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Our vision:

A resilient Pacific environment sustaining our livelihoods and natural heritage in harmony with our cultures.

PALAU

National Environmental Management Strategy (NEMS 2022-2030)













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Palau Foreword

I'm delighted to share with you our National Environmental Management Strategy 2022-2030 (NEMS). In the past 29 years since our first NEMS, Palau has made great strides in environmental management, chief among them a suite of sustainably managed protected areas, diverse community conservation initiatives, world class marine research, and systems of cross-sector coordination and accountability.

As proud as we are of these accomplishments, limited information management for cross-sector action is one of our greatest environmental constraints. The need for more comprehensive datasets and integrated plans to guide decisionmakers has never been greater, as environmental threats and impacts have increased locally and globally with changing times and changing climates.

This NEMS 2022-2030 highlights interrelated national policies, environmental actions, and targets in eleven thematic areas, collated from a set of highly developed and detailed plans. In acting as an umbrella document for these thematic plans, this NEMS provides a roadmap for addressing Palau's top concerns in

a comprehensive and integrative manner and will contribute to increasingly informed environmental decision-making.

The partnership of SPREP and input from Palau's many dedicated government, nongovernment, and private sector experts were essential in developing this document. On behalf of the National Environmental Protection Council, I would like to thank all of our partners who contributed to the NEMS 2022-2030 for your hard work in accomplishing this important task. I look forward to our continued partnership as we implement these strategies to ensure sustainability in our environment.

Kom kmal mesulang!



Mr. Sefanaia Nawadra

Director General

SPREP

SPREP Foreword

Palau is highly reliant on its natural resources and environment, and environmental management is closely linked to sustainable development and its cultural and natural history. Palau has an active and diverse environmental community whose members share the desire to better coordinate and prioritize across sectors and triggered the development of this Palau National Environmental Management Strategy (NEMS) 2022-2030.

This Strategy is an framework document that defines Palau's environmental priorities and actions. It implements and is consistent with existing national policies that promote sustainable development and environmental conservation. The Strategy prescribes environmental management actions in eleven sectors including climate change; land management and food security: nearshore marine management: offshore marine management; freshwater management; conservation; biodiversity waste management; chemical management; built environment; culture, heritage, and awareness; and environmental governance.

I sincerely acknowledge the commitment by the Government of Palau through the Ministry of Agriculture, Fisheries, and Environment (MAFE) and the National Environment Protection Council (NEPC) in endorsing the Palau NEMS. The Strategy was developed through a national consultative process

with government and non-government stakeholders. It is hoped that with the implementation of the Strategy, the Palau Government and its people can continue to enjoy a cleaner and healthy environment today and into their future.

I am confident that this Strategy will help the Palau Government and national, regional, and global partners plan for and mobilize support for priority actions to help better manage, protect and restore Palau's unique environment, many of which face global and local pressures. To this end, the NEMS also includes an extensive bibliography of national policies and plans. It is thus both a guide for ongoing environmental work and financing, as well as a resource for anyone hoping to understand Palau's diverse and active environmental community and its actions. Aligned with the Palau 2019 State of the Environment Report, this NEMS can act as a foundation for common targets and indicators in future environmental reporting.

I acknowledge the financial support of the European Union and the Organisation of Asian Caribbean and Pacific States (OACPS) through the UNEP coordinated programme for Capacity Building related to Multilateral Environment Agreements in African, Caribbean and Pacific Countries (ACP MEAs) Project Phase 3; the GEF funded UNEP INFORM Project; and the Department of Foreign Affairs and Trade of the Australian federal government.

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ACRONYMS

ACP	African, Caribbean and Pacific	NEMS	National Environmental Management
AFFF	Aqueous Film Forming Foam		Strategy
BAT	Best Available Technology	NEPC	National Environmental Protection Council
BAP	Best Available Practice	NGO	Non-Government Organisation
BIORAP	Biological Rapid Assessment	NSSD	National Strategy for Sustainable Development
BMR	Bureau of Marine Resources	ODS	Ozone Depleting Substances
BPW	Bureau of Public Works	PA	Protected Area
CA	Conservation Area	PALARIS	Palau Automated Land and Resource
CFC	Chlorofluorocarbons		Information System
DDT	Dichlorodiphenyltrichloroethane	PAN	Protected Areas Network
DEH	Division of Environmental Health	PCS	Palau Conservation Society
DoA	Department of Agriculture	PFOS	Perfluoro-octane sulfonic acid
EEZ	Exclusive Economic Zone	PNMS	Palau National Marine Sanctuary
EIA	Environmental Impact Assessment	POPs	Persistent Organic Pollutants
EQPB	Environmental Quality Protection Board	PPUC	Palau Public Utilities Corporation
ERW	Explosive Remnants of War	PRIP	Pacific Regional Infrastructure Programme
ESA	(Palau) Endangered Species Act	SDG	Sustainable Development Goal
E-Waste	Electronic and Electrical Waste	SIDS	Small Islands Developing States
FFA	Forum Fisheries Agency	SoE	State of the Environment
GHG	Greenhouse Gases	SPC	Secretariat of the Pacific Community
GMP	Global Monitoring Plan	SPLA	State Protected Land Area
HCFC	Hydrochlorofluorocarbons	SPREP	Secretariat of the Pacific Regional Environment Programme
HCH	Hexachlorocyclohexane	TODD	· ·
HFC	Hydrofluorocarbon	TCDD	Tetra chlorinated-dibenzodioxin
IAS	Invasive Alien Species	TCDF	Tetra chlorinated-dibenzofuran
IBA	Important Bird Area	ULAB	Used lead acid battery
IPM	Integrated Pest Management	UN	United Nations
IUCN	International Union for Conservation of Nature	UNCBD	United Nations Convention on Biological Diversity
IUU	Illegal, Unreported and Unregulated (Fishing)	UNDP	United Nations Development Fund
MEA	Multilateral Environmental Agreement	UNEP	United Nations Environment Programme
MIA	Minimata Initial Assessment	UNFCCC	United Nations Framework Convention on Climate Change
MOS	Ministry of State	WHO	World Health Organisation
MMA	Marine Managed Areas	5	Transcription or gambadon
MPA	Marine Protected Area		
NBSAP	National Biodiversity Strategic Action Plan		
NCD	Non-Communicable Diseases		

1 Introduction

Palau has a very active and diverse environmental and sustainable development community, with many overlapping priorities and actions. As an island country with a small, but dedicated workforce, Palau's environmental community is always seeking ways to align and coordinate efforts to maximise benefits in an efficient and effective manner.

This National Environmental Management Strategy (NEMS) 2022-2030 portrays Palau's priorities and actions to conserve and improve its environment for current and future generations in order to enable and improve ongoing cross-sector coordination. The NEMS 2022-2030 mainstreams national policies that promote sustainable development through integrated environmental actions, conservation, and governance.

This NEMS is an umbrella strategy that collates actions from sector policies and plans (Section 1.4) into one place and thus serves as a central source for environmental priorities. The policies and plans that fed into the NEMS were developed in a participatory manner, and the process to develop the NEMS was similarly participatory. Thus, the priorities listed here, and their actions, targets, and indicators, have a strong stakeholder-driven basis.

The NEMS is both a guide for ongoing environmental work, including the development of new proposals, as well as a resource for anyone hoping to understand Palau's diverse and active environmental community and its actions.

1.1 Rationale for the palau national environmental management strategy

According to the Palau State of the Environment Report (SoE) 2019, the status of the Palauan environment has deteriorated in many places and for many indicators. This is a consequence of local threats such as increased development and global threats such as climate change. The key environmental drivers and risks include:

- increased temperatures and sea-level rise;
- impacts of extreme weather and tidal events, particularly tropical typhoons, storm waves and prolonged drought;
- fires and soil erosion;
- overexploitation of marine resources;
- invasive alien species;
- urban expansion and land clearing;
- solid and liquid waste management;
- limited infrastructure maintenance and improvement; and
- gaps in governance, legislation and resourcing.

The NEMS will assist the Palau Government and other national environment organisations to identify needs and prioritise actions to better manage, protect and restore Palau's environments that are under pressure as identified by the Palau SoE 2019 (summarised below). The NEMS also identifies key stakeholders who will assist in the implementation of its programmes, which will allow better coordination of activities within, and outside, the government.

¹ NEPC (2019). 2019 State of the Environment Report, Republic of Palau. National Environmental Protection Council (NEPC), Government of Palau: Koror, Palau. 100 pp.



Summary of 2019 Palau State of the Environment Report²

SoE Theme	SOE	SoE Indicators (RED signifies indicator of concern)	SoE Status	Trend	SoE Response and Recommendations	NEMS Strategy
Coral Reefs	+	Live Coral Cover	1. Very Poor to	1. Stable/	Increase MPAs	3.1.1
	2.	Benthic (macroalgal) Cover			Investment in management via PAN	3.1.1
	က်	Juvenile Coral Density		Z. Stable/	SWNA	3.1.3
	4	Reefs with "High" Coral Cover		B	Beaulate fishing	331332
	റ്റ് (Coral Disease	4. G000	4. Stable	במיממס לי מסוי לימי ל	8311011
	ı و	Coral Genus Diversity				- · · · · · · · · · · · · · · · · · · ·
	7.	Ocean water temperature	6. FUUI 10 GUUU		lerrestrial PAs	2.1.7
	တ်	Sea Level Rise			Best practice agriculture	2.5.1, 2.5.2
	တ်	Damage to coral from typhoons and tropical		7. Stable/	Aquaculture	3.4.3
	10.	Marine Acidity	10. Not		Research and monitoring	3.1.2
	Ξ.	Extreme weather			Reduce sedimentation through permits	8.3.1, 8.4.1
	12.	Overfishing of herbivores from reefs	11. Not	9. Increasing	Sustainable tourism policy	8.4.1, 5.4.1
	13.	Sedimentation onto Reefs	12 Poor		Reduce overfishing	3.3.1, 3.4.1
	14.	Damage from Visitation			Minimise visitor demana	2 / 1
	15.	Percentage of Reef in No-Take MAs	13. Increasing		ואוווווווסט עוסונטו טמווומטס	 † 0
			<u>፡</u> ቪ	14.		
			<u>:</u>	15. Poor to Good		
Nearshore	16.	Abundance of Commercially Important & Large	16.	16. Stable/	Ban commercial export	3.3.1
fisheries		Fish	17. Poor to Fair		Promotion of local (including tourism)	5.4.1. 8.4.1
	17.	Biomass of Commercially Important and Large	18.	17. Stable/	consumption of tuna	`
	9	Tist	19.	decreasing	MPAs and PAN	3.1.1
	<u>.</u> 5	Sea Circimber Size		10. Decreasing	Land use planning	8.3.3
	<u> </u>		21. Poor to Fair			0 1 7 0 7 7
	9 2	Ciallis (uli leels)	22. Poor to Good		השטומו ופטנטו ופטנטו ופטנטו ו	4, 0.1.4
	21.	sea cucumbers stocks	23. Variable		Regulate fishery	3.3.2, 3.4.2
	2 2	Per cent immature fish caught	24. Poor		Management of MPAs to reduce poaching	3.1.1, 3.3.3
	23.	Size of Fish Caught			SWNd	
	24.	Spawning Potential Ratio (SPR) of Fish Caught		24. Variable		

NEPC (2019). 2019 State of the Environment Report, Republic of Palau. National Environmental Protection Council (NEPC), Government of Palau: Koror, Palau. 100 pp

SoE Theme	SOE	SoE Indicators (RED signifies indicator of concern)	SoE Status	Trend	SoE Response and Recommendations	NEMS Strategy
	25.	Composition of Catch	25.	25.	Aquaculture investment	3.3.3
	26.	Total Nearshore Fish Harvest	26.	26.	Resourced sustainable fisheries	3.4.3
	27.	Difficulty in catching fish	27.	27.	management (via BMR funding)	3.3.3
	28.	Invertebrate Harvest	28.	28.	Increased fisheries research	10.1.3
	29.	Catch per Unit Effort (CPUE)	29.	29. Variable	Review of relevant legislation and	1032
	30.	Reef Fishery Export (by passenger flight)	30. Poor to Fair	30.	requiations	7.0.0
	31.	Declining Reef Fishery Productivity	31.	31. Declining	o	
	32.	Declining Seagrass Cover	32.	32. Declining		
	33.	Degraded Habitats	33.	33.		
	34.	Overfishing	34.	34.		
	35.	Gaps in knowledge, laws, regulations &	35.	35.		
		investment	36. Poor to Good	36.		
	36.	Extent of sustainable fisheries regulations	37. Fair to Good	37.		
	37.			38.		
		marine area	39. Fair to Good	39.		
	38	MPA Management Effectiveness: Ecological impact on nearshore		40.		
	39.	MPA Management Effectiveness: Perceived Socioeconomic and cultural impacts	41. 42.	42.		
	40.	Aquaculture Production				
	4.	Fishery Production from small-medium businesses				
	42.	Sustainable Fisheries as per cent of GDP				

SoE Theme	SoE (RE	SoE Indicators (RED signifies indicator of concern)	SoE Status	Trend	SoE Response and Recommendations	NEMS Strategy
Offshore	43.	Offshore Fishery Catch	43. Fair	43.	Implement the PNMS	3.3.3
fisheries	44. 5.	Fleet Size and Composition Local use of offshore catches	44. 45.	44. Steady 45. Increasing	Reduced overfishing (through ban on fishing in 80% of EEZ)	3.3.1
	46.	Offshore Fishery Bycatch	46.		Research into stock structure	3.3.1
	47. 48.	Declining Offshore Fishery Productivity Illegal, Unreported, and Unregulated (IUU)	47. 48.	47. Declining 48.	Improved monitoring and enforcement to reduce IUU	3.3.3
	49.	Undervaluation	49.	49.	Development of comprehensive fisheries policy	10.2.1
					Monitoring of local offshore fishing boats	3. 4.5
					Estimation of maximum sustainable yield in Domestic Fishing Zone of PNMS	3.3.1
					100% Observer coverage on Tuna boats	-
Specific	20.	Ongeim'l Tketau (Jellyfish Lake)	50.	50.	Long term monitoring (and research)	3.1.2
marine locations	51.	Damage to shorelines from typhoons and	51.	51.	Shoreline revegetation (Casuarina, Scaevloa)	2.4.2
	S	Illupical stoffilis Marino Invocivo Cassisa			Reduce visitor numbers	8.4.2
	53.	Orowding at Marine Recreation Sites	53. Fair	53. Increasing		
Endangered	54.	Sea Turtles	54.	54.	MPAs include mangrove protection	3.1.1
marine	22.	Mesekiu (Dugong)			Increased enforcement in PNMS and PAN	3.3.3
	26.	Globally and locally endangered species		56. Variable	Land use mapping to identify sea-level rise threats	5.3.1, 5.3.2, 5.3.1
					Implementation of the GEF6 invasives project	3.1.2, 5.2.2, 5.2.3, 5.4.1
					Zoning of Rock Island	10.2.1, 10.3.1,
					Closures of Jelly fish lake as needed	10.3.2, 10.4.1
					Review of laws and regulations	2.1.4, 3.1.4
					Increased research and monitoring	

SoE Theme	SoE (RE	SoE Indicators (RED signifies indicator of concern)	SoE Status	Trend	SoE Response and Recommendations	NEMS Strategy
Mangroves	57.		55.	57. Steady	Controls on mangrove clearing	8.3.1, 8.3.2,
	50 0	Mangrove carbon stocks Sea Level Rise, Increased Bainfall, and	57.		Central data collation	2.4.1
			58.	.09	Increased monitoring	214
	.09	Clearing and Human Use	59.	61.		
	61.	Fungal Infection	.09	62.		
	62.	Mangrove Protected Area				
	63.	Forest extent and change	61. Good	63. Increase	Terrestrial protected habitats	2.1.1, 2.1.2,
	64	Forest diversity	62. Good	64. Stable		5.1.1, 5.1.2,
	65.	Degraded and Disturbed Lands	63.	65. Increase	Identification of resilient areas	2.1.4, 5.1.1
	.99	Tree Damage	64.	66. Increase	Identifying endemic, endangered plants,	5.2.1
	67.	Forest Carbon	65.	.29	mapping extent and threats	
	.89	Fire	.99	68. Stable	Forest monitoring	5.2.1
	.69	Rainfall Variability, Typhoons, and Temperature	.79	.69	Forest restoration research	214
	70.	Alien Invasive Species	.89	70. Stable		- · ·
	7	Fungal Infection (Phellinus noxius)	.69	71.	Improved response to lire	7.7.1
	72.	Unsustainable Human Use	70.	72.	Research into savannah fire ecology	2.2.1
	73.		71.	73. Increased	Multiple invasive control, eradication efforts	5.3.1, 5.3.2
	i		72. Poor to Good	74.	Identification of fungal infected areas	5.1.3
	4 4	Protected Freshwater Sites Torroctrial Drotocted Area Management		75. Increased	Update Palau Endangered Species Act (ESA)	5.2.1
	į	Effectiveness: Perceived	74. variable	/ 0.	List	5.2.1, 5.2.3
	76.	_			Conservation Action Plans for Endangered Species	

SoE Theme	SoE (RE	SoE Indicators (RED signifies indicator of concern)	SoE Status	Trend	SoE Response and Recommendations	NEMS Strategy
Birds	77.	Bird Diversity	75. Good	77. Stable	Protected Areas (PAs)	5.1.1, 5.1.2
	78.	Belochel (Micronesian Imperial Pigeon)	76.	78.	Ongoing research and monitoring	5.2.1, 5.2.2
	79.	Biib (Palau Fruit Dove)	77.	79. Stable	programmes	731 730
	80.	Melabaob (Rufous Night Heron)	78.	80. Decrease	Active rodent eradication programmes and	
	윤.	Bekai (Micronesian Megapode)	79.	81. Increase	cat control	5.3.2
	85.		80.	82. Decrease	Ongoing IAS plant removal programmes.	Z 2 A
	833	Storms, Sea Level Rise, Variability	81.	83.	Development and Implementation of	4.7.0
	84.	Alien Invasive Species	82. Vulnerable	84.	Megapode Conservation Action Plan	
	85.	Poaching & Harassment	83.	85.	National Law prohibiting taking of all birds	
	86.		84.	.98	(minus four exclusions).	9.1.1, 10.5.1
	87.	Protected Bird Areas	82.	87.	Public and citizen scientist involvement in bird conservation	
Earthmoving	88	Earth moving permits	86.	88. Increase	Land use planning	8.3.1, 8.3.2,
and .	89.	Type of earthmoving permit	87.	89. Increase		8.3.3
Development	90	Violations/Violation Rate	88.	90. Increase		
	91.	Environmental Assessments/EA Rate	89.	91. Stable		
	92.	Koror Building Permits	.06	92. Decrease		
	93.	Visitor Accommodations, Number of Hotels/ Motels	91.	93. Increase		
Water	94.	Water Supply and Usage (Koror-Airai)	92.	94. Steady	Implement marine water quality monitoring	3.2.1
Resources	95.	Drinking Water Coliform	93. Poor to Good	95. Variable	programme	
	96	Drinking Water Turbidity	94. Fair to Good	96. Stable or	Improve freshwater monitoring	4.1.1
	97.	Access to treated water	95. Good	decrease		
	98.	Access to Sanitation	96. Good	97.		
	99.	Marine and River Water Quality	97.	60 60		
Solid Waste	100.	3. Solid Waste Generation	98. Fair	100. Fair	Solid Waste Act	6.1.1
and Recycling	101	101. Waste Composition	.66	101.	New Landfill operational	6.2.1
	102	102. Waste Source and Collection, Koror	100.	102.	Increase recycling rates	6.3.1
	103.	3. Total Diversion/Recycling Rate	101. Poor to Good	103. Poor to Good		
	104.	4. Composting Amount and Rate	102. Poor	104. Poor	merease composing rates	0.4.1
	105.	5. Beverage Container and Plastic Recycling	103. Poor to Good	105. Poor to Good		

SoE Theme	SoE Indicators (RED signifies indicator of concern)	SoE Status	Trend	SoE Response and Recommendations	NEMS Strategy
Agriculture	106. Agricultural Production and Consumption 107. Participation in the Agriculture Sector	104. 105.	106. Increase 107. Increase	Improved monitoring of agricultural production, local use, and local demand, including inputs, outputs, and losses	2.5.1, 2.5.2
Energy Sector and Transportation	108. Total Energy/Electricity Consumption109. Renewable Energy110. Energy Efficiency111. Vehicles/Imports	106. 107. Poor to Fair 108. 109.	108. Increase 109. Increase 110. Increase 111.	Decrease GHG emissions Decrease fuel and electricity consumption Increase the % of electrical energy generated from renewables	1.6.1 1.5.2,1.5.3 1.5.1
				Decrease car imports Improve national energy efficiency	1.5.2
Awareness and Capacity	112. Public Awareness113. Public Participation in Environment114. Capacity Building	110. Good 111. Poor to Fair 112. Fair	112.113. Poor to Fair114. Increase	Investment in public participation in environmental activities and decision making 10.5.1 Targeted outreach to key stakeholders 9.1.1, 9.3.1	9.4.1, 9.4.2, 10.5.1 9.1.1, 9.2.1, 9.3.1

1.2 PALAU NEMS FORMULATION PROCESS

The Government of Palau sought assistance in 2021 for the development of the NEMS from the Secretariat of the Pacific Regional Environment Programme (SPREP), who contracted an international consultant to formulate the NEMS in a series of steps:

- **1.** Contracting of the external consultant by SPREP (September 2021);
- **2.** An Inception meeting with SPREP, the Government of Palau and the consultant to define the scope of the work (September 2021);
- A desktop review and analysis of issues identified by national environmental status and policy reports (see 1.4) was used to develop the first draft of the Palau NEMS (February 2022);
- **4.** Distribution of the first draft to the Working Group for input and review (February 2022);

- **5.** Distribution of an updated NEMS to stakeholders for input and review (March 2022);
- **6.** National stakeholder consultation workshops to incorporate feedback (May-October 2022);
- **7.** A penultimate draft NEMS incorporating stakeholder comments and additional priorities was distributed for final review (September 2022); and
- **8.** Submission of the final draft NEMS to SPREP and the Palau Government for endorsement (November 2022).

The majority of priorities listed in the NEMS are found in existing government policies and plans (Section 1.4). However, during consultations (step vi), new priorities were added, with stakeholder agreement. This NEMS thus reflects stakeholder-driven environmental priorities, and their actions, targets, and indicators, as of October 2022.

1.3 MANDATE AND SCOPE OF THE NEMS

The NEMS aims to strengthen the national, regional and international coordination of the government's efforts to cope with the nation's complex environmental issues. The implementation of the NEMS will be coordinated and monitored by National Environment Protection Council (NEPC). The NEMS (2022-2030) is consistent with all major government policies, strategies and regulations introduced over the last 15 years relating to national sustainable development and environmental management and was developed and expanded from the issues identified in these reports through stakeholder consultation and review (see 1.4 below).

Specifically, Title 24 of the Palau National Code is dedicated to environmental legislation³. The three Divisions most relevant to environmental protection are:

- Division 1 (Environmental Quality) which encompasses
 the Environmental Quality Protection Act, and Provides
 for the establishment, functions and operation of the
 Palau Environmental Quality Protection Board (EQPB).
 EQPB is responsible for the management of drinking
 water supplies, waste management, earth moving and a
 permitting system for pollution management.
- Division 2 (Wildlife Protection) provides a framework legislation concerning endangered species and includes an Endangered Species Act (Chapter 10) providing for both animal and plant endangered species. Protected sea-life sub chapters include turtles, sponges, pearl shell, dugong, trochus and clams. Chapter 13 deals with illegal

 Division 3 (Preserves and Protected Areas) covers the two legally protected areas in Palau, the Ngerukewid Islands Wildlife Reserve and the Ngerumekaol Spawning Area.

Title 27 of the Palau National Code enacts its own fishery zone legislation to manage, conserve, and regulate the harvesting of fish throughout their habitat, both within the reef areas of islands and atolls, and in other areas within the jurisdictional competence of the Republic. The Act provides for the establishment of a Palau Maritime Authority and the definition of Fishery Zones. The access of foreign fishing companies is also regulated by the Act through a licence scheme. The law provides penalties and enforcement powers to the authority.

Title 31 of the Palau National Code incorporates the Trust Territory Land Planning Act which provides the current basis for land use planning. The Act requires the inclusion of conservation elements as part of planning for the conservation, development, use and protection of natural resources, including forests, soils, rivers and other waters, harbors, fisheries, wildlife, minerals and other natural resources. The conservation element may also cover reclamation of land and waters, flood control, prevention and control of the pollution of streams and other waters, prevention, control and correction of the erosion of soils, beaches and shores, and protection of watersheds.

fishing methods, including the use of explosives, poisons and chemicals, and Chapter 14 covers protected land life which is restricted to the conservation of birds (except for four other species). Chapter 34 provides the Protected Areas Network (PAN) Act.

³ SPREP (2018). Palau: Review of natural resource and environment related legislation. 16pp.



1.4 GOVERNMENT POLICIES AND STRATEGIES CONSIDERED IN THE NEMS

The following recent government policies, strategies and supporting documents were used to guide development of the NEMS:

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- Miles, W., Z. Grecni, E. Matsutaro, P. Colin, V. Keener, Y. Golbuu, et al., (2020): Climate Change in Palau: Indicators and Considerations for Key Sectors. Report for the Pacific Islands Regional Climate Assessment. Honolulu, HI: East-West Center,
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- Republic of Palau (2012). The Sustainable Land Management Policy of the Republic of Palau. 13pp.
- Republic of Palau (2012). The Water Policy for the Republic of Palau. 7pp.
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- Republic of Palau (2018). Sustainable Forest Management Policy. 32pp.
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Nearshore Marine Management

- Friedlander AM, Golbuu Y, Caselle JE, Ballesteros E, Letessier TB, Meeuwig JJ, Gouezo M, Olsudong D, Turchik A, Sala E. (2014). Marine biodiversity and protected areas in Palau: Scientific report to the government of the Republic of Palau. 47pp.
- Friedlander et al. (2017). Size, age, and habitat determine effectiveness of Palau's Marine Protected Areas. https:// doi.org/10.1371/journal.pone.0174787
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- Republic of Palau (2010). Mauritius +5 Status Report: Republic of Palau. ESCAP. 144pp.
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1.5 NEMS THEMATIC AREAS

The National Environmental Management Strategy encompasses ten thematic areas derived from relevant national environment related policy and strategies. The thematic and strategic focus areas are presented below.

Environment Theme	Strategic Focus Area
1. Climate Change	1.1 Strategic planning for climate change impacts
	1.2 Adaptation to Climate Change impacts
	1.3 Climate finance mechanisms
	1.4 International advocate for climate justice
	1.5 Transition to renewable energy
	1.6 Reduction in Greenhouse Gas emissions
	1.7 Reduction in use of Ozone Depleting Substances
2. Land Management and	2.1 Land use planning and zoning
Food Security	2.2 Food security
	2.3 Protection of water supplies
	2.4 Soil management
	2.5 Forest management
	2.6 Expansion and management of PAN
	2.7 Savannah grassland management
	2.8 Coastal vegetation management
	2.9 Clearance of Explosive Remnants of War (ERW)

Environment Theme	Strategic Focus Area
3. Nearshore Marine	3.1 Data collection, sharing, and feedback systems
Management	3.2 Marine spatial planning
	3.3 Nearshore fisheries management – Improve status of nearshore fisheries (finfish and
	invertebrates) and increase value of fisheries products
	3.4 Aquaculture management
	3.5 Marine Protected Area management and expansion
	3.6 Mangrove management
	3.7 Coral Reef management
	3.8 Tourism outside of Koror (Babeldaob, Outer Islands, and offshore)
	3.9 Improved management of Koror's World Heritage Site
	3.10 Management of marine water quality
	3.11 Protection and maintenance of marine biodiversity
4. Offshore Marine	4.1 Administration and Coordination
Management	4.2 Sustainable Domestic Pelagic Fishery
	4.3 Safe and Secure EEZ
	4.4 Communications, Information, and Awareness
	4.5 Economic stability and branding
	4.6 Maintenance of biodiversity and ecosystem functions
5. Freshwater Management	5.1 Catchment management and protection
	5.2 Freshwater supply management
	5.3 Freshwater monitoring
	5.4 Estuarine habitat protection
	5.5 Freshwater lake protection
6. Biodiversity Conservation	6.1 Endangered species protection
	6.2 Invasive species management and control
	6.3 Protected Areas Network expansion and management
	6.4 Environmental reporting
	6.5 Biodiversity mainstreaming
7. Waste Management	7.1 Improved national waste management
	7.2 Improved landfill operations
	7.3 Recycling
	7.4 Composting
	7.5 Hazardous waste management
	7.6 Disaster waste management
	7.7 Marine Plastic
8. Chemical Management	8.1 National chemical management strategy
	8.2 Management of priority obsolete chemicals
	8.3 Contaminated site management
	8.4 Oil spill management
	8.5 Management of other priority chemicals
	8.6 Chemical monitoring and reporting



Environment Theme	Strategic Focus Area
9. Built Environment	9.1 Climate-resilient building codes in line with land use planning and zoning
	9.2 Water management
	9.3 Improved sanitation
	9.4 Reduce impacts from development and construction
	9.5 Climate-proof sustainable infrastructure and construction program
	9.6 Sustainable tourism
10. Culture, Heritage and	10.1 Traditional knowledge
Awareness	10.2 Protection of Palauan heritage
	10.3 Community education and awareness
	10.4 Professional training and awareness
11. Environmental	11.1 Sustainable Financing
Governance	11.2 Coordination, Monitoring, and Evaluation
	11.3 Environmental Legislative Framework development and review
	11.4 Environmental Policy and Strategy development and review
	11.5 Capacity Building
	11.6 Compliance and Enforcement
	11.7 Stakeholder Engagement and Participatory Decision making
	11.8 Gender and Social Inclusion Mainstreaming
	11.9 Communications and Knowledge Management

1.6 PAST NATIONAL ENVIRONMENTAL ACHIEVEMENTS

Palau is a world leader in many conservation initiatives. These include the Palau Protected Areas Network, the Palau National Marine Sanctuary⁴ and creation of the world's first "shark sanctuary" in 2009. The shark sanctuary protects sharks across 600,000 km² of ocean. The Protected Areas Network includes marine and terrestrial protected areas and helps to ensure the long-term sustainable use of natural and cultural resources. Local communities are empowered to undertake scientific and social assessment of their local network environments and the

network also supports traditional systems of natural resource management. To date, 35 protected areas have been designated, including reefs, lagoons, mangroves and a sardine sanctuary. In 2015, the Palau National Congress designated 457,077 km² of Palau's ocean as a fully protected national marine sanctuary. This elevated Palau as a global leader in efforts to establish "no-take" marine protected areas, where all extractive activities such as fishing, and mining are prohibited. The Palau National Marine Sanctuary (PNMS) now makes up 80 per cent of Palau's territorial waters.

 $^{4 \}qquad \text{https://www.futurepolicy.org/oceans/palaus-protected-areas-network-act/} \\$

2. GUIDING PRINCIPLES

This NEMS is guided by five key principles, which are: leadership and good governance; collective responsibility for the environment; indigenous knowledge, practices and innovations;

integration of environmental protection and development, and gender and social equity.

2.1 LEADERSHIP AND GOOD GOVERNANCE

The Palauan Government will lead efforts to protect, manage and promote the sustainable use of the country's environment and its natural resources. This implies upholding good governance practices of transparency, accountability, shared responsibility, and equity in the consideration of environmental requirements in development practices. It respects everyone's right to a clean and healthy environment. It also recognises key principles for respecting the needs and capacities of the natural environment such as the precautionary, polluter pays and carrying capacity principles.

The Precautionary Principle proclaims that "In order to protect the environment, the precautionary approach shall be widely applied by States according to their capabilities. Where there are threats of serious or irreversible damage, lack of full scientific certainty shall not be used as a reason for postponing costeffective measures to prevent environmental degradation".⁵

The Polluter Pays Principle means that populations are justly responsible for the waste and pollution they generate either directly or through payments for the available mitigation and management services.⁶ The principle extends to society's responsibility to pay for the programmes that help to replenish, restore, and rehabilitate natural resources and the environment that were exploited or degraded through past development activities.

The Carrying Capacity of a region, comprising its supportive and assimilative capacities, is defined as the ability to produce desired outputs from a constrained resource base to achieve a higher and more equitable quality of life, while maintaining desired environmental quality, and ecological health.⁷ Development should respect the limits of the carrying capacities of its hosting environment if it is to achieve a more sustainable pathway.

⁵ United Nations (1992). Rio declaration on environment and development



⁶ OECD (1992). The polluter-pays principle: OECD analyses and recommendations. 49pp.

⁷ Khanna et al. (1999). Carrying-capacity as a basis for sustainable development a case study of National Capital Region in India. Progress in Planning 52 (2), 101-166.

2.2 COLLECTIVE RESPONSIBILITY FOR THE ENVIRONMENT

Protection, management and sustainable use of the environment and its goods and services are generally accepted as everyone's responsibility. This is carried out at the individual and collective levels. This principle recognises everyone has a responsibility

for the environment. It also recognises the relevant roles and influences that all sectors and institutions of society have in contributing to the protection and management of the Palau environment and its goods and services.

2.3 INDIGENOUS KNOWLEDGE, PRACTICE, AND INNOVATION

Palau has developed valuable indigenous knowledge and practices. These can contribute positively to the sustainable use and effective management of natural resources and the

environment. These traditions and practices are also important elements of Palauan culture and heritage that form national identity.

2.4 INTEGRATION OF THE ENVIRONMENT AND SUSTAINABLE DEVELOPMENT

This principle recognises that environmental protection can complement sustainable development. It recognises the challenges in balancing the needs of the environment and the development needs of human society in Palau. It is vital that economic and physical development is linked with environmental protection, to facilitate long-term sustainability. This principle

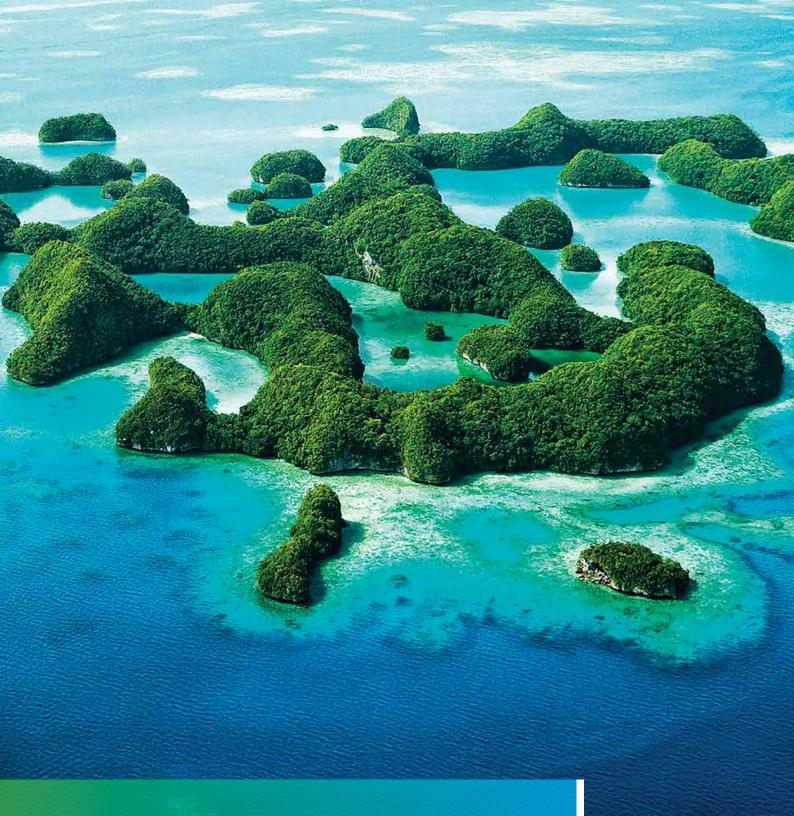
emphasises the importance of credible scientific information to support the integration of environment protection into development planning and implementation. It also recognises appropriate value systems of the people of Palau that promote the integrity of the environment.

2.5 GENDER AND SOCIAL EQUITY

It is critical that selective, adverse environmental impacts on vulnerable people are eliminated. This can be achieved through increased active participation in biodiversity protection and ecosystem and environmental management by women, and in decision making bodies and through cross-sectoral approaches.

Gender and social considerations must also be considered in ecosystem valuation, budget, and planning reviews using gender disaggregated data to ensure that all groups benefit equitably from investments in ecosystems and the environment.





3. NEMS STRATEGIC DIRECTIONS

THEME ONE: CLIMATE CHANGE

3. NEMS STRATEGIC DIRECTIONS

THEME ONE: CLIMATE CHANGE

BACKGROUND

Palau, like many other Pacific Islands, is particularly vulnerable to the impacts of climate change, principally from sea level rise and an increased frequency of extreme weather events (particularly flooding, and Category 4 and 5 typhoons). Sea level rise threatens vital infrastructure, settlements, and facilities that support the livelihoods of island communities. Ocean warming and acidification will heavily impact coral reefs, fisheries, and other marine-based resources crucial to local livelihoods, economy and culture. Climate change impacts are also predicted to exacerbate the existing adverse impacts from soil erosion, saltwater intrusion, flooding, and disease and pests to national forestry and agriculture. Risks and impacts vary by location and habitat. Land and coral reefs on Palau's exposed east coasts and northern peninsula and islands have seen the most severe impacts from typhoons, and seagrass beds on the west coast are facing the cumulative impacts of extreme-weather driven erosion. National climate change responses are focused on adaptation, mitigation and risk management climate change strategies for natural environments and human settlements and infrastructure and are also included directly and indirectly across many other NEMS thematic areas.

NEMS STRATEGIC FOCUS AREAS

- 1.1 Strategic planning for climate change impacts
- 1.2 Adaptation to Climate Change impacts
- 1.3 Climate finance mechanisms

- 1.4 International advocate for climate justice
- 1.5 Transition to renewable energy
- 1.6 Reduction in Greenhouse Gas emissions
- 1.7 Reduction in use of Ozone Depleting Substances

NEMS Ac	etions	Targets	Performance Indicators	Key Implementors and Partners
1.1.1	Inclusive strategic and spatial planning for climate change impacts link national and international policies to state plans	National strategy for climate change adaptation, mitigation and disaster risk management implemented, minimising impact to the environment through maximising Nature-based Solutions	National plan completed and endorsed by the Palau Government by 2025	OCC States/State Planning Commissions
1.1.2	Update Disaster Framework and Contingency Plans	All aspects of climate assessment and preparedness planning is socially equitable and inclusive, and risks like fire, landslides, and flooding are minimised	Climate and disaster risk modelling, maps, and planning is inclusive of gender and social vulnerability	OCC NEMO
1.1.3	Holistic Climate Change science	Science on human and environmental dimensions of climate change guiding national policy and planning is locally relevant	Locally relevant climate science is continually generated to guide and update national planning initiatives	OCC PICRC (marine) BNM (land)
1.1.4	Define Vulnerable People and mainstream their specific risks and needs into plans	Adaptation, resilience, disaster risk, and mitigation plans are inclusive and benefit the most vulnerable	Specific strategies for agreed vulnerable groups	OCC, MHRCTD, MHHR, MOF, MAFE, MOJ

⁸ Government of Palau (2010). National disaster and risk management framework 2010 (amended 2016). 67pp.

⁹ Republic of Palau (2015). Intended Nationally Determined Contribution. November 2015. Office of the President. 5pp

¹⁰ Miles, W., Z. Grecni, E. Matsutaro, P. Colin, V. Keener, Y. Golbuu, et al., (2020): Climate Change in Palau: Indicators and Considerations for Key Sectors. Report for the Pacific Islands Regional Climate Assessment. Honolulu, HI: East-West Center, https://www.eastwestcenter.org/PIRCA-Palau

NEMS Actions		Targets	Performance Indicators	Key Implementors and Partners
1.2.1	National adaptation actions continued	Adaptation outcomes prioritised in environmental, agriculture, food security, public health, disaster management, and infrastructure programmes; protected areas gaps filled, and high-risk areas and habitats prioritised	Implemented programmes increase national adaptation capacity and priority coastal habitats provide climate services	OCC MAFE
1.3.1	International climate finance secured and channelled to communities	Vastly increased Climate Finance secured to implement national, state, and community adaptation and mitigation projects	International resources accessed to implement low- emission and climate- resilient projects and programmes	OCC MAFE
1.4.1	Continued visibility in international climate negotiation fora	Key climate information concerning international responsibility for Palau's future is made obvious to international delegates, with increasing support for adaptation funding and Loss and Damage	Palau continues to have an impact in international Climate negotiations	OCC MAFE Office of the President
1.5.1	Electricity generated through renewable technologies	100% of power generation through diversified renewable resources by 2032	Annual increase in renewable electricity generation rates	OCC PPUC Palau Energy Administration (MPII)
1.6.1	An economy wide reduction in GHG emissions particularly through energy, transportation, and waste sectors	22% reduction in energy sector GHG emissions compared with 2005 levels by 2025	Annual reduction in national GHG emissions	OCC
1.6.2	A reduction in national energy consumption	30% reduction in overall national energy consumption by 2025	Annual reduction in national energy consumption	OCC PPUC
1.6.3	Fuel use reduction in the national transport sector	Fuel use reduction in the national land and sea transport sector	Annual fuel use reduction in the transport sector	OCC PPUC MPII
1.6.4	Set up carbon sequestration and ecosystem services schemes to offset carbon using Palau's carbon calculator.	Palau is a carbon neutral tourist destination and high sequestering habitats such as mangroves, forests, and seagrass are protected or restored	Tourists offset carbon emissions by funding national carbon sequestration initiatives	BOT PVA MAFE
1.7.1	Minimisation of annual imported quantities of HFCs	Reduction in annual HFC importation rates	HFC consumption reduced by 40% of baseline quantities by 2024 ¹¹	EQPB

¹¹ Baselines will be calculated from past HCFC consumption baselines plus HFC consumption in 2020-2022. (Kigali Amendment, 2016)



THEME TWO: LAND MANAGEMENT AND FOOD SECURITY

BACKGROUND

Land management is broken into two categories: 1) Protected/Conservation areas, and 2) sustainable land management, targeting all other lands outside of protected areas. Many protected areas fall under Palau's Protected Areas Network (PAN) and are recognised internationally. 12 In 2019, there were 61 protected areas, 20 of which included a terrestrial element and 15 of which had some mangrove. Sixteen terrestrial and nine mangrove protected sites were in the PAN. This included 22 km² of mangrove forest (approximately 46% of Palau's total mangroves) and 90 km² of terrestrial habitat (approximately 22% of Palau's total terrestrial habitat). Approximately 25% of Palau's land area, mainly on the island of Babeldaob, is moderately to steeply sloping grasslands which are susceptible to soil erosion and fire. The cycle of burning and erosion degrades the land and has deleterious effects on low-lying areas, surface water sources, mangrove forests, the lagoon, and eventually, coral reefs. 13 Palau has prioritised achieving food security by 2030. Governance and technical issues hamper food security and the development of the agriculture sector in Palau. These issues include a lack of coordinated land-use planning, issues with land tenure, presence of invasive species, high costs and risks, and high labour and soil inputs needed to increase soil fertility. Agricultural development in Palau requires a coherent and long-term strategy that is owned and institutionally supported by the various organisations involved in the sector. 14 The island of Babeldaob is a priority for development, which is currently occurring without any land use planning and leading to loss of natural habitats such as forests. An estimated total of 2,800 tons (2.8 million kg) of ordnance was dropped or fired on Palau during the Second World War and are an ongoing environmental and human health hazard. 15 Only a fraction of the explosive remnants of war have been removed from the landscape. 16

NEMS STRATEGIC FOCUS AREAS

- 2.1 Land use planning and zoning
- 2.2 Food security
- 2.3 Protection of water supplies
- 2.4 Soil management
- 2.5 Forest management
- 2.6 Expansion and management of PAN
- 2.7 Savannah grassland management
- 2.8 Coastal vegetation management
- 2.9 Clearance of Explosive Remnants of War (ERW)

NEMS Actions		Targets	Performance Indicators	Key Implementors and Partners
2.1.1	Integrated land use planning and zoning	Sustainable development of land for agriculture, settlement, and commercial and tourism enterprises	State Master Plan for equitable and integrated land-use planning and sustainable land use	PALARIS States / State Planning Commissions
2.1.2	Increased access to land resources	Public access to land and water resources increased	Expansion of equitable public leasing programmes across Palau	State Public Land Authorities MAFE
2.1.3	Sustainable Land Management (SLM)	Home, commercial, tourism, and agricultural development proceeds with minimal impact on the environment	Decreasing sedimentation and loss of habitat due to development and maintained permeability in developed areas	EQPB MAFE

¹² Republic of Palau (2016). Protected Areas Network (PAN) Status Report 2003-2015. 29pp

¹³ Republic of Palau (2000). National report to the United Nations Convention to Combat Desertification. 4pp.

¹⁴ ADB (2017). Private sector assessment for Palau: Policies for sustainable growth revisited. 69 pp.

¹⁵ https://www.mineactionreview.org/assets/downloads/Palau_Clearing_the_Mines_2017.pdf

¹⁶ Stuart Raetz (2017). Survey and Clearance of Explosive Remnants of War (ERW) Final Evaluation (Final Report). Cleared Ground Demining (CGD). 44pp.

NEMS A	ctions	Targets	Performance Indicators	Key Implementors and Partners
2.2.1	National agriculture strategy	Food production tripled by 2030	Annually increased yields of local vegetable and root crops, fruit and livestock production ¹⁷	MAFE BOA
2.2.2	Local sustainable organic food production	Local organic food production increases	Increasing number of organic certified foods, farms, and products	MAFE BOA
2.2.3	Agricultural biodiversity preservation	Best practice agriculture implemented	Farming practices prioritise agrobiodiversity conservation	MAFE BOA PCC-CRE
2.2.4	Prevention and control of invasive alien species and invasive species	Biosecurity keeps new invasive alien species out of Palau and invasive species control minimises spread	Invasive species control enables increasing fruit production	MAFE BOA MAFE BOE
2.3.1	Protection of high-quality agricultural soils, soil enhancement, and erosion control	Productive soils are maintained and increased	Soil management, amendment, carbon sequestration, and erosion controls implemented	MAFE BOA EQPB
2.4.1	Protection of water supplies	Water supply quality and quantity maintained or improved through integrated hydrological planning	Best practices followed in agriculture, forestry, aquaculture and in waste and wastewater disposal	MAFE PPUC EQPB
2.5.1	Protection of forests	Forests managed sustainably for multiple outcomes	Forest resources managed to protect biodiversity, water supplies and cultural significance	MAFE BNM
2.5.2	Forest monitoring and restoration research	Research and monitoring guides sustainable forest management	Terrestrial monitoring protocol for PAN sites is developed and implemented	MAFE BNM
2.6.1	Expansion of Protected Areas Network (PAN)	All key terrestrial habitat types and 30% of terrestrial resources represented in PAN by 2030	Beach strand, raised coralline atoll, swamp forest, and bird aggregation sites added to PAN by 2025 18	MAFE PAN Office States
2.6.2	PAN Enforcement	Ecological integrity and biodiversity protected in PAN	National Enforcement officers and PAN Rangers enforce relevant State and National Laws	MAFE PAN MOJ States
2.7.1	Management of fire in Savannah landscapes	Risk of wildfire impacts minimised	Fire-degraded lands are rehabilitated	MAFE PAN MOJ (Bureau of Public Safety)

OOC commitment
NEPC (2019). 2019 State of the Environment Report, Republic of Palau. National Environmental Protection Council (NEPC), Government of Palau: Koror, Palau.

NEMS Actions		Targets	Performance Indicators	Key Implementors and Partners
2.8.1	Management and conservation of mangrove forests	Areal extent of mangrove forested area remains stable	Increasing use of Nature- based solutions for climate adaptation and shoreline protection	MAFE PICRC BNM
2.8.2	Coastal re-planting programmes	Shorelines protected from wave action	Shoreline revegetated with appropriate species (e.g. Casuarina, Scaevloa)	States
2.9.1	ERWs removed from the landscape	All ERWs removed from the landscape and from shallow waters	Ordinance removal programmes active across Palau	MOS





THEME THREE: NEARSHORE MARINE MANAGEMENT

BACKGROUND

Nearshore marine areas include all water habitats from the shoreline to 100 meters depth and fall under the jurisdiction of Palau's 16 State Governments. Uses in the nearshore vary, but fisheries and gleaning are essential activities across Palau. Palau's marine environment is highly diverse, allowing for multiple competing uses, including fishing, tourism, aquaculture, extraction, cultural practices, biodiversity conservation, transportation, and climate resilience all in the same places. Palauan waters support more than 350 species of hard coral, 200 species of soft coral, over 300 species of sponges and more than 1,300 species of reef fish. Considered one of the "Seven Underwater Wonders of the World," Palau has the highest levels of marine and terrestrial biodiversity within Micronesia and is on the north-eastern margin of the Coral Triangle which has the highest diversity of shallow-water marine species in the world. This includes Koror's Rock Islands Southern Lagoon and its marine lakes which is a World Heritage Site and home to stingless jellyfish that have evolved in these unique ecosystems. In 2015, 1,331 km² of nearshore marine habitat (46% of Palau's total nearshore marine area) was protected within the PAN.

The Koror Southern Lagoon is a vast 859 km² coral reef environment with the famous Rock Islands World Heritage Area and the Koror urban area nestled within the lagoon. Koror's urban area is home to 65 per cent of Palau's population such that the reefs are intensely fished.²² Artisanal fishing occurs for subsistence, small-scale commercial, and sport fishing. Because of the Rock Islands, the area is Palau's main tourism hub. Tourism activities, mainly diving and snorkelling, are concentrated in the Rock Islands, contributing to a decline of fish abundance that has been noticed and reported by fishermen, and local and regional authorities. Recent studies continue to show a decline. This trend is further exacerbated by a nationwide change from traditional subsistence fishing to commercial fishing, changes from a historic "reef assignment" system to an open-access fishery, and with other drivers influencing fish demand and consumption.²³ Much of Palau is located in a lagoon, and current patterns vary widely. In some locations, sediment and pollution from land linger, leading to long-term negative impacts.

NEMS STRATEGIC FOCUS AREAS

- 3.1 Data collection, sharing, and feedback systems
- 3.2 Marine spatial planning
- 3.3 Nearshore fisheries management Improve status of nearshore fisheries (finfish and invertebrates) and increase value of fisheries products
- 3.4 Aquaculture Management
- 3.5 Marine Protected Area management and expansion
- 3.6 Mangrove management
- 3.7 Coral Reef management
- 3.8 Tourism outside of Koror (Babeldaob, Outer Islands, and offshore)
- 3.9 Improved management of Koror's World Heritage Site
- 3.10 Management of marine water quality
- 3.11 Protection and maintenance of marine biodiversity

NEMS Actions		ons	Targets	Performance Indicators	Key Implementors and Partners
	3.1.1	Conduct Stock Assessments (finfish and invertebrates, including in mangroves)	Understanding of standing stock and level of harvesting that leaves the stock viable	Biomass, Population, SPR for commercially important species and protected species by location (Fisheries- independent data)	BOF, PICRC, NGO partners Regional partners like SPC

¹⁹ Republic of Palau. (2002). National Report to the World Summit on Sustainable Development. Office of Environment, Response and Coordination. Office of the President of the Republic of Palau.

²⁰ Hinchley et al. (2007). Biodiversity Planning for Palau's Protected Areas Network. TNC Pacific Island Countries Report No 1/07. 80pp.

²¹ Republic of Palau (2016). Protected Areas Network (PAN) Status Report 2003-2015. 29pp

²² Office of Planning and Statistics ROP 2022

²³ Gouezo et al. (2021). Koror Southern Lagoon Coastal Fisheries Management Plan 2021. Palau Conservation Society. 109pp.

NEMS A	ctions	Targets	Performance Indicators	Key Implementors and Partners
3.1.2	Conduct Harvest Assessments	Understanding of current harvesting by species, location, method, etc. and influences in harvesting (finfish and invertebrates)	Fisheries-dependent data — estimate of catch per year by location and sector for commercially important species	BOF, RARE, NGO Partners, Business industry, SPC
			Estimates of IUU fishing for protected species	
3.1.3	Conduct Market Assessments and Analysis that leads to improved	Gaps in market aspects of fisheries are filled, such as target prices, incomes	Market Assessment report	BOF, NGO Partners, MOF, SPC
	marketing, pricing, and livelihoods	Ocean climate risk and sequestration data used to inform financing	Sequestration values determined	
3.1.4	Establish and improve Data sharing and feedback systems	Data used to manage harvest levels and pricing	Thresholds for action established	BOF, PALARIS, NEPC, SPC
3.2.1	Conduct Nearshore Marine Spatial Planning (MSP), incorporating Traditional Knowledge, Spatial Data, and Best Available Data	Data for territorial waters (12 miles) increased and marine habitats zoned/planned for multiple uses including food security, economic uses, and cultural and social uses	100% Sustainable Ocean Plan, with policies and processes for adaptive management, developed and adopted Marine spatial plans included in state master plans	MAFE
3.3.1	Manage Spawning and Aggregation sites	Spawning and aggregation sites protected (fully or seasonally)	Critical spawning sites mapped Rules and regulations for closure and seasonal access passed	MAFE, PICRC, NGO Partners
3.3.2	Develop and adopt National and Regional Fisheries Plans for Kiukl, Despedal, Outer islands. Adopt and implement Koror Fisheries Plan; Update Northern Reefs Plan.	Fishery zones, SPR/sizes, harvest levels, Rules, Regulations, Best Practices, etc. set and adopted	At least 5 Coastal Fisheries Plans adopted Scientifically defendable catch limits established	States, MAFE BOF and BOE, NGO Partners
3.3.3	Monitor nearshore fisheries (fishery, not fish)	Sustainable harvest regimes identified and fisheries-dependent and fisheries-independent data collected and analysed	System/Framework in place so that national fisheries data feeds into annual Fisheries Plans and licensing, registration system, etc.	PICRC, BOF, NGO Partners, SPC
3.3.4	Update nearshore fisheries regulations; establish licensing and permitting system (business permitting and fishing licenses)	Coastal fisheries regulated to ensure sustainable catch according to Fisheries Plans	A licensing and reporting system for management implemented and enforced	MAFE, BOF

NEMS Ac	tions	Targets	Performance Indicators	Key Implementors and Partners
3.3.5	Train and build capacity for fisheries management and enforcement	Coastal fisheries enforcement programme improved Fisheries monitoring and management feeds back into fisheries plans and informs adaptive management	Resources available to allow routine fisheries monitoring and control operations in inshore waters	MAFE, BOF, States, PAN, PICRC, NGO Partners
3.3.6	Increase Fisheries awareness, including awareness about traditional knowledge and traditional practices	Public support maintained for inshore fisheries management and regulation	A fisheries awareness programme is in place	BOF, NGO Partners
3.3.7	Provide Extension services to develop fishery-based livelihoods, and assist with Standard Buys, Market Development and fisher access to markets, and Risk Reduction	Fisheries cooperatives and associations able to negotiate lower costs, higher incomes, better plan for supply and demand	Supported Fisheries Cooperatives or Associations in place, with higher incomes and lower risks	BOF, NGO Partners, MOF
3.3.8	Stabilise and optimise supply and demand	Systems in place to determine demand for nearshore fishery products by location and season, and systems in place to produce and distribute supply to meet demand	Increasing number of connections/agreements between fishers and buyers	BOF, NGO Partners, MOF
3.3.9	Track and promote High Value Fishery products "From Hook to Fork" along a transparent and fair value chain	Fishery tracking systems (apps) track fish and communicate the provenance of fishery products (including stories about the producers)	Nearshore fishery products fetch premium prices and those prices are returned to producers Consumers have increased appreciation and paying more for fishery products and producers (men and women)	BOF, NGO Partners
3.4.1	Update and modernise the National Aquaculture Policy	Policy document developed and adopted in line with marine regulations	Policies agreed between private sector development and public sector support and subsidies, with agreed policies for support for food security versus export and livelihood development, and policies to ease access to capital	BOF, NGO Partners, Aquaculture Business Sector, SPC
3.4.2	Plan for and provide extension services to support expansion of aquaculture (species types and amount)	A 300% increase in aquaculture production for food	Locations for aquaculture identified and agreed	BOF

NEMS A	ctions	Targets	Performance Indicators	Key Implementors and Partners
3.4.3	Stabilise, diversify, and decentralise supply of aquaculture seedlings	300% increase in seedling production from an increasing number of suppliers	Increasing number of suppliers, number of species, and total number of seedlings produced per year; with decrease in loss due to climate or other risks; with collaboration between government and private sector	BOF, NGO Partners, Aquaculture Business Sector
3.4.4	Protect and enforce aquaculture property. Clarify farm ownership status and enforcement capacities in nearshore marine waters.	Theft and poaching of aquaculture farms eliminated	Public sector policies and practices in place to deter and enforce poaching	MAFE, MOJ, States
3.4.5	Identify and access increasing number and diversity of export markets for cultured clams	Increasing export of clams with increasing improvements of farmer livelihoods (in line with national food policy)	Capacity to profit from international markets increased.	MAFE, MOS, MOF, NGO Partners, Businesses
3.4.6	Establish an institutionalised training and capacity building programme for private sector participants	Training in aquaculture best practices, business skills, risk management, writing and capacity to access financial capital	Increasing number of trained participants actively engaged in aquaculture	NGO Partners
3.5.1	Continue regular monitoring, conduct another round of PAME, and consistently use data to assess targets and adapt management	Updated PAN Status report feeds into annual PAN planning and strategies Annual monitoring reports for each site with recommendations for management	PAN Status Report. Annual Reports/ Management Plan updates for MPAs PAN, NGO Partners	PAN, NGO Partners
3.5.2	Finalise PAN Strategy, to include marine spatial planning and spatial targets	PAN Strategy includes spatial, habitat, and species targets	Strategy document adopted	PAN
3.5.3	Increase number, size, and diversity of Marine Protected Areas	Micronesia Challenge 2030 target for sustainable management	Increased areas of channels, back and deeper reefs, reef flats, and sustainable use areas (e.g. to include aquaculture farms) and cultural sites protected as MPAs	PAN, States, NGO Partners
3.5.4	Enhance and stabilise PAN training programmes and certification programmes	Increase PAN Coordinator and Ranger capacity to manage sites, conduct surveys, adapt management enforce relevant laws, write reports, and seek independent funds	Increasing number of trained individuals. Increasing number of skills with training programmes	PAN, Koror, PCC, NGO Partners

NEMS Act	ions	Targets	Performance Indicators Key Implemento and Partners	
3.6.1	Align forestry and marine programmes on Mangrove Management	Mangroves systematically planned for, including for cumulative impact	Inclusion of mangroves in PAN, Land Use, and Marine Spatial Plans	MAFE, PCC, PICRC, BNM
3.6.2	Determine financial and ecosystem values of mangroves (and coral reefs), including food production, carbon storage, reducing climate vulnerabilities, cultural ties, and ecosystem services	Increased study and scientific data of mangroves informs management	Mangrove socioeconomic and biophysical reports	MAFE, NGO Partners
3.6.3	Establish Parameters and Standard Operating Practices (SOPs) for mangrove (and coral reef) management and restoration	Degraded mangroves and coral reefs restored to increase value	Scientifically-based documents with SOPs	MAFE, PCC, PICRC, BNM
3.6.4	Improve public awareness and appreciation for mangroves	Mangrove awareness programmes implemented	Increasing support for mangrove protection, fewer leases issued in mangroves	MAFE, NGO Partners
3.6.5	Understand status of Unexploded Ordinances (UXOs) in mangroves and rivers	Estimates and recommendations developed (capture knowledge of older generation)	UXO Assessment	MAFE, JICA, Japan Embassy
3.7.1	Conduct coral monitoring and research	Research and monitoring guides sustainable reef management	Regular Coral Reef status reports published	MAFE, PICRC, NGO Partners
3.7.2	Improve coral reef management for long-term resiliency	Coral reef planning includes long-term climate risks and resilience	Resilient reefs identified and sustainably managed	MAFE, PICRC, NGO Partners
3.7.3	Establish Parameters and Standard Operating Practices (SOPs) for coral reef management and restoration	Degraded coral reefs restored to increase value	Scientifically-based documents with SOPs	MAFE, PICRC, NGO Partners
3.8.1	Develop and promote new and unique marine tourism products outside of Koror's nearshore reefs, including for diving, cultural history, whale watching, sport fishing, kayaking, etc. to an increasingly diversified customer base	Each state has at least one marine-based tourism product	Increasing number of visitors to states outside of Koror	MAFE, MHRCTD, PVA, NGO Partners, Businesses

NEMS Ac	tions	Targets	Performance Indicators	Key Implementors and Partners
3.8.2	Update, enhance, and repeatedly offer Tour Guide Training Programs to maximise economic values, minimise environmental impacts, and correctly convey cultural and natural stories	Improve and standardise the delivery of Palau's marine tourism products Upgrade the experiences offered to more customers to generate high values per visitor	Increasing number of tour guides trained in an increasing number of skills and capacities "Certify the stories"	MAFE, PAN, Koror, MHRCTD, NGO Partners
3.9.1	Assist Koror State to maximise the potential of the Rock Islands Southern Lagoon as a World Heritage Site	World Heritage status promoted and mainstreamed Negative impacts on tourist sites minimised (e.g. Jellyfish lakes	Exit surveys indicate increased knowledge of World Heritage Status Increasing dollars due to World Heritage Status	MAFE, NGO Partners
3.10.1	Marine water quality monitoring	Marine water quality routinely assessed against internationally recognised guidelines	Monthly nation-wide marine water quality samples collected, analysed and reported	EQPB
3.10.2	Marine water quality management	Marine pollution plan developed and adopted Leaking vessels and other pollutants cleaned up, removed, or minimised	Regulations adopted	MAFE
3.11.1	Finalise and adopt updated Regulations for the Marine Protection Act	Regulations are comprehensive for multiple sectors	Regulations adopted	MAFE
3.11.2	Agree and adopt Marine endangered species regulations and list, in line with international agreements	Endangered species better understood and protected, in line with international commitments (e.g. CITES)	Scientifically-defensible List adopted	MAFE
3.11.3	Minimise and enforce poaching of protected species	Awareness, community buy-in, and enforcement of protected species improves	Improving Population and size status of endangered species	MOJ, PAN, States
3.11.4	Map and plan for high biodiversity sites	High Biodiversity Sites or High Value Marine Sites mapped and included in marine spatial plans with sustainable use or protection regimes	Increasing number of High Biodiversity areas protected via national or state plans	MAFE, PICRC, NGO Partners



THEME FOUR: OFFSHORE MARINE MANAGEMENT

BACKGROUND

Palau's offshore marine waters include waters deeper than 100 meters depth²⁴ out to the international border. Waters from 100 meters depth out to 12 nautical miles fall under the jurisdiction of Palau's 16 State Governments and serve the immediate food security, recreational, economic, and other needs of local communities and businesses. Locally owned and managed by each individual state, these waters are home to deep reefs, coastal habitats, and deep waters that are easily accessible and essential to daily life. Between 12 miles and 24 miles is an artisanal fishing zone, owned by the Palau national government and managed to benefit Palauan fishers for the purpose of local food security and economic security. The remainder of Palau's offshore marine waters form the Palau National Marine Sanctuary and its Domestic Fishing Zone, which are designed to support sustainable use or protection of multiple natural, social, and cultural resources.

The Palau National Marine Sanctuary Act (PNMS) was signed in October 2015 to set aside 80% of the country's Exclusive Economic Zone (EEZ) as a no-take Marine Protected Area while creating a Domestic Fishing Zone (DFZ) for the remaining 20%. With existing bans on mining and bottom fishing already in place and only whispers of potential fossil fuel stores, an offshore pelagic fishery is the only known extractive resource. The DFZ is open for commercial fishing for domestic fleets and negotiated bilateral longline and purse seine fleets. The Tuna Fisheries Commission of the Western and Central Region of the Pacific is managing the most sustainable tuna fisheries in the world, and as a result, most tuna stocks (including bigeye, yellowfin, and skipjack) in the region are not overfished nor is overfishing occurring. This indicates that the highly migratory tuna stocks found in Palau are likely in a healthy state. A goal of the PNMS Act was to support transition of fishing to a domestic fleet. Growth of a domestic fleet has faced barriers such as high fuel costs, emerging training needs, limited local demand especially for Grade A (Sashimi-grade) tuna, and lack of spatial planning to maximise use of productive fishing grounds. The Covid-related border closure in 2020 further delayed growth of a domestic pelagic fishing fleet.

Climate projections suggest a shift of the main regional tuna stocks eastward. Palau's EEZ faces ongoing threats from Illegal, Unreported, and Unregulated fishing (IUU) and other illegal activity.²⁶ Studies indicate the PNMS could be a rich area for whales, among other tourism uses.²⁷ The PNMS inspired the Palau Pledge and is a centrepiece in Palau's efforts to rebrand itself as a high-value sustainable ecotourism destination.

- 4.1 Administration and Coordination
- 4.2 Sustainable Domestic Pelagic Fishery
- 4.3 Safe and Secure EEZ
- 4.4 Communications, Information, and Awareness
- 4.5 Economic stability and branding
- 4.6 Maintenance of biodiversity and ecosystem functions

NEMS Act	ions	Targets	Performance Indicators	Key Implementors and Partners
4.1.1	Co-ordinated cross-sector management of the PNMS	Management of the PNMS based on an aligned and jointly implemented management strategy	Strengthen cross- sector administration, coordination, and joint planning capacities among agencies with PNMS mandates	MAFE, PICRC, MOJ, MOF

²⁴ Micronesia Challenge. (2006). MC Final Report: Micronesia Challenge Action Planning Meeting, December 4-7, 2006. Pp. 12.

²⁵ WCPFC. (2022). Overview of Stock Status of Interest to the WCPFC. https://www.wcpfc.int/doc/00/overview-stocks-interest-wcpfc

²⁶ MRAG Asia Pacific. (2016). Towards the Quantification of IUU Fishing in the Pacific Islands Region. Prepared for the prepared for the Pacific Islands Forum Fisheries Agency (FFA). 101pp.

²⁷ Andrews, Olive. (2013). Palau Marine Mammal Research Project Report. Whales Alive, Sustainable Decisions, and Republic of Palau. 33pp.

NEMS A	ctions	Targets	Performance Indicators	Key Implementors and Partners
4.1.2	Marine Spatial Planning	Sustainable management and protection of the EEZ achieved	Periodic review of jointly agreed Policy and Marine Spatial Plan (MSP)	MAFE, PICRC, MOJ, MOF, OOP, MHRCTD
4.1.3	Sustainable Financing	Long-term financing funds sustainable management of the PNMS	Financing for the PNMS reviewed annually and is equitably distributed	MAFE, PICRC, MOJ, MOF
4.2.1	Sustainable expansion of the local pelagic fleet	Sustainable local pelagic fishery meets food security demand and provides economic security	Capacity building to grow the number of locally based fleets/ fishers participating in the pelagic fishery	BOF
4.2.2	Regulation and enforcement of the offshore domestic and foreign fishery	Overfishing and Illegal, Unreported, and Unregulated (IUU) fishing prevented in Palau's EEZ through improved enforcement	100% Electronic Monitoring and Reporting and at least 5% observer coverage of the pelagic fishery Declining or zero overfishing or IUU fishing	BOF, Marine Law Regional Partners through SPC, PNA and WCPFC
4.2.3	Strengthened Pole-and- Line Fishery	Maintained and affordable supply of Skipjack for domestic consumption Maintained and affordable supply of baitfish	Increasing production and consumption of Skipjack	BOF, Marine Law State Governments (e.g. Koror, Airai, Ngatpang)
4.2.4	Implementation of Anchored Fish Attracting Device (aFAD) strategy	aFADs used to maximise domestic fishery potential Optimal number of aFADs determined	Number of operational and maintained aFADs hits optimal number and are used by fishers	BOF
4.3.1	Increase monitoring, control, and surveillance activities, both physically and digitally	Palau's EEZ managed and protected Optimal number of MCS missions determined	Number of MCS missions increases to optimal level	Marine Law BOF
4.3.2	International agreements expanded and maintained to protect Palau's borders	All illegal activity in the PNMS (including and beyond fishing) by international Actors reduced	Criminal and other illegal activities in the PNMS and EEZ reduced through bilateral agreements	Marine Law MOS
4.4.1	Communications and Engagement	Aligned communications products for the PNMS support management objectives	Communications and Engagement Strategy agreed and implemented by core partners	PICRC, MAFE, MOJ
4.4.2	Research management	Increasing information and data availability improves adaptive management of the PNMS	Research Strategy agreed and implemented by core partners. Research projects prioritised to address priority management imperatives	PICRC, MAFE

NEMS Act	ions	Targets	Performance Indicators	Key Implementors and Partners
4.4.3	Community awareness	Long-term public support for the social, cultural, economic, and environmental aspects of the management objectives of the PNMS maintained	Awareness and information campaigns on the management objectives of the PNMS routinely interpreted to public audiences	PICRC, MAFE
4.5.1	Improvement to Vessel Day Scheme Buy-back programme and other Licensing and Permitting schemes	Increasing or stabilised national income from the EEZ National income targets determined	National income meets targets	MAFE
4.5.2	Small business development	Increasing economic stability for Palauan's operating in the PNMS, and its food systems, tourism markets, or other connected sectors	Increasing number of viable small businesses dependent on, or linked to the PNMS registering and staying in business	MOF MHRCTD MAFE
4.5.3	Demand generation	Increased demand for pelagic fishery products drives increasing production, and stabilising supply and demand generates stable affordability	The Choose Pelagic campaign drives increased local consumption of EEZ caught pelagic fish	MAFE
4.5.4	Maintenance and growth of the Pristine Paradise Palau brand	The PNMS generates high- value tourism opportunities and drives tourism demand	Increasing dollar value of sustainable tourism in Palau	MHRCTD PVA
4.6.1	Offshore biodiversity maintained	Whales, sharks, and other protected species populations maintained Overall diversity maintained	Reduced bycatch and IUU catch of protected species	MAFE Marine Law
4.6.2	International negotiations reduce threats to offshore environments and maintain ecosystem functionality and other values	International threats to the PNMS including marine debris and Climate Change reduced	Signed international agreements provide support for marine debris and climate adaptation/mitigation	MAFE OCC Marine Law MOS



THEME FIVE: FRESHWATER MANAGEMENT

BACKGROUND

Freshwater is generally abundant in Palau through a network of surface streams. There are few groundwater sources. Streams on Babeldaob support diverse riparian and aquatic diversity, including 47 species of fish.²⁸ The Ngerdorch River drains from Lake Noardok (a Ramsar Wetland of International Significance and the largest lake in Micronesia) before it flows to the ocean on the east coast of Babeldaob. On the west coast of Babeldaob, the Ngermeskang River flows into Ngaremeduu Bay (a UNESCO Biosphere Reserve and the largest estuary in Micronesia), as part of the largest watershed in Palau. Both Ngardok Lake and Ngaremeduu Bay are protected by law as conservation areas; however, human disturbance, poaching, fire, unsustainable water usage, erosion, feral animals, and climate change all threaten the ecological integrity of these habitats.²⁹ Approximately 75% of the Palauan population (in urban areas of Koror and Airai) relies on Airai's Noerikiil watershed and the Noerimel Dam for freshwater. Many small water pumps pull water from small watersheds to feed villages around Babeldaob. Diversion of water to meet human needs (particularly during droughts) can lead to decreased river flows, which may potentially interfere with the lifecycles of aquatic organisms. Catchments within Palau watersheds are developed for a variety of purposes, ranging from private residences to agricultural lands. Very few of the watersheds above public water sources are protected or zoned to minimise impact. Most are seeing a growth in development and thus high levels of sedimentation and decreasing water quality. Water sources are covered by several sets of regulations that mandate 60-foot riparian buffers (on both sides) and prohibit development and sewer systems within a 300-foot radius of any water source. Nevertheless, sources of water pollution include sedimentation caused by poor erosion controls, loss of riparian buffers, and poor land use practices. 30 Construction of the National Highway (completed in 2006) and ongoing residential subdivision development released high sediment loads into rivers and bays, much of which has permanently settled into marine environments due to low flushing. Other sources of pollution including sewage and chemical pollution are believed to also be impacting catchment health but are unquantified.³¹ Estuarine areas provide important habitat for protection of threatened species including the estuarine crocodiles.32

- 5.1 Catchment management and protection
- 5.2 Freshwater supply management
- 5.3 Freshwater monitoring
- 5.4 Estuarine habitat protection
- 5.5 Freshwater lake protection

NEMS	Actions	Targets	Performance Indicators	Key Implementors and Partners
5.1.1	Water Catchment land use planning, zoning, and protection	Upper catchments and watersheds zoned, protected, or rehabilitated	Maintained or increased forest cover in watersheds above water sources	PALARIS MAFE PAN States/State Planning Commissions
5.1.2	Water quality and quantity protection	Development minimises impact on water supply	Permitted activities avoid adverse water resource impacts and point (especially dumps) and non-point source pollution sources minimised and rehabilitated	MAFE PPUC MPII

²⁸ Michael and Jaensch (2014). Directory of Wetlands of Palau. SPREP. 91pp.

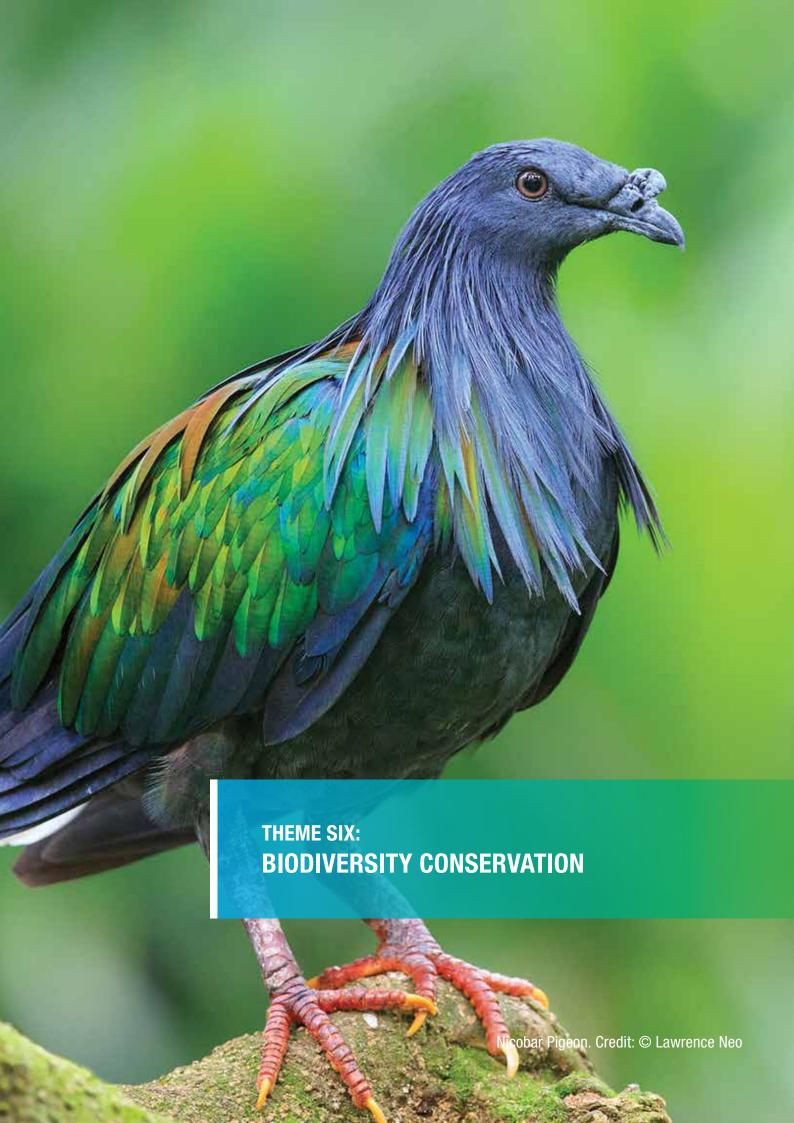
²⁹ https://www.palaupanfund.org/ngardok.html

³⁰ https://doi.org/10.1155/2011/981273

³¹ SOPAC (2007). National Integrated Water Resource Management Diagnostic Report PALAU. SOPAC Miscellaneous Report 642. 64 pp.

Michael and Jaensch (2014). Directory of Wetlands of Palau. SPREP. 91pp

NEMS	Actions	Targets	Performance Indicators	Key Implementors and Partners
5.2.1	Water Conservation	Potable and treated water sources used efficiently	Pre- and post-consumer actions minimise waste and loss of treated water	PPUC
5.2.2	Adequate provision of safe and resilient water, particularly vulnerable people	Clean potable water available to 100% of the population, including in the outer islands, even during natural disasters and times of stress	100% of homes, including new homes and subdivisions, have access to multiple sources of treated water	MPII PPUC
5.2.3	Irrigation supply planning and management	Irrigation water supplies available as needed to the agricultural sector	Irrigation demand modelled and managed to ensure delivery of adequate agricultural water supplies	MAFE BOA
5.2.4	Decreased coliform counts	Reduction in coliform contamination in potable water	Increasing conversion of septic tanks to sewer systems, and conventional piggeries to dry litter systems	MPII EQPB BOA
5.3.1	Freshwater quality monitoring	Freshwater quality routinely assessed against internationally recognised guidelines	Monthly river and lake water quality samples collected, analysed and reported	MAFE BOE EQPB PPUC
5.3.2	Freshwater hydrological research and monitoring	Freshwater supplies extracted sustainably	Baseline research and ongoing hydrological monitoring undertaken and reported; conservation systems triggered by water monitoring thresholds	MAFE
5.4.1	Wetland habitat protection	Estuarine habitats, swamp forests, mesei (taro patches), and wetlands maintained (no net loss) and populations of indicator wetland species maintained or increased (crocodile, purple swamphen, invertebrates, reptiles)	Regulations protect wetlands, with maintained wetland coverage	MAFE PAN Ngeremlengui, Ngatpang, and Aimeliik States
5.5.1	Freshwater lake habitat protection	Palau's two freshwater lakes (Ngardok Lake and Ngerkall Pond) are protected and managed in the PAN	Management Plans completed for Ngardok Lake and Ngerkall Pond	MAFE PAN Melekeok and Ngaraard States
5.5.2	Ngerimel Reservoir rehabilitated	Ngerimel Dam functions as a resilient source of water during droughts	Water storage in the dam increased	MPII PPUC



THEME SIX: BIODIVERSITY CONSERVATION

BACKGROUND

Palau's geographical and geological characteristics have allowed for extensive biodiversity development, with over 7,000 terrestrial and 10,000 marine species known to exist in the country. As a consequence, Palau has the most diverse terrestrial biodiversity in the Micronesia region and has one of the most biologically diverse underwater environments globally.³³ Habitats in Palau include tropical rivers, lakes, rainforests, estuaries, mangrove forests, seagrass beds, fringing reefs, barrier reefs and marine lakes. In 2012, the UNESCO World Heritage Committee approved the inscription of Palau's Rock Islands Southern Lagoon as a mixed natural and cultural World Heritage Site, partly on the basis of its high endemism rate and high biodiversity within a small area.³⁴

- 6.1 Endangered species protection
- 6.2 Invasive species management and control
- 6.3 Protected Areas Network expansion and management
- 6.4 Environmental reporting
- 6.5 Biodiversity mainstreaming

NEMS A	etions	Targets	Performance Indicators	Key Implementors and Partners
6.1.1	Endangered species regulations and agreements	Endangered Species Regulations completed, implemented, and enforced	Regulations Governing Endangered Species passed and CITES list agreed	MAFE Office of the Minister BNM
6.1.2	Regulatory framework for endangered and endemic species	Protected Life Act updated, Biosecurity Regulations, Marine Protected Act Regulations, and PAN Act Regulations updated to include new understandings of endangered and endemic species	Exemptions for endemic and endangered species removed from regulatory framework	MAFE OEK
6.1.3	Species Management Plans for threatened biodiversity completed and implemented, in line with national laws and international agreements	Viable populations of threatened species live in Palau	Species management plans developed for endangered and other priority species in line with Ramsar, CMS, CBD, Ramsar, and other commitments	BNM MAFE
6.1.4	Comprehensive biological inventory and assessment of all island ecosystems	Collected data used in an adaptive management framework to protect biodiversity	National BIORAP undertaken regularly	MAFE
6.1.5	Increased understanding of genetic biodiversity, and Access and Benefit Sharing systems established	Agrobiodiversity maintained and benefits from marine and coral genetic diversity accrued in Palau	ABS system agreed	MAFE

³³ Republic of Palau (2016). Revised National Biodiversity Strategy and Action Plan 2015-2025: Promoting Wise Development to Achieve Conservation and Sustainable Use of Biodiversity. 183pp.

³⁴ UNESCO (2012). Rock Island Southern Lagoon Puts Palau on the List of World Heritage Sites, http://www.unesco.org/new/en/apia/about-this-office/single-view/news/rock_islands_southern_lagoon_puts_palau_on_the_list_of_world_heritage_sites/

NEMS A	etions	Targets	Performance Indicators Key Implements and Partners	
6.1.6	Biodiversity priorities established for each island, with increased local and national awareness	Government and non- government organisations consulted on biodiversity priorities	Appropriate policies and legislation on ecosystems services formulated	MAFE
6.2.1	Prevention of the introduction and establishment of invasive species	Introduction or internal spread of invasive species prevented	Early detection of, and rapid action against new introductions of potentially invasive species	MAFE NISC MOJ Biosecurity
6.2.2	Impacts of existing invasive species minimised	Prioritised invasive species are controlled or removed	IAS management actions are identified and implemented through inventory, assessment, and prioritisation activities	MAFE NISC
6.3.1	Protected Areas Network (PAN)	PAN system expanded to include missing key habitats, enforcement improved at the National and State levels, and private conservation lands supported under PAN	National PAN Management Strategy and Action Plan implemented	MAFE PAN Office
6.3.2	High conservation sites protected	High Conservation Sites have improved biodiversity conservation and ecosystem health status	Under-represented ecosystems (mangroves, swamp forests are identified and protected in the PAN	MAFE PAN Office PICRC BNM States
6.4.1	State of the Environment Reporting	Regular review of national environmental status	SoE Report updated every five years	NEPC
6.4.1	Adaptive management	Monitoring systems feed into adaptive management systems	Increasing percentage of monitoring data analysed, reported, and acted upon to continually revise biodiversity priorities	BOE
6.5.1	Biodiversity conservation mainstreamed, including into tourism, cultural site protection, food production, and development	Coral reef and forest disturbances minimised at local scales	Sustainable carrying capacity ranges are established, determining acceptable levels of environmental, cultural, and community impacts	BOT PVA MAFE
6.5.2	Sustainable tourism	Sustainable tourism achieved through accreditation and audit	Eco-friendly tourism certification system implemented	BOT PVA MAFE



THEME SEVEN: WASTE MANAGEMENT

BACKGROUND³⁵

The management of solid wastes in Palau is overseen by the Bureau of Public Works (BPW) under the Ministry of Public Infrastructure and Industries (MPII) and Koror State Governments. Waste collection has been privatised and several small businesses collect waste from Koror and Babeldaob. The management of hazardous wastes falls under the mandate of the Environmental Quality Protection Board (EQPB). Koror State Government operates the Koror State Recycling Centre which hosts the National Redemption Centre (where recovered cans, glass and bottles are received and processed), the Energy Recovery Facility (where selected plastic types are converted to oil which is used as fuel to generate energy), a Composting Facility (which processes green waste to produce saleable compost) and a Glass Blowing Facility (where glass is crafted to other ornamental products). Used vehicles, tires and ULABs are collected at M-Dock and used oil is collected by PPUC at their facilities and sites.

Approximately 30,000 tonnes of waste are generated annually in Palau.³⁷ About 34 tons per day is generated in Koror and Babeldaob. Recent surveys have determined that on average, small urban households generate 0.90 kg of waste per household per day, regional areas 1.09 kg of waste per household per day and rural areas 0.68 kg of waste per household per day.³⁸ Waste generation for commercial premises was estimated to be 1.51 kg per premises per day. The largest component of the waste was organics (37%), with plastic waste contributing around 16% of waste volume. The 13-acre M-Dock Landfill was the national landfill located in Koror State which was operated for more than 50 years. It was replaced by a new landfill site in Aimeliik State in 2020, although M-Dock still has five more years of capacity left. Homes in Koror and Babeldaob have weekly garbage pickup, although commercial waste and larger items must be delivered directly. There were also ten community dumpsites operated by other States on Babeldaob Island that are now closed. Other landfills and dumps continue to be operated on every outer island, including a high priority site in Peleliu that drains leachate directly into mangroves.

- 7.1 Improved national waste prevention and management
- 7.2 Improved landfill operations
- 7.3 Recycling
- 7.4 Composting
- 7.5 Hazardous waste management
- 7.6 Disaster waste management
- 7.7 Marine Plastic

NEMS Act	ions	Targets	Performance Indicators	Key Implementors and Partners
7.1.1	Comprehensive waste minimisation and management	Palau Integrated Waste Policy and Action Plan (2017-2026) is fully implemented	Waste is prevented, reduced, and managed to minimise environmental and human health impacts	MPII Koror State
7.1.2	Improved waste management (collection, segregation, transfer, recovery and disposal) services provided in Koror and the Outer Islands	Palau Integrated Waste Policy and Action Plan (2017-2026) is fully implemented	All wastes are collected and managed to minimise environmental and human health impacts by 2025	MPII States

³⁵ Republic of Palau (2019). National Solid Waste Management Strategy: The Roadmap towards a Clean and Safe Palau (2017 to 2026). 62pp.

³⁶ Republic of Palau (2019). National Solid Waste Management Strategy: The Roadmap towards a Clean and Safe Palau (2017 to 2026). 62pp.

³⁷ APWC (2020). Palau – Waste Audit Report Analysis of waste generation, recycling and disposal data collected in November 2019. 165pp.

³⁸ APWC (2020). Palau – Waste Audit Report Analysis of waste generation, recycling and disposal data collected in November 2019. 165pp.

NEMS A	otions	Targets	Performance Indicators	Key Implementors and Partners
7.1.3	Improved international and national regulatory framework to prevent waste	Reduced importation of plastics and glass	Rules and financial mechanisms to reduce volume of plastic and glass that becomes waste	OEK MPII MOF (Customs)
7.2.1	National landfill continues to operate to international standards	Palau Integrated Waste Policy and Action Plan (2017-2026) is fully implemented	National landfill is climate proofed and 8 waste transfer stations in operation	MPII
7.2.2	Babeldaob State landfills closed and rehabilitated	Old landfills have negligible environmental impacts	Increasing number of old landfills closed, capped, rehabilitated and monitored	MPII
7.2.3	Outer island landfills managed	Outer island landfills meet sanitary standards, include segregation and pathways for recycling and hazmat disposal, are rehabilitated to reduce environmental and health impacts, or are compacted	Outer island landfill plans developed and agreed and an increasing number of actions implemented	MPII
7.3.1	National recycling programmes for plastic, metal, ULABs, paper, and E-waste	Palau Integrated Waste Policy and Action Plan (2017-2026) is fully implemented	All exportable recyclable waste is collected, separated, and sent offshore for recycling by 2025 Increasing waste-to-	MPII Koror State
7.3.2	Household segregation	Homes on Koror and Babeldaob recycle	energy conversion 100% of beverage containers, glass, paper, and recyclable metals used in the home are recycled	MPII
7.3.3	Scrap metal recycling	Pathways for scrap metal recycling determined and pursued	Agreements in place for scrap metal recycling	MPII
7.4.1	Organic waste composted	Organic wastes are separated and composted	Reduced organic waste entering landfills Increasing compost and biogas availability	MPII BOA
7.4.2	Food waste reduced	Less food wasted, and food that is wasted is composted	Reduced food waste entering the landfill	MAFE MHHS Council of Chiefs and Female Counterparts
7.5.1	Dedicated landfill storage areas for different waste types including hazardous wastes	Hazardous wastes, metals, tires, large plastics, etc. are separated and stored securely at the landfill prior to export	Segregated storage areas are in operation	MPII Koror State

NEMS A	ctions	Targets	Performance Indicators	Key Implementors and Partners
7.5.2	Medical and biological waste disposal	Biohazard wastes treated by high temperature incineration	High temperature two chamber waste incinerator operational	MPII MHHS
7.6.1	Disaster waste management	Disaster waste management equipment and sites available for emergency use	Disaster Waste Plan incorporated in the National Disaster Response Plan	MPII OCC
7.7.1	Plastic management	Waste plastic generation minimised	Executive Orders and laws on limiting singleuse plastics enforced nationally	MPII
7.7.2	Continued national visibility in international marine plastic negotiation fora	Key information concerning the impacts of marine plastic is made obvious to international delegates	Palau continues to have an impact in international marine litter negotiations and outcomes	OCC MAFE



THEME EIGHT: CHEMICAL MANAGEMENT

BACKGROUND

The EQPB functions as the manager of hazardous chemicals in the country in the absence of a designated office to deal with hazardous wastes.³⁹ Pesticide regulations are contained in EQPB Regulation Chapter 2401-33. Under the Pesticides General Prohibitions, banned, adulterated or mis-labelled pesticides cannot be imported, sold, or distributed in Palau. Small stockpiles of disused chemicals are known to be present in Palau. Specifically, contaminated sites exist at the M-Dock landfill and may also exist adjacent to the airfield where fire-fighting training exercises have been held.⁴⁰ Dielectric fluids in old decommissioned electrical transformers stored at PPUC facilities are contaminated with PCBs. Empty pesticide and AFFF containers and other wastes that are disposed of at M-Dock (Koror) and at smaller waste dumps in outlying States may have potentially contaminated these disposal sites with a range of pesticides and flame retardant chemicals.⁴¹ Monitoring of national air samples and human breast milk in 2010 and 2011 detected low concentrations of persistent organic chemicals including chlordane, dieldrin, DDT, HCB, PCBs, lindane, and TCDD.⁴² Most asbestos was removed from Palau, but some was left in older water pipes and still needs to be removed.

- 8.1 National chemical management strategy
- 8.2 Management of priority obsolete chemicals
- 8.3 Contaminated site management
- 8.4 Oil spill management
- 8.5 Management of other priority chemicals
- 8.6 Chemical monitoring and reporting

NEMS Ac	tions	Targets	Performance Indicators	Key Implementors and Partners
8.1.1	National Implementation Plan (NIP)	NIP in line with international agreements and conventions, and endorsed by Government	NIP is updated in 2022 to meet UNEP requirements	EQBP
8.1.2	Chemical inventory and import tracking system established	Types and quantities of hazardous materials in Palau established and tracked and aligned with international databases	All Import Logs backtracked, cross- referenced with Harmonised Codes, and database continually updated	EQPB Koror State MOF (Customs)
8.1.3	National chemical management strategy includes procedures and pathways for entry, stockpiling, and disposal	All chemicals imported into Palau are managed to protect the environment and human health, alert system working and effective, and capacity to manage chemicals increased	Legislation, regulations and protocols to control importation of all priority chemicals reviewed, updated and enforced Border alerts system established	EQPB Koror State MOF (Customs)
8.1.4	Mainstream chemicals management into national policies	Risks from chemicals minimised during disasters	Chemicals management mainstreamed into Climate Change and Disaster Risk plans	EQPB

³⁹ Republic of Palau (2019). National Solid Waste Management Strategy: The Roadmap towards a Clean and Safe Palau (2017 to 2026). 62pp.

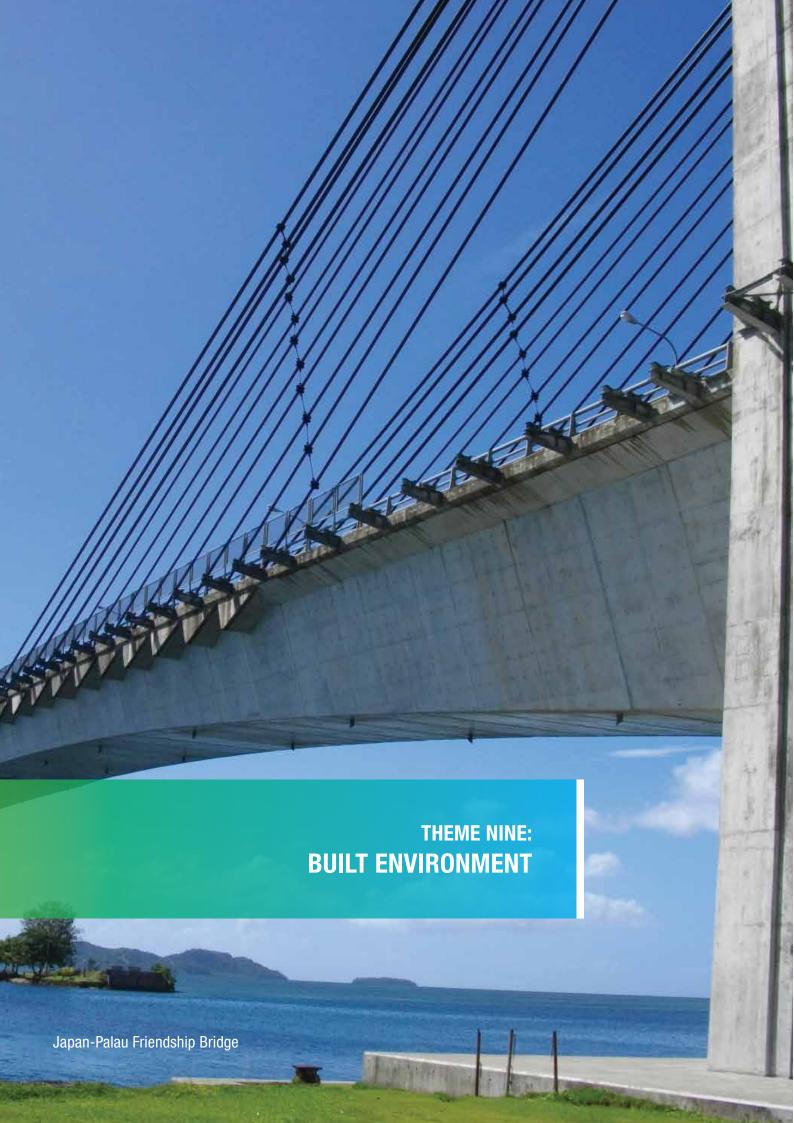
⁴⁰ Republic of Palau (2019). National Implementation Plan for Persistent Organic Pollutants. 75pp.

⁴¹ GHD (2017). Pesticide Container Management in the Pacific Palau Baseline Survey Report. SPREP. 30pp.

⁴² United Nations (2015). Global monitoring Plan for persistent organic pollutants under the Stockholm Convention Article 16 on effectiveness evaluation. Second regional monitoring report Annex Asia-pacific region. 134pp.

NEMS A	ctions	Targets	Performance Indicators	Key Implementors and Partners
8.1.5	Capacity building to manage chemicals	Palau has local expertise in safely managing chemicals	Increasing number of trained individuals retained in Palau	EQPB
8.2.1	Illegal pesticides eliminated and used pesticide container management	Incidental pesticide loss to the environment minimised	Illegal pesticides no longer used and removed, and Used (empty) pesticide containers are safely recycled at the landfill	EQPB Koror State MPII
8.2.2	Polychlorinated biphenyl (PCB) management	All PCBs found, safely stockpiled, and removed from Palau	National inventory of PCBs completed	EQPB
8.2.3	Perfluorooctane sulfonic acid (PFOS) management	Expired AFFF stocks found, safely stockpiled, and removed from Palau	National inventory of AFFFs completed	EQPB
8.3.1	National management of contaminated sites	All potentially contaminated sites investigated and where necessary, remediated	Contaminated sites assessed, prioritised and remediated	EQPB MPII Koror State
8.3.2	Smaller rural landfills and contaminated sites remediated	Hazardous materials safely separated and removed, and contaminated soil removed from Palau	Increasing number of rural landfills (Babeldaob and outer islands) closed and rehabilitated	MPII Koror State
8.3.3	Airfield contaminated sites remediated	AFFF contaminated soil removed from Palau	Contaminated soil removed and shipped offshore for destruction	MPII
8.3.4	Efficient use of the M-Dock landfill	M-Dock site safely capped and managed	M-Dock closed in 5 years (or when full) and capped	Koror State MPII
8.3.5	Airai Landfill managed to reduce chemical runoff	Airai Landfill drainage and ventilation rehabilitated to minimise drainage of chemicals into Airai Bay	Airai Landfill capped and engineering solutions employed around margins	MPII Airai State
8.4.1	Illegal oil disposal and Oil spills managed and contained	Environmental damage caused by accidental or deliberate oil releases minimised	Finalise National Oil Spill Response Plan Increasing capacity to respond to oil spills	MPII EQPB
8.4.2	Existing oil spills and releases cleaned	Amount of oil in the environment reduced	Increasing number of leaking ships and old cars remedied	EQPB
8.5.1	Mercury management	National mercury management priorities identified, including mercury in the environment and from food sources, and existing mercury found, safely stockpiled, and removed	Minimata Convention Initial Assessment (MIA) completed	EQPB
8.5.2	Used battery management	Basil Convention Protocols implemented with prior consent	Increasing number of batteries removed from Palau	EQPB

NEMS A	ctions	Targets	Performance Indicators	Key Implementors and Partners
8.5.3	Fertiliser stockpiles managed	Fertiliser use minimises damage to downstream environments	Decreasing fertiliser use	EQPB BOA
8.5.4	Chemical sunscreen ban compliance and enforcement	No illegal sunscreens imported into Palau	Monitoring does not detect presence of illegal chemicals from sunscreens	MOF (Customs) Koror State Rangers
8.5.5	Other chemicals, including lead and asbestos, tracked and managed	Reduced environmental and health impact from chemicals	Decreasing sources of lead and asbestos	
8.6.1	Participation in the Global (Chemical) Monitoring Plan (GMP)	Inventory Data available on POPs and chemical concentrations in Palau in an accessible and updated database	Samples from priority national environmental matrices collected and analysed annually under the GMP	EQPB
8.6.2	Public health monitoring	Public health protected	Routine national monitoring of sewer and septic outflows, and pollution point sources (including landfills)	MHHS Division of Environmental Health (DEH)
8.6.3	Unintentional Persistent Organic Chemical (uPOPs) monitoring	Palau meets Stockholm Convention uPOPs reporting requirements	uPOPs data collected and analysed every five years (2023 and 2028), feeds into database, and leads to adaptive management	EQPB
8.6.4	National progress reports to the Stockholm Convention Secretariat	Palau meets Stockholm Convention reporting requirements	Stockholm reports submitted every four years	EQPB



THEME NINE: BUILT ENVIRONMENT

BACKGROUND

Development in Palau is guided by a vision of achieving "resilient and widespread improvement in general standards of living while preserving cultural and environmental values". And Palau has adopted an economic development strategy that is based on tourism, and prior to the COVID-19 pandemic, a boom in tourist numbers significantly impacted Palau's natural environments. Many of Palau's infrastructure and economic development activities are located near the coast, making them vulnerable to storm surges and sea level rise. However, many new developments are being built inland, where emerging risks arise from storms, fires, and landslides. At risk infrastructure includes power, telecommunications, sewer and water lines, and housing and public buildings. Development and population pressures also present environmental risks. All development and construction activities that involve movement of soil require an Earth Moving Permit, and research has determined that local river sediment yield increases strongly with increasing numbers of granted earth moving permits.

Catchments within Palau watersheds are developed for a variety of purposes, ranging from private residences to agricultural production. Approximately 75% of the Palauan population relies on the Ngerikiil watershed and the Ngerimel Dam for freshwater supply due to its proximity to the urban areas of Koror and Airai. Water supply systems outside of Koror-Airai are in poor-to-fair condition and service delivery standards are low with frequent water outages. The main source of watershed pollution is sedimentation caused by poor erosion controls, loss of riparian buffers, and poor land-use practices.⁴⁷ Other sources of pollution including sewage and chemical pollution.⁴⁸ Palau has a centralised domestic wastewater treatment plant located in Koror, although other islands have septic tanks, or composting toilets for wastewater management. The southern lagoon of Palau has composting toilet systems in at least five designated tourist area sites.

- 9.1 Climate-resilient building codes in line with land use planning and zoning
- 9.2 Water management
- 9.3 Improved sanitation
- 9.4 Reduce impacts from development and construction
- 9.5 Climate-proof sustainable infrastructure and construction program
- 9.6 Sustainable tourism

NEMS Acti	ions	Targets	Performance Indicators	Key Implementors and Partners
9.1.1	Land use planning	National information-based land use planning	Maintained, updated and improved PALARIS database used to ensure fact-based land use planning	PALARIS MAFE MOS BDA
9.1.2	Climate-resilient Building Codes	Environmental standards and climate resilience maintained or improved by built infrastructure	Building codes consistent with land use planning and zoning schemes enforced	MPII OCC

⁴³ Republic of Palau (2020). Koror-Babeldaob Island Resilient Urban Development Strategy and Action Plan. Volume I: Main Report. 78pp.

⁴⁴ Barr et al. (2016). Sustainable tourism pathways for Palau: findings and recommendations from a cross-sectoral workshop. Discussion Paper No 16, Conservation Strategy Fund. 26pp.

⁴⁵ Republic of Palau (2013). Second National Communication to the United Nations Framework Convention on Climate Change September 2013. 98pp.

⁴⁶ https://doi.org/10.1155/2011/981273

⁴⁷ https://doi.org/10.1155/2011/981273

⁴⁸ SOPAC (2007). National Integrated Water Resource Management Diagnostic Report PALAU. SOPAC Miscellaneous Report 642. 64 pp.

NEMS A	ctions	Targets	Performance Indicators	Key Implementors and Partners
9.2.1	Water supply planning	Babeldaob residents have access to adequate supplies of safe potable water	Feasibility of a consolidated water system for Babeldaob investigated	MAFE PPUC
9.2.2	Dam and infrastructure maintenance	Water storage infrastructure maintained and protected from saltwater intrusion	Routine maintenance of dams & infrastructure for ground water sources	MPII PPUC
9.2.4	Rainwater harvesting and storage	Best practice harvesting and storage of rainwater	Water tanks available for vulnerable people, including training and maintenance to raise water quality	MPII PPUC OCC
9.2.5	Water supply security	New pipes and new water storages for urban subdivisions	Water supply infrastructure outside of Koror expanded and upgrade water to meet demand	PPUC MPII
9.2.6	Disaster water supplies	Safe potable water supplies maintained during disasters and other emergencies	Back-up climate proof water sources (e.g. desalinisation &/or water tanks) for vulnerable people and communities	PPUC MPII OCC
9.3.1	Improved home sanitation	Sewage does not contaminate waterways, ground or lagoon water quality	Improve home sanitation (including garbage, disease vectors, invasive species vectors, leaking sewage systems, un- serviced septics)	MHHS DEH EQPB MPII
9.3.2	Improved sewage management	Sewage systems upgraded to minimise environmental impacts	Improve legislative and policy environment to enable and streamline enforcement requirements for home/household sanitation	MPII
9.3.3	Water and effluent monitoring	Trained technicians operate in certified local laboratories to detect chemicals and advise managers	Local laboratories have capacity to detect an increasing number of chemicals and biological parameters	MOE EQPB PCC
9.4.1	Urban pollution	Non-point source urban pollution minimised	Implemented standards, best practices, remedial works and education programmes reduce pollution from urban/built areas	EQPB MPII MAFE
9.4.2	Environmental Impact Assessment	All permitted developments are routinely monitored and compliance enforced	All development activities must undergo an EA/EIA and permitting process	EQPB

NEMS Ac	etions	Targets	Performance Indicators	Key Implementors and Partners
9.4.3	Cumulative impact management	All approved developments do not compromise local and historic environments	Acceptable cumulative impacts determined for locations and habitats (e.g. for mangrove filling)	EQPB
9.5.1	Climate-proof food delivery infrastructure	Food delivery infrastructure is climate-proof and secured against disaster risks	Climate resilient food supply infrastructure developed (including Central Market/Pelagic Fish Processing & Landing, Food distribution and Storage)	MPII OCC
9.5.2	Climate proof urban infrastructure	Sustainable accessibility on Babeldaob	Roads, drainage, utility services on Babeldaob climate resilient	MPII OCC
9.5.3	Urban amenity	Urban liveability for all residents improved	Urban infrastructure, sidewalks, native tree planting & beautification programmes implemented	OCC
9.6.1	Sustainable tourism	An expanded tourism industry (including Babeldaob) has no net impact on Palau's natural environment	Determine carrying capacities/target visitation numbers for sensitive habitats and locations	MHRCTD MAFE
9.6.2	Tourism industry expansion managed to protect Palau's natural environment	Sustainable tourism carrying capacity ranges are determined and enforced	Encourage, promote, regulate tourism facility development (e.g. hotels) that are in line with RTPF (eco-tourism, low environmental impact, high-end, niche)	MHRCTD
9.6.3	Biodiversity conservation prioritised in planning and development on each island	Island developments do not compromise national biodiversity	Biodiversity conservation mainstreamed in all aspects of National and State planning and development	MAFE BOE



THEME TEN: CULTURE, HERITAGE and AWARENESS

BACKGROUND

Palau is a cultured nation. As with all countries, cultural preservation and perpetuation is of prime concern to the development of Palau.⁴⁹ Palauan culture is closely linked with the environment, with biodiversity playing an important role in all facets of traditional Palauan life. Historically, plants and animals provided the natural resources needed for food, shelter, medicine, and all other aspects of Klechibelau, or "Palauanness." Traditional management practices, including the traditional institution of bul (moratoriums on the harvesting of targeted species), enabled Palauan's to create a sustainable balance between conservation and development.⁵⁰ The Palau National Marine Sanctuary (PNMS) is a modern adaption of this traditional conservation practice.⁵¹ While fishing and other uses of nearshore environments continue to be important, changing development trends and the growth of tourism are driving shifts in the Palauan way of life. As a result, not only have pressures on the natural and cultural environment increased, the nature and scope of these pressures has also changed.⁵² Of the more than 1,500 potentially significant archaeological sites identified in Palau, less than 15% have been assessed and entered onto the Registry of Historic Places.⁵³ Of the sites that have been registered, less than 20% have been restored or interpreted.



- 10.1 Traditional knowledge
- 10.2 Protection of Palauan heritage
- 10.3 Community education and awareness
- 10.4 Professional training and awareness

NEMS Act	tions	Targets	Performance Indicators	Key Implementors and Partners
10.1.1	Traditional knowledge and practices captured	Traditional knowledge and practices around agriculture, fisheries, agroforestry, forestry, biodiversity, and conservation compiled and disseminated	"Calendars" based on traditional timing methods for aquaculture, harvesting of marine and forest products and agriculture available	BCHP BNM MAFE
10.1.2	Traditional knowledge rights protected	Fair and equitable sharing of benefits arising from the use of traditional knowledge and genetic resources	National obligations under the Nagoya Protocol enforced	MAFE PCC-CRE
10.1.3	Traditional agriculture techniques and promotion	Sediment loads to marine environments reduced ⁵⁴	Increasing crop production using traditional practices, linked with increasing consumption of traditional foods	MAFE BOA

⁴⁹ Republic of Palau (2021). Palau National Infrastructure Investment Plan (2021-2030). 103pp.

⁵⁰ Republic of Palau (2016). Revised National Biodiversity Strategy and Action Plan 2015-2025: Promoting Wise Development to Achieve Conservation and Sustainable Use of Biodiversity. 183pp.

⁵¹ https://www.futurepolicy.org/oceans/palaus-protected-areas-network-act/

⁵² Republic of Palau (2016). Revised National Biodiversity Strategy and Action Plan 2015-2025: Promoting Wise Development to Achieve Conservation and Sustainable Use of Biodiversity. 183pp.

⁵³ Republic of Palau (2010). Mauritius +5 Status Report: Republic of Palau. ESCAP. 144pp.

⁵⁴ https://oceanservice.noaa.gov/news/jul14/palau.html

NEMS Ac	tions	Targets	Performance Indicators	Key Implementors and Partners
10.1.4	Traditional fisheries practices	Traditional fishing grounds (for men and women) recognised and zoned for fishing, and increasing use of traditional fishery practices	Food security linked to traditional fishing practices	MAFE BOF PICRC
10.1.5	Traditional knowledge and Traditional values celebrated and perpetuated	Traditional knowledge valued equitably as a source of data and information for managing Palau's environment and resources	Increased awareness and understanding of traditional knowledge and mainstreaming of traditional knowledge processes into plans and decision-making	MAFE BNM
10.2.1	Protection of Palauan heritage	Palau's natural and cultural heritage and cultural sites are documented, managed, and protected	The cultural management sector has adequate human and financial resources	BCHP
10.2.2	A rights-based approach is incorporated into land use planning and marine planning	Access to traditional fishing grounds, mesei, and traditional medicinal plants is protected	Plans increasingly incorporate a rights-based approach and a holistic viewpoint that considers genders and social groups	BCHP NEPC
10.2.3	Gender and social mainstreamed into planning and practices	Policies and practices that impact different genders and social unfairly are reduced	A cultural gender lens is incorporated into national and state plans	MOS Gender Office
10.2.4	Sustainable Cultural Industries perpetuated and expanded	Arts and Creative Industries that rely on locally sourced materials thriving and growing	Increasing availability of sustainably sourced and meaningful representative local products	BCHP PVA
10.2.5	Cultural tourism	Growing Cultural Tourism industry benefits local communities (financially, socially, culturally)	Increasing number of sustainably used tourism sites and tourism products that feature cultural artifacts or practices	BCHP PVA
10.3.1	Intangible heritage protected and perpetuated	Community organisations with a historic responsibility for sustainable resource use are supported and strengthened	Increasing number of active Cheldebechel (mens, womens, youth, elderly groups)	BCHP Council of Chiefs and Female Counterparts
10.3.2	Community awareness and training	Conservation capacity of residents and communities in Palau strengthened	Public awareness of, and active participation in the environmental decision-making process	MAFE PAN BNM PICRC
10.3.3	Environmental education connects youth and communities to their cultural identity and builds on the concept of Omengull (Respect)	Environmental education integrated into curriculum at all levels through the Ministry of Education, which values and balances modern science with traditional knowledge	School curriculum revised to incorporate climate change, environment, waste minimisation and disaster management modules, with respect for traditional knowledge and values	MOE BCHP PICRC BNM MAFE

NEMS Ac	tions	Targets	Performance Indicators	Key Implementors and Partners
10.3.4	Standardise and translate modern scientific and environmental terminology	Improved understanding of modern environmental concepts such as climate change	Priority terms translated	BCHP Palau Language Commission
10.4.1	Professional awareness and training	Public and government employees engaged in environmental management	Professionals incorporate environment protection principles in work activities	MAFE
10.4.2	PAN training programmes	Trained Officers manage PAN sites and other protected areas (including cultural sites)	PAN Coordinator and Ranger professional capacity increased to allow long-term PA management goals to be met	MAFE PAN BCHP
10.4.3	Cultural Statistics	Monitoring and Evaluation and Feedback systems are responsive to cultural context and needs	A set of Cultural Statistics is developed and mainstreamed into environmental plans	ВСНР
10.4.4	Capacity to test for chemicals	Trained technicians operate certified local laboratories	Water quality and chemical analysis training and certification course institutionalised at PCC	PCC



THEME ELEVEN: ENVIRONMENTAL GOVERNANCE

BACKGROUND

Responsibility for conservation and management of Palau's environment is held by a number of government agencies, both at the national and state level. State governments have constitutional authority over all land and water out to 12 miles. There is also a strong system of Traditional Leadership governance with active traditional management and governance over natural resource use and specific site management. Palau has a strong Semi-Government and Non-Government Organisation (NGO) sector that has accepted significant roles and responsibilities for environmental management. In addition to individual Ministries, the National Environmental Protection Council (NEPC) is a formally authorised cross-sector coordinating body consisting of multiple government agencies. Many stakeholder committees are mandated by laws or regulations, such as a PAN Management Committee, which includes community, state, NGO, and government representation. While capacity in the National Government is generally high, capacity at the State government and community levels needs to be strengthened. The status of governing bodies, official plans and policies, and implementation on the ground varies widely.

- 11.1 Sustainable Financing
- 11.2 Coordination, Monitoring, and Evaluation
- 11.3 Environmental Legislative Framework development and review
- 11.4 Environmental Policy and Strategy development and review
- 11.5 Capacity Building
- 11.6 Compliance and Enforcement
- 11.7 Stakeholder Engagement and Participatory Decision making
- 11.8 Gender and Social Inclusion Mainstreaming
- 11.9 Communications and Knowledge Management

NEMS Actions		Targets	Performance Indicators	Key Implementors and Partners
11.1.1	Increase or at least maintain the national annual budget and increase grant financing to support national environmental priorities	Increased achievement of national environmental objectives and obligations	Increasing total and diversity of national budget % of Micronesia Sustainable Finance Plan funded	OEK/ MOF/ MAFE
11.1.2	Increase the availability and diversity of grant opportunities and increase the capacity and eligibility of government agencies and non-government partners to access grants	Increasing number of agencies and partners are able to apply for, receive, and manage grants, including climate financing	Increasing number of grantees Increasing number of grant types Increasing amount of grants	NEPC / MAFE / MOF/ MOE / PCC
11.1.3	States are adequately resourced to undertake environmental management 55	Land and catchment management undertaken within a funded environmental management framework	Percentage of state master plans that are funded	MOS BDA State Governments

⁵⁵ Townsend (2007). Environmental Review and Stock-take Report. ADB. 86pp. (page 46)

NEMS Actions		Targets	Performance Indicators	Key Implementors and Partners
11.2.1	Improve delivery of MEA, National, and State commitments through coordinated action	MEA commitments mainstreamed into agency and sector plans and implemented through strong coordination through the NEPC (National) and Regional Planning Body (State)	Regular meetings of the NEPC and Regional Planning Body, with transparency in decision making	MAFE/ NEPC/ MOF (BBP)
11.2.2	Align MEA, SDG, GEF, GCF, Regional, and National indicators and streamline reporting processes and data management as part of a National Monitoring & Evaluation system	Core indicators housed at specific agencies and updated regularly	Increasing number of MEA targets reached	MAFE, MOF (BBP)
11.3.1	Review and update Republic of Palau Environmental laws and regulations: Biosecurity Regulations Marine Protected Act Regulations Endangered Species Regulations Marine Mammal Act Regulations	Improved regulatory environment and enabling conditions	Number of laws and regulations adopted by 2025	OEK, MAFE
11.3.2	Develop or amend and pass and implement Republic of Palau Environmental laws and regulations: National Planning Act Building Codes (in line with National Planning Act)	Improved regulatory environment and enabling conditions	Number of laws and regulations adopted by 2025	OEK
11.4.1	Review and update Republic of Palau Environmental Policies Strategies, and Tools: • Energy Policy • Sustainable Land Management Policy • Resilient Agriculture and Aquaculture Policy (e.g. Food Policy) (in line with NDC Policy) • PAN Act (especially section on enforcement) • PAME (PA Management Effectiveness) assessment tool for PAN	Informed policies and strategies guide best practice national environmental protection and management	All relevant policies, Acts and strategies reviewed and amended as necessary by 2025	MAFE, MOF (BBP and PEWA)

NEMS Actions		Targets	Performance Indicators	Key Implementors and Partners
11.4.2	Encourage updates and mainstream environmental objectives into other and Republic of Palau Policies and Strategies: Cultural Policy Gender Mainstreaming Policy Tourism Policy NCD (Non-communicable Disease) Policy (in line with Food Policy) Project Management Manual (Office	National policies are aligned across policies	Number of environmental sections included in other national policies	MAFE MHRCTD MHHS MOF (BBP)
11.5.1	of Project Management (OPM)) Provide extension services to State Governments to improve their capacity to implement environmental projects and programmes, including: • Personnel Policy (to keep capacity after election turnover; including for PAN office and Land Planner) • Master Planning and Zoning, and implementation • Public Finance management (including PAN finance) • Grant writing and management • Use of data in decision making	Environmental conditions in the field conserved	Number of trained State personnel in skilled positions increases	MAFE, MOS BDA, MOF BBP, NGO partners
11.6.1	Improve awareness of and compliance with environmental laws Improve enforcement of environmental laws, especially PAN, Endangered species, Protected species, EQPB regulations	Community buy-in for environmental laws Conflicts in national and state enforcement capacities resolved	Decreasing number of infractions Increasing number of trained and certified Rangers able to enforce an	MAFE, MOJ, EQPB, NGO Partners MAFE, MOJ, PAN Rangers, EQPB
11.7.1	Improve public participation in State and National environmental governance and sustainable development through public hearings and volunteerism	Processes for public participation defined and implemented consistently State permitting processes have a public hearing requirement that is implemented	increasing number of environmental laws Increasing participation in public hearings Increasing diversity of participants on Commissions, Boards, and other advisory groups	MAFE States MOS BDA
11.8.1	Mainstream gender and social inclusion into environmental decisions and activities	Women and men participate equally in environmental and risk management decision making	Gender and social inclusion perspectives are integrated into all national environmental policy, legislation, and programmes	MOS Gender

NEMS Actions		Targets	Performance Indicators	Key Implementors and Partners
11.8.2	Define vulnerable groups and mainstream vulnerable groups into environmental decision making, based on collection of gendered, social, and cultural statistics	Improved service delivery	Number and demographics of vulnerable groups defined by 2024	MOS Gender MOF (BBP)
11.9.1	Modernise environmental communications and improve knowledge management (access to laws, policies, plans, best practices, lessons, etc.)	Websites with relevant information consistently updated	Existence of a national library	MOF (BBP and ISSS), MOS (BDA)
11.9.2	Standardise spatial data and increase public access and use of spatial data in decision making	PALARIS becomes repository for up-to-date spatial data	Website enables controlled access and use of spatial data	MOF (PALARIS, ISSS)

4. IMPLEMENTATION, MONITORING AND REVIEWING SCHEDULE

The NEMS reflects ongoing work and national policies (Section 1.4), and acts as an umbrella strategy collating national priorities and actions in one place. The Palau State of the Environment (SoE) Report is the complementary report that acts as an umbrella report.

The 2019 SoE, completed only two years after the 2017 SoE, found that two years was too frequent of a time period for a State of the Environment Report. (The previous SoE was in 1994, which was too long of an interval). The 2019 SoE recommended a 5-year time period for State of the Environment Reports. Thus, the next SoE should be published in 2024.

A SoE to be published in 2024 that will report on indicators in this NEMS will serve as a milestone marker for the NEMS, indicating which priorities are being met and where actions should be modified. At that time, modifications and updates to the NEMS should be proposed to the NEPC for their approval. The NEPC should also include its next check-in of the NEMS in order to meet 2030 targets.

5. LINKS TO INTERNATIONAL AGREEMENTS AND STRATEGY

NEMS Environment Theme	NEMS Strategic Focus Area	Sustainable Development Goals ⁵⁶	Aichi Targets ⁵⁷	GEF7 Indicators ⁵⁸
	1.1 Strategic planning for climate change impacts	1.5, 11.5, 11b, 13.1	10	
	1.2 Adaptation to Climate Change impacts	13.1, 13b	15	
	1.3 Climate Finance Mechanisms	13a	20	
1. Climate Change	1.4 International advocate for climate justice	13.2, 13.3		
1. Olimate oliange	1.5 Transition to renewable energy	7.1, 7.2, 7.3, 7b, 13.2	8	6.4
	1.6 Reduction in Greenhouse Gas emissions	13.2	8	6
	1.7 Reduction in use of Ozone Depleting Substances	9.4, 13.2	8	9.3
	1.1 Land use planning and zoning		10	4
	2.2 Food security	1.5, 2.3, 2.4, 15.3	5, 7, 13, 14, 15, 18	4.3,9.5
	2.3 Protection of water supplies		6.6	
	2.4 Soil management	15.3	10	
2. Land Management	2.5 Forest management	15.2	5,10	3.2,4.4
2. Lanu Management	2.6 Expansion and management of PAN	15.1	5, 10, 11	1
	2.7 Savannah grassland management	15.1	5, 15	3.3
	2.8 Coastal vegetation management	1.5, 6.6, 13.1, 15.2	5, 14	3.4
	2.9 Clearance of Explosive Remnants of War (ERW)			

⁵⁶ Global indicator framework for the Sustainable Development Goals and targets of the 2030 Agenda for Sustainable Development https://unstats.un.org/sdgs/indicators/indicators-list/

⁵⁷ https://www.cbd.int/sp/targets/

⁵⁸ https://www.thegef.org/sites/default/files/documents/10530_core_indicator_worksheet.pdf

NEMS Environment Theme	NEMS Strategic Focus Area	Sustainable Development Goals ⁵⁶	Aichi Targets ⁵⁷	GEF7 Indicators ⁵⁸
	3.1 Data collection, sharing, and feedback systems			
	3.2 Marine spatial planning			5.2,7.4
	3.3 Nearshore fisheries management – Improve status of nearshore fisheries (finfish and invertebrates) and increase value of fisheries products	12.2, 14.2, 14.4, 14.5,14.7	4, 6, 10	5.1,8
	3.4 Aquaculture management	14.7, 14b	6, 7	5
	3.5 Marine Protected Area management and expansion	14.5	10, 11, 14, 18	2,7.4
3. Nearshore Marine	3.6 Mangrove management	15.1,15.5		3.4
Management	3.7 Coral Reef management	15.1,15.5	11	
	3.8 Tourism outside of Koror (Babeldaob, Outer Islands, and offshore)			
	3.9 Improved management of Koror's World Heritage Site	15.1		5.2
	3.10 Management of marine water quality			5.2
	3.11 Protection and maintenance of marine biodiversity			4.2
	4.1 Administration and Coordination	14.4, 14.5, 14.6	4, 6, 11 ,14	2.2, 5.1, 5.2
	4.2 Sustainable Domestic Pelagic Fishery	2.1, 2.3, 14.4, 14b	4, 6, 11, 14	2.2, 5.1, 5.2
4. Offshore Marine	4.3 Safe and Secure EEZ	14.4	4, 6, 11, 14	2.2, 5.1, 5.2
Management	4.4 Communications, Information, and Awareness		1	
	4.5 Economic stability and branding			5.1, 5.2
	4.6 Maintenance of biodiversity and ecosystem functions	14.1, 14.2, 14.4	4, 6, 10, 11	2.2, 5.2
	5.1 Catchment management and protection	6.1, 6.6, 15.1	11, 14	
5. Freshwater	5.2 Freshwater supply management	6.1		
Management	5.3 Freshwater monitoring	6.6	14	
	5.4 Estuarine habitat protection	6.6	11	
	5.5 Freshwater lake protection	6.6	11, 14	
	6.1 Endangered species conservation	15.5	12	
	6.2 Invasive species management and control	15.8	9	
6. Biodiversity Conservation	6.3 Protected Areas Network expansion and management	15.5		
	6.4 Environmental reporting			
	6.5 Biodiversity mainstreaming	15.5		

NEMS Environment Theme	NEMS Strategic Focus Area	Sustainable Development Goals ⁵⁶	Aichi Targets ⁵⁷	GEF7 Indicators ⁵⁸
	7.1 Improved national waste management	11.6, 12.5, 17.1	15	9.4, 9.6, 10.2
	7.2 Improved landfill operations	12.5	8	9.6, 10.2
	7.3 Recycling	12.4, 12.5	8	
7. Waste	7.4 Composting	12.5	8	
Management	7.5 Hazardous waste management	3.9	8	9.4, 9.6, 10.2
	7.6 Disaster waste management	1.5, 12.4, 13.1	8	
	7.7 Marine Plastic	12.5	8	5.3
	8.1 National chemical management strategy	12.4		9.3, 9.4, 10.1, 10.2
	8.2 Management of priority obsolete chemicals	12.4		9.1, 9.3
8. Chemical	8.3 Contaminated site management	3.9, 12.4	8	9.1
Management	8.4 Oil spill management			
	8.5 Management of other priority chemicals	3.9, 12.4	8	9.2, 9.4, 9.6
	8.6 Chemical monitoring and reporting	17.18	8	
	9.1 Climate-resilient building codes in line with land use planning and zoning	3.9, 11.1. 11b, 13.2	8	9.6
	9.2 Water management	3.9, 6.1, 6.3, 6.4	14	
	9.3 Improved sanitation	3.9, 6.2, 6.3	8	
9. Built Environment	9.4 Reduce impacts from development and construction	9.1, 11.1, 11.6, 11.7,15.9	2,14	3.4
	9.5 Climate-proof sustainable infrastructure and construction program	3.9, 11.1	8	9.6
	9.6 Sustainable tourism	12b	1, 2, 4	
	10.1 Traditional knowledge	11.4	18	
10. Culture, Heritage	10.2 Protection of Palauan heritage	11.4	18	
and Awareness	10.1 Community education and awareness	4.7, 12.8, 13.3	1	
	10.2 Professional training and awareness	4.3, 13.3	1, 2	
	11.1 Sustainable Financing	17.4	20	
	11.2 Coordination, Monitoring, and Evaluation			
	11.3 Environmental Legislative Framework development and review	12.2	6, 7	
11. Environmental	11.4 Environmental Policy and Strategy development and review	17.16		
Governance	11.5 Capacity Building	17.18		
	11.6 Compliance and Enforcement			
	11.7 Stakeholder Engagement and Participatory Decision making			11
	11.8 Gender and Social Inclusion Mainstreaming	5.5, 5a, 5c	1, 14	11
	11.9 Communications and knowledge Management	17.18	19	



6. HUMAN RESOURCES AND FINANCIAL IMPLICATIONS

strategy, resourcing needs remain to meet the targets by 2030. Financial implications here are indicative of long-term costs and are included for general comparison. Individual policies Strategies in the NEMS reflect ongoing work and existing priorities, and many of the actions are already incorporated into existing financial resourcing plans. However, in the case of every (Section 1.4) are costed where possible and contributed to the estimates here. Given the range and scope of financial implications, the support of the wider network of international, regional, and local partner agencies and stakeholders, whose portfolios overlap with Government Agencies, is vital

				Thousands	Hundreds of thousands	Single millions	Tens of millions	Hundreds of millions
NEMS Action	Action	larget	Performance Indicator	<\$100,000	\$100,000- 999,999	\$1,000,000- 9,000,000	\$10,000,000- 99,000,000	> 100,000,000
1.1.1	Inclusive strategic and spatial planning for climate change impacts link national and international policies to state plans	National strategy for climate change adaptation, mitigation and disaster risk management implemented, minimising impact to the environment through maximising Nature-based Solutions	National plan completed and endorsed by the Palau Government by 2025					
1.1.2	Update Disaster Framework and Contingency Plans	All aspects of climate assessment and preparedness planning is socially equitable and inclusive, and risks like fire, landslides, and flooding are minimised	Olimate and disaster risk modelling, maps, and planning is inclusive of gender and social vulnerability					
1.1.3	Holistic Climate Change science	Science on human and environmental dimensions of climate change guiding national policy and planning is locally relevant	Locally relevant climate science is continually generated to guide and update national planning initiatives					
1.1.4	Define Vulnerable People and mainstream their specific risks and needs into plans	Adaptation, resilience, disaster risk, and mitigation plans are inclusive and benefit the most vulnerable	Specific strategies for agreed vulnerable groups					
1.2.1	National adaptation actions continued	Adaptation outcomes prioritised in environmental, agriculture, food security, public health, disaster management, and infrastructure programmes; protected areas gaps filled,	Implemented programmes increase national adaptation capacity and priority coastal habitats provide climate services					
1.3.1	International climate finance secured and channelled to communities	Vastly increased Climate Finance secured to implement national, state, and community adaptation and mitigation projects	International resources accessed to implement low-emission and climate-resilient projects and programmes					
1.4.1	Continued visibility in international climate negotiation fora	Key climate information concerning international responsibility for Palau's future is made obvious to international delegates, with increasing support for adaptation funding and Loss and Damage.	Palau continues to have an impact in international Climate negotiations					
1.5.1	Electricity generated through renewable technologies	100% of power generation through diversified renewable resources by 2032	Annual increase in renewable electricity generation rates					
1.6.1	An economy wide reduction in GHG emissions particularly through energy, transportation, and waste sectors	22% reduction in energy sector GHG emissions compared with 2005 levels by 2025	Annual reduction in national GHG emissions					
1.6.2	A reduction in national energy consumption	30% reduction in overall national energy consumption by 2025	Annual reduction in national energy consumption					
1.6.3	Fuel use reduction in the national transport sector	Fuel use reduction in the national land and sea transport sector	Annual fuel use reduction in the transport sector					

				Thousands	Hundreds of thousands	Single millions	Tens of millions	Hundreds of millions
NEMS ACTION	Action	larget	Performance indicator	<\$100,000	\$100,000- 999,999	\$1,000,000- 9,000,000	\$10,000,000- 99,000,000	> 100,000,000
1.6.4	Set up Carbon sequestration and Payment for Ecosystem Services schemes	Palau is a carbon neutral tourist destination and high sequestering habitats such as mangroves, forests, and seagrass are protected or restored	Tourists offset carbon emissions by funding national carbon sequestration initiatives					
1.7.1	Minimisation of annual imported quantities of HFCs	Reduction in annual HFC importation rates	HFC consumption reduced by 40% of baseline quantities by 2024 ⁵⁹					
2.1.1	Integrated land use planning and zoning	Sustainable development of land for agriculture, settlement, and commercial and tourism enterprises	State Master Plan for equitable and integrated land-use planning and sustainable land use					
2.1.2	Increased access to land resources	Public access to land and water resources increased	Expansion of equitable public leasing programmes across Palau					
2.1.3	Sustainable Land Management (SLM)	Home, commercial, tourism, and agricultural development proceeds with minimal impact on the environment	Decreasing sedimentation and loss of habitat due to development and maintained permeability in developed areas					
2.2.1	National agriculture strategy	Food production tripled by 2030	Annually increased yields of local vegetable and root crops, fruit and livestock production ⁶⁰					
2.2.2	Local sustainable organic food production	Local organic food production increases	Increasing number of organic certified foods, farms, and products					
2.2.3	Agricultural biodiversity preservation	Best practice agriculture implemented	Farming practices prioritise agrobiodiversity conservation					
2.2.4	Prevention and control of invasive alien species and invasive species	Biosecurity keeps new invasive alien species out of Palau and invasive species control minimises spread	Invasive species control enables increasing fruit production					
2.3.1	Protection of high-quality agricultural soils, soil enhancement, and erosion control	Productive soils are maintained and increased	Soil management, amendment, carbon sequestration, and erosion controls implemented					
2.4.1	Protection of water supplies	Water supply quality and quantity maintained or improved through integrated hydrological planning	Best practices followed in agriculture, forestry, aquaculture and in waste and wastewater disposal					
2.5.1	Protection of forests	Forests managed sustainably for multiple outcomes	Forest resources managed to protect biodiversity, water supplies and cultural significance					
2.5.2	Forest monitoring and restoration research	Research and monitoring guides sustainable forest management	Terrestrial monitoring protocol for PAN sites is developed and implemented					
2.6.1	Expansion of Protected Areas Network (PAN)	All key terrestrial habitat types and 30% of terrestrial resources represented in PAN by 2030	Beach strand, raised coralline atoll, swamp forest, and bird aggregation sites added to PAN by 202561					
2.6.2	PAN Enforcement	Ecological integrity and biodiversity protected in PAN	National Enforcement officers and PAN Rangers enforce relevant State and National Laws					
2.7.1	Management of fire in Savannah landscapes	Risk of wildfire impacts minimised	Fire-degraded lands are rehabilitated					

Baselines will be calculated from past HCFC consumption baselines plus HFC consumption in 2020-2022. (Kigali Amendment, 2016)
OOC commitment
NEPC (2019). 2019 State of the Environment Report, Republic of Palau. National Environmental Protection Council (NEPC), Government of Palau: Koror, Palau. Page 61

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				Thousands	Hundreds of thousands	Single	Tens of millions	Hundreds of millions
NEMS	NEMS Action	Target	Performance Indicator	<\$100,000	\$100,000- 999,999	\$1,000,000-	\$10,000,000-	100.000.000
2.8.1	Management and conservation of mangrove forests	Areal extent of mangrove forested area remains stable	Increasing use of Nature-based solutions for climate adaptation and shoreline protection					
2.8.2	Coastal re-planting programmes	Shorelines protected from wave action	Shoreline revegetated with appropriate species (e.g. Casuarina, Scaevloa)					
2.9.1	ERWs removed from the landscape	All ERWs removed from the landscape and from shallow waters	Ordinance removal programmes active across Palau					
3.1.1	Conduct Stock Assessments (finfish and invertebrates, including in mangroves)	Understanding of standing stock and level of harvesting that leaves the stock viable	Biomass, Population, SPR for commercially important species and protected species by location (Fisheries-independent data)					
3.1.2	Conduct Harvest Assessments	Understanding of current harvesting by species, location, method, etc. and influences in harvesting (finfish and invertebrates)	Fisheries-dependent data — estimate of catch per year by location and sector for commercially important species,					
			Estimates of four fishing for protected species					
3.1.3	Conduct Market Assessments and Analysis that leads to improved marketing, pricing, and livelihoods	Gaps in market aspects of fisheries are filled, such as target prices, incomes	Market Assessment report Sequestration values determined					
		Ocean climate risk and sequestration data used to inform financing						
3.1.4	Establish and improve Data sharing and feedback systems	Data used to manage harvest levels and pricing	Thresholds for action established					
3.2.1	Conduct Nearshore Marine Spatial Planning (MSP), incorporating Traditional Knowledge, Spatial Data, and Best Available Data	Data for territorial waters (12 miles) increased and marine habitats zoned/planned for multiple uses including food security, economic uses, and cultural and social uses	100% Sustainable Ocean Plan, with policies and processes for adaptive management, developed and adopted Marine spatial plans included in state master plans					
3.3.1	Manage Spawning and Aggregation sites	Spawning and aggregation sites protected (fully or seasonally)	100% Sustainable Ocean Plan, with policies and processes for adaptive management, developed and adopted Marine spatial plans included in state master plans					
3.3.2	Develop and adopt National and Regional Fisheries Plans for Kiukl, Despedal, Outer islands; Adopt and implement Koror Fisheries Plan; Update Northern Reefs Plan	Fishery zones, SPR/sizes, harvest levels, Rules, Regulations, Best Practices, etc. set and adopted	At least 5 Coastal Fisheries Plans adopted Scientifically defendable catch limits established					
3.3.3	Monitor nearshore fisheries (fishery, not fish)	Sustainable harvest regimes identified and fisheries-dependent and fisheries-independent data collected and analysed	System/Framework in place so that national fisheries data feeds into annual Fisheries Plans and licensing, registration system, etc.					
3.3.4	Update nearshore fisheries regulations; establish licensing and permitting system (business permitting and fishing licenses)	Coastal fisheries regulated to ensure sustainable catch according to Fisheries Plans	A licensing and reporting system for management implemented and enforced					

				Thousands	Hundreds of thousands	Single millions	Tens of millions	Hundreds of millions
NEMS ACTION	ACTION	larget	Performance Indicator	<\$100,000	\$100,000- 999,999	\$1,000,000- 9,000,000	\$10,000,000- 99,000,000	> 100,000,000
3.3.5	Train and build capacity for fisheries management and enforcement	Coastal fisheries enforcement programme improved	Resources available to allow routine fisheries monitoring and control operations in inshore					
		Fisheries monitoring and management feeds back into fisheries plans and informs adaptive management	Waters					
3.3.6	Increase Fisheries awareness, including awareness about traditional knowledge and traditional practices	Public support maintained for inshore fisheries management and regulation	A fisheries awareness programme is in place					
3.3.7	Provide Extension services to develop fishery-based livelihoods, and assist with Standard Buys, Market Development and fisher access to markets, and Risk Reduction	Fisheries cooperatives and associations able to negotiate lower costs, higher incomes, better plan for supply and demand	Supported Fisheries Cooperatives or Associations in place, with higher incomes and lower risks					
3.3.8	Stabilise and optimise supply and demand	Systems in place to determine demand for nearshore fishery products by location and season, and systems in place to produce and distribute supply to meet demand	Increasing number of connections/agreements between fishers and buyers					
3.3.9	Track and promote High Value Fishery products "From Hook to Fork" along a transparent and fair	Fishery tracking systems (apps) track fish and communicate the provenance of fishery products findling straigs about the producers)	Nearshore fishery products fetch premium prices and those prices are returned to producers					
	עמוסט כיומווו	(including storics about the producers)	Consumers have increased appreciation and paying more for fishery products and producers (men and women)					
3.4.1	Update and modernise the National Aquaculture Policy	Policy document developed and adopted in line with marine regulations	Policies agreed between private sector development and public sector support and subsidies, with agreed policies for support for food security versus export and livelihood development, and policies to ease access to capital					
3.4.2	Plan for and provide extension services to support expansion of aquaculture (species types and amount)	A 300% increase in aquaculture production for food	Locations for aquaculture identified and agreed					
3.4.3	Stabilise, diversify, and decentralise supply of aquaculture seedlings	300% increase in seedling production from an increasing number of suppliers	Increasing number of suppliers, number of species, and total number of seedlings produced per year; with decrease in loss due to climate or other risks, with collaboration between government and private sector					
3.4.4	Protect and enforce aquaculture property; Clarify farm ownership status and enforcement capacities in nearshore marine waters	Theft and poaching of aquaculture farms eliminated	Public sector policies and practices in place to deter and enforce poaching					
3.4.5	Identify and access increasing number and diversity of export markets for cultured clams	Increasing export of clams with increasing improvements of farmer livelihoods (in line with national food policy)	Capacity to profit from international markets increased					
3.4.6	Establish an institutionalised training and capacity building programme for private sector participants	Training in aquaculture best practices, business skills, risk management, writing and capacity to access financial capital	Increasing number of trained participants actively engaged in aquaculture					

				Thousands	Hundreds of thousands	Single millions	Tens of millions	Hundreds of millions
NEMS	NEMS Action	Target	Performance Indicator	<\$100,000	\$100,000- 999,999	\$1,000,000- 9,000,000	\$10,000,000- 99,000,000	> 100,000,000
3.5.1	Continue regular monitoring, conduct another round of PAME, and consistently use data to assess targets and adapt management.	Updated PAN Status report feeds into annual PAN planning and strategies Annual monitoring reports for each site with recommendations for management	PAN Status Report Annual Reports/Management Plan updates for MPAs					
3.5.2	Finalise PAN Strategy, to include marine spatial planning and spatial targets	PAN Strategy includes spatial, habitat, and species targets	Strategy document adopted					
3.5.3	Increase number, size, and diversity of Marine Protected Areas	Micronesia Challenge 2030 target for sustainable management	Increased areas of channels, back and deeper reefs, reef flats, and sustainable use areas (e.g. to include aquaculture farms) and cultural sites protected as MPAs					
3.5.4	Enhance and stabilise PAN training programmes and certification programmes	Increase PAN Coordinator and Ranger capacity to manage sites, conduct surveys, adapt management enforce relevant laws, write reports, and seek independent funds.	Increasing number of trained individuals Increasing number of skills with training programmes					
3.6.1	Align forestry and marine programmes on Mangrove Management	Mangroves systematically planned for, including for cumulative impact	Inclusion of mangroves in PAN, Land Use, and Marine Spatial Plans					
3.6.2	Determine financial and ecosystem values of mangroves (and coral reefs), including food production, carbon storage, reducing climate vulnerabilities, cultural ties, and ecosystem services	Increased study and scientific data of mangroves informs management	Mangrove socioeconomic and biophysical reports					
3.6.3	Establish Parameters and Standard Operating Practices (SOPs) for mangrove (and coral reef) management and restoration	Degraded mangroves and coral reefs restored to increase value	Scientifically-based documents with SOPs					
3.6.4	Improve public awareness and appreciation for mangroves	Mangrove awareness programmes implemented	Increasing support for mangrove protection, fewer leases issued in mangroves					
3.6.5	Understand status of Unexploded Ordinances (UXOs) in mangroves and rivers	Estimates and recommendations developed (capture knowledge of older generation)	UXO Assessment					
3.7.1	Conduct coral monitoring and research	Research and monitoring guides sustainable reef management	Regular Coral Reef status reports published					
3.7.2	Improve coral reef management for long-term resiliency	Coral reef planning includes long-term climate risks and resilience	Resilient reefs identified and sustainably managed					
3.7.3	Establish Parameters and Standard Operating Practices (SOPs) for coral reef management and restoration	Degraded coral reefs restored to increase value	Scientifically-based documents with SOPs					
3.8.1	Develop and promote new and unique marine tourism products outside of Koror's nearshore reefs, including for diving, cultural history, whale watching, sport fishing, kayaking, etc. to an increasingly diversified customer base	Each state has at least one marine-based tourism product	Increasing number of visitors to states outside of Koror					

				Thousands	Hundreds of thousands	Single millions	Tens of millions	Hundreds of millions
NEMS	NEMS Action	Target	Performance Indicator	<\$100,000	\$100,000-	\$1,000,000-	\$10,000,000-	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
3.8.2	Update, enhance, and repeatedly offer Tour Guide Training Programs to maximise economic values,	Improve and standardise the delivery of Palau's marine tourism products	Increasing number of tour guides trained in an increasing number of skills and capacities					
	minimise environmental impacts, and correctly convey cultural and natural stories	Upgrade the experiences offered to more customers to generate high values per visitor	"Certify the stories"					
3.9.1	Assist Koror State to maximise the potential of the Rock Islands Southern Lanon as a World Heritane	World Heritage status promoted and mainstreamed	Exit surveys indicate increased knowledge of World Heritage Status					
	Site	Negative impacts on tourist sites minimised (e.g. Jellyfish lake)	Increasing dollars due to World Heritage Status					
3.10.1	Marine water quality monitoring	Marine water quality routinely assessed against internationally recognised guidelines	Monthly nation-wide marine water quality samples collected, analysed and reported					
3.10.2	Marine water quality management	Marine pollution plan developed and adopted	Percentage of marine pollution plan funded and implemented					
		Leaking vessels and other pollutants cleaned up, removed, or minimised	Sources of leaking oil removed					
3.11.1	Finalise and adopt updated Regulations for the Marine Protection Act	Regulations are comprehensive for multiple sectors	Regulations adopted					
3.11.2	Agree and adopt Marine endangered species regulations and list, in line with international agreements	Endangered species better understood and protected, in line with international commitments (e.g. CITES)	Scientifically-defensible List adopted					
3.11.3	Minimise and enforce poaching of protected species	Awareness, community buy-in, and enforcement of protected species improves	Improving Population and size status of endangered species					
3.11.4	Map and plan for high biodiversity sites	High Biodiversity Sites or High Value Marine Sites mapped and included in marine spatial plans with sustainable use or protection regimes	Increasing number of High Biodiversity areas protected via national or state plans					
4.1.1	Co-ordinated cross-sector management of the PNMS	Management of the PNMS based on an aligned and jointly implemented management strategy	Strengthen cross-sector administration, coordination, and joint planning capacities among agencies with PNMS mandates					
4.1.2	Marine Spatial Planning	Sustainable management and protection of the EEZ achieved	Periodic review of jointly agreed Policy and Marine Spatial Plan (MSP)					
4.1.3	Sustainable Financing	Long-term financing funds sustainable management of the PNMS	Financing for the PNMS reviewed annually and is equitably distributed					
4.2.1	Sustainable expansion of the local pelagic fleet	Sustainable local pelagic fishery meets food security demand and provides economic security	Capacity building to grow the number of locally based fleets/ fishers participating in the pelagic fishery					
4.2.2	Regulation and enforcement of the offshore domestic and foreign fishery	Illegal, unreported, and unregulated (IUU) fishing prevented in Palau's EEZ	100% electronic monitoring and reporting and at least 5% observer coverage of the pelagic fishery					
4.2.3	Strengthened Pole-and-Line Fishery	Maintained and affordable supply of Skipjack for domestic consumption	Increasing production and consumption of Skipjack					
4.2.4	Implementation of Anchored Fish Attracting Device (aFAD) strategy	aFADs used to maximise domestic fishery potential	Number of operational and maintained aFADs hits optimal number and remains there					

				Thousands	Hundreds of thousands	Single millions	Tens of millions	Hundreds of millions
NEMS Action	Action	larget	Performance Indicator	<\$100,000	\$100,000- 999,999	\$1,000,000- 9,000,000	\$10,000,000- 99,000,000	> 100,000,000
4.3.1	Increase monitoring, control, and surveillance activities, both physically and digitally	Palau's EEZ managed and protected	Number of MCS missions increases to optimal level					
4.3.2	International agreements expanded and maintained to protect Palau's borders	All illegal activity in the PNMS (including and beyond fishing) by international Actors reduced	Criminal and other illegal activities in the PNMS and EEZ reduced through bilateral agreements					
4.4.1	Communications and Engagement	Aligned communications products for the PNMS support management objectives	Communications and Engagement Strategy agreed and implemented by core partners					
4.4.2	Research management	Increasing information and data availability improves adaptive management of the PNMS	Research Strategy agreed and implemented by core partners.					
			neseach projects profitsed to address profits					
4.4.3	Community awareness	Long-term public support for the social, cultural, economic, and environmental aspects of the management objectives of the PNMS maintained	Awareness and information campaigns on the management objectives of the PNMS routinely interpreted to public audiences					
4.5.1	Improvement to Day Vessel Buy-back programme and other Licensing and Permitting schemes	Increasing or stabilised national income from the EEZ	National income meets targets					
4.5.2	Small business development	Increasing economic stability for Palauan's operating in the PNIMS, food systems, tourism markets, or other connected sectors	Increasing number of viable small businesses dependent on, or linked to the PNMS registering and staying in business					
4.5.3	Pelagic fishery produce demand generation	Increased demand for pelagic fishery products drives increasing production, and stabilising supply and demand generates stable affordability	The Choose Pelagic campaign drives increased local consumption of EEZ caught pelagic fish					
4.5.4	Maintenance and growth of the Pristine Paradise Palau brand	The PNMS generates high-value tourism opportunities and drives tourism demand	Increasing dollar value of sustainable tourism in Palau					
4.6.1	Offshore biodiversity maintained	Whales, sharks, and other protected species populations maintained	Reduced bycatch and IUU catch of protected species					
4.6.2	International negotiations reduce threats to offshore environments	International threats to the PNMS including marine debris and Climate Change reduced	Signed international agreements provide support for marine debris and climate adaptation/ mitigation					
5.1.1	Water Catchment land use planning, zoning, and protection	Upper catchments and watersheds zoned, protected, or rehabilitated	Maintained or increased forest cover in watersheds above water sources					
5.1.2	Water quality and quantity protection	Development minimises impact on water supply	Permitted activities avoid adverse water resource impacts and point (especially dumps) and nonpoint source pollution sources minimised and rehabilitated					
5.2.1	Water Conservation	Potable and treated water sources used efficiently	Pre- and post-consumer actions minimise waste and loss of treated water					
5.2.2	Adequate provision of safe and resilient water, particularly vulnerable people	Clean potable water available to 100% of the population, including in the outer islands, even during natural disasters and times of stress	100% of homes, including new homes and subdivisions, have access to multiple sources of treated water					

				Thousands	Hundreds of thousands	Single millions	Tens of millions	Hundreds of millions
NEMS	NEMS Action	larget	Pertormance Indicator	<\$100,000	\$100,000- 999,999	\$1,000,000- 9,000,000	\$10,000,000- 99,000,000	> 100,000,000
5.2.3	Irrigation supply planning and management	Irrigation water supplies available as needed to the agricultural sector	Irrigation demand modelled and managed to ensure delivery of adequate agricultural water supplies					
5.2.4	Decreased coliform counts	Reduction in coliform contamination in potable water	Increasing conversion of septic tanks to sewer systems, and conventional piggeries to dry litter systems					
5.3.1	Freshwater quality monitoring	Freshwater quality routinely assessed against internationally recognised guidelines	Monthly river and lake water quality samples collected, analysed and reported					
5.3.2	Freshwater hydrological research and monitoring	Freshwater supplies extracted sustainably	Baseline research and ongoing hydrological monitoring undertaken and reported; conservation systems triggered by water monitoring thresholds					
5.4.1	Wetland habitat protection	Estuarine habitats, swamp forests, mesei (faro patches), and wetlands maintained (no net loss) and populations of indicator wetland species maintained or increased (crocodile, purple swamphen, invertebrates, reptiles)	Regulations protect wetlands, with maintained wetland coverage					
5.5.1	Freshwater lake habitat protection	Palau's two freshwater lakes (Ngardok Lake and Ngerkall Pond) are protected and managed in the PAN	Management Plans completed for Ngardok Lake and Ngerkall Pond					
5.5.2	Ngerimel Reservoir rehabilitated	Ngerimel Dam functions as a resilient source of water during droughts	Water storage in the dam increased					
6.1.1	Endangered species regulations and agreements	Endangered Species Regulations completed, implemented, and enforced	Regulations Governing Endangered Species passed and CITES list agreed					
6.1.2	Regulatory framework for endangered and endemic species	Protected Life Act updated, Biosecurity Regulations, Marine Protected Act Regulations, and PAN Act Regulations updated to include new understandings of endangered and endemic species	Exemptions for endemic and endangered species removed from regulatory framework					
6.1.3	Species Management Plans for threatened biodiversity completed and implemented, in line with national laws and international agreements	Viable populations of threatened species live in Palau	Species management plans developed for endangered and other priority species in line with Ramsar, CMS, CBD, Ramsar, and other commitments					
6.1.4	Comprehensive biological inventory and assessment of all island ecosystems	Collected data used in an adaptive management framework to protect biodiversity	National BIORAP undertaken regularly					
6.1.5	Increased understanding of genetic biodiversity, and Access and Benefit Sharing systems established	Agrobiodiversity maintained and benefits from marine and coral genetic diversity accrued in Palau	ABS system agreed					
6.1.6	Biodiversity priorities established for each island, with increased local and national awareness	Government and non-government organisations consulted on biodiversity priorities	Appropriate policies and legislation on ecosystems services formulated					
6.2.1	Prevention of the introduction and establishment of invasive species	Introduction or internal spread of invasive species prevented	Early detection of, and rapid action against new introductions of potentially invasive species					

				Thousands	Hundreds of thousands	Single millions	Tens of millions	Hundreds of millions
NEW S	NEMS Action	larget	Performance Indicator	<\$100,000	\$100,000- 999,999	\$1,000,000- 9,000,000	\$10,000,000- 99,000,000	> 100,000,000
6.2.2	Impacts of existing invasive species minimised	Prioritised invasive species are controlled or removed	IAS management actions are identified and implemented through inventory, assessment, and prioritisation activities					
6.3.1	Protected Areas Network (PAN)	PAN system expanded to include missing key habitats, enforcement improved at the National and State levels, and private conservation lands supported under PAN	National PAN Management Strategy and Action Plan implemented					
6.3.2	High conservation sites protected	High Conservation Sites have improved biodiversity conservation and ecosystem health status	Under-represented ecosystems (mangroves, swamp forests are identified and protected in the PAN					
6.4.1	State of the Environment Reporting	Regular review of national environmental status	SoE Report updated every five years					
6.4.1	Adaptive management	Monitoring systems feed into adaptive management systems	Increasing percentage of monitoring data analysed, reported, and acted upon to continually revise biodiversity priorities					
6.5.1	Biodiversity conservation mainstreamed, including into tourism, cultural site protection, food production, and development	Coral reef and forest disturbances minimised at local scales	Sustainable carrying capacity ranges are established, determining acceptable levels of environmental, cultural, and community impacts					
6.5.2	Sustainable tourism	Sustainable tourism achieved through accreditation and audit	Eco-friendly tourism certification system implemented					
7.1.1	Comprehensive waste minimisation and management	Palau Integrated Waste Policy and Action Plan (2017-2026) is fully implemented	Waste is prevented, reduced, and managed to minimise environmental and human health impacts					
7.1.2	Improved waste management (collection, segregation, transfer, recovery and disposal) services provided in Koror and the Outer Islands	Palau Integrated Waste Policy and Action Plan (2017-2026) is fully implemented	All wastes are collected and managed to minimise environmental and human health impacts by 2025					
7.1.3	Improved international and national regulatory framework to prevent waste	Reduced importation of plastics and glass	Rules and financial mechanisms to reduce volume of plastic and glass that becomes waste					
7.2.1	National landfill continues to operate to international standards	Palau Integrated Waste Policy and Action Plan (2017-2026) is fully implemented	National landfill is climate proofed and 8 waste transfer stations in operation					
7.2.2	Babeldaob State landfills closed and rehabilitated	Old landfills have negligible environmental impacts	Increasing number of old landfills closed, capped, rehabilitated and monitored					
7.2.3	Outer island landfills managed	Outer island landfills meet sanitary standards, include segregation and pathways for recycling and hazmat disposal, are rehabilitated to reduce environmental and health impacts, or are compacted	Outer island landfill plans developed and agreed and an increasing number of actions implemented					
7.3.1	National recycling programmes for plastic, metal, ULABs, paper, and E-waste	Palau Integrated Waste Policy and Action Plan (2017-2026) is fully implemented	All exportable recyclable waste is collected, separated, and sent offshore for recycling by 2025 Increasing waste-to-energy conversion					
7.3.2	Household segregation	Homes on Koror and Babeldaob recycle	100% of beverage containers, glass, paper, and recyclable metals used in the home are recycled					

				Thousands	Hundreds of thousands	Single millions	Tens of millions	Hundreds of millions
NEMS Action	Action	larget	Performance Indicator	<\$100,000	\$100,000- 999,999	\$1,000,000- 9,000,000	\$10,000,000- 99,000,000	> 100,000,000
7.3.3	Scrap metal recycling	Pathways for scrap metal recycling determined and pursued	Agreements in place for scrap metal recycling					
7.4.1	Organic waste composted	Organic wastes are separated and composted	Reduced organic waste entering landfills					
			Increasing compost and biogas availability					
7.4.2	Food waste reduced	Less food wasted, and food that is wasted is composted	Reduced food waste entering the landfill					
7.5.1	Dedicated landfill storage areas for different waste types including hazardous wastes	Hazardous wastes, metals, tires, large plastics, etc. are separated and stored securely at the landfill prior to export	Segregated storage areas are in operation					
7.5.2	Medical and biological waste disposal	Biohazard wastes treated by high temperature incineration	High temperature two chamber waste incinerator operational					
7.6.1	Disaster waste management	Disaster waste management equipment and sites available for emergency use	Disaster Waste Plan incorporated in the National Disaster Response Plan					
7.7.1	Plastic management	Waste plastic generation minimised	Executive Orders and laws on limiting single-use plastics enforced nationally					
7.7.2	Continued national visibility in international marine plastic negotiation fora	Key information concerning the impacts of marine plastic is made obvious to international delegates	Palau continues to have an impact in international marine litter negotiations and outcomes					
8.1.1	National Implementation Plan (NIP)	NIP in line with international agreements and conventions, and endorsed by Government	NIP is updated in 2022 to meet UNFP requirements					
8.1.2	Chemical inventory and import tracking system established	Types and quantities of hazardous materials in Palau established and tracked and aligned with international databases	All Import Logs backtracked, cross-referenced with Harmonized Codes, and database continually updated					
8.1.3	National chemical management strategy includes procedures and pathways for entry, stockpiling, and disposal	All chemicals imported into Palau are managed to protect the environment and human health, alert system working and effective, and capacity to manage chemicals increased	Legislation, regulations and protocols to control importation of all priority chemicals reviewed, updated and enforced Border alerts system established					
8.1.4	Mainstream chemicals management into national policies	Risks from chemicals minimised during disasters	Chemicals management mainstreamed into Climate Change and Disaster Risk plans					
8.1.5	Capacity building to manage chemicals	Palau has local expertise in safely managing chemicals	Increasing number of trained individuals retained in Palau					
8.2.1	Illegal pesticides eliminated and used pesticide container management	Incidental pesticide loss to the environment minimised	Illegal pesticides no longer used and removed, and Used (empty) pesticide containers are safely recycled at the landfill					
8.2.2	Polychlorinated biphenyl (PCB) management	All PCBs found, safely stockpiled, and removed from Palau	National inventory of PCBs completed					
8.2.3	Perfluorooctane sulfonic acid (PFOS) management	Expired AFFF stocks found, safely stockpiled, and removed from Palau	National inventory of AFFs completed					
8.3.1	National management of contaminated sites	All potentially contaminated sites investigated and where necessary, remediated	Contaminated sites assessed, prioritised and remediated					

				Thousands	Hundreds of thousands	Single millions	Tens of millions	Hundreds of millions
NEMS	NEMS Action	larget	Pertormance Indicator	<\$100,000	\$100,000- 999,999	\$1,000,000- 9,000,000	\$10,000,000- 99,000,000	> 100,000,000
8.3.2	Smaller rural landfills and contaminated sites remediated	Hazardous materials safely separated and removed, and contaminated soil removed from Palau	Increasing number of rural landfills (Babeldaob and outer islands) closed and rehabilitated					
8.3.3	Airfield contaminated sites remediated	AFFF contaminated soil removed from Palau	Contaminated soil removed and shipped offshore for destruction					
8.3.4	Efficient use of the M-Dock landfill	M-Dock site safely capped and managed	M-Dock closed in 5 years (or when full) and capped					
8.3.5	Airai Landfill managed to reduce chemical runoff	Airai Landfill drainage and ventilation rehabilitated to minimise drainage of chemicals into Airai Bay	Airai Landfill capped and engineering solutions employed around margins					
8.4.1	Illegal oil disposal and Oil spills managed and contained	Environmental damage caused by accidental or deliberate oil releases minimised	Finalise National Oil Spill Response Plan Increasing capacity to respond to oil spills					
8.4.2	Existing oil spills and releases cleaned	Amount of oil in the environment reduced	Increasing number of leaking ships and old cars remedied					
8.5.1	Mercury management	National mercury management priorities identified, including mercury in the environment and from food sources, and existing mercury found, safely stockpiled, and removed	Minimata Convention Initial Assessment (MIA) completed					
8.5.2	Used battery management	Basil Convention Protocols implemented with prior consent	Increasing number of batteries removed from Palau					
8.5.3	Fertiliser stockpiles managed	Fertiliser use minimises damage to downstream environments	Decreasing fertiliser use					
8.5.4	Chemical sunscreen ban compliance and enforcement	No illegal sunscreens imported into Palau	Monitoring does not detect presence of illegal chemicals from sunscreens					
8.5.5	Other chemicals, including lead and asbestos, tracked and managed	Reduced environmental and health impact from chemicals	Decreasing sources of lead and asbestos					
8.6.1	Participation in the Global (Chemical) Monitoring Plan (GMP)	Inventory Data available on POPs and chemical concentrations in Palau in an accessible and updated database	Samples from priority national environmental matrices collected and analysed annually under the GMP					
8.6.2	Public health monitoring	Public health protected	Routine national monitoring of sewer and septic outflows, and pollution point sources (including landfills)					
8.6.3	Unintentional Persistent Organic Chemical (uPOPs) monitoring	Palau meets Stockholm Convention uPOPs reporting requirements	uPOPs data collected and analysed every five years (2023 and 2028), feeds into database, and leads to adaptive management					
8.6.4	National progress reports to the Stockholm Convention Secretariat	Palau meets Stockholm Convention reporting requirements	Stockholm reports submitted every four years					
9.1.1	Land use planning	National information-based land use planning	Maintained, updated and improved PALARIS database used to ensure fact-based land use planning					
9.1.2	Climate-resilient Building Codes	Environmental standards and climate resilience maintained or improved by built infrastructure	Building codes consistent with land use planning and zoning schemes enforced					

				Thousands	Hundreds of	Single	Tens of	Hundreds of millions
NEMS	NEMS Action	Target	Performance Indicator		monsalius	SIIDIIIII	SIIIIIIII	SIII OIIIS
				<\$100,000	\$100,000- 999,999	\$1,000,000- 9,000,000	\$10,000,000- 99,000,000	> 100,000,000
9.2.1	Water supply planning	Babeldaob residents have access to adequate supplies of safe potable water	Feasibility of a consolidated water system for Babeldaob investigated					
9.2.2	Dam and infrastructure maintenance	Water storage infrastructure maintained and protected from saltwater intrusion	Routine maintenance of dams & infrastructure for ground water sources					
9.2.4	Rainwater harvesting and storage	Best practice harvesting and storage of rainwater	Water tanks available for vulnerable people, including training and maintenance to raise water quality					
9.2.5	Water supply security	New pipes and new water storages for urban subdivisions	Water supply infrastructure outside of Koror expanded and upgrade water to meet demand					
9.2.6	Disaster water supplies	Safe potable water supplies maintained during disasters and other emergencies	Back-up climate proof water sources (e.g. desalinisation &/or water tanks) for vulnerable people and communities					
9.3.1	Improved home sanitation	Sewage does not contaminate waterways, ground or lagoon water quality	Improve home sanitation (including garbage, disease vectors, invasive species vectors, leaking sewage systems, un serviced septics)					
9.3.2	Improved sewage management	Sewage systems upgraded to minimise environmental impacts	Improve legislative and policy environment to enable and streamline enforcement requirements for home/household sanitation					
9.3.3	Water and effluent monitoring	Trained technicians operate in certified local laboratories to detect chemicals and advise managers	Local laboratories have capacity to detect an increasing number of chemicals and biological parameters					
9.4.1	Urban pollution	Non-point source urban pollution minimised	Implemented standards, best practices, remedial works and education programmes reduce pollution from urban/built areas					
9.4.2	Environmental Impact Assessment	All permitted developments are routinely monitored and compliance enforced	All development activities must undergo an EA/EIA and permitting process					
9.4.3	Cumulative impact management	All approved developments do not compromise local and historic environments	Acceptable cumulative impacts determined for locations and habitats (e.g. for mangrove filling)					
9.5.1	Climate proof food delivery infrastructure	Food delivery infrastructure is climate-proof and secured against disaster risks	Climate resilient food supply infrastructure developed (including Central Market/Pelagic Fish Processing & Landing, Food distribution and Storage)					
9.5.2	Climate proof urban infrastructure	Sustainable accessibility on Babeldaob	Roads, drainage, utility services on Babeldaob climate resilient					
9.5.3	Urban amenity	Urban liveability for all residents improved	Urban infrastructure, sidewalks, native tree planting & beautification programmes implemented					
9.6.1	Sustainable tourism	An expanded tourism industry (including Babeldaob) has no net impact on Palau's natural environment	Determine carrying capacities/target visitation numbers for sensitive habitats and locations					

				Thousands	Hundreds of	Single	Tens of millions	Hundreds of millions
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				<\$100,000	\$100,000- 999,999	\$1,000,000- 9,000,000	\$10,000,000- 99,000,000	> 100,000,000
9.6.2	Tourism industry expansion managed to protect Palau's natural environment	Sustainable tourism carrying capacity ranges are determined and enforced	Encourage, promote, regulate tourism facility development (e.g. hotels) that are in line with RTPF (eco-tourism, low environmental impact, high-end, niche)					
9.6.3	Biodiversity conservation prioritised in planning and development on each island	Island developments do not compromise national biodiversity	Biodiversity conservation mainstreamed in all aspects of National and State planning and development					
10.1.1	Traditional knowledge and practices captured	Traditional knowledge and practices around agriculture, fisheries, agroforestry, forestry, biodiversity, and conservation compiled and disseminated	"Calendars" based on traditional timing methods for aquaculture, harvesting of marine and forest products and agriculture available					
10.1.2	Traditional knowledge rights protected	Fair and equitable sharing of benefits arising from the use of traditional knowledge and genetic resources	National obligations under the Nagoya Protocol enforced					
10.1.3	Traditional agriculture techniques and promotion	Sediment loads to marine environments reduced ⁶²	Increasing crop production using traditional practices, linked with increasing consumption of traditional foods					
10.1.4	Traditional fisheries practices	Traditional fishing grounds (for men and women) recognised and zoned for fishing, and increasing use of traditional fishery practices	Food security linked to traditional fishing practices					
10.1.5	Traditional knowledge and Traditional values celebrated and perpetuated	Traditional knowledge valued equitably as a source of data and information for managing Palau's environment and resources	Increased awareness and understanding of traditional knowledge and mainstreaming of traditional knowledge processes into plans and decision-making					
10.2.1	Protection of Palauan heritage	Palau's natural and cultural heritage and cultural sites are documented, managed, and protected	The cultural management sector has adequate human and financial resources					
10.2.2	A Rights-based approach is incorporated into land use planning and marine planning	Access to traditional fishing grounds, mesei, and traditional medicinal plants is protected	Plans increasingly incorporate a rights-based approach and a holistic viewpoint that considers genders and social groups					
10.2.3	Gender and social mainstreamed into planning and practices	Policies and practices that impact different genders and social unfairly are reduced	A cultural gender lens is incorporated into national and state plans					
10.2.4	Sustainable Cultural Industries perpetuated and expanded	Arts and Creative Industries that rely on locally sourced materials thriving and growing	Increasing availability of sustainably sourced and meaningful representative local products					
10.2.5	Cultural tourism	Growing Cultural Tourism industry benefits local communities (financially, socially, culturally)	Increasing number of sustainably used tourism sites and tourism products that feature cultural artifacts or practices					
10.3.1	Intangible heritage protected and perpetuated	Community organisations with a historic responsibility for sustainable resource use are supported and strengthened	Increasing number of active Cheldebechel (mens, womens, youth, elderly groups)					
10.3.2	Community awareness and training	Conservation capacity of residents and communities in Palau strengthened	Public awareness of, and active participation in the environmental decision-making process					

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				Thousands	Hundreds of	Single	Tens of	Hundreds of
NEMS	NEMS Action	Target	Performance Indicator		tnousands	Suoillions	Suoillilli	Suoilling
				<\$100,000	\$100,000- 999,999	\$1,000,000- 9,000,000	\$10,000,000- 99,000,000	> 100,000,000
10.3.3	Environmental education connects youth and communities to their cultural identity and builds on the concept of Omengull (Respect)	Environmental education integrated into curriculum at all levels through the Ministry of Education, which values and balances modern science with traditional knowledge	School curriculum revised to incorporate climate change, environment, waste minimisation and disaster management modules, with respect for traditional knowledge and values					
10.3.4	Standardise and translate modern scientific and environmental terminology	Improved understanding of modern environmental concepts such as climate change	Priority terms translated					
10.4.1	Professional awareness and training	Public and government employees engaged in environmental management	Professionals incorporate environment protection principles in work activities					
10.4.2	PAN training programmes	Trained Officers manage PAN sites and other protected areas (including cultural sites)	PAN Coordinator and Ranger professional capacity increased to allow long-term PA management goals to be met					
10.4.3	Cultural Statistics	Monitoring and Evaluation and Feedback systems are responsive to cultural context and needs	A set of Cultural Statistics is developed and mainstreamed into environmental plans					
10.4.4	Capacity to test for chemicals	Trained technicians operate certified local laboratories	Water quality and chemical analysis training and certification course institutionalised at PCC					
11.1.1	Increase or at least maintain the national annual budget and increase grant financing to support national environmental priorities	Increased achievement of national environmental objectives and obligations	Increasing total and diversity of national budget % of Micronesia Sustainable Finance Plan funded					
11.1.2	Increase the availability and diversity of grant opportunities and increase the capacity and eligibility of government agencies and non-government partners to access grants	Increasing number of agencies and partners are able to apply for, receive, and manage grants, including climate financing	Increasing number of grantees Increasing number of grant types Increasing amount of grants					
11.1.3	States are adequately resourced to undertake environmental management ⁶³	Land and catchment management undertaken within a funded environmental management framework	Percentage of state master plans that are funded					
11.2.1	Improve delivery of MEA, National, and State commitments through coordinated action	MEA commitments mainstreamed into agency and sector plans and implemented through strong coordination through the NEPC (National) and Regional Planning Body (State)	Regular meetings of the NEPC and Regional Planning Body, with transparency in decision making					
11.2.2	Align MEA, SDG, GEF, GCF, Regional, and National indicators and streamline reporting processes and data management as part of a National Monitoring & Evaluation system	Core indicators housed at specific agencies and updated regularly	Increasing number of MEA targets reached					
11.3.1	Review and update Republic of Palau Environmental laws and regulations: Biosecurity Regulations Marine Protected Act Regulations Endangered Species Regulations Marine Mammal Act Regulations	Improved regulatory environment and enabling conditions	Number of laws and regulations adopted by 2025					

63 Townsend (2007). Environmental Review and Stock-take Report. ADB. 86pp. (page 46)

				Thousands	Hundreds of thousands	Single millions	Tens of millions	Hundreds of millions
N N N	NEMO AGUON	larget	Performance indicator	<\$100,000	\$100,000- 999,999	\$1,000,000- 9,000,000	\$10,000,000- 99,000,000	> 100,000,000
11.3.2	Develop or amend and pass and implement Republic of Palau Environmental laws and regulations: National Planning Act Building Codes (in line with National Planning Act)	Improved regulatory environment and enabling conditions	Number of laws and regulations adopted by 2025					
1- 4.	Review and update Republic of Palau Environmental Policies and Strategies: Energy Policy Sustainable Land Management Policy Resilient Agriculture and Aquaculture Policy (e.g. Food Policy) (in line with NDC Policy) PAM Act (especially section on enforcement) PAME (PA Management Effectiveness) assessment tool) for PAN	Informed policies and strategies guide best practice national environmental protection and management	All relevant policies, Acts and strategies reviewed and amended as necessary by 2025					
11.4.2	Encourage updates and mainstream environmental objectives into other and Republic of Palau Policies and Strategies: • Cultural Policy • Gender Mainstreaming Policy • Tourism Policy • NDC Policy (in line with Food Policy) Project Management Manual (Office of Project Management (OPM))	National policies are aligned across policies	Number of environmental sections included in other national policies					
11.5.1	Provide extension services to State Governments to improve their capacity to implement environmental projects and programs, including: • Personnel Policy (to keep capacity after election turnover; including for PAN office and Land Planner) • Master Planning and Zoning, and implementation • Public Finance management (including PAN finance) • Grant writing and management	Environmental conditions in the field conserved	Number of trained State personnel in skilled positions increases					
11.6.1		Community buy-in for environmental laws	Decreasing number of infractions					
11.6.2	Improve enforcement of environmental laws, especially PAN, Endangered species, Protected species, EQPB regulations	Conflicts in national and state enforcement capacities resolved	Increasing number of trained and certified Rangers able to enforce an increasing number of environmental laws					

C S LL	S City C CHAIN	Towns	Dough and control	Thousands	Hundreds of thousands	Single millions	Tens of millions	Hundreds of millions
	Action	lalyer		<\$100,000	\$100,000- 999,999	\$1,000,000- 9,000,000	\$10,000,000- 99,000,000	> 100,000,000
11.7.1		Processes for public participation defined and implemented consistently	Increasing participation in public hearings					
	development througn public nearings and volunteerism	State permitting processes have a public hearing requirement that is implemented	Increasing diversity or participants on Commissions, Boards, and other advisory groups					
11.8.1	Mainstream gender and social inclusion into environmental decisions and activities	Women and men participate equally in environmental and risk management decision making	Gender and social inclusion perspectives are integrated into all national environmental policy, legislation, and programs					
11.8.2	Define vulnerable groups and mainstream vulnerable groups into environmental decision making, based on collection of gendered, social, and cultural statistics	Improved service delivery	Number and demographics of vulnerable groups defined by 2024					
11.9.1	Modernise environmental communications and improve knowledge management (access to laws, policies, plans, best practices, lessons, etc.)	Websites with relevant information consistently updated	Existence of a national library					
11.9.2	Standardise spatial data and increase public access and use of spatial data in decision-making	PALARIS becomes repository for up-to- date spatial data	Website enables controlled access and use of spatial data					

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