

# REVIVING MELANESIA'S OCEAN ECONOMY

The case for action

in association with

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This report is available at: ocean.panda.org

#### Front cover

A child from Tavewa Island, Fiji, holds a recently caught fish. Depleted coastal fisheries could seriously constrain opportunities for Melanesia's children.

© Shiri Ram / WWF

## THE OCEAN IS MELANESIA'S LIFEBLOOD

The people of Melanesia share a strong social, cultural and economic dependency on the sea. This report, Reviving Melanesia's Ocean Economy, highlights that the ocean and coastal assets of the Melanesian region have an estimated annual economic value of at least US\$5.4 billion and a total ocean asset base estimated conservatively at US\$548 billion.

The Pacific island countries and territories – often referred to as a 'sea of islands' – are divided into three sub-regions: Melanesia, Micronesia, and Polynesia. Melanesia comprises Papua New Guinea, Solomon Islands, Vanuatu, New Caledonia and Fiji.

Pacific island cultures have all traditionally emphasized wise resource use, environmental stewardship and the fact that the ocean connects rather than separates them.



### FIGURE 1 WHAT IS THE ECONOMIC VALUE OF MELANESIA'S OCEAN?

#### OCEAN ASSET VALUE IN MELANESIA - SHARED WEALTH FUND



ENABLED BY THE OCEAN

9% Cruise industry8% Marine tourism

53% Marine fisheries: Commercial

Aquaculture / mariculture

Marine fisheries: Non-industrial

2%

1%

### CORAL REEFS, MANGROVES, FOOD SECURITY, LIVELIHOODS, STORM PROTECTION, TOURISM ASSETS — THEY'RE ALL CONNECTED

#### **PRIMARY ASSETS**

(Q)

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Marine Fisheries	US\$ 124.1 bn
Mangroves	US\$ <b>109.6</b> bn
Coral Reefs	US\$ <b>145.7</b> bn
Seagrass	US\$ <b>151.4</b> bn
ADJACENT ASSETS	
Productive Coastline	US\$ 14.7 bn
	Marine Fisheries Mangroves Coral Reefs Seagrass ENT ASSETS Productive Coastline





#### HOW DOES MELANESIA'S GROSS MARINE PRODUCT COMPARE TO REGIONAL GDPs?

(data from 2015)



on the BCG methodology, please visit:

ocean.panda.org

IMF World Economic Outlook 2015; UN country data: New Caledonia UNSD 2016.



Simione Koto with a string of reef fish freshly caught on Ono, Kadavu, Fiji. Island communities are heavily reliant on their marine resources for sustenance and livelihoods.

## IT IS BECOMING INCREASINGLY EVIDENT THAT MELANESIA'S OCEAN AND ITS PRECIOUS ASSETS ARE UNDER THREAT FROM LOCAL, REGIONAL AND GLOBAL PRESSURES.

These changes have implications for the environment, food security, employment and the well-being of human communities both within the region and beyond. The physical and chemical conditions in the ocean are changing faster than at any other point in history, and there is a real chance that the declining ocean assets of the Melanesian region will constrain options for future generations. From an economic standpoint, the ocean can be seen as a "shared wealth fund", with the principal capital of the Melanesian region being eroded at a rate that undermines the ocean's value for current and future generations. It is time to reset the agenda before this ocean capital base collapses.

#### FIGURE 2 STATE OF MARINE ASSETS IN MELANESIA





#### YEARS OF OVEREXPLOITATION OF SEA CUCUMBERS AND A BOOM-BUST APPROACH TO MANAGEMENT HAVE WEAKENED POPULATIONS' ABILITY TO FULLY RECOVER. 9

CASE STUDY: SEA CUCUMBER EXPORTS

Exports of beche-de-mer from Fiji, Papua New Guinea, Solomon Islands, Tonga and Vanuatu from 1971 - 2012





'The mass global coral bleaching of 2015-2016 impacted Melanesia, including Fiji, as shown here. Unfortunately, some areas will likely not fully recover.

In this context, the region's leaders are faced with two pathways. The first is the current trajectory of increasing pressure on ocean assets coupled with inadequate policy commitments and/or action. This pathway will lead to a degraded future in which opportunities for the inhabitants of the Melanesian region will be significantly diminished. The second trajectory is to chart a course based on knowledge and understanding, to create a sustainable and inclusive blue economy. Such an approach will ensure that economic development drawing on ocean and coastal assets contributes to a true prosperity and resilience of the Melanesian region long into the future.

## VISIONARY LEADERSHIP AND BOLD AND DECISIVE ACTION IS NEEDED NOW BY LEADERS AND CITIZENS AS THE REGION PREPARES TO WITHSTAND GREATER PRESSURES THAN EVER BEFORE.

This report is a rallying call for decision makers across the region who know that action on a scale much greater than so far realized is necessary – starting today. Community support, leadership across and between sectors, new financial resources and whole-of-government implementation at national levels are needed to rebuild the ecosystems and habitats that support fisheries for essential food and income. These habitats in turn underpin valuable sustainable tourism industries and provide essential coastal protection that secures life and livelihoods for families across the region.

The global spotlight is trained on Melanesia in 2017 given the region's major role in implementing the UN Sustainable Development Goals (SDGs) – including the ocean goal – providing Melanesian leaders with the chance to show the world how to achieve a sustainable and inclusive blue economy without delay and ensure that their people continue to reap the full suite of benefits from their cherished ocean assets.

### FIGURE 3 TWO FUTURE SCENARIOS FOR MELANESIA



#### SUSTAINABLE BLUE ECONOMY SCENARIO

PROTECTED, HEALTHY HABITATS

are generating food, livelihoods and new economic opportunity through equitable access and benefit sharing.

LOCALLY MANAGED MARINE AREA (LMMA)

Implement the Melanesian Spearhead Group Inshore Fisheries Roadmap "" "

Deliver Spatial Planning and Protection to Maintain Important Resources

Apply Ecosystem-Based Approaches to Fisheries Management

Slow Climate Change and Build Resilience

Support Effective Partnerships

Invest in Education and Gender Equality

ALL FISHERIES ARE WELL-MANAGED AND MONITORED, providing long-term economic and food security benefits at the national level.

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Two boys head to Katawaqa Island, Fiji, where turtles nest. Visionary leadership and bold and decisive action are needed to bring about a new era of sustainability and hope for our children.

## CHOOSING A HEALTHY OCEAN AND A SUSTAINABLE AND INCLUSIVE BLUE ECONOMY WILL REQUIRE INVESTMENT AND EFFORT, BUT THIS WILL BE REPAID MANY TIMES OVER THROUGH INCREASED PRODUCTIVITY, STABILITY AND SECURITY.

### ACTION 1

#### IMPLEMENT THE MELANESIAN SPEARHEAD GROUP INSHORE FISHERIES ROADMAP

The Melanesian Spearhead Group Roadmap for Inshore Fisheries Management and Sustainable Development 2015–2024 was initiated at the request of the countries' prime ministers. It derives from the concern for community livelihoods and in response to the recognition that the management of inshore (i.e. small-scale) fisheries – upon which the majority of Melanesia's coastal populations depend – is currently unsustainable.

Immediate priorities for inshore and offshore fisheries management should include focused efforts on effective policies, legislation, management frameworks and financing mechanisms, coupled with capacity-building initiatives, improved data collection and resource mobilization. Budget lines and staffing of government fisheries agencies need to be specifically directed toward improving inshore and coastal fisheries management, as opposed to the current focus on offshore fisheries development and expansion. Such action will be central to delivering on SDG2 on food security.

ACTION 2

### DEVELOP AND IMPLEMENT SPATIAL PLANNING AND PROTECTION TO MAINTAIN IMPORTANT RESOURCES

Networks of spatial management tools including marine protected areas (MPAs), locally managed marine areas (LMMAs) and marine managed areas (MMAs) can make major contributions to communities and national interests by enhancing food security and livelihoods, and through supporting economically-important industries like fishing and tourism. They are a foundational element of the sustainable development approach, including SDG14 and can also be cost-effective solutions for assisting with climate change adaptation, mitigation and disaster risk reduction. To deliver on their great potential, these networks need to be developed with leadership from local communities, strategically-positioned and well-managed. Melanesia has demonstrated leadership in the development of the LMMA approach, for example, but like much of the world, there is a wide gulf between implementation and the sciencebased targets set in many agreements to which the countries are signatories.

Spatial conservation should be developed as part of a multi-sectoral approach that seeks to establish active, far-sighted marine spatial plans which will allow for the assessment of gaps, and ensure that protected areas are prominently represented. Successes in zone-based management at the sub-regional level – such as the Parties to the Nauru Agreement Vessel Day Scheme initiative and the widespread adoption of community coastal resource management in LMMAs – help guide spatial planning to integrate conservation and sustainable use of marine resources.

### ACTION 3 APPLY ECOSYSTEM-BASED APPROACHES TO RESOURCE MANAGEMENT

Pushing a fishery beyond the sustainable rate of harvest may yield short-term benefits, but will eventually run the fishery down to a point where productivity decreases, and the fishery eventually collapses. Ecosystem-based approaches to resource management provide an integrated approach that considers all ecosystem components and human activities. Where possible, management measures should be combined with spatial conservation measures, such as LMMAs, MMAs and MPAs, integrated watershed management and investment in sustainable land use measures. The use of spatial planning through inclusive multi-sector consultation processes is a key tool in the ecosystem-based management approach that supports the implementation of the Melanesian Spearhead Group's Green Growth Framework for sustainable development.

Adequate spatial planning within an ecosystem-based approach is a basis for delivering toward SDG14 on 'life below water'.

### ACTION 4 SLOW CLIMATE CHANGE AND BUILD RESILIENCE

Climate change poses a significant risk to the Melanesian region, including immediate climate threats to Pacific fisheries, coastal communities and coral reefs. Direct action on climate change mitigation and adaptation is required to ensure that Melanesian countries reduce their vulnerability. An overall climate strategy for Melanesia should include the development of regional plans for climate-smart fisheries; dynamic, locally-appropriate spatial planning and management including LMMAs, MMAs and MPAs; low footprint aquaculture; efficient fishing vessels; and research on climate-tolerant species. A whole-economy perspective that values carbon neutrality will help to foster growth through accessing climate finance and through investment in new renewable technologies. Such actions will be essential to safeguard the economic and social well-being of future generations of the Melanesian region – and to ensure that Melanesia and the international community achieve the commitments of the Paris Climate Agreement and address SDG13 on climate change.

## ACTION 5 SUPPORT EFFECTIVE PARTNERSHIPS

People, ecosystems and industry must be considered as integrated elements when making decisions about ocean systems. Similarly, ocean protection and restoration is the collective responsibility of government alongside local communities and responsible business. Solutions must involve holistic thinking that considers natural, social and economic needs and limits, and recognizes the institutional and governance context of Melanesia. Partnerships should be encouraged and supported to identify, develop and implement innovative, appropriate technologies and solutions for engaging market forces. These in turn must protect people, fisheries and ecosystems while enabling businesses to develop sustainable solutions in economically important industries such as fishing, tourism and transport. Effective policy must be well resourced, implemented and capable of regulating diverse sectors such as mining, tourism and agriculture. Establishing a platform for ocean knowledge and solutions would help disseminate and transfer skills and capacity across all nations and across sectors, facilitating the development of innovative solutions. Together these actions would deliver toward SDG17 on partnerships.

### ACTION 6 INVEST IN EDUCATION AND GENDER EQUALITY

Gender equality and women's empowerment have been shown to contribute to economic growth, sustainable development and the stability of nations. As such, one of the most important opportunities for building capacity lies in investing in women, youth and children. There is thus an urgent need for Melanesian leaders to invest resources into continuing to support gender equality and ensuring access to education for women, youth and children, and to include them in decision-making on natural resource management. This is key to realizing the aims of SDG5 on gender equality.

The precious ocean and coastal assets that have sustained Melanesian communities for millennia now need to be managed with renewed urgency to reflect the era of unprecedented change challenging the region, and the planet. Time is not on our side.

The deep dependence of Melanesians on the ocean is increasingly precarious as the underlying coastal and ocean assets are depleted by local, regional and global pressures. Not to act with resolve is to condemn to an uncertain future, these essential resources and the people who depend on them.



STRONG DECISIONS NOW – FOLLOWED BY SUSTAINED ACTION COUPLED WITH PRUDENT INVESTMENTS TO SECURE MELANESIA'S OCEAN AND COASTAL NATURAL ASSETS – WILL ENSURE A HEALTHIER, MORE CERTAIN FUTURE FOR MELANESIA'S COMMUNITIES AND ECONOMIES, FOR DECADES TO COME.

# Melanesia's ocean in numbers





experiencing rates of sea level rise three to four times the global average.

## **DRD**

The economic output of the ocean in Melanesia makes it the third largest economy in this region.



#### Why we are here

To stop the degradation of the planet's natural environment and to build a future in which humans live in harmony with nature. panda.org

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## SUSTAIN OUR SEAS

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