuable insights from the sessions I attended today. One of the key highlights, especially from the last presentation, revolves around the systematic conservation planning process, emphasizing transparency and collaboration. It became apparent that involving various stakeholders in the creation of conservation areas is crucial. Without comprehensive and inclusive data contributions from all stakeholders, our conservation efforts may inadvertently exclude important interests or areas. Therefore, my main takeaway is the importance of active contribution and collaboration with stakeholders. Despite our diverse expertise and goals, we are ultimately working towards a common objective. It's essential for our institutions to foster closer collaboration and improve communication to ensure that everyone's input is adequately represented in the data we utilize."***

The primary facilitator thanked everyone for their attendance and stated that their contributions assisted greatly in achieving the workshop's overarching goal of a stakeholder-driven, participatory process with broad cross-sector collaboration consistent with global best practices for marine spatial planning. She announced that a post-workshop report would be prepared and once available, it will be shared on the BSOP website and directly with workshop participants via email.

Collective images from day three (3) are noted in Annex 4.

Participant's Evaluation and Key Takeaways

An online workshop evaluation survey with 20 questions was provided to the participants who attended the 3-day workshop. Of the 70 individuals present during the 3 days, a total of 37 individuals (52.86%) responded to the post evaluation survey. The reporting in this section is based on feedback provided by these participants. Among the 20 questions asked, we highlight two (2) questions that assess the previous knowledge of the participants and their now gained ability to communicate to others about the process. These questions are as follows:

3. Previous Knowledge: How familiar are you with the Marine Spatial Planning (MSP) process?

18. On a scale from 1 to 5, how assured are you in your ability to communicate the knowledge acquired during the workshop regarding the MSP process employed in the development of the BSOP?

Results from these two questions indicated that at the start of the workshop 11 persons (29.7%) were very unfamiliar with the BSOP Process, and at the end of the 3-day workshop 22 persons (59.5%) indicated that were now able to communicate about the BSOP Process. This allows us to believe the delivery of the session was very effective.

The complete list of post-workshop evaluation survey questions and responses is available in Annex 4.

Next Steps

Insights gathered during the three-day workshop played a critical role in addressing gaps identified during the Ocean Use Survey conducted between January and March 2024. Participant feedback was instrumental in refining and finalizing the Compatibility Matrix, providing essential updates that enhanced the accuracy and completeness of the dataset. Overall, contributions across various thematic areas enabled the necessary adjustments to the zones under consideration, thereby facilitating the successful achievement of Milestone 4.

With Milestone 4 now completed—securing 25% of Belize’s ocean space under biodiversity protection—the focus shifts toward the realization of Milestone 6, which aims to expand protection to 30% of national marine waters. To support this effort, the Belize Sustainable Ocean Plan (BSOP) governance framework will leverage the Marxan spatial analysis tool. This will guide the identification of cost-effective solutions, determine conservation features, apply lock-in/lock-out parameters, and refine preferred planning scenarios. In doing so, it will also inform the selection of appropriate datasets to serve as metrics for scenario evaluation and decision-making.

Annexes

Annex 1: Attendance log



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Name	Organization	Contact Info (Email & Phone #)	Gender		Would you be willing to complete a follow-up survey via email and provide consent for recording and using feedback and photos?	
			M	F	Yes	No
Dale Fairweather	B.B.F.	605-9591	✓			✓
CECILIA GUERRERO	IOB	ceciliagu@iob.org 015-1498		✓	✓	
Jafet Pat	NBIO	cmu2.nbio@environment.gov.bz	✓		✓	
Apolonio Aguilar	UB	aaguilar@ub.edu.bz	✓		✓	
Saimila Cruz	SACD	Comm.liaison@saathelize.org		✓	✓	
Celi Cho	DOE	seo@environment.gov.bz		✓	✓	
Sheena Simpson	BEL	sheena.simpson@bel.com.bz		✓	✓	
Errol Sebastian	MNR	mining.geologist@natres.gov.bz	✓		✓	
Mylene Gonzalez	Forest Department	gonzalez.mie@gmail.gov.bz		✓	✓	
Wendy Casasola	wendy.casasola@tnc.org ↔ TNC			✓	✓	



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Name	Organization	Contact Info (Email & Phone #)	Gender		Would you be willing to complete a follow-up survey via email and provide consent for recording and using feedback and photos?	
			M	F	Yes	No
Kat Griswold	TNC	Kat.griswold@tnc.org		X	X	
Rubiceli Perera	MED	rubiceli.perera@med.gov.bz		X	X	
Keegan Slinger	CRFM Secretariat	Keegan.slinger@crfm.int	X		X	
L'Anne Hummel	BFD	lanne.hummel@gmail.com lanne.hummel@fisheries.gov.bz		X	X	
Tyrell Rejes	BFD	tyrellrejes@gcbmrd.gov.bz	X		X	
Lindolfo Chicas	BFD	lindolfo-chicas@yaho.com	X		X	
Samir Rosado	CZMAI	msplead@coastalzonebelize.org	✓		✓	
(hang-Hong (Kevin) Tsao	BAS	vmoterra@belizeaclubn.org	✓		✓	
Gregory Lambay	NFC	gregg.lambay9627@gmail.com	✓		✓	
Sheldene Enriquez-Sarda	UB	senriquez@ub.gov.bz		✓	✓	
EDGAR ETC	OOE	dignityenvironment.gov.bz	✓		✓	



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			M	F	Yes	No
Israel Correa	CZMAI	gis.technician@coastalzonebelize.org	✓		✓	
DAVID AYALA	BCA	david-ayala@icm.gov.bz • 6155260	✓		✓	
Evander Paguail	TIDE	site manager@tidebelize.org	✓		✓	
Dwayne Pech	BAS	cuypartix@belizeandubon.org	✓		✓	
Chantalle Samuels	CZMAI	cco@coastalzonebelize.org		✓	✓	
Nidia Chacon	TNC	nidia.chacon@tnc.org		✓	✓	
Henry Brown	WCS	hbrown@wcs.org	✓		✓	
SARAI VASQUEZ	BBFP-OPM	sto.bbfpunit@opm.gov.bz		✓	✓	
Nadine Nembhard	CKFO	nadine_nem@yahoo.com		✓	✓	
ANDREA GRINAGE	MBEO-RM	grinageaa@blueconservancy.gov.bz		✓	✓	
Shari Banner	CZMAI	epro mspcommunications@coastalzonebelize.org shari.banner@coastalzonebelize.org		✓	✓	



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			M	F	Yes	No
Belizario Carballo	Blue Bond & Finance Performance Unit	to btfpunit@opm.gov.bz 615-1241	✓		✓	
Juliet Neal	World Wildlife Fund	j.neal@wwfca.org		✓	✓	
Katherine Coxe	Institute of Archaeology/NIHA	kathcoxe@gmail.com 6221134		✓	✓	
Joyce Tun	Institute of Archaeology/NIHA	ecudirector@nich.belize.org		✓	✓	
Alex NOLBERTO	National Garifuna Council	alexmolberto01@gmail.com	✓		✓	
Andres Aldana	TASA	andres@tasabelize.com 666-6049	✓		✓	
Akore Yang	CZMAI	director@coastalzonebelize.org		✓	✓	
Colvin Gonzalez	SEA	operations.officer@seabelize.org	-		-	
Antonio Carr	UB	arcarr@ub.edu.bz	✓		✓	
Delwin Guevara	CZMAI	mssp.spatialanalyst@coastalzonebelize.org	✓		✓	
Chad Bowman	CZMAI	mssp.sciencelead@coastalzonebelize.org	✓		✓	



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			M	F	Yes	No
Chelsea Perera	COMAI	coastal.planner@coastalzonebelize.org		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Alyssa Coleman	COMAI	data.researcher@coastalzonebelize.org		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Abigail Carbutt	WWF	agcarbutt@wwfca.org		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
ALICIA ECK-NUNEZ	BFI	alicia.nunez@fisheries.gov.bz		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Adriel Costaneda	BFI	adriel.costaneda@fisheries.gov.bz	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
Miguel Sosa	Min. of Agriculture, FSLE	Miguel.Sosa@agriculture.gov.bz	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
Jane Champion	CRC	jane.champion@crcbelize.org		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Delice Pinkard	BHSPV	delice.pinkard@bhsfv.gov.bz		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Wendy Canto	BIA	ed@bia.org		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Gen Hanson	Energy Unit, MPUELE	g.hanson@energy.gov.bz / 828-4742	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
VIRGINIA BURNS PEREZ	TASA	virginia@tasabelize.com		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	



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			M	F	Yes	No
Nicolas Requena	Environmental Defense Fund	n.requena@gmail.com 628-4252 670-9136	-	-	-	-
Alana Godoy	TNC	alana.godoy@tnc.org		-	-	
Judith Usher	PACT	monitoringofficer@pactbelize.org		✓	✓	
Vanessa Figueroa-Wade	MSOCCOZEM	Policy@environment.gov.bz		✓	✓	
Al. Cansino	Fragments of Hope	alicansino@gmail.com	✓		✓	
Joel Verte	SHCD	ed@shcdbelize.org	-		-	
Sydney Fuller	BFCIA (E.D.)	sydfuller1954@gmail.com	✓		-	
Leandra Cho-Ricklits	Belize Fund	executivedirector@belizefund.bz		✓	✓	
Janel McNab	CZMA1	msspcoordinator@bca Belize.org		✓	-	
Andrea Polanco	TNC Belize	andrea.polanco@tnc.org		✓	✓	
Zoe Walton	Wildtracks	office@wildtracksbelize.org		✓	✓	



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Name	Organization	Contact Info (Email & Phone #)	Gender		Would you be willing to complete a follow-up survey via email and provide consent for recording and using feedback and photos?	
			M	F	Yes	No
Nadine Nembhard	CNFO	nadine_nem@gobelize.com		✓	✓	
Antonio Can	UB	acano@ub.edu.bz	✓		✓	
Cecilia Guerrero	IDB	ceciliagu@iadb.org		✓	✓	
Shelene Sweeney	UB	seniquiz@ub.edu.bz		✓	✓	
Kathryn Heger	IA	kathheger@gmail.com		✓	✓	
Apolonia Aguilar	UB	aaguilar@ub.edu.bz	✓		✓	
Nidia Chaves	TNC	nidia-chaves@tnc.org		✓	✓	
Jul Verde	SACD	ed@sacdbelize.org	✓		✓	
Rubiceli Perera	Econ Dev	rubiceli.perera@ned.gov.bz		✓	✓	
SAPIRA VASQUEZ	BBFP-OPM	sto.bbfpunit@opm.gov.bz		✓	✓	
Mirena Gonzalez	Forest Dept	gonzalezmi@gobmail.gov.bz		✓	✓	



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Name	Organization	Contact Info (Email & Phone #)	Gender		Would you be willing to complete a follow-up survey via email and provide consent for recording and using feedback and photos?	
			M	F	Yes	No
Akore Young	CZMAI	director@coastalzonebelize.org		✓	✓	
Celi Cho	DOE	seo@environment.gov.bz		✓	✓	
Alyssa Coleman	CZMAI	data.researcher@coastalzonebelize.org		✓	✓	
Henry Brown	WCS	hbrown@wcs.org				
EDGAR Ebe	DOE	dep@environment.gov.bz	✓		✓	
ANDREA GRINACIE	MBADR			✓	✓	
Leandra Ricketts	Belize Fund					
Wendy Casasola	TNC	wendy.casasola@tnc.org		✓	✓	



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Name	Organization	Contact Info (Email & Phone #)	Gender		Would you be willing to complete a follow-up survey via email and provide consent for recording and using feedback and photos?	
			M	F	Yes	No
Jane Champion	Crocodile Research Coalition	jane.champion@crchbelize.org		✓	✓	
Judith Usher	monitoringoffice@pactbelize.com	PACT		✓	✓	
Geon Harcor	Energy Unit MPNELL g.harcor@energy.gov.bz	g.harcor@energy.gov.bz	✓		✓	
Sheena Simpson	sheena.simpson@bil.com.bz	DEL		✓	✓	
Victor M. Shio	CZMAE	Sport fishing coordinator@coastalzonebelize.org		✓	✓	
Joyce Tun	IA/NICTH	ecce@inech.belize.org		✓	✓	
Lynette Cando	BTIA	Ed@btia.org		✓	✓	
Alana Goday	TNC	alana.goday@tnc.org		✓	✓	
Gregory Lambey	NFC	gregg.lambey962@gmail.com	✓		✓	
Janel Moxto	CZMAI			✓	✓	
Sydney Fuller	BFCA FID				✓	



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			M	F	Yes	No
Shari Banner-Gentle	CZMAI	mspcommunications@coastalzonebelize.org 614-4340		✓	✓	
Vanessa Figueroa-Wade	MSD/CEDEM	policy@environment.gov.bz		✓	✓	
Brittney Garbutt	HCMR	biologist@holchenmarinereserve.org		✓	✓	
Keegan Shyge	CRFM Secretariat	keegan.shyge@crfm.int	✓		✓	
Jaimilee Cruz	SACD	comm.liaison@sacdbelize.org		✓	✓	
Zoe Walter	Wildtracks	office@wildtracksbelize.org		✓	✓	
Doh Fairweather	B.F.F.	605-9591	✓			✓
Delice Pinkard	BHSTFV	delice.pinkard@bhstf.gov.bz		✓	✓	
Lindalfo Chicas	RED	lindalfo_chicas@yahoo.com	✓		✓	
Dwayne Rich	BAS	cayoParks@belizeaduban.org	✓		✓	
Chelsea Perera	CZMAI	coastalzonebelize@coastalzone.org		✓	✓	



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			M	F	Yes	No
Alicia Eck-Nunez	BFI D	alicia.nunez@fisheries.gov.bz		X	X	
Juliet Neal	WWF	jneal@wwfca.org		✓	✓	
Belizardo Caballo	Belize Bluebird Finance Remittance Unit	to.bbfpm@zcom.gov.bz	✓		✓	
Abigail Garbutt	WWF	agarbutt@wwfca.org 6159427		✓	✓	
GAnne Humes	BFI D	ganne.humes@fisheries.gov.bz		✓	✓	
Evanter Paguel	TIDE	sitemanager@tidebelize.org	✓		✓	
Alex Niborro	NGG	alexno@btaDI@gmail.com	✓		✓	
Calvin Gonzalez	SEA	operations.officer@seabcc.org	✓		✓	
Chantalle Samuels	CZMAI	ceo@coastalzonebelize.org		✓	✓	
Chad Bowman	CZMAI	mspsciencelead@coastalzonebelize.org	✓		✓	
Adriel Costamante	BFI D	adriel.costamante@fish.gov.bz			✓	



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			M	F	Yes	No
Miguel Soso	Miguel Agriculture, FSL E	miguel.soso@agriculture.gov.bz / 620-1957	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Andres Aldana	TAKA	andres@fcsabelize.com / 620-6049	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Israel Coricu	CZMA I	Gistechnician@Coastalzonebelize.org	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Al. Canseco	FoH	al.canseco@gmail.com	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
David Ayala	DLG	David.Ayala@ayala@gmail.com	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Jane Salazar	TAC	jane.salazar@tac.org	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Samir Rosado	CZMA I	msplead@coastalzonebelize.org	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chung-Hong Tsao	BAS	rmoferra@belizeaudubon.org	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Errol Sebastian	MNR	errol.sebastian@nature.gov.bz	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Tracy Ryan	FDI	tracyryan@fdi.gov.bz	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Jafet Jafet	NBID	CMU1.nbid@environment.gov.bz	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>



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			M	F	Yes	No
EDGAR ELA	DOE	edgarty@environment.gov.bz	/		/	
Amyal Garbutt	WWF	agarbutt@wwfca.org		✓	✓	
Jane Champion	crocodile research coalition	jane.champion@crebelize.org		✓	✓	
Jane Salazar	TNC	jane.salazar@tnc.org			—	
Dwayne Pech	BAS	daypech@belizeanduton.org	✓		✓	
Ariana Cole	UB	acole@ub.edu.bz	✓		✓	
ALICIA RISK-NUNEZ	BFI D	alicia.nunez@fisheries.gov.bz		X	X	
Alana Goday	TNC			/	/	
Cecilia Guerrero	IDB	ceciliaguerrero@idb.org		✓	✓	
Apolonia Aguilar	UB	aguilar@ub.edu.bz	✓		/	



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Name	Organization	Contact Info (Email & Phone #)	Gender		Would you be willing to complete a follow-up survey via email and provide consent for recording and using feedback and photos?	
			M	F	Yes	No
Brittany Gerbitt	HCMR	biology@nichemarineconservancy.org		✓	✓	
Keegan Shiga	CEFM Secretariat		✓		✓	
Rubiceli Perera	EconDev	rubiceli.perera@mod.gov.bz		✓	✓	
Lindolfo Chicas	BFD	lindolfo.chicas@yahoo.com	✓		✓	
Virginia Burn Perez	TASA	virginia@tasabelize.com		✓	✓	
Miguel Sosa	M.A. Agro. F.S. & Entrepres.		✓		✓	
Chad Bowman	CZMA I	msspici@coastalzonebelize.org	✓		✓	
Judith Usher	PACT	monitoringofficer@pactbelize.org		✓	✓	
Andres Aldana	TASA	andres@tasabelize.com / 665-6149	✓		✓	
Jake fat	NBIO	cmu1.nbio@environment.gov.bz	✓		✓	
Paul Smith	IA	archaeologist1@nichbelize.org	✓		✓	✓



THE BELIZE SUSTAINABLE OCEAN PLAN
 Multi-Stakeholder MSP Workshop 1: Assessments for planning
 May 8th - 10th, 2024
 Belize Biltmore Plaza Hotel, Belize City (River Hall)
 Day 3



Name	Organization	Contact Info (Email & Phone #)	Gender		Would you be willing to complete a follow-up survey via email and provide consent for recording and using feedback and photos?	
			M	F	Yes	No
Shari Banner - Gentle	CZMAI	m5pcommunications@constelzorbelize.org 614-4340		✓	✓	
hnette Cando	BTIA	ed@btia.org		✓	✓	
Nidia Chacón	TMC	nidia.chacon@tmc.bz		✓	✓	
Jaimilae Carz	SACD	comm.liaison@sacdbelize.org		✓	✓	
Zoe Walker	Wildtracks	office@wildtracksbelize.org		✓	✓	
Edwin Gonzales	SEA	operationsofficer@seabze.org	✓		✓	
Katherine Cere	IA, NICHL	kthericoy@gnvill.com		✓	✓	
JAFKA VASQUEZ	BBFP -OPM	starbbfpunit@opm.gov.bz		✓	✓	
Venona Figueroa	NSDCCDEM			✓	✓	
Juliet Neal	WWF	jneal@wwfca.org		✓	✓	
Jul Verde	SACD	j.verde@sacdbelize.org	✓		✓	



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Name	Organization	Contact Info (Email & Phone #)	Gender		Would you be willing to complete a follow-up survey via email and provide consent for recording and using feedback and photos?	
			M	F	Yes	No
SAMIK ROSADO	CZMAI	msplead@coastalzonebelize.org	✓		✓	
Alyssa Coleman	CZMAI	dataresearcher@coastalzonebelize.org		✓	✓	
Arlene Young	CZMAI	director@coastalzonebelize.org		✓	✓	
Israel Correa	CZMAI	gistechnician@coastalzonebelize.org	✓		✓	
Chantalle Samuels	CZMAI	ceo@coastalzonebelize.org		✓	✓	
Errol Sebastian	MNR	mining.geologist@mnr.gov.bz	✓		✓	
Celi Cho	DOE	seo@environment.gov.bz		✓	✓	



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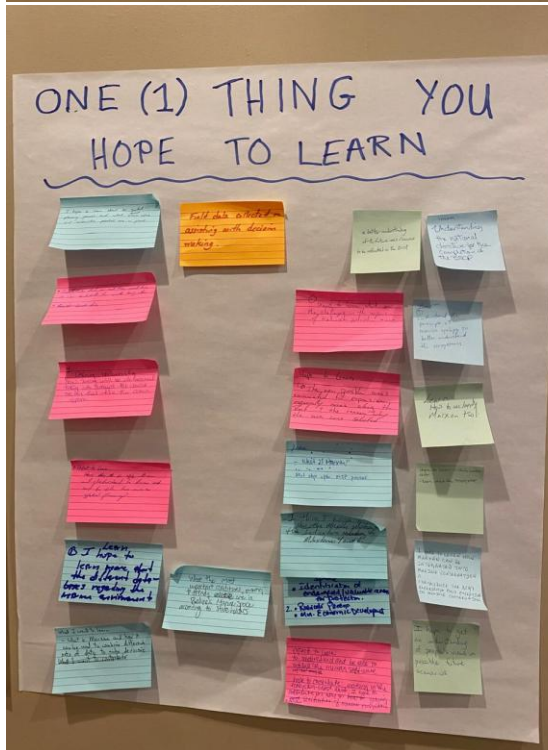
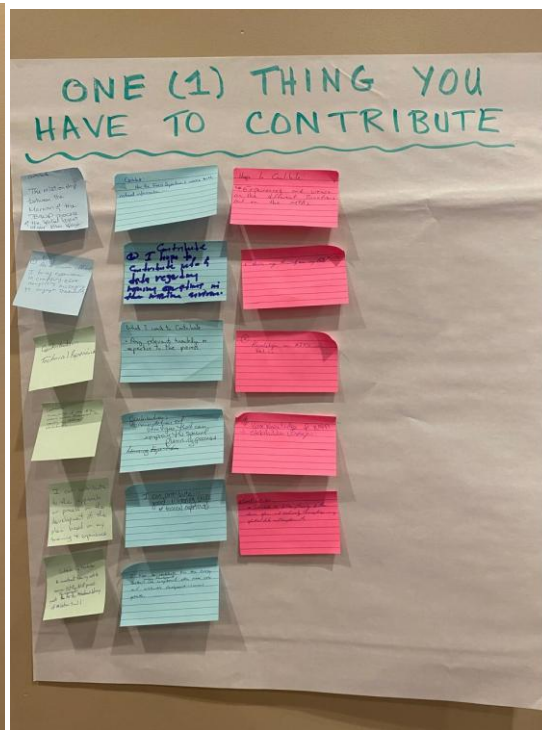
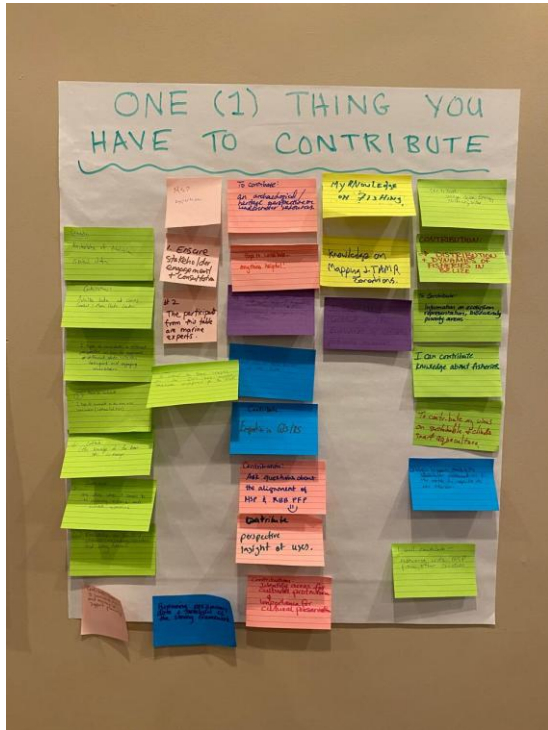


Name	Organization	Contact Info (Email & Phone #)	Gender		Would you be willing to complete a follow-up survey via email and provide consent for recording and using feedback and photos?	
			M	F	Yes	No
ANDREA GRINAGE	MBEDRM			-	-	
Chang-Hong (Kevin) Tsao	BAS	vmoterra@belizeaudubon.org 624-9640	✓		✓	
Belizario Carballo	BBFP-OPM	to.bbfpunit@opm.gov.bz	✓		✓	
Leandra Ricketts	Belize Fund					
Minerva Gonzalez	Belize Forest Department	gonzalezmi@gmail.gov.bz		✓	✓	
Elander Pageant	TIDE	vanderpage@gmail.com	✓		✓	
Janel McNaught	CERMAI			✓	✓	

Annex 2 : Day 1 Workshop Images

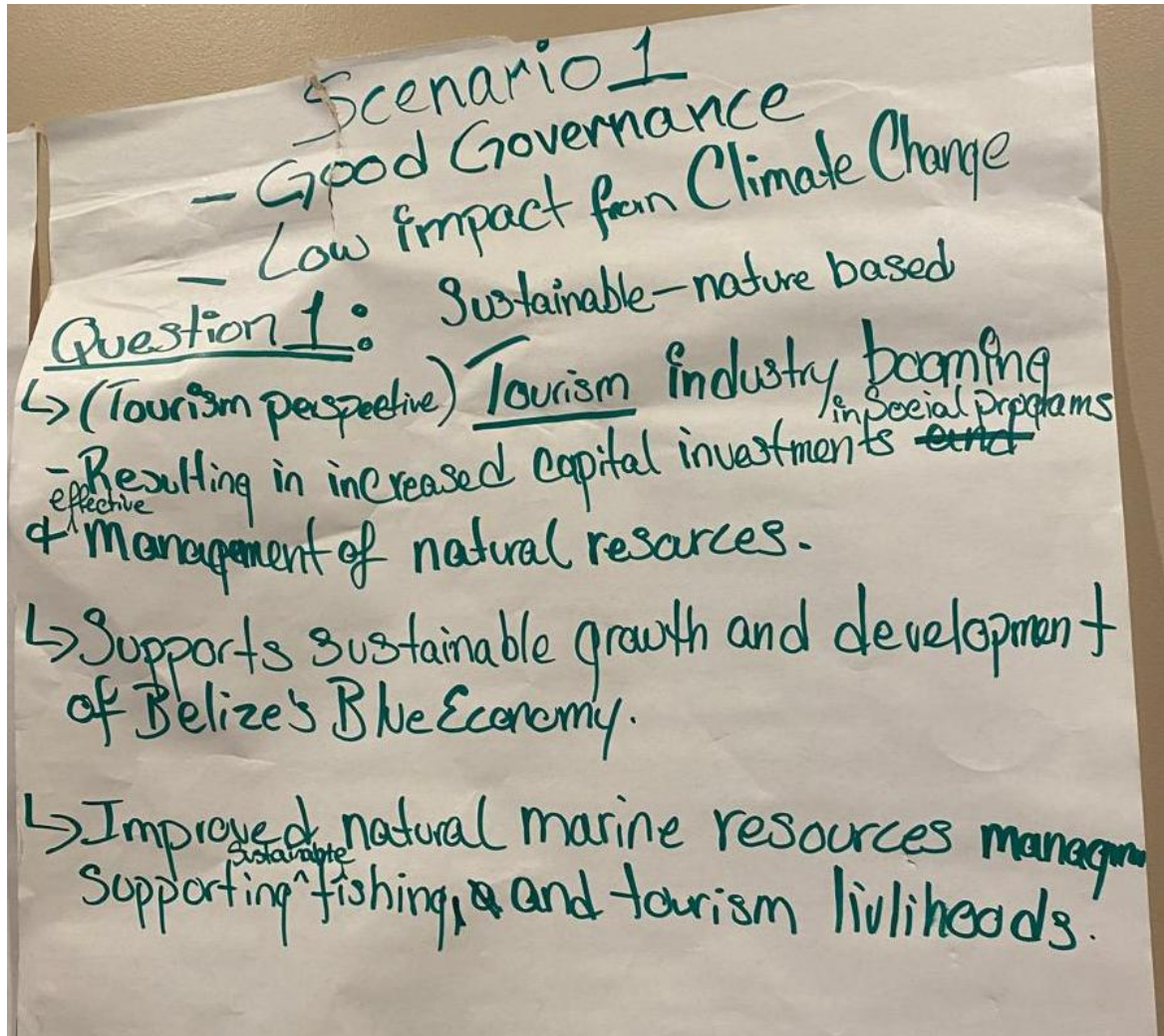
Day 1 – Setting the scene for planning: Welcome, Introduction & Workshop Overview

To indicate one (1) thing participants, hope to contribute and one (1) thing participants hope to learn from the workshop.



Day 1 – Setting the scene for planning: Future Condition Scenarios Parts 1 & 2

The development of a scenarios matrix and selecting a preferred future scenario for Belize's Ocean Space.



Good Gov. / High Impacts from CC. - Double Y - (Progress & Problems)
- Resilient Coastal Communities
↳ Safequ coastal Nations

What happens in this Scenario?

A Good Gov.

- ✓ Gender inclusivity - *Inclusive in decision making - Include Gender & Vulnerable groups*
- ✓ Effective framework & policy - *Regulatory & Mgmt Plans (species & PA's) Contingency Plans*
- ✓ Transparency & Accountability
- ✓ Qualified & adequate H.R.
- ✓ Sustainable finance - *Actively seek and mobilize resources*
- ✓ Regional & International partnerships & support
- ✓ Improved living standards. (Upward mobility) & Equib
- ✓ PPP's - Collaborations - *Science and Community based Information loop.*
- ✓ Innovations & Technology - *Climate Resilience*
- ✓ NBS

B High Climate Impacts

- ✓ Increase in ~~and~~ frequency & Intensity of Storms & Disasters
- ✓ SST. ↑
- ✓ Changing Weather Pattern (Precipitation)
- ✓ Habitat loss - Biodiversity loss
- ✓ Ecosystems degradation
- ✓ Impact of Coastal Communities may shift economic & social situations
- ✓ ↑ Fire → ↑ toxic gases
- ✓ Species migration → shift in access to certain commercial species
- ✓ Negative impacts on human health → strain on health system.

What Policy options are available

- ✓ Low emission dev. Strat.
- ✓ Climate finance strat.
- ✓ Gender Action Plan
- ✓ Medium term development strategy - Plan Belize
- ✓ IC2M Plan
- ✓ Maritime Economy Plan
- ✓ Blue economy dev. Policy & Strategy
- ✓ National CC Policy, Strategy & Master Plan
- ✓ BSOP

Good Governance - High Impact of Climate Change

1. * improved infrastructure to withstand climate change impacts. (extreme weather events)

* invest in climate smart strategies & implement

* educated / climate ~~conscious~~ ^{conscious} population

2. * BSOP

* ICZMP

* DRMP

* Climate Change Policy

* Tourism Master Plan

Scenario Z

(54)

Poor, Low Governance / High Climate Change

What Happens?

- * Feedback cycle of increasing vulnerability + high (negative impact)
- * Increased storm damage leads to increased economic pressures
- * Social unrest + involvement
- * Resource exploitation → Reef depleted, fisheries depleted
- * Unregulated, poor investment
- * Loss of major industry: tourism + fisheries
- * Jobs lost
- * Social inequality
- * Corruption → A few benefit, many suffer
- * Cleared mangroves
- * Loss of ecosystem function

What Policy Options are possible?

- * Anti-corruption legislation
- * Push for regulated resource use + spatial planning
- * Public pressure + civil society involvement w/ policy
- * Possible government turn-over
- * Funding for research
- * Informed decision-making
- * Preparatory funding for disaster risks
- * Need for governance that would adapt, mitigate, + build resilience

How to prepare for this scenario? (Interventions)

- * Restoration + building ecosystem resilience → Nature Based Solutions
- * Shift in culture as an adaptation to climate change + behavior
- * Increased capacity building + education
- * More research
- * Community based management
- * Seek new financial resources + investment
- * Blended fin. approach

"The Worst of the Worst"

Experts + stakeholder involvement = Participatory approach
* Recognition of different expertise

SCENARIO

3^a - Poor governance
- Low impacts from CC

① What happens in this scenario?

- (a) CC impacts on industries are ↓. - stable resources
- (b) Poor mgmt. & enforcement.
- (c) ↑ exploitation of resources.
- (d) ↑ habitat loss

Low
Impacts
from
CC

② Policy option(s)

- (a) NPAS Act, Mangrove Regs., Forest Act, etc.
- (b) Community mgmt. ^{& empowerment} through independent funding (external)

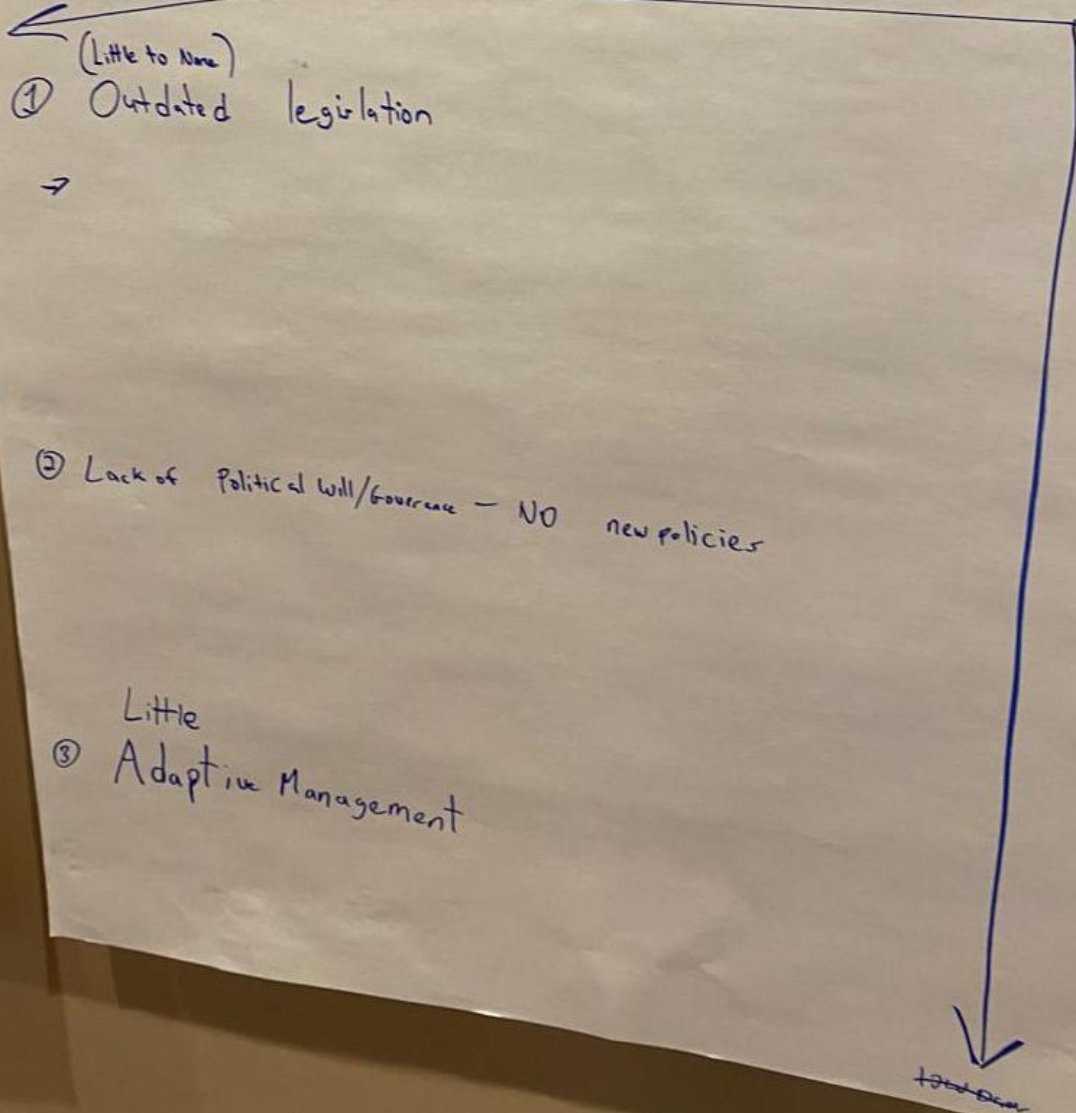
③ Interventions

- (a) Proper financial accountability (checks & balances)
- (b) Improved capacity building
- (c) Strengthen governance frameworks
- (d) Better coordination & collaboration among NGOs, CBOs to Government.

Poor Governance

3

Poor Governance, Low Impact CC



LOW Climate

MOST
IMPORTANT

DRIVING FORCE

MOST
UNCERTAIN

LAND-BASED SOURCES
OF POLLUTION

↑ IN SARGASSUM

CHANGES IN GLOBAL
ECONOMY DUE TO
GEOPOLITICS



MOST IMPORTANT



DRIVING FORCE

CLIMATE CHANGE

BLUE ECONOMIC GROWTH

INCREASED TOURISM

DECLINING CORAL REEF

MOST UNCERTAIN



MOST
Important

DRIVING FORCE

MOST
UNCERTAIN



INCREASED \$ OF
LIVING

SEA SURFACE TEMP



SHIFTING CULTURES



↑ TRAINING OR
CAPACITY BUILDING

MOST
IMPORTANT

DRIVING FORCES

MOST
UNCERTAIN



HEALTH OF KEY
MARINE ECOSYSTEMS



MOST IMPORTANT



DRIVING FORCE

LEVEL OF GOVERNANCE

DEVELOPMENT

INTERNATIONAL COMMITMENTS

MANUFACTURE

MOST UNCERTAIN



MOST
IMPORTANT

DRIVING FORCE

MOST
UNCERTAIN

INVASIVE SPECIES



POPULATION ↑



↑ IN IMPORTS /
EXPORTS

↑ IN PROTECTED
AREAS



Annex 6 : Day 2 Workshop Images



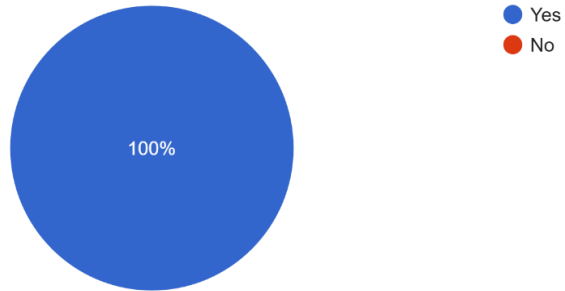
Annex 7: Day 3 Workshop Images



Annex 8: Evaluation Questions and Responses

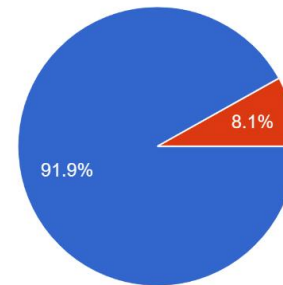
1. Was the venue adequate for the workshop?

37 responses



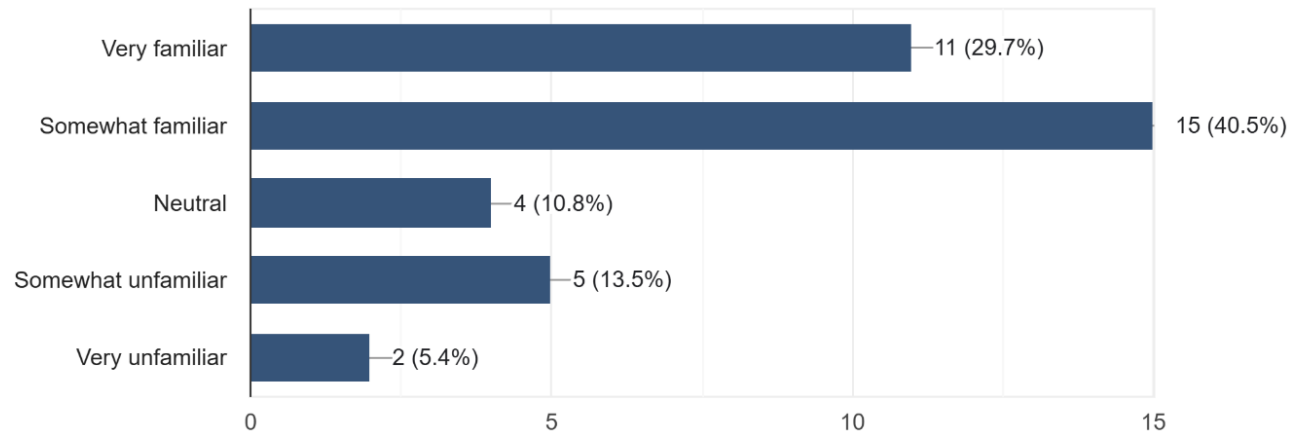
2. Was the time adequate for the workshop?

37 responses



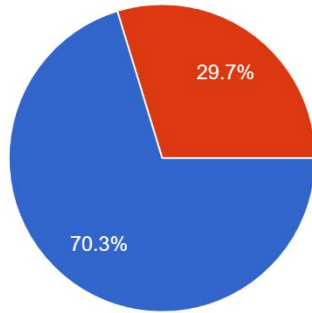
3. Previous Knowledge: How familiar are you with the Marine Spatial Planning (MSP) process?

37 responses



4. Overall, how useful was this workshop to your work?

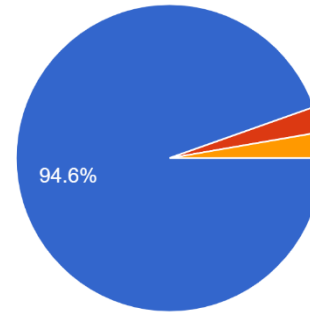
37 responses



- Highly useful (all or most of this workshop is applicable to my work)
- Moderately useful (some parts are applicable to my work)
- Not very useful (this workshop was not relevant to my work)

5. Were the session leads/presenters able to clearly deliver the information?

37 responses



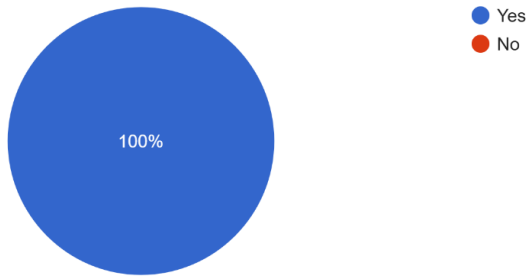
- Yes
- No
- Somewhat

6. If you answered **No** or **Somewhat** to the previous question, please indicate what aspects would you like clarification on?

23 responses

N/A
None
N/a
Delivery of information was well done.
N/a
Not applicable
.
NA
Coordination between MSP and Blue Economy. Presenter sped/mowed through presentation.

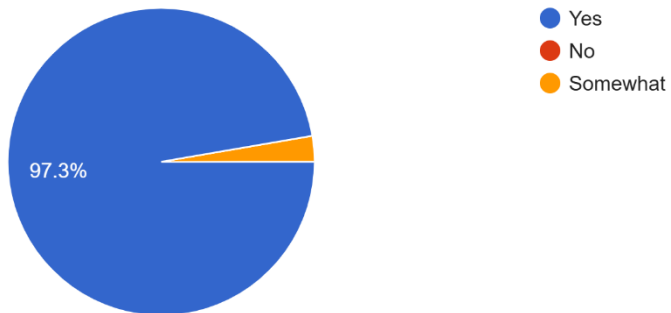
7. Were the worksheets/materials adequate for the workshop sessions?
37 responses



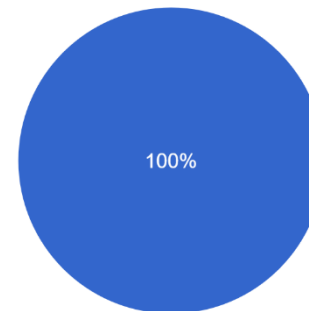
8. If you answered **No** to the previous question, can you kindly indicate why.
4 responses



9. Were the objectives of the workshop clearly shared?
37 responses

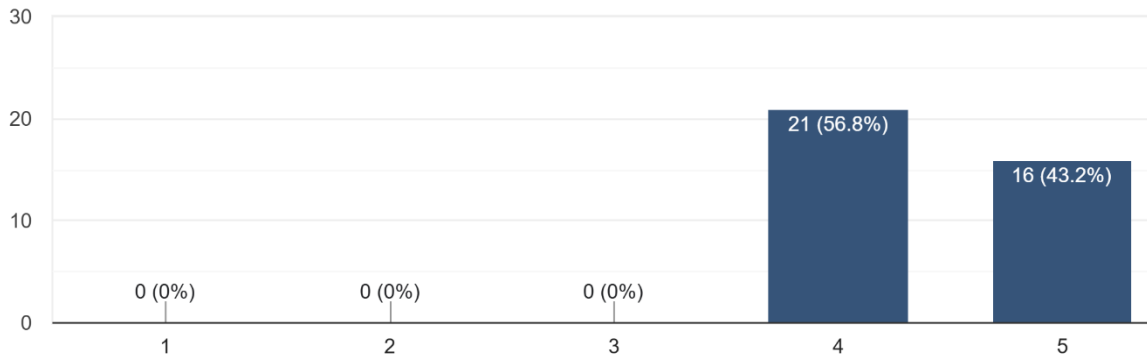


10. Were the breakout group sessions effective?
37 responses



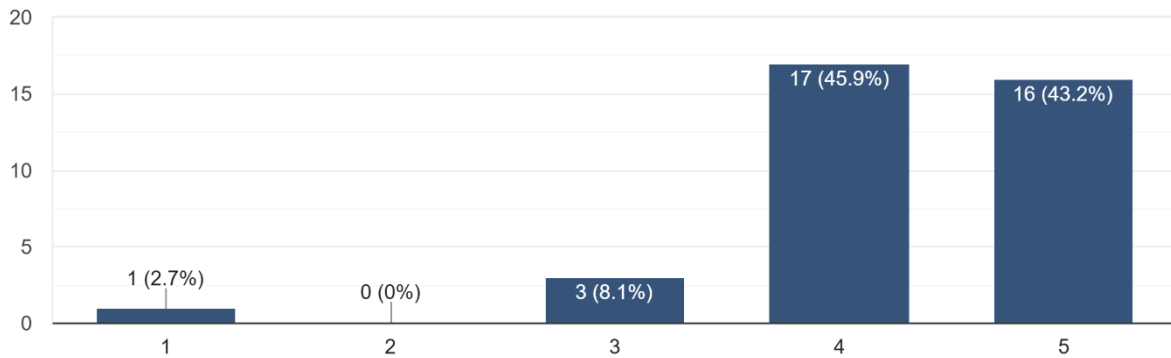
11. On a scale of 1-5 did you grasp the understanding of the key MSP steps and assessments of day one (1)?

37 responses



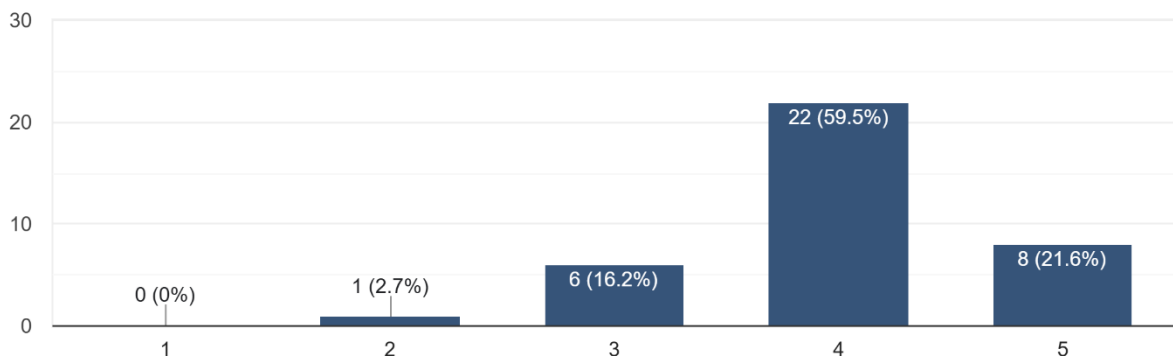
12. On a scale of 1-5 was the information on areas under consideration for new protection, understandable?

37 responses



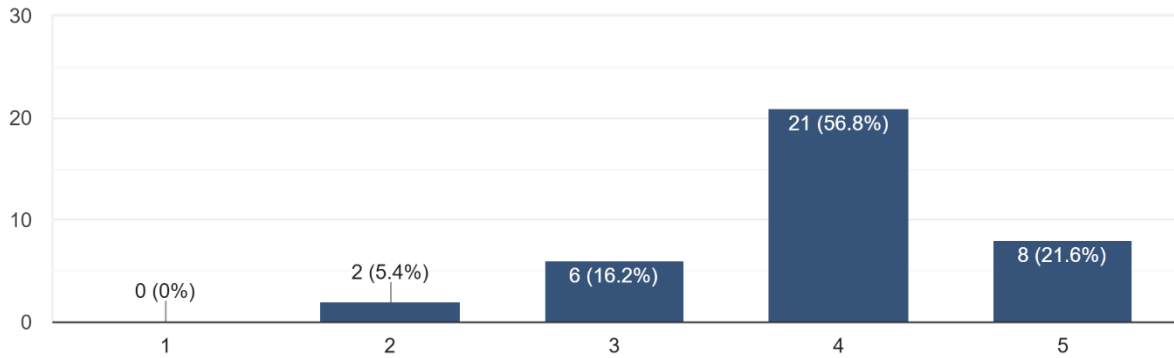
13. On a scale of 1-5 was the discussion on current and future scenarios considered and future scenarios developed, effective in depicting the understanding of the MSP?

37 responses



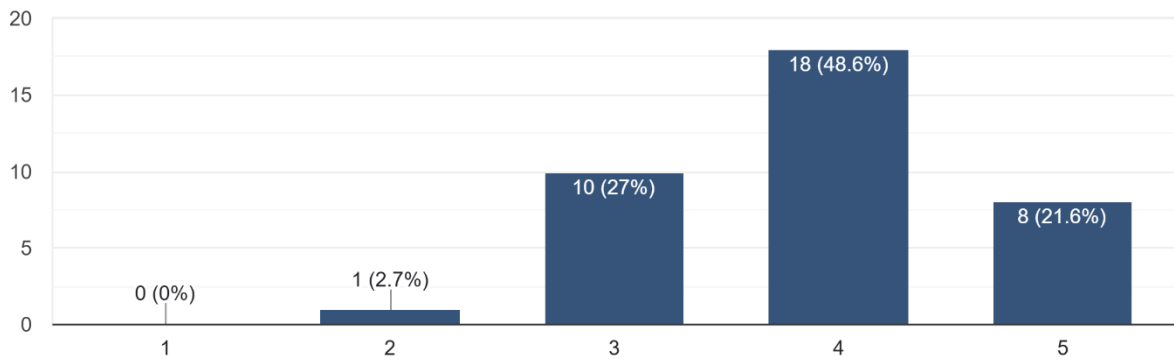
14. On a scale of 1-5 rate the define planning criteria and performance measures based on the BSOP goals session. Was the session effective in fra...uestions for the analysis of the spatial planning?

37 responses



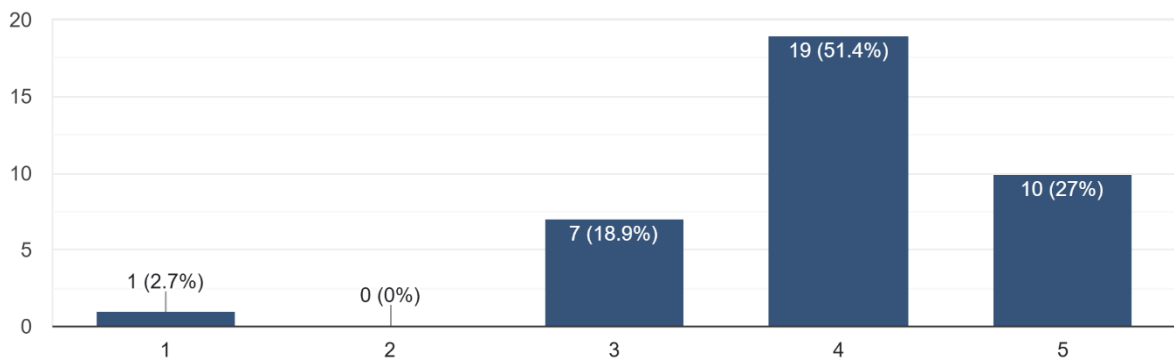
15. On a scale of 1-5 rate the conflict and compatibility session of the workshop. Was the developed matrix effective?

37 responses



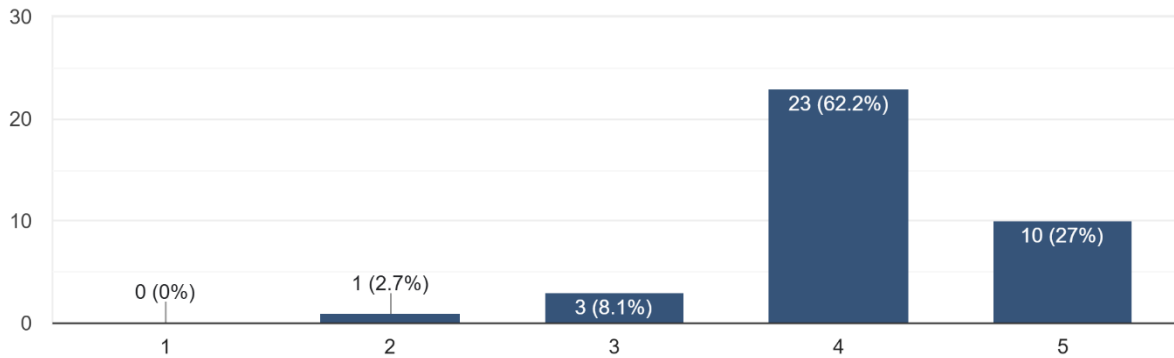
16. On a scale of 1-5 rate the draft zoning session of the workshop for the zone categories/allowed activities?

37 responses



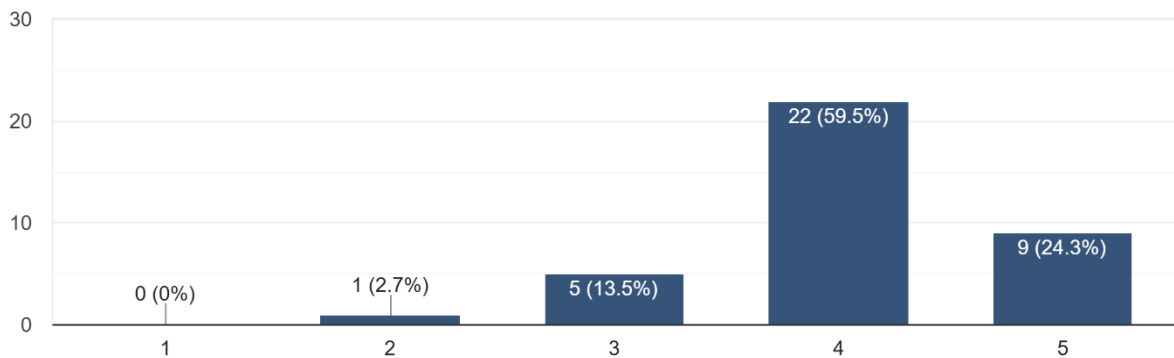
17. On a scale of 1-5 how is your understanding and verification of the Ocean Use Survey in relations to the identification of gaps/anomalies and the next steps forward with the OUS survey data.

37 responses



18. On a scale from 1 to 5, how assured are you in your ability to communicate the knowledge acquired during the workshop regarding the MSP process employed in the development of the BSOP?

37 responses



Key for questions 11 to 18, with the range indicating:

- 1- Poor
- 2- Fair
- 3- Good
- 4- Very Good
- 5- Excellent

19. What aspects of the workshop impacted/resonated with you the most?

37 responses

SeaSketch Results

Presentation

The break out groups, plenty of wonderful and engaging communication.

Results of the OUS

Scenario Planning

The part about designating the areas for zoning

The effort that was made by visiting 27 communities speaks good about the team

High participation and engagement

Development of criteria for monitoring and evaluation of achievement of goals.

Consideration for protection

The breakout group activities in particular the compatibility Matrix and zoning and criteria exercise. My team had much useful inputs to be considered.

Compatibility matrix, scenarios and OUS

Selection of Priority Areas

The breakout group sessions

The matrix resonated with me. It needs some tweaks to allow for other factors and it required more time for us to be efficient in providing better feedback for the process. The zoning activity was also great but needed more time to complete more effectively.

Zoning and scenario analysis

I enjoyed the zoning activity whereby it gave participants to contribute their professional perspective as to how the Belize marine space can be utilized.

Hearing from other organizations/sectors

Human uses

The conflict vs compatibility aspect for the matrix gives a better understanding of the activities that overlaps, but also puts into considerations that the location of the area might contribute to whether its conflicting or compatible.

The broad span of stakeholders that are involved in marine spatial use.

The use of thensea sketch application in gathering data and drawing polygons in specific areas.

Learning about the tools being used to map and visualize the data collected.

On how zonings are developed

The group activities which revealed knowledge of stakeholders

The future scenario planning .

Marxan

Group activities

NA

The use of the OUS and how it contributes to the MPA spatial planning

Validation of user input exercise was very interesting

The activities

The overall goal and objectives and commitments to be achieved for the MSP, and the awareness for areas under consideration for new biodiversity protection.

The breakout sessions as it allowed us to apply the theoretical knowledge of the BSOP process

zoning

The use of different tools like seasketch and Marxan for compilation of data to support the creation of scenarios that can help the planning process

The breakout sessions were good opportunities to get insight from the different organizations/sectors/stakeholders present at the workshop.

20. Comments for improvement

18 responses

More breakout activities

Excellent job!

More activities in the afternoon and discussion on the purpose of activity and use of results post workshop

No comments

Workshop should include more of the private sector.

Better and more neutral/professional facilitation.

continue involving the multi stakeholder representation.

Breakout sessions require more time for effective dialogue and completion of assigned tasks. The Compatibility and Conflict activity required more time for analysis, discussion and decisions.

None

To have a dry run with facilitators prior to the workshop to make sure everyone understands the tools/matrix for the exercise. In particular with the compatibility matrix which wasn't as straightforward as expected. Nonetheless, great job to the team on executing the workshop and in achieving the objectives and outcomes of all the sessions of the workshop

While I enjoyed the rapid assessments and see the value in these, it did not feel like we had enough time to complete any of the assessments. It's a bit challenging to do rapid assessments as a group with differing perspectives.

Some more time should have been allocated to some activities.

Workshop content and exercises were very well put together and implemented smoothly. Sooo much information on the slides...i'm hoping that the presentations will be shared so I can go through them in more detail

Make the presentations available at the start of the workshop online by scanning a QR code to access a drive

The grouping for day 2 was a bit too congested, too many on a table which did not provide for an effective discussion. For future, also kindly consider some healthy snacks.

Consider additional time for breakout groups and training/preparation of facilitators prior to the sessions. Overall, the workshop was well executed! The team did a great job.

The planning process should also ensure targeted sessions for specific sectors eg. MPAS



Belize Sustainable Ocean Plan

**Coastal Zone Management Authority
and Institute**

Princess Margaret Drive, P.O. Box 1884,
Belize City, Belize, Central America

Tel: 501-223-5739/0719

Fax: 501-223-5738

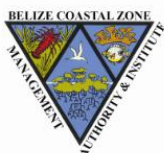
E-mail: info@coastalzonebelize.org

Website: www.coastalzonebelize.org

Belize Sustainable Ocean Plan

E-mail: bsop@coastalzonebelize.org

Website: bsop.coastalzonebelize.org



**Belize Fund For A
Sustainable Future**



BLUE BOND
and Finance Permanence Unit
OFFICE of the PRIME MINISTER