



Conservation and  
Environment Protection  
Authority

# PROTECTED AREAS POLICY IMPLEMENTATION PLAN 2018-2028

November 2017

This publication was developed through the Conservation and Environment Protection Authority in partnership with the United Nations Development Programme's Global Environment Facility.



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Resilient nations.*



ISBN: 978-982-04-0725-1 (print) 978-982-04-0726-8 (ecopy)

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# ACRONYMS

<i>ABSA</i>	Access Benefit Sharing Agreement
<i>AG</i>	Attorney General
<i>BPNG</i>	Bank of Papua New Guinea
<i>CA</i>	Conservation Areas
<i>CARR</i>	Comprehensive, adequate, representative and resilient
<i>CBD</i>	Convention on Biodiversity
<i>CBOs</i>	Community-Based Organizations
<i>CCA</i>	Community Conservation Areas
<i>CCDA</i>	Climate Change Development Authority
<i>CEPA</i>	Conservation and Environment Protection Authority
<i>CIP</i>	Capital Investment Programme
<i>CITES</i>	Convention on International Trade in Endangered Species
<i>CSOs</i>	Civil Society Organizations
<i>DAL</i>	Department of Agriculture and Livestock
<i>DDAs</i>	District Development Authorities
<i>DJAG</i>	Department of Justice and Attorney General
<i>DMPG</i>	Department of Mineral Policy and Geo-hazards
<i>DNPM</i>	Department of National Planning and Monitoring
<i>DoF</i>	Department of Finance
<i>DoT</i>	Department of Treasury
<i>DPLGA</i>	Department of Provincial and Local Level Government Affairs
<i>DPM</i>	Department of Personnel Management
<i>EHP</i>	Eastern Highlands Province
<i>FPIC</i>	Free Prior Informed Consent
<i>GEF</i>	Global Environment Facility
<i>GoPNG</i>	Government of Papua New Guinea
<i>IBR</i>	Institute of Binatang Research
<i>IPA</i>	Investment Promotion Authority
<i>IPR</i>	Intellectual Property Rights
<i>IPZ</i>	Integrated Protected Zone
<i>IRC</i>	Internal Revenue Commission
<i>IUCN</i>	International Union for Conservation of Nature
<i>JICA</i>	Japanese International Cooperation Agency
<i>KI</i>	Kokoda Initiative
<i>LLG</i>	Local Level Government

<i>LMMA</i>	Locally Managed Marine Areas
<i>M&amp;E</i>	Monitoring and Evaluation
<i>MAG</i>	Management Advisory Group
<i>MEAs</i>	Multi-lateral Environment Agreements
<i>MOA</i>	Memorandum of Agreement
<i>MRA</i>	Mineral Resources Authority
<i>MTDP</i>	Medium Term Development Plan
<i>NCC</i>	National Conservation Council
<i>NCDC</i>	National Capital District Commission
<i>NEC</i>	National Executive Council
<i>NFA</i>	National Forest Authority
<i>NGOs</i>	Non-Government Organizations
<i>NMAG</i>	National Museum and Art Gallery
<i>NMSA</i>	National Maritime Safety Authority
<i>NPART</i>	National Protected Areas Round Table
<i>NRI</i>	National Research Institute
<i>NTNA</i>	National Training Needs Assessment
<i>PA</i>	Protected Areas
<i>PAPIP</i>	Protected Areas Policy Implementation Plan
<i>PAN</i>	Protected Areas Network
<i>PM&amp;NEC</i>	Prime Minister and National Executive Council
<i>PNG</i>	Papua New Guinea
<i>PNGFA</i>	Papua New Guinea Forest Authority
<i>PNGNMAG</i>	Papua New Guinea National Museum & Art Gallery
<i>POWPA</i>	Programme of Work on Protected Areas (Programme of the CBD)
<i>RCF</i>	Research and Conservation Foundation
<i>RPART</i>	Regional Protected Areas Round Table
<i>SDGs</i>	Sustainable Development Goals
<i>SOP</i>	Standard Operating Procedure
<i>StaRS</i>	Strategy for Responsible Sustainable Development
<i>TF</i>	Trust Fund
<i>TNA</i>	Training Needs Assessment
<i>UN</i>	United Nations
<i>UNDP</i>	United Nations Development Programme
<i>UoG</i>	University of Goroka
<i>VNP</i>	Varirata National Park
<i>WCS</i>	World Conservation Society

## FOREWORD

Papua New Guinea (PNG) contains more than 7% of the world's biodiversity in less than 1% of the world's land area, placing PNG in the category of a mega-biodiverse country.

This Protected Areas Policy Implementation Plan (PAPIP) guides our countries' organisations, agencies and resource-owning communities to harmonise our sustainability efforts towards developing new, and essential, protected areas in PNG. It translates the five pillars of the Government of PNG's Policy on Protected Areas, released in 2014, into corresponding goals with clear objectives, strategies, targets, indicators and actions. Importantly, this plan reaffirms the central role of protected areas and conservation in ensuring PNG continues to build a society that is smart, fair, wise and healthy.

The PAPIP recognises issues regarding current methods of conservation and environment protection in PNG. It details the approach that the national Conservation and Environment Protection Authority (CEPA), tasked with the development and implementation of this Plan, will follow and includes Frameworks on Implementation, Schedules, Monitoring and Evaluation for each of the five goals, including associated timeframes and costs.

This Plan has been developed by Papua New Guineans through a broad consultative approach to establish clear management and governance structures, strengthen collaboration between various stakeholders, and raise awareness of the critical value of protecting PNG's environment.

I am personally committed to this comprehensive plan, which outlines how to support the core elements of our Policy on Protected Areas and reaffirms the PNG Government's recognition of the importance of natural ecosystems, biodiversity, conservation, people, culture and sustainability.



A handwritten signature in blue ink.

**Hon. John Pundari, CMG, MP**  
Minister for Environment &  
Conservation and Climate Change

## ENDORSEMENT

This plan provides a tremendous opportunity to give conservation in Papua New Guinea (PNG) the attention and recognition it deserves. As we know, our nation's biodiversity is a critical resource for local communities and customary landholders, providing food, shelter and medicines which are irreplaceable and economically significant.

However, increasing pressure on resources from population growth and industrial developments have the potential to negatively impact our biodiversity.

This Protected Areas Policy Implementation Plan is a tool which can guide organisations, agencies and resource-owning communities to work collaboratively towards creating new Protected Areas in PNG. It sets out a clear vision for a future Protected Area Network, which includes Special Management Areas, Community Conservation Areas, Locally Managed Marine Areas and National Parks.

Significantly, this plan also commits to the protection of PNG's unique biological and cultural heritage, which is supported by a new sustainable funding model, based on biodiversity, payments for environmental services and capacity building throughout our country.

I look forward to putting this plan into action through the Conservation and Environment Protection Authority (CEPA) to achieve sustainable development for betterment of all Papua New Guineans.



A handwritten signature in blue ink.

**Mr. Gunther Joku**  
Managing Director -  
Conservation and Environment  
Protection Authority

## EXECUTIVE SUMMARY

This Protected Areas Policy Implementation Plan (PAPIP) aims to guide organizations, agencies and resource-owning communities of Papua New Guinea (PNG) to collaborate and harmonize their sustainability efforts towards developing new protected areas (PA) in PNG.

The PAPIP supports the vision of the PNG Policy on Protected Areas (PPA) which states:

***“Our protected area system across land and sea safeguards our precious and outstanding natural and cultural heritage. Together, we manage these areas effectively for all the people of Papua New Guinea.”***

It translates the five pillars of the PPA into corresponding goals with clear objectives, strategies, targets, monitorial indicators and actions.

The PAPIP was developed by Papua New Guineans through a wide consultative approach that embraced the whole of government from the national to the sub-national level, as well as resource-owning communities, the private sector, non-government organizations (NGOs) and research institutions. It is a ‘home-grown’ Plan that encapsulates the vision and desires of all who were consulted.

a) The Constitution which provides the underlying directive principles

- b) The National Strategy for Responsible Sustainable Development (StaRS) which prescribes the consequent paradigm
- c) The Vision 2050 Human Development Index objective and its subsequent reviews
- d) The Medium Term Development Plans (MTDPs)
- e) Sector Plans
- f) Annual Budgets relating to the implementation of the MTDP
- g) Other documents made for such purposes.

The Act clearly states that ‘...the elements of the National Planning Framework shall operate in a Cascading manner from (a) to (g).

International agreements also influence the development of this Plan. As a signatory to the United Nations (UN) Convention on Biodiversity (CBD), PNG has committed to establishing a ‘comprehensive, effectively managed and ecologically representative national system of protected areas’, including specific targets of land and sea areas, by 2020.

It is a vital document with a mandate derived directly from the 4th Goal of the PNG Constitution and its Directive Principles, which states:

***“Papua New Guinea’s natural resources and environment should be conserved and used for all and should be replenished for the benefit of ourselves and prosperity of the environment and its sacred, scenic and historical qualities for future generations”.***



Coral life, Pacific Ocean, PNG © Valerij Novickis/ Shutterstock

# 1.0 INTRODUCTION

The development of the PAPIP was a result of the approval of the PAP by the National Executive Council (NEC) in 2014. The NEC Decision No.385/2014 directed the Minister for Environment and Conservation and Climate Change to:

1. Implement the National Protected Area Policy; and
2. Formulate an Implementation Plan with financial estimates.

The PAP sets out a clear vision for a protected areas network (PAN) which includes Special Management Areas, Community Conservation Areas (CCA), Locally Managed Marine Areas (LMMA) and national parks. The Policy commits to the protection of PNG's unique biological and cultural heritage that is supported by a new sustainable funding model, based on biodiversity, payments for environmental services to enable active management, and capacity building throughout PNG. It outlines legislations that support and enable the establishment of a PAN and provides governance and management arrangements for PA across land and sea.

***“Through the PPA, the Government recognizes the importance of natural ecosystems, biodiversity, conservation, people, culture and sustainability. It reaffirms the central role of PA and conservation in building a society that is smart, fair, wise and healthy.”***

The role of local communities and customary landowners is fundamental and so it is critical that the PAN support their livelihoods and protect PNG's unique biodiversity. The Policy recognizes and welcomes partnerships in PA with all levels of Government, NGOs, civil societies, industry and especially local communities.

The PPA outlines five pillars:

1. Governance and Management of Protected Areas;
2. Sustainable Livelihoods for Communities;
3. Effective and Adaptive Biodiversity Management;
4. Managing the Protected Areas Network; and
5. Sustainable and Equitable Financing for Protected Areas.

## 1.1 PURPOSE OF THE PAPIP

The purpose of PAPIP 2018-2028 is embedded in the five pillars of the PPA, as reflected in Figure 1 below. The five pillars guide the Conservation and Environment Protection Authority (CEPA) to develop the PAPIP, which assists in part to addressing ongoing issues including:

- the current PAN not working effectively
- no plan to guide PAN development or management
- legislation is fragmented and unclear
- management responsibilities are confusing
- activities of Government, NGOs, provincial and local level governments (LLGs) are not well coordinated and lack direction
- biodiversity loss is accelerating
- communities are not benefitting as they could be.

Thus, the PAPIP serves several purposes. These are:

- Raise awareness on the value of PA in PNG
- Establish networking and strengthen collaboration among Government and various stakeholders including local communities, NGOs, private sector and donors
- Contribute to establishing clear management and governance structures/guidelines for effective protected areas management
- Assist in improving coordination and instill a sense of direction amongst key stakeholders
- Enable effective collaboration with relevant partners to establish an equitable, sustainable benefit sharing mechanism for local communities
- A one-stop-shop marketing tool for soliciting government/donor financial and technical support for PAPIP implementation.

## 1.2 RATIONALE FOR THE PAPIP

Rationale for the Plan rests on several grounds. Firstly, and as stated above, NEC Decision No. 385/2014 directed the Minister to implement the National PPA and formulate an implementation plan with financial estimates.

Secondly, the PPA calls for the establishment of a PAN under its Vision:

***“Our protected area system across land and sea safeguards our precious and outstanding natural and cultural heritage. Together, we manage these areas effectively for all the people of Papua New Guinea.”***

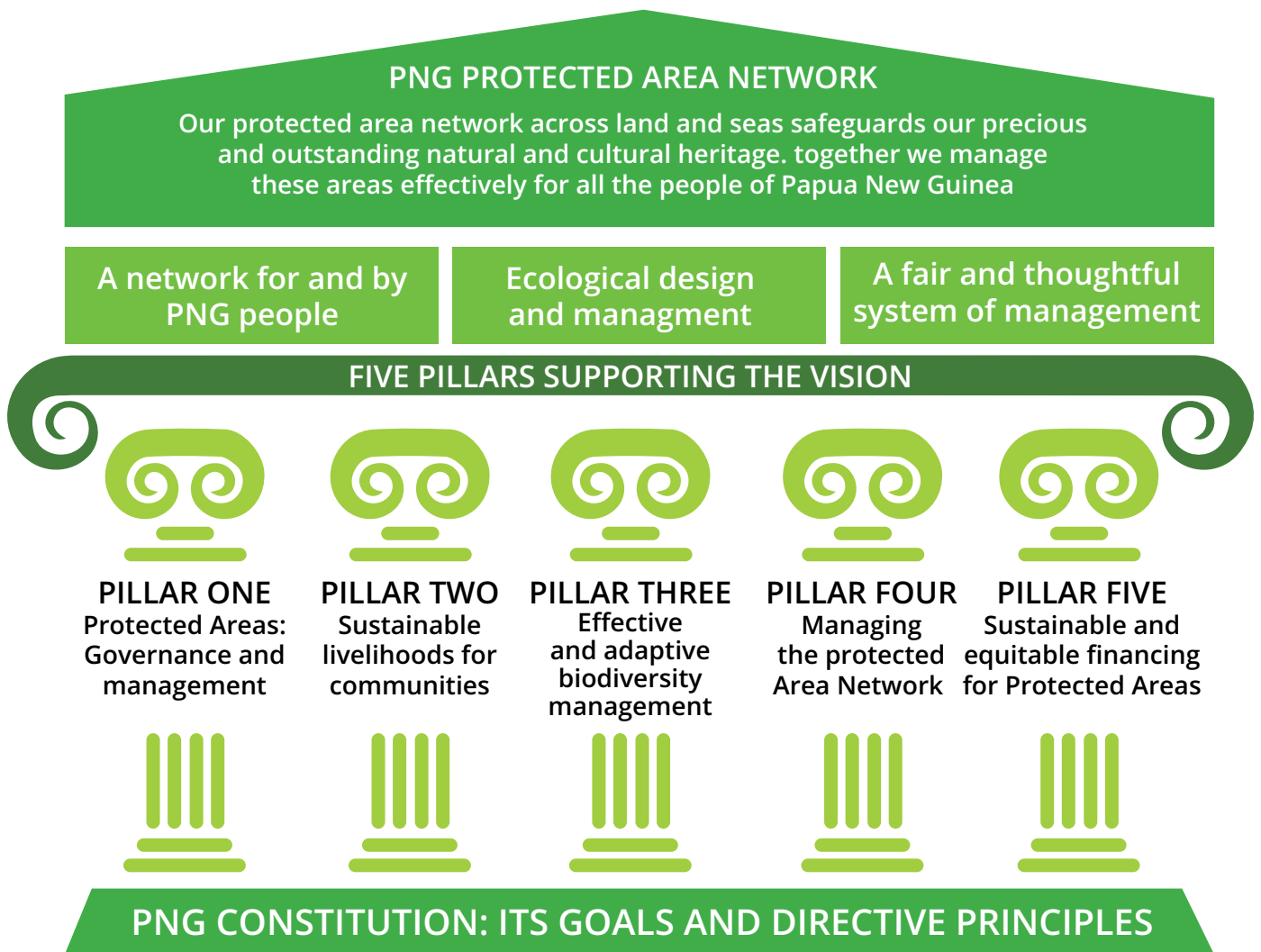


Figure 1: Framework for National Protected Area Network

Taking its cue from the NEC directive, CEPA translated the five pillars of the Policy into five Implementation Plan Goals.

### 1.3 PAPIP GOALS

#### Goal 1 – Governance and management of Protected Areas is enhanced

The PAN will consist of a range of PA types, which will form the cornerstone of an integrated approach to conserve nature and provide resilience to climate change on both land and sea. The Network will be established and managed to conserve the country's outstanding biodiversity and provide benefits for local communities, customary landowners and all PNG people. The Network is built and managed with free, prior and informed consent (FPIC) of customary landowners.

National, provincial, district and LLGs will provide effective legislation, policy and institutional support and assist with capacity development and practical support, including training and mentoring.

The system will comprise two groups of PA:

- National PA including national parks and conservation areas. These areas will be gazetted under national legislation
- Regional PA including CCA and LMMA. These areas will be gazetted through provincial government legislation.

#### Goal 2 – Livelihoods of the communities are sustained

The support, enthusiasm and dedication of customary landowners and communities for PA are an essential component of this Plan. Governments (National, Provincial, District and Local), in collaboration with relevant stakeholders (e.g. NGOs and customary landowners) will develop transparent processes to establish Conservation and Benefit Sharing Agreements to enable the establishment of PA on customary lands.

The Conservation and Benefit Sharing Agreements will take account of the diversity of social and cultural

<sup>1</sup>Papua New Guinea Policy on Protected Areas (PPA), pg. 17



practices and will identify the roles and responsibilities of the customary landowners in the establishment, implementation and monitoring of the PA.

**Goal 3 – Effective and adaptive biodiversity management that supports the PAN to ensure that the values of the PA are maintained to the highest possible extent**

***“Maintaining natural integrity, cultural values and natural landscapes and seascapes across time is the highest priority of PA management, along with delivering sustainable benefits to customary landowners.”***

Management effectiveness of PA will be evaluated regularly through audits. Management planning plays an important role in PA as part of an adaptive management system and for building consensus among stakeholders and managers. The emphasis will be on a good planning process. A requirement for planning is built into the PA legislation. Different PA types and zones will be managed on land and sea according to the values of management plans, zoning and conservation agreements for that area.

**Goal 4 – Protected Area Network that is relevant to PNG people; protects the diversity of life, landscapes and seascapes; and forms a well-connected, adequate and resilient system**

A robust scientific basis will be used to prioritize investment in PA, but the initial emphasis will be on better management of selected existing PA projects rather than delaying action while awaiting better information.

An efficient and effective process will be developed for the legal establishment, gazettal, management and sustainability of PA by the national PAN. This will include conversion of existing areas and establishment of new areas. It will allow for de-gazettal where existing areas do not meet the new standards.

No new areas will become PA without the support and agreement of the customary landowners and communities. Support from NGOs will also be critical.

**Goal 5 – Sustainable and equitable financing supports the PAN and established PA**

Adequate and reliable financial resources will be needed for effective designation and management of PA. Each PA will require annual budgets for development and implementation of management plans (including capital and recurrent expenditure) and to support the customary landowners and communities in their management of the PA.

Funding for this Plan will be obtained from a mix of sources including but not limited to:

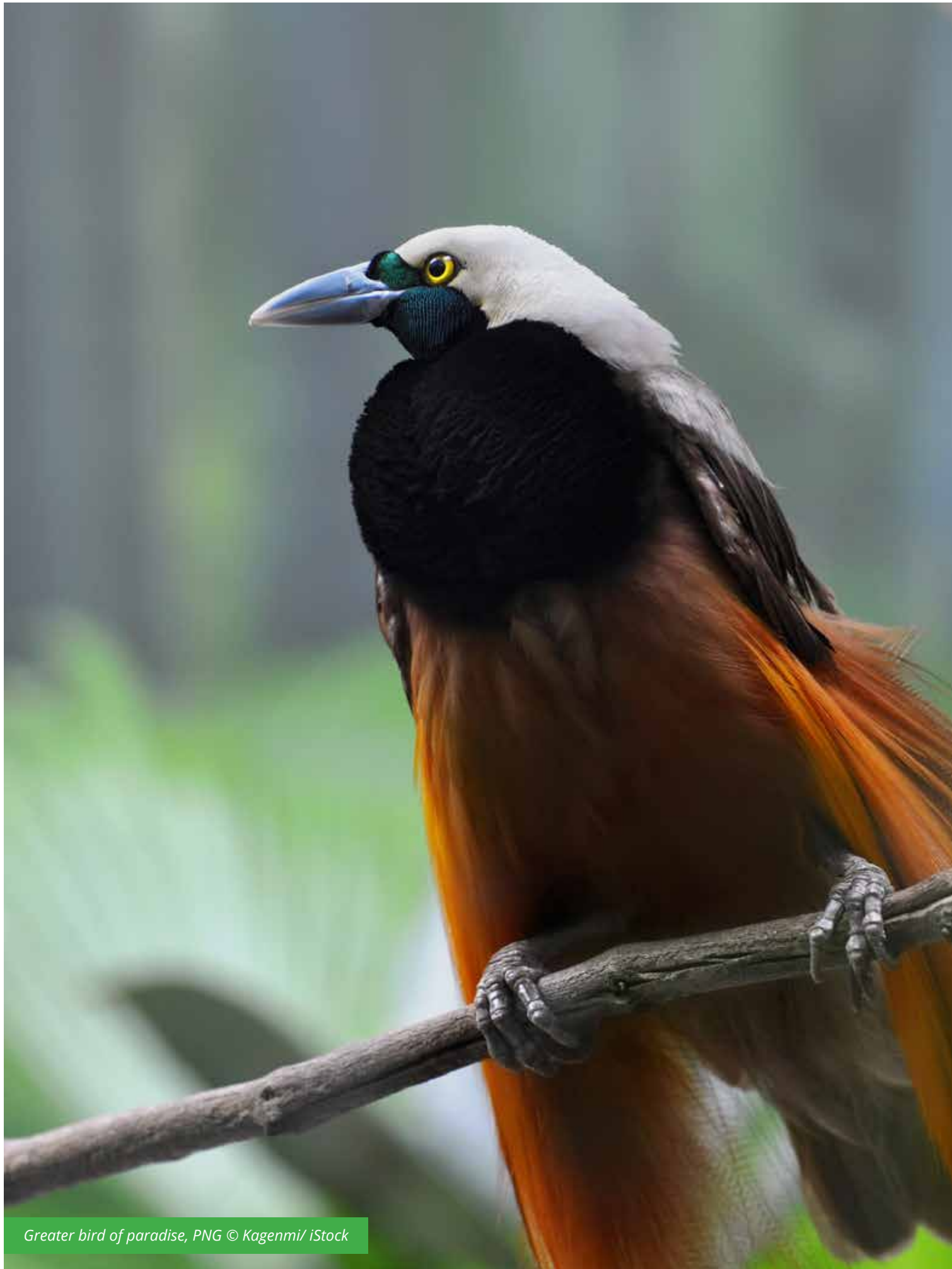
- Environmental offsets to be paid by resource companies holding environment permits under the Environment Act 2000
- Overseas development assistance, in particular funding from the Global Environment Facility (GEF) which provides significant funding to PNG on a four-year budgetary cycle
- Co-financing from the national budgets will be necessary to maintain the international communities' commitment to protecting biodiversity in PNG.

A Biodiversity Trust Fund, to be established under its own legislation, is the proposed financial vehicle for managing and investing funding for PA. The proposed Trust Fund will operate on an endowment basis and provide the regular income streams required to meet the obligations in Conservation and Benefit Sharing Agreements.

#### **1.4 PLAN TIMEFRAME**

The PAPIP 2018-2028 covers a ten-year period. This is in line with other overarching national policies and strategies such as the Vision 2050, the Strategy for Responsible Sustainable Development, the PPA and the MTDP3 whose objectives are embraced in this Plan.

This Plan will be subject to two reviews – at the end of the first five years and at the end of the Plan period. This will ensure the Plan is consistent with the political cycle of each parliament and hence maintains its policy and political relevance.



Greater bird of paradise, PNG © Kagenmi/ iStock

## 2.0 BACKGROUND

PNG contains more than 7% of the world's biodiversity in less than 1% of the world's land area<sup>4</sup>. This places PNG in the category of a mega-biodiverse country. PNG's biodiversity is a critical resource for local communities and customary landholders, for the nation and for the world.

For local communities, biodiversity provides food, shelter and medicines that are irreplaceable and without which the quality of life of people in rural areas would be substantially impacted. The economic significance of this cannot be underestimated. It also has enormous cultural significance as evidenced by the use of feathers from the birds-of-paradise and fur of tree kangaroos and cuscus in cultural ceremonies.

Biodiversity, along with cultural attractions, have potential to play a significant role in the development of a PNG tourism industry – a key plank of the Vision 2050 strategy as well as the StaRS. Internationally protected areas, including world heritage areas, are the foundation of many tourism industries. With the ageing of global populations and increasing demand for tourism the opportunities have never been better to develop PNG's own unique tourism industry.

***“PNG's biodiversity currently appears to be fairly healthy and no evidence exists that it has lost any mammal, bird or reptile species. However, the trend towards more intensive development in recent years, that which causes large-scale clearing of forests, could place many species in threat within a short period of time. Increasing pressure on marine resources from population growth and industrial developments in coastal zones also has the potential to have significant negative impacts on biodiversity.”***

PA are the primary mechanism used internationally to protect biodiversity. They are not sufficient on their own to provide protection for all components of PNG's biodiversity but they are the cornerstone of the PAPIP. The international minimum standard for a PA target is 10% of a country's land/marine areas. Currently, PNG has a little over 2% of its land area in PA and few

marine protected areas<sup>5</sup>. Of the 2% PA, the majority is gazetted under legislation which provides no effective protection for biodiversity. This is evidenced by the fact that several PA in PNG have been logged and converted to commercial agriculture<sup>6</sup>.

### 2.1 POLICY AND LEGAL FRAMEWORK FOR PLANNING FOR PA IN PNG

#### a) The Constitution of PNG and the National Goals and Directive Principles

***“Papua New Guinea's natural resources and environment should be conserved and used for all and should be replenished for the benefit of ourselves and prosperity of the environment and its sacred, scenic and historical qualities for future generations”.***

#### b) The PNG Vision 2050:

Underpinned by seven strategic focus areas referred to as Pillars, the Vision 2050 (Figure 2) is the aspiration of every Papua New Guinean to fulfil the dreams of the founding fathers to ensure that correct mechanisms are in place for PNG's future.

The Vision 2050 sets the long-term direction for the country from the Constitution and the seven pillars towards a 'Smart, Wise, Fair, Healthy and Happy Society by 2050' to '...be ranked in the top 50 countries in the United Nations Human Development Index by 2050...'

Pillar 6 of the Vision 2050 calls for urgent measures to be taken to protect PNG's environment and its future sustainability, making the PPA and its accompanying Implementation Plan well-aligned to it. The Vision 2050 also clearly articulates the importance of biodiversity and promoting sustainable use in economic planning, re-affirming that 'Oceans, marine and terrestrial areas are protected'<sup>7</sup> as one of its key performance indicators.

#### c) The National Strategy for Responsible Sustainable Development

The StaRS aims to redefine the development road map. It does this by prescribing a new strategy where greater economic growth is built on renewable resources rather than extractive activities. A priority is placed on preserving the environment and using it sustainably by adding economic value to it. The StaRS shares the National Vision of being a 'Smart, Wise, Fair, Healthy and Happy Society by 2050.'

<sup>4</sup>PNG PA Policy 2014 pg. 6

<sup>5</sup>PNG PPA Policy 2014

<sup>6</sup>ibid.

<sup>7</sup>PNG Vision 2050, pg.42

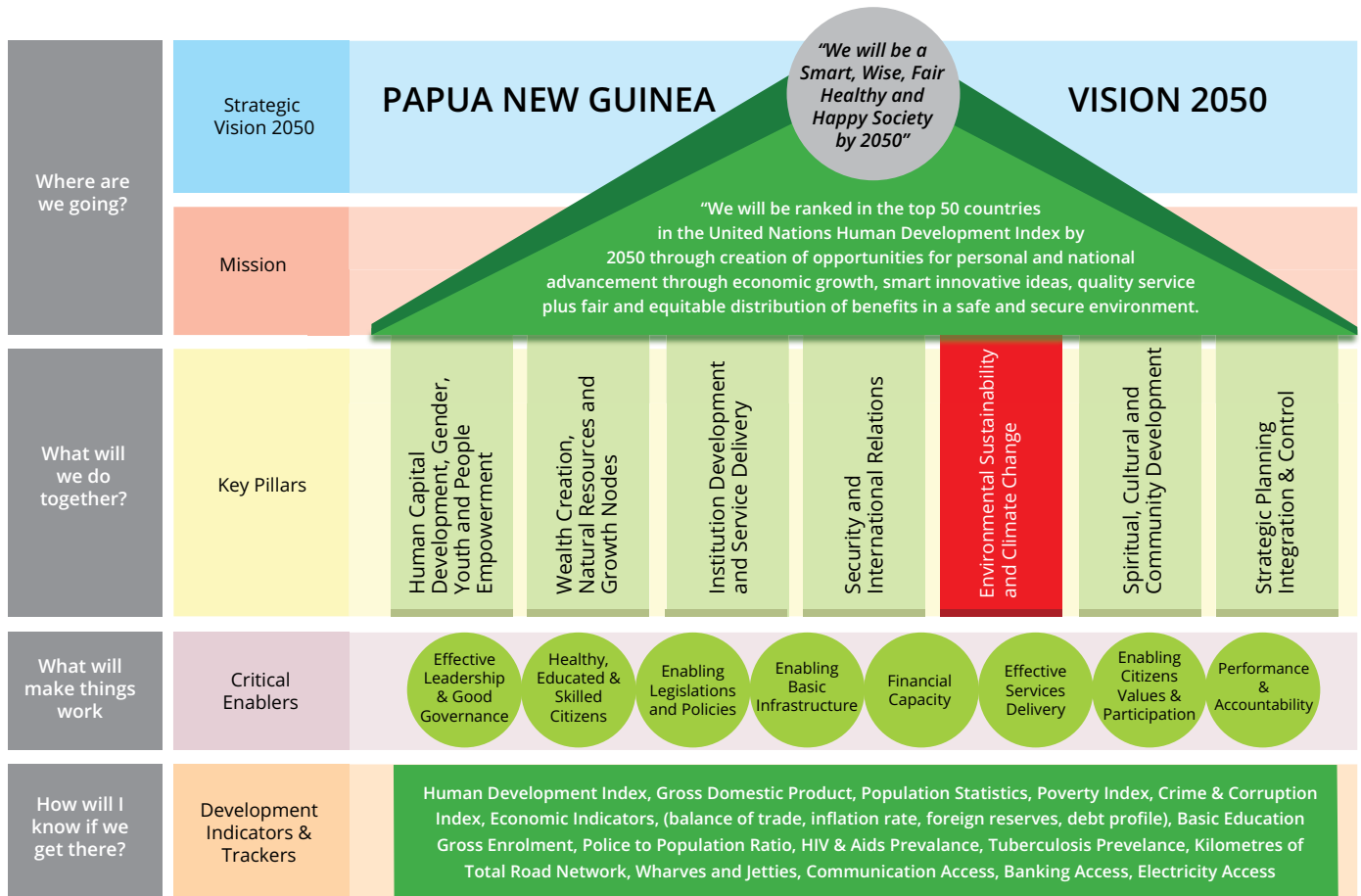


Figure 2: The PNG Vision 2050

Within the StaRS, environment is one of the three pillars of sustainable development (see Figure 4) defined as ‘development that meets the needs of the present without compromising the ability of the future generations to meet their own needs.’<sup>8</sup>

The Intersection between two Pillars equals Partial Development. For example, Social and Economic = **Equitable**; Social and Environment = **Bearable**;



Figure 3: The three pillars of sustainable development

Environment and Economic = **Viable**. Development is only **Sustainable** at the intersection of all three pillars. All three are critical pillars of sustainable development and each pillar has equal weight.<sup>9</sup>

In the context of PNG, sustainable development means continuous progressive transformation of the economy and society with minimal long-term negative impact on the environment. StaRS states that ‘Sustainable development involves meeting the basic needs and aspirations of the present and future generations without jeopardizing the ability of the environment to provide the necessary ecosystem services, including clean water, clean air, clean energy, healthy food, and processes such as absorption of pollution and decomposition of wastes.’

#### d) The PNG Medium Term Plan 2 (MTDP2)

The MTDP2 clearly articulates that environment is a fundamental Pillar of the PNG Constitution. However, the Constitutional recognition of the environment is being challenged by ongoing unsustainable development practices such as logging operations, direct tailings into rivers by mining companies and mangrove depletion, deforestation and forest degradation due to subsistence and cash crop agriculture. Therefore, the MTDP2 has

<sup>8</sup>United Nations (1987), Our Common Future, also known as Brundtland Report

<sup>9</sup>National Strategy for Responsible Sustainable Development, pg.40

proposed several strategies to sustain the environment of which the following closely align with the PAPIP:

- Strengthen customary practices for enhancing and preserving the environment
- Improve the legislative framework together with monitoring and evaluation (M&E) mechanisms in order to protect the environment
- Align national environmental programs to international commitments to demonstrate PNG's obligation to the global community
- Empower and resource agencies responsible for environmental and geophysical issues to be proactively engaged in mitigation and to establish a database for environmental accounting
- Promote and support all efforts to generate increased awareness and encourage actions to protect the environment.

It is envisaged that the MTDPs will mobilize resources and dictate expenditure priorities for the purposes of reaching the five-year socio-economic targets set within the MTDPs. It is important to note that the MTDPs do coincide with the term of each Parliament as per the Planning and Monitoring Responsibility Act 2016 (refer Figure 4 below).

### e) The Planning and Monitoring Responsibility Act 2016

Part II, Section 3, Sub-Section 2 of the Act establishes the National Planning Framework, which consists of:

- The Constitution which provides the underlying directive principles
- The National Strategy for Responsible Sustainable Development which prescribes the consequent paradigm
- The Vision 2050 Human Development Index objective and its subsequent reviews
- The Medium Term Development Plans
- The Sector Plans
- The Annual Budgets relating to the implementation of the MTDP
- Other documents made for such purposes.

The Act clearly states that 'the elements of the National Planning Framework shall operate in a Cascading manner from (a) to (g).'<sup>10</sup> This is diagrammatically presented in Figure 4.

<sup>10</sup>The Planning and Monitoring Responsibility Act 2016, pg. 3  
<sup>11</sup>CBD COP 10 Decision X2 2010



Figure 4: The National Planning Framework of Government

## 2.2 NATIONAL AND INTERNATIONAL AGREEMENTS

### a) Convention on Biodiversity

PNG is a signatory to the CBD and the Program of Work on Protection Areas (POWPA). Target 11 of the CBD Strategic Plan states that:

*"By 2020, at least 17% of terrestrial and in land water areas and 10% of coastal and marine areas, especially areas of particular importance for biodiversity and ecosystem services, are conserved through effectively and equitably managed, ecologically representative and well-connected systems of protected areas and other effective area-based conservation measures, and integrated into the wider landscape and seascape."<sup>11</sup>*

As a signatory to the CBD, PNG has committed to establish a comprehensive, effectively managed and ecologically representative national system of PA including specific targets of coverage of land and sea. Thus, the PAPIP is the vehicle that will not only translate the above global commitment but also the PPA which clearly articulates the need to conserve PNG's rich biodiversity and cultural diversity for future generations.

## b) Sustainable Development Goals

Sustainable Development Goals (SDGs) were adopted as the new global development agenda on 25 September 2015 during the UN General Assembly Meeting and came into effect at the beginning of 2016. The SDGs are integrated, cross-cutting and balance the three dimensions of sustainable development (see Figure 3 above).

There are 17 SDGs, with Goals 14 and 15 relating directly to climate change, environment and biodiversity:

- **Goal No. 14:** Conserve and sustainably use the oceans, seas and marine resources for sustainable development.

- **Goal No. 15:** Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss.

## c) PNG Policy on Protected Areas

The PPA heralds the beginning of a new era for PA and conservation in PNG. The NEC Decision No. 385/2014 is clear evidence that the PNG Government recognizes the importance of natural ecosystems, biodiversity, conservation, people, culture and sustainability.



Wom Village, Sepik Province, PNG © Andrea Egan/ UNDP

## 3.0 THE PROTECTED AREAS IMPLEMENTATION PLAN

### 3.1 THE PLAN PROCESS

CEPA developed a logical, practical and transparent process to guide the formulation of the PAPIP and raise awareness on the PPA. Since this was a new exercise for most CEPA staff, Goal Area Teams were formed and four internal workshops were conducted to familiarize staff on the planning process and techniques critical to actively lead and participate in PPA development.

Of importance was the need to focus on how to think, plan and organize the development of the Plan, rather than the finished product, i.e., CEPA staff were more concerned about the Plan process out of which the finish product (the Plan itself) sprang forth.

It was envisaged that through using in-house technical staff, CEPA would be able to develop a Plan that is:

- Complete – lists all the action steps
- Clear – specifies who will do what by when
- Current – reflects the current work and anticipates emerging opportunities or challenges.

While documenting information on the PAPIP, the CEPA team ensured consistency with the current national vision and higher-order strategies including the PPA, Vision 2050, StaRS, MTDP2 and MTDP3, the CBD, and SDGs.

Figure 5 reflects the major steps of the Plan formulation process. Many other minor steps were critical, however, including briefing and debriefing, dry runs on presentations and revision of plan frameworks.

Figure 5 also demonstrates the importance of embracing the whole of government approach through a collaborative and consultative process when developing the Plan, as required under the PNG Constitution, Goals and Directive Principles.

***“Working together builds stronger relationships and a deeper shared understanding of what needs to be done. Good planning requires stakeholder consultation and collaboration.”***

The PAPIP development entailed several basic stages:

- **Where is PNG now in terms of its PA?** CEPA reviewed achievements and progress and undertook self-assessment as part of the preparatory work leading to the PPA.

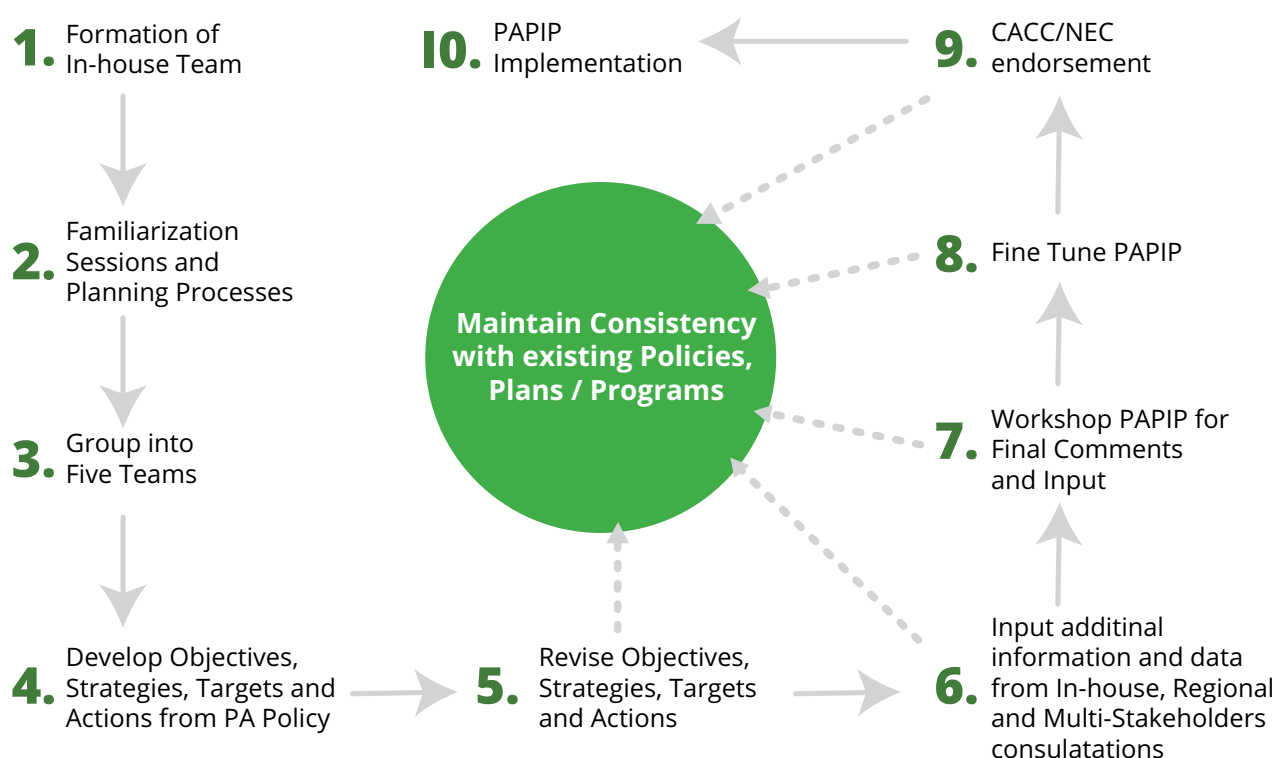


Figure 5: Protected Areas Policy Implementation Plan Formulation Process



*Flora in PNG rainforest, Madang Province, PNG © Alice Plate/ UNDP*



- **Where do we want PNG to be?** Here, CEPA established Policy pillars which were later translated into Plan goals.
- **How do we get there?** CEPA further classified the goals into objectives and clearly defined the strategies that would be applied to achieve the targets.
- **How do we know if we have got there?** CEPA established its indicators to measure progress and achievements.
- **Taking action.** This outlines the specific actions that need to be taken to implement the PAPIP.
- **Who will implement the specified actions?** Identifying possible partners and supporting partners to implement the Plan is critical to ensure that specified actions are executed.

Consultation was the platform for dialogue and information sharing amongst possible implementing partners with a shared interest, purpose and vision. It was also the ideal forum for raising awareness on the PPA amongst NGOs, community-based organizations (CBOs) and the private sector, and to engage with Provincial Government representatives on possible funding avenues. The key beneficiaries were the PA managers and other stakeholders at the community level who, through the consultative process, enabled CEPA to capture their aspirations and inputs.

Four regional and two national workshops were conducted with specific purposes to:

- Carry out awareness on the PPA and share the strategic policy objectives and outcomes with key stakeholders in order to gauge stakeholder views and inputs into the draft PAPIP and the draft PA Bill
- Engage key decision makers at Provincial Government level to support the implementation of the PPA through development of the PAPIP and the draft PA Bill
- Strengthen partnerships and co-operation between CEPA officials, Provincial Administrations, NGOs and CBOs in implementing PA Policy Directions.

Stakeholders within and around PA throughout PNG have been consulted widely for their views and contributions towards this Plan. Hence, what is contained in this Plan reflects the desires and aspirations of all stakeholders.

## 3.2 PLAN DEVELOPMENT STRATEGY

The technical work involved in translating the PPA into an Implementation Plan with financial estimates was completed in-house by CEPA staff, who are technically sound in their areas of focus and knowledgeable on the historical and institutional information and data pertaining to the respective goal areas. The approach taken was to build capacity of CEPA staff through four in-house workshops that exposed selected staff to the planning process and techniques and consequently, enabled them to lead in four regional consultative workshops. This ensured ownership and sustainability of the Plan and success in terms of implementation in the medium to long term.

Assistance outside of CEPA was engaged for the planning and documentation process. A National consultant led a hands-on technique in which CEPA staff were grouped into five teams, each responsible for developing one Goal area which ultimately led into a consolidated Implementation Framework reflecting all areas of the PAPIP. The consolidated document was then taken to the four Regions (Momase, Highlands, Southern, New Guinea Islands) for stakeholder consultation and was also used for inter-government consultation that included all national Government departments, statutory bodies, research institutions and provincial Governments.

The PAPIP demonstrates the links between the specific objectives, strategies and actions that stakeholders intend to employ in order to achieve the Plan's goals along with implementation costs and M&E. (Further details of these linkages are contained in the Plan Matrices reproduced in the Appendices).

## 3.3 PLAN GOALS, OBJECTIVES, STRATEGIES AND TARGETS

### Goal 1 – Governance and management of Protected Areas is enhanced

#### Objective 1.1 – To establish the legal and institutional framework for effective management and governance of the PAN

##### Strategies to achieve Objective 1.1

- Strengthen the institutional framework (including database) in CEPA for effective management and governance of the PAN.

- Review and strengthen the existing legal framework and develop a new PA legislation for effective management and governance of a PAN.
- Ensure Multilateral Environment Agreements (MEAs) are integrated into national legal and institutional frameworks.

#### Implementation Targets

- Standard of Governance by Government in CEPA is improved and strengthened by 2020.
- A PAN Register/registry is developed and linked to Provincial/Regional offices by 2020.
- A new PA legislation developed by 2018.
- Related legislation relevant to PA establishment, reviewed and amended by 2025.
- Consistency and complementary of the new PA legislation with Organic Law on Provincial and LLG and other international treaties by 2018.
- Nationalize Aichi Targets, World Heritage, Kokoda Initiative (KI), 17 SDGs, into national legislations and policies by 2018.

### **Objective 1.2 – To ensure the legal framework becomes fully operational with clear lines of responsibility and high standards of governance, accountability and reporting**

#### Strategies to achieve Objective 1.2

- Develop operational procedures, administrative guidelines and Regulations for the legal framework with clear lines of responsibility and high standards of governance, accountability and reporting.

#### Implementation Targets

- Develop priority Regulations by 2018.
- Develop Standard Operating Procedures by 2020.

### **Objective 1.3 – To ensure effective legal and institutional arrangements are in place for provincial, district and local level governments, and communities including customary landowners, on-ground protected area managers and other partners work in cooperation**

#### Strategies to achieve Objective 1.3

- The PNG PAN is a shared responsibility among different levels of government and other sectors through legislation and policies created at Provincial, District and local level including local communities.
- Improve and strengthen existing Provincial and Local Level Governments' Biodiversity Conservation laws in PA management.
- Integrate PA management activities into Five-Year Development Plans, with annual budgets and Land-Use Plans across all levels of government.

#### Implementation Targets

- Shared governance of PA between customary landowners and organizations including NGOs, and Governance by customary landowners in eight targeted Provinces are strengthened by 2020.
- Train 10 community personnel in PA management and governance per project site by 2020.
- Any existing Provincial and LLG laws reviewed and aligned with the new PA legislation by 2025.
- Integrated Provincial (5 Years) Development Plans for eight target Provinces to reflect PA management activities, its annual budget and land use plans by 2020.
- 10% priority conservation areas integrated and aligned with resource sectors conservation planning by 2025.



*Bismarck Sea, Madang, PNG © Stanislav Solovkin/ Shutterstock*

## **Objective 1.4 – To support customary landowners in their initiatives to establish effective protected areas on their land and contribute to strengthening the PAN**

### **Strategies to achieve Objective 1.4**

- Ensure PAN is built and managed with FPIC of customary landowners and communities.
- Encourage and promote governance by local communities – model of ownership and management style.

### **Implementation Targets**

- New CCA or LMMA are registered and effectively managed by customary landowners in any of the eight target Provinces by 2020.
- Customary landowners in eight target Provinces demonstrating strong leadership in PA management by 2020.

## **Objective 1.5 – To ensure CEPA supports the PAN with adequate funding and staff capacity**

### **Strategies to achieve Objective 1.5**

- CEPA financial management strengthened with clear lines of responsibility and high standards of governance, accountability and reporting to secure adequate funding from the Government and donor partners to support PAN.
- Ensure Public-Private Partnership Arrangements are established and enhanced.

### **Implementation Targets**

- Budget for PAN management and supporting activities in CEPA and eight target Provinces are increased by 2020.
- Declare Public Private Partnership arrangement in place for Varirata National Park, Central Province by 2020.

## **Goal 2 – Livelihoods of communities are sustained**

### **Objective 2.1 – To strengthen customary practices for enhancing and protecting the environment and traditional livelihoods through PA establishment and management**

### **Strategies to achieve Objective 2.1**

- Areas under customary ‘Conservation’ i.e. sacred sites, tambu areas and/or customary practices that sustain the environment are recognized.
- Ensure local arrangements governing use of natural resources in PA are sustainable and continue to support traditional livelihoods.

### **Implementation Targets**

- Traditional ecological and sustainable cultural practice-based ‘sacred sites’ recognized as PAs in eight Provinces/ecoregions by 2023.
- Document traditional and cultural knowledge and practices for sustainable environmental use in all targeted PAs by 2023.
- Protect and promote understanding of the value of cultural and traditional knowledge in targeted PAs by 2023.
- Document identified pilot project sites, social maps completed by 2023.

### **Objective 2.2 – To link additional livelihoods to effective conservation initiatives by customary landowners**

### **Strategies to achieve Objective 2.2**

- Conservation initiatives are supported by the provision of needed facilities to the community that will support the management of PAs.
- Conservation initiatives are supported by economic opportunities in the community.

### **Implementation Targets**

- Improve support for livelihoods within identified PAs by 2023.
- In the targeted PAs, customary landowners’ economic livelihood initiatives are developed/enhanced and supported by 2023.
- Candidates from targeted PAs are trained in business management, marketing and related initiatives linked to PA management by 2023.

### **Objective 2.3 – To develop Conservation and Benefit Sharing Agreements with customary landowners and communities for all PA in order to formalize the management arrangements and benefits**

### Strategies to achieve Objective 2.3

- Government recognition of Access Benefit Sharing Agreements (ABSA) supported through practical assistance, both financial and technical.

### Implementation Targets

- Formulate ABSA policy and legislation by 2020.
- Conservation and ABSA developed, formalized and operational in 84 locations by 2023.

## **Goal 3 – Effective and adaptive biodiversity management that supports the network and ensures that the values of the PA are maintained to the highest possible extent**

### **Objective 3.1 – To ensure effective and adaptive biodiversity management supports the PAN**

#### Strategies to achieve Objective 3.1

- Develop and implement Policies for biodiversity management planning, monitoring and reporting.
- Effectively manage activities on PA including compatible development, recreation, research and traditional use.
- Strengthen the M&E process for effective biodiversity management for each PA.

#### Implementation Targets

- Regular monitoring and reporting of Biodiversity Conservation activities of all PAs by 2020.
- Biodiversity Conservation planning and monitoring guidelines are established by 2020.
- Species Management Plans developed for selected culturally important species (International Union for Conservation of Nature [IUCN], Convention on International Trade in Endangered Species [CITES] and PNG protected fauna) by 2023.
- Participatory Land use/Zone and seascape planning guidelines for Terrestrial/Marine Protected Areas is established by 2020.
- M&E process strengthened by 2018.
- Manual on the PA Management effectiveness is developed by 2018.
- Current PA in PNG are evaluated by 2018 (GEF4).

### **Objective 3.2 – To ensure that the values of the PA are maintained to the highest possible extent**

### Strategies to achieve Objective 3.2

- Encourage and support resource mobilization including human resource capacity building, finance, etc. and align ongoing initiatives of PA management.
- Promote merit-based staff recruitment and training workshops.
- Encourage and promote a nation-wide PA workforce community guided by a common workplace culture and values.
- Establish adaptive management systems that incorporate a good and shared understanding of natural and cultural values of PA.
- Develop a robust information base to guide decision-making including a National PA and Proposals Database and a Reporting System.
- Promote planning as a process of adaptive management and an opportunity for building shared understanding.
- Promote creations of zones and PA in a unified manner.
- Maintain and protect cultural values, natural landscapes and seascapes of PA.
- Encourage and maintain an Asset Management System for the PA.

#### Implementation Targets

- Current PA resource requirements systematically documented through CEPA's Resource Mobilization Strategy by 2023.
- Improve capacity of CEPA by 2023.
- Improve capacity for Provincial Administrations, District Development Authorities (DDAs) and LLGs by 2023.
- Improve capacity of national research and academic institutions by 2023.
- A five-year training plan for PAN (CEPA, five Provincial Administrations, DDAs, LLGs, National research and academic institutions) developed by 2018.
- Workplace Code of Ethics and Principles developed by 2022.
- Regulations on the appointment of Rangers for PAs developed and/or incorporated under the PA Legislation by 2022.
- Wildlife Rangers recruited in all Provinces by 2022.
- A systematic integrated information system linking a PA register developed by 2022.
- A historical information management system developed for improved decision making by 2018.

- A dedicated documentation on traditional knowledge commenced by 2018.
- Conservation priorities map and information of PNG developed by 2018.
- Biodiversity (species and ecosystems) Management System developed by 2018.
- Register of existing and potential/proposed PA developed by 2019.
- All PA have Management Plans developed and operationalized by 2023.
- Management Advisory Group (MAG) established and functioning by 2018.
- Roles and responsibilities including membership of both the PAN Board and the MAG clearly defined by 2018.
- Business Plans emanating from five PA Management Plans by 2018.
- 15-20 guidelines developed to guide sustainable use of resources by 2020.
- 10-25 zones and PA created in five locations being guided by Management Planning Guidelines by 2020.
- 20% of PA boosted against effects of climate change and population growth by 2020.
- Level of community resilience during natural and man-made disasters.
- Establish Asset Management Systems for five PA by 2020.
- Establish working status/condition of plant/equipment and facilities in five PA by 2020.

**Goal 4 – PA network that is relevant to the PNG people; protects the diversity of life, landscapes and seascapes, and; forms a well-connected, adequate and resilient system.**

**Objective 4.1 – To develop, enhance and manage a PNG PAN that is relevant to the local communities and landscape, protects the diversity of life and forms a well-connected and resilient system**

**Strategies to achieve Objective 4.1**

- Establish a PAN according to the guiding principles and the range of reserve types outlined in the PPA.
- Strengthen research initiatives and or collaborations (partnerships) in biodiversity information.
- Establish a relevant Comprehensive, Adequate, Representative and Resilient (CARR) PNG PAN

according to the range of reserve types and network design principles established in the PNG PPA.

- Ensure a smooth transition from the 2014 PA types to the updated Network, with no loss of values.
- Promote and encourage PA/CCA Communities' participation.
- Improve and strengthen PA/CCA communities networking.
- Mobilize support among various PA/CCA community networks to establish an 'overarching organization' to manage various networks.
- Empower PA/CCA communities with skills and knowledge to participate effectively in managing PA.

**Implementation Targets**

- PNG PAN strengthened by 2026.
- 20% increase in research partnerships entered into between CEPA and other partners by 2026.
- A relevant, comprehensive, adequate, representative and resilient PNG PAN is established by 2026.
- Reclassification of existing PAs into the new PA types as per PA Policy by 2020.
- 20% of PA/CCA (GEF 5, KI and New Britain Island) community representatives identified and trained by 2020.
- Sustainable livelihoods needs (KI) assessed and tools developed (for development documented) by 2020.
- 20% of PAs/CCA communities' networks established and/or strengthened throughout PNG by 2020.
- An 'overarching organization' established by 2023.
- Five trainings conducted per location per year by 2026.

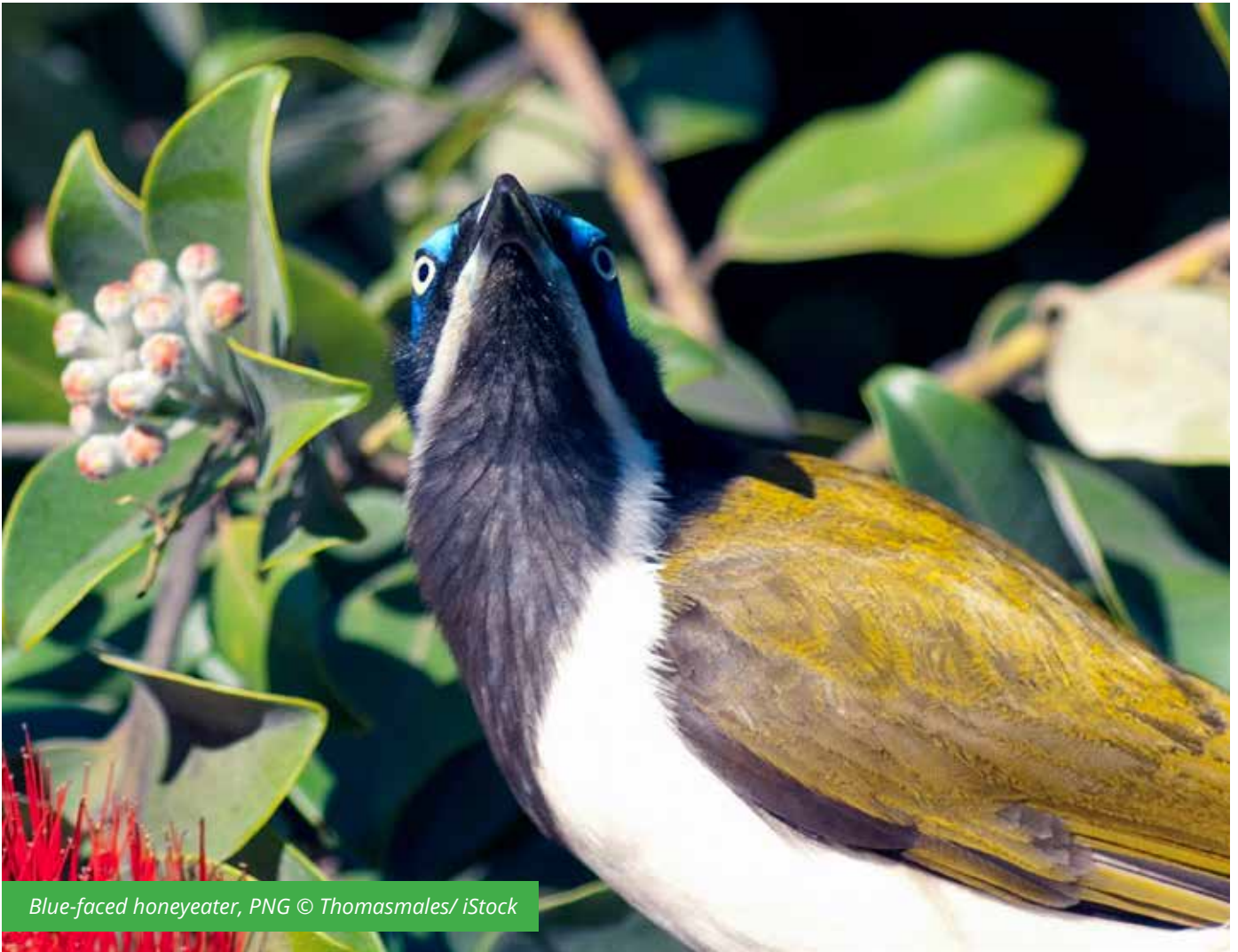
**Objective 4.2 – To develop and maintain a proposal database of potential priority sites for PNG PA**

**Strategies to achieve Objective 4.2**

- Establish and/or integrate a PNG Biodiversity Information system for PNG PAN.

**Implementation Targets**

- Develop and integrate Biodiversity information System by 2026.
- A well-established and effective data standard criterion for inputting data is developed by 2020.
- Priority conservation targets and priority conservation areas (Ecological Gap Analysis) are identified by 2020.



Blue-faced honeyeater, PNG © Thomasmales/ iStock

**Goal 5 – Sustainable and equitable financing Facility supports the PA network and established PA**

**Objective 5.1 – To establish a Biodiversity Trust Fund to support the establishment and management of PA across PNG**

**Strategies to achieve Objective 5.1**

- Establish and promote a funding facility that will sustain the management of PA in the long term.
- Establish a Small Grant Facility to deliver funding directly to support local communities in the establishment and management of PA.
- Utilize existing financing options to fund PA initiatives.

**Implementation Targets**

- Biodiversity Trust Fund consultations initiated by 2018.
- Biodiversity Trust Fund Bill submitted to NEC by September 2018.

- Trust Fund Bill goes to Parliament for approval by November 2018.
- Biodiversity Trust Fund established and operational by 2019.
- 20% increase in Small Grants funding directly to local PA communities by 2019.
- 20% increase in the number of financing options currently available by 2019.
- Carbon Trading Funding to be accessed by 2019.
- Environmental levies collected by 2018.

**Objective 5.2 – To ensure a sustainable and equitable funding mechanism is established to support the PNG PA**

**Strategies to achieve Objective 5.2**

- Mobilize support among stakeholders including various Landowners’ Networks to establish a Biodiversity Trust Fund.

### Implementation Targets

- Biodiversity Trust Fund consultations initiated by 2018.
- Biodiversity Trust Fund Bill presented to cabinet by June 2018.
- NEC approval of Trust Fund Bill by August 2018.
- Biodiversity Trust Fund established by 2019.

### Objective 5.3 – To ensure all Development Plan and Annual Budgets capture requirements of Protected Areas

#### Strategies to achieve Objective 5.3

- Mobilize support at all levels of government to incorporate requirements of PA into their Strategic Planning and Budgeting initiatives.

### Implementation Targets

- All development plans to factor in the requirements of PA by 2019.
- All budgets at national and sub-national levels to include appropriations for PA by 2019.

### Objective 5.4 – To promote and encourage alternative sources of income generation for the land owners within PAs

#### Strategies to achieve Objective 5.4

- Capacity building, empowerment of communities and resource mobilization.
- Develop and implement collaborative research programs involving NGOs, industry, education sector and customary landowners.
- Improved understanding of traditional ecological knowledge and sustainable cultural uses and practices and the incorporation of this knowledge into PA planning and management.

### Implementation Targets

- 120 awareness activities and trainings conducted in 60 PAs by 2019.
- 120 alternate employment opportunities identified and trialed in 60 communities by 2021.
- 120 community projects implemented in 60 locations by 2021.
- 120 communities' self-reliant projects identified and implemented in 60 locations by 2021.

- Increase in the proportion of external financial resources accessed by 60 PAs.
- 120 collaborative research activities conducted in 60 PAs by 2021.
- Traditional knowledge and sustainable cultural uses documented for 60 PAs by 2024.
- Traditional ecological and sustainable cultural practice-based PA planning/management implemented in 60 PAs by 2025.

## 3.4 IMPLEMENTATION AND REPORTING SCHEDULES

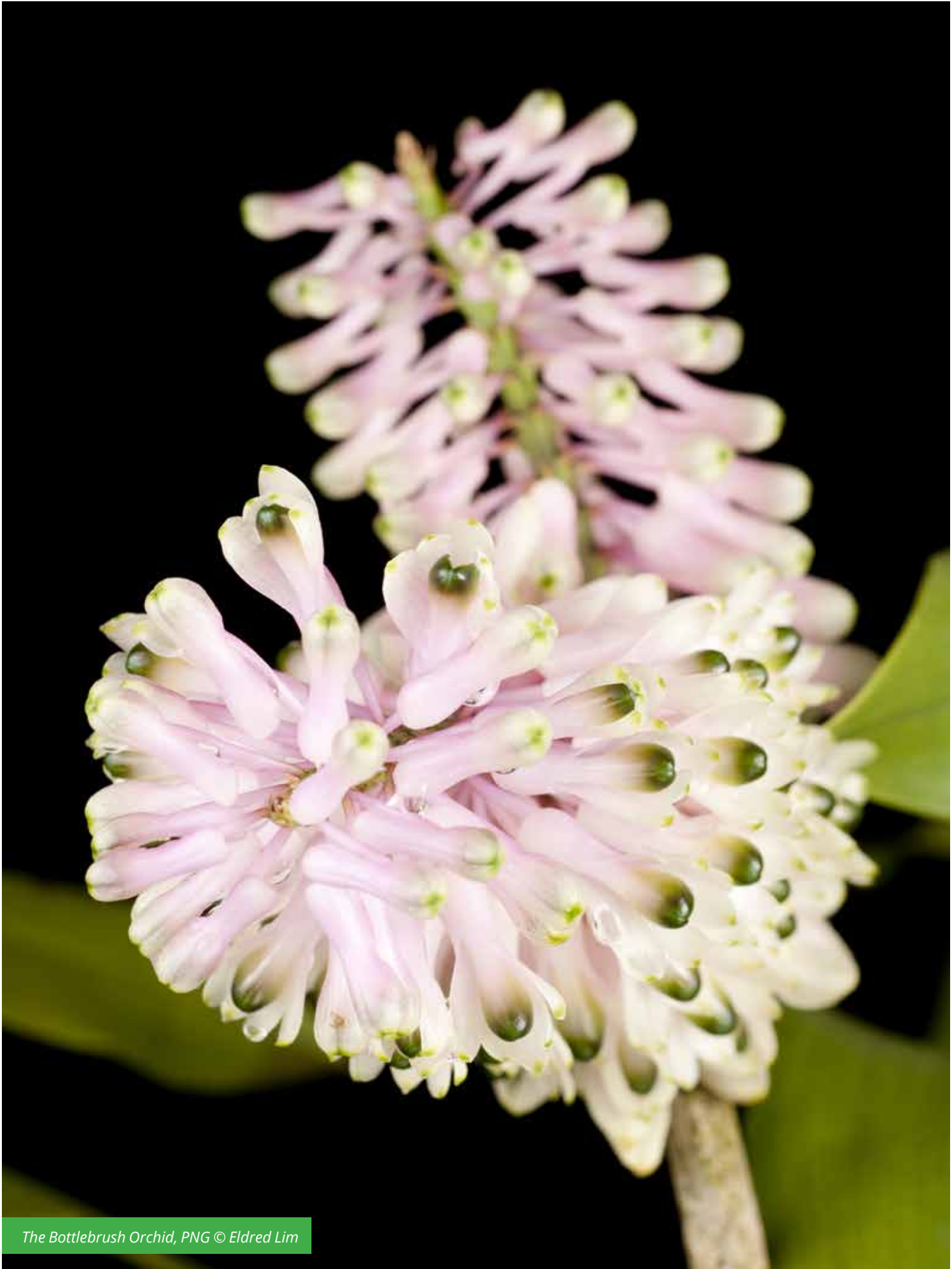
The implementation of this Plan will require close collaboration and strong partnership between stakeholders providing oversight to the various PAs, local communities, Government, NGOs, churches, donors and individual commitment, to bring about positive change, conservation and preservation of the numerous wealth that is contained within each PA. The Plan targets have all been carefully considered so they are achievable and within the capacities of the various stakeholders/partners to implement. The roles and responsibilities of each of the stakeholders are clearly identified within the PAPIP Implementation Framework.

## 3.5 MANAGEMENT AND AUTHORITY FOR THE PLAN

CEPA is the overall authority for the Plan, in collaboration with local communities and those that provide oversight to the PAs. The Management of the Plan is to be carried out by a dedicated team within CEPA.

## 3.6 RISK ASSESSMENT

The scope of the Plan provides for translation of individual Plan goals into deliverable projects. However, should a PA encounter certain challenges or issues, it is unlikely to greatly affect the overall implementation of the Plan.



*The Bottlebrush Orchid, PNG © Eldred Lim*



### 3.7 COST SCHEDULE

The cost estimations of the PAPIP were completed with the CEPA team against their known costs for similar programs. However, all the estimates are subject to variation based on local domestic prices which can be volatile. It is estimated that implementation of the entire PAPIP and therefore, the PNG PPA, would cost approximately PGK55,298,000 (K55.3 million) over the ten year period (2018-2028). The breakup of the estimates is as follows:

The Government is demonstrating ownership of the PAPIP as well as leadership and hence, meeting 54% of the total costs for implementing the PAPIP (K30 million). This leaves a funding gap of 46% (K25,298,000 or K25.3 million). It is envisaged that this funding gap will be sourced from development partners/donors and the business community.

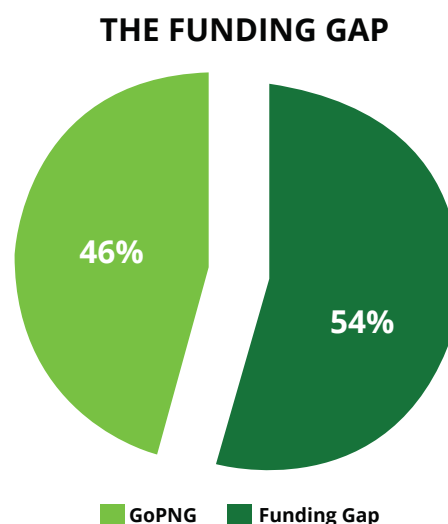


Figure 6: PAPIP Implementation Funding Gap

- GoPNG driven with clear signals to other possible funding parties
- Recognition of GoPNG leadership in PAPIP implementation thus, re-enforcing longer-term objective of self-reliance

Table 1: Plan goals total estimated costs

Goal	Goal Area	Cost (K mill)
1	Governance and Management of Protected Areas	10,805,000
2	Sustainable Livelihoods for Communities	14,200,000
3	Effective and Adaptive Biodiversity Management	11,530,000
4	Managing the Protected Areas Network	8,248,000
5	Sustainable and Equitable Financing for Protected Areas	10,515,000
<b>Grand Total</b>		<b>K55,298,000</b>

## TABLES – INDIVIDUAL GOAL ESTIMATED COSTS

### Goal 1: Governance and Management of Protected Areas

No.	Strategy	Cost (K'000)
1	Strengthening institutional framework (including database) in CEPA	3,610
2	Reviewing and strengthening the existing legal framework and developing new Protected Area Legislation	2,380
3	Integrating Multilateral Environment Agreements (MEAs) into national legal and institutional frameworks	470
4	Developing operational procedures, administrative guidelines and Regulations for the legal framework	550
5	Creation of legislation and policies at Provincial, District and Local Level including local communities	1,135
6	Improving and strengthening existing Provincial and local level Governments' Biodiversity Conservation laws in PA management	180
7	Integrating Protected Area management activities into 5-Year Development Plans, with annual budgets and Land-Use Plans	1,330
8	PA Network is built and managed with free, prior and informed consent of customary landowners and communities	410
9	Encouraging and promoting governance by Local Communities - model of ownership and management style	150
10	CEPA Financial Management strengthening with clear lines of responsibility, and high standards of governance, accountability and reporting	280
11	Establishing and enhancing Public-Private Partnership Arrangements	310
	<b>Sub-Total:</b>	<b>K10,805</b>

### Goal 2: Sustainable Livelihoods for Communities

No.	Strategy	Cost (K'000)
1	Recognition of areas under Customary 'Conservation' i.e Sacred Sites, Tambu Areas and/or Customary Practices	400
2	Local arrangements governing use of natural resources are sustainable and continue to support traditional livelihoods	2,270
3	Support to Conservation Initiatives that support the management of PAs	2,700
4	Conservation Initiatives are supported by economic opportunities in the community	4,050
5	Government recognition of ABS (Access Benefit Sharing) Agreements	4,780
	<b>Sub-Total:</b>	<b>K14,200</b>

### Goal 3: Effective and Adaptive Biodiversity Management

No.	Strategy	Cost (K'000)
1	Policy development/implementation for biodiversity management planning, monitoring and reporting	3,260
2	Effective management of Protected Areas including compatible development, recreation, research and traditional use	1,080
3	Strengthening the M&E process for effective biodiversity management for each PA	775
4	Resource mobilization including human resource capacity building, finance	990
5	Promoting merit-based Staff recruitment and training	430
6	Encouraging and promoting a nation-wide Protected Area Workforce Community	395
7	Establishing adaptive management systems	450
8	Developing a robust information base to guide decision-making	1,060
9	Promoting planning as a process of adaptive management	1,710
10	Promoting creations of zones and Protected Areas in a unified manner	280
11	Maintaining and protecting cultural values, natural landscapes and seascapes	460
12	Encouraging and maintaining an Asset Management System	640
	<b>Sub-Total:</b>	<b>K11,530</b>

### Goal 4: Managing the Protected Areas Network

No.	Strategy	Cost (K'000)
1	Establishing a PNG Protected Area Network	1,190
2	Strengthening research initiatives and or collaborations (partnerships)	535
3	Establishing a relevant, comprehensive, adequate, representative and resilient (CARR) PNG Protected Area Network according to the range of reserve types and network design principles	130
4	Ensuring a smooth transition from the 2014 Protected Area types to the updated Network	80
5	Promoting and encouraging PA/CCA Communities' participation	1,053
6	Improving and strengthening PAs/CCA communities networking	220
7	Mobilizing support among various PA/CCA community Networks to establish an 'Overarching Organization' to manage various Networks	220
8	Empowering PA/CCA communities through capacity building	3,380
9	Establishing and/or integrating a PNG Biodiversity Information system for PNG PAN	1,440
	<b>Sub-Total:</b>	<b>K8,248</b>

## Goal 5: Sustainable and Equitable Financing for Protected Areas

No.	Strategy	Cost (K'000)
1	Establishing and promoting a funding facility for Protected Areas sustainability.	1,180
2	Establishing Small Grant facility.	160
3	Utilizing existing financing options.	720
4	Mobilizing support among stakeholders.	1,330
5	Mobilizing support at all levels of government for integrated Strategic Planning and Budgeting.	350
6	Capacity Building, empowerment of communities and resource mobilization.	3,895
7	Developing and implementing collaborative research programs.	1,500
8	Improving understanding of Traditional Ecological knowledge and sustainable cultural uses and practices.	1,380
<b>Sub-Total:</b>		<b>K10,515</b>

### 3.8 OWNERSHIP OF ASSETS

All assets originating from this Plan will become the assets of the individual PA, the PAN, and the local communities.

### 3.9 SUSTAINABILITY

The sustainability of each PAN will be reviewed under this Plan, with review recommendations addressed. Needs assessments will assist in addressing how to sustain the wellbeing of the PA including the local communities, the flora and fauna, the traditions and the customs.

*“PA must be maintained for future generations. As such, increased efforts and initiatives are included in this Plan to develop, improve and sustain the activities of each of the PA.”*

Efforts on improving the legal aspects are also reflected in this Plan.

### 3.10 MONITORING AND EVALUATION

Monitoring is a critical component as it enables the CEPA and partners' to regularly collect the information needed to assess the progress of Plan implementation. Evaluation enables the periodic assessment as to whether the PAPIP is being implemented effectively.

Details on the type of information collected at what levels are set out in Figure 7.

- **Inputs:** financial, human resource, material, technology, and information resources needed to implement the Plan.

- **Activities:** actions taken or work performed that mobilizes the inputs to produce specific outputs.
- **Outputs:** products and services that result from completing the Plan activities.
- **Outcomes:** short to medium-term effects of an output.
- **Impacts:** long-term effects (positive or negative) on the target group for the PAPIP.

The overall responsibility for PAPIP M&E rests with CEPA which reports directly to CACC through the Managing Director and the NEC through the Minister for Environment Conservation and Climate Change. The PAPIP details clear targets, actions and indicators that are specific, measurable and time-bound. All departments, agencies and provincial and local level governments, NGOs, CBOs, development partners and donors are to work within the framework set out in Figure 7.

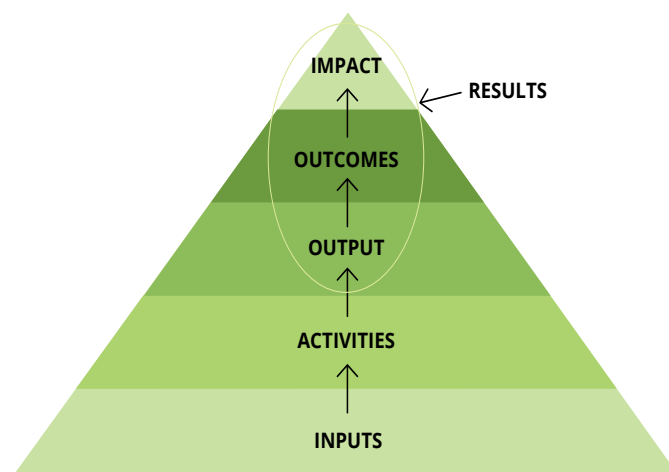


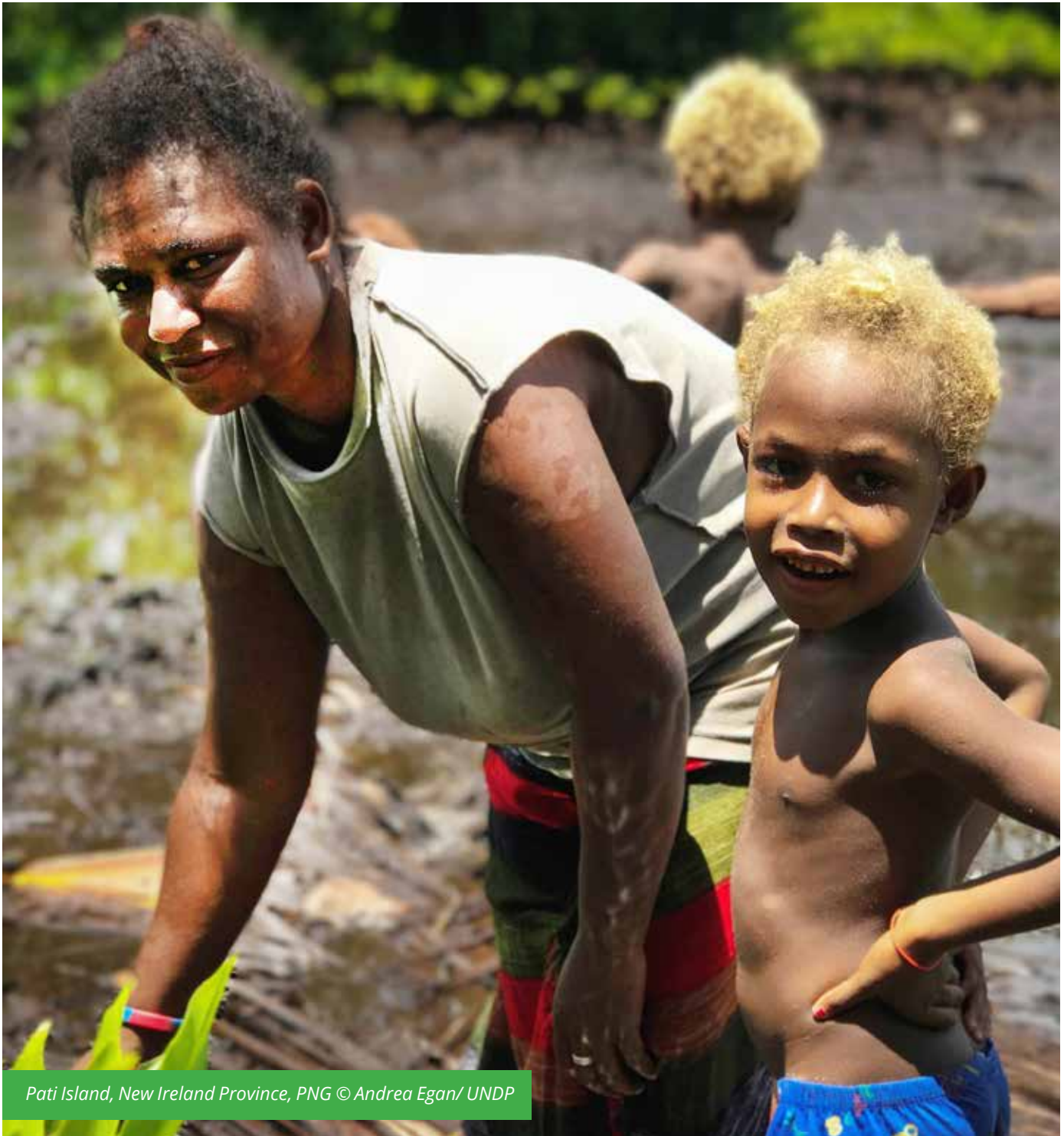
Figure 7: PAPIP Monitoring and Evaluation Framework

An Annual report will be produced by CEPA for funding agencies and interested parties to know how funds have been managed and used for intended purposes.

Within CEPA, M&E is a collaborative activity amongst its functional Divisions/Branches.

Each Division/Branch will be responsible for different aspects that fall within the ambit of their core responsibilities including:

- Physical financial monitoring of PAPIP implementation
- Collecting and collating quarterly reports from implementing partners
- Physically monitoring programs/projects implemented on PA sites in Provinces
- Disseminating lessons learnt for its M&E assessments to guide further improvements in Plan implementation
- Ensuring that funding appropriated for PAPIP implementation is used for planned activities and properly accounted for.



Pati Island, New Ireland Province, PNG © Andrea Egan/ UNDP

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*Grizzled Tree Kangaroo, PNG © Jean Thomas/ Tenkile Conservation Alliance*

## 5.0 APPENDIX

### IMPLEMENTATION FRAMEWORK

Goal No.1: Governance and Management of Protected Areas is enhanced

Objective 1 – To establish the legal and institutional framework for effective management and governance of the Protected Areas Network			
Targets	Actions to be taken	Measurable Indicators	Responsible/Support organization
<b>Strategy 1.1 Strengthen the institutional framework (including database) in CEPA for effective management and governance of the PNG PA Network</b>			
1.1.1 Standard of Governance by Government in CEPA is improved and strengthened by 2020.	<ul style="list-style-type: none"> <li>1.1.1.1 Review the current CEPA institutional structure to include with clear lines of responsibility the PA network management.</li> <li>1.1.1.2 Endorse the revised CEPA institutional structure that includes PA network management</li> <li>1.1.1.3 Recruit qualified personnel to the approved CEPA institutional structure</li> <li>1.1.1.4 Conduct a Training Needs Assessment of CEPA Staff relating to Biodiversity Conservation and Protected Areas Management</li> <li>1.1.1.5 Train CEPA officers in PA management and planning and biodiversity conservation</li> </ul>	<p>Review Report</p> <p>Endorsed CEPA institutional structure</p> <p>Number of qualified personnel recruited</p> <p>Training Needs Assessment Report</p> <p>Number of CEPA staff trained</p>	CEPA, DPM, System Specialist Consultant and Project team
1.1.2 A Protected Area Network Register/registry is developed and linked to Provincial/ Regional Offices by 2020	<ul style="list-style-type: none"> <li>1.1.2.1 Conduct assessment of all existing Protected Areas in PNG</li> <li>1.1.2.2 Implement recommendations of the Assessment Report and re-classify all existing Protected Areas.</li> <li>1.1.2.3 Update the PA Network Register/registry</li> <li>1.1.2.4 Draft SOP to include the Administration of PA Register</li> <li>1.1.2.5 Update all other data of Protected Areas managed by other stakeholders.</li> <li>1.1.2.6 Formulate a coherent and synchronized Dataset Standards across all targeted PA types.</li> <li>1.1.2.7 Develop mechanisms for effective communication and sharing of information and data between line agencies and stakeholders</li> <li>1.1.2.8 Review data storage system, its backup system and report improvements on storage system</li> </ul>	<p>Assessment Report produced</p> <p>Report on implementation of TNA Recommendations</p> <p>Updated PA Network Registry</p> <p>SOP reflecting administration of PA register</p> <p>Report on Updated PA data</p> <p>Dataset Standard and Manual produced</p> <p>Communications Strategy developed</p> <p>Review Report produced; Backup system established and is operational</p>	CEPA, UNDP/GEF 4 team



<b>Strategy 1.2 Review and Strengthen the existing legal framework and develop a new Protected Area legislation for effective management and governance of PNG PA Network</b>			
<p>1.2.1 A new Protected Area legislation developed by 2018</p>	<p>1.2.1.1 Recruit a legal counsel as consultant to develop PA legislation and regulations.</p> <p>1.2.1.2 Conduct a legal review of all existing conservation related legislation and provide a report with recommendations for improvement.</p> <p>1.2.1.3 Draft Information Paper on the proposed Protected Area legislation.</p> <p>1.2.1.4 Circulate the Draft Bill to partners, stakeholders and communities for written comments and feedback.</p> <p>1.1.2.5 Workshop the Zero Draft Bill with partners, stakeholders and communities to incorporate feedback through regional consultations.</p> <p>1.1.2.6 Consult stakeholders on revised Drafts of the Bill</p> <p>1.1.2.7 Hire a legal drafting specialist to:</p> <ul style="list-style-type: none"> <li>• Fine-tune the Bill ensuring there is Constitutional compliance with Section 38(1) of the Constitution as well as provide practical and experienced inputs to ensuring cross-cutting issues in the Transitional Provisions to save all existing rights.</li> <li>• Provide practical and experienced input to obtain approval or clearance from the Office of the Legislative Counsel that the PA Bill is fit for submission to the NEC.</li> <li>• Provide practical and experienced input to navigating the process of obtaining the Certificate of Necessity from the Solicitor General's Office.</li> <li>• Assist in obtaining the cooperation of the NEC Secretariat to get the Bill onto the NEC agenda and business-paper.</li> <li>• Provide practical and experienced input into the process of compiling and fine-tuning the final NEC Submission.</li> </ul>	<p>A legal counsel is recruited as a consultant</p> <p>Review Report produced with clear Recommendations</p> <p>Draft Information Paper is produced</p> <p>Draft Bill is circulated to stakeholders and their written feedback received and relevant amendments done to Draft Bill</p> <p>Workshop conducted to present the Zero Draft Bill to partners, stakeholders and communities; Workshop report produced</p> <p>Stakeholders' feedback on revised Drafts of the Bill received and incorporated</p> <p>A legal drafting specialist hired with clear Terms of Reference</p>	<p>CEPA, Legal Consultant</p> <p>UNDP/GEF 4 team</p>
<b>Targets</b>	<b>Actions to be taken</b>	<b>Measurable Indicators</b>	<b>Responsible/Support organization</b>

Goal No.1: Governance and Management of Protected Areas is enhanced *Continued...*

<p>1.2.2 Related legislation relevant to protected areas establishment reviewed and amended by 2025.</p>	<p>1.2.2.1 Review relevant legislation to make it consistent with the new PA legislation such as:</p> <ul style="list-style-type: none"> <li>• Conservation Areas Act,</li> <li>• Fauna Protection and Control Act,</li> <li>• Crocodile Protection Act,</li> <li>• International Trade Act (CITES),</li> <li>• Environment Act,</li> <li>• Conservation and Environment Protection Act,</li> <li>• Forestry Act,</li> <li>• Mining Act,</li> <li>• Fisheries Act,</li> <li>• Maritime Zones Act, and Marine Pollution Act under NMSA.</li> </ul> <p>1.2.2.2 Prepare report for any major or consequential amendments.</p> <p>1.2.2.3 Seek legal clearance prior to making necessary amendments</p> <p>1.2.2.4 Amend all necessary legislation where possible.</p>	<p>Review Report</p> <p>Report on Consequential Amendments</p> <p>Letter of endorsement on legal clearance</p> <p>Amendment Report</p>	<p>CEPA</p>
<p>1.2.3 Consistency and complementary of the new PA legislation with Organic Law on Provincial and Local Level Government and other international Treaties by 2018.</p>	<p>1.2.3.1 Conduct desktop review on the new PA legislation to ensure consistency with the Torres Strait Treaty and the Organic Law on Provincial and Local Level Government.</p> <p>1.2.3.2 Make further recommendation for amendments if necessary to appropriate authorities.</p>	<p>Desktop Review Report</p> <p>Proposed Recommendations</p>	
<p><b>Strategy 1.3 Ensure Multilateral Environment Agreements (MEAs) are integrated into national legal and institutional frameworks</b></p>			
<p>1.3.1 Nationalize Aichi Targets, World Heritage, KI, 17 SDGs, into national legislations and policies by 2018.</p>	<p>1.3.1.1 Review current implementation of Global, Regional and Bilateral Environmental/Biodiversity Conservation Agreements (MEAs).</p> <p>1.3.1.2 Amend relevant national legislation to nationalize MEAs.</p> <p>1.3.1.3 Provide reports on the status of implementation.</p> <p>1.3.1.4 Monitor and review implementation of the targets using indicators</p>	<p>Review Report</p> <p>Report on Amendments</p> <p>Status Report</p> <p>Monitoring &amp; Review Report</p>	<p>CEPA, DJAG,</p> <p>Foreign Affairs, DNP, PM &amp; NEC, Resource Sector Agencies and Development Partners</p>

**Strategy 2.1 Develop operational procedures, administrative guidelines and Regulations for the legal framework with clear lines of responsibility and high standards of governance, accountability and reporting**

<p>2.1.1 Develop priority Regulations by 2018</p>	<p>2.1.1.1 Develop Regulations for:</p> <ul style="list-style-type: none"> <li>• Establishment and Council Procedures of the NCC including NPART and RPART,</li> <li>• Protected Area Management,</li> <li>• Establishing of new PA</li> <li>• standards for adaptive and effective biodiversity management;</li> <li>• Penalties and Fines</li> <li>• Zoning,</li> <li>• De-registration of a PA,</li> <li>• Species Management, control and protection in PA</li> <li>• Documenting Traditional knowledge (including local ecological and biological knowledge and cultural values).</li> <li>• Resources development within the vicinity of major protected areas.</li> <li>• Linking of Environment Permits for developments adjacent to Protected Areas.</li> </ul>	<p>Number of priority Regulations supporting the new PA legislation developed.</p>	<p>CEPA UNDP/GEF4/5</p>
<p>2.1.2 Develop Standard Operating Procedures by 2020.</p>	<p>2.1.2.1 Develop Standard Operating Procedures for;</p> <ul style="list-style-type: none"> <li>• Protected Area management to be transparent, accountable, adaptive, responsive to landowner needs, and for occupational health and safety,</li> <li>• Administration for PA Network Register/registry to include data collection and sharing, community engagement protocol, research consent regime etc.</li> <li>• Linking of Environment Permits for developments adjacent to Protected Areas.</li> </ul>	<p>Number of Standard Operating Procedures developed.</p>	<p>CEPA UNDP/GEF4/5</p>

**Objective 3 -To ensure effective legal and institutional arrangements are in place for provincial, district and local level governments, communities including customary landowners, on-ground protected area managers and other partners work in cooperation.**

Goal No.1: Governance and Management of Protected Areas is enhanced *Continued...*

Targets	Actions to be taken	Measurable Indicators	Responsible/Support organization
<b>Strategy 3.1 The PNG Protected Area Network is a shared responsibility among different levels of government and other sectors through legislation and policies created at Provincial, District and Local Level including local communities.</b>			
3.1.1 Shared governance of Protected Areas between customary landowners and organizations including NGOs and Governance by customary landowners in 8 targeted Provinces are strengthened by 2020	3.1.1.1 Conduct a Technical assessment on Management Effectiveness of registered Protected Areas. 3.1.1.2 Implement recommendations from this assessment in the 8 target provinces as part of their Management Plans. 3.1.1.3 Assign a CEPA team to work with projects at Variarata National Park, New Britain Island, Kokoda Track IPZ, YUS and Torricelli Mountain Ranges in developing respective Management Plans as models.	Technical Assessment Report Implementation Reports Project specific site Teams with clear and costed Work Plans	CEPA UNDP/GEF4/5
3.1.2 Train 10 community personnel in Protected Area Management and governance per project site by 2020.	3.1.1.4 Implement these Management plans with strong emphasis on developing their governance structures. 3.1.1.5 Document all lessons learnt from these sites. 3.1.1.6 Replicate the lessons learnt in other priority protected areas as identified through the PoWPA report in both marine and terrestrial.	Implementation Reports Implementation Reports Implementation Reports Implementation Reports Guidelines/Procedures	CEPA UNDP/GEF4/5
3.1.2.1 Conduct Training Needs Assessments for all levels of government and communities and develop Training Plan for each Province. 3.1.2.2 PA Management to identify relevant landowners for training. 3.1.2.3 Identify resource persons or institutions (eg. IPA) to conduct Training on PA Management including basic financial management, book keeping, FPIC & IPR, reporting and literacy if needed. 3.1.2.4 Document all lesson learnt from this process to be replicated in other priority protected areas identified through PoWPA.		Training Needs Assessments Reports; Provincial Training Plans Number of Landowners identified and trained Resource persons and institutions identified and engaged to conduct training; Different types of trainings conducted Reports and Procedural Manuals	CEPA UNDP/GEF4/5
<b>Strategy 3.2 Improve and strengthen existing Provincial and Local Level Governments' Biodiversity Conservation laws in PA management.</b>			
3.2.1 Any existing Provincial and LLG laws reviewed and aligned with the new PA legislation by 2025	3.2.1.1 Review Almami LLG Conservation Law and Forest Protection Law 2007, Madang to be consistent with the new PA legislation. 3.2.1.2 Complete a peer review of the pending Kimbe Bay Environmental Law. 3.2.1.3 Prepare a report on its findings	Review Report with Recommendations; Statutory Amendments Peer Review Report with Recommendations Peer Review Report with Recommendations	

	<p>3.2.1.4 Complete the legal requirements and clearance before recommending for its enactment.</p> <p>3.2.1.5 Complete a needs assessment for all Provinces to identify any need for Provincial and LLG laws for biodiversity conservation and protected area management.</p> <p>3.2.1.6 Implement any key recommendations from this report in order to maintain and strengthen effective protected area management.</p>	<p>Legal Clearance Letter; Parliamentary Statement</p> <p>Needs Assessment Reports</p> <p>Implementation Reports</p>	<p>CEPA; Legal Team; UNDP/ GEF4/5; State Soi; Department of Treasury, Finance and National Planning; Provincial Governments</p>
<b>Strategy 3.3 Integrate Protected Area management activities into 5-Year Development Plans, with annual budgets and Land-Use Plans across all levels of government</b>			
<p>3.3.1 Integrated Provincial (5 Years) Development Plans for 8 target Provinces to reflect protected area management activities, its annual budget and land use plans by 2020</p>	<p>3.3.1.1 Integrate biodiversity conservation and community livelihood development initiatives of VNP into the provincial, district and local governments' development plans</p> <p>3.3.1.2 Establish consultation with key government personnel from the provincial, district, and local level governments for the review of their 5 Year Development Plans</p>	<p>Integrated Development Plans; Level of budgetary support</p> <p>Review Program/schedule Consultation Reports</p>	<p>CEPA; State Soi; Department of Treasury, Finance and National Planning; Provincial Governments; DDAs</p>
<p>3.3.2 10% priority conservation areas integrated and aligned with Resource Sectors conservation planning by 2025.</p>	<p>3.3.2.1 Build the capacity of East and West New Britain, East and West Sepik, Morobe, Madang, Central and Oro Provincial, Districts and Local Level Governments to manage identified PAs within their respective areas.</p> <p>3.3.2.2 Establish and harmonise a database for PA Network on the various PAs and provide accessibility to Provincial/Regional Offices.</p> <p>3.3.2.3 Conduct assessment of land uses in selected PAs – Kokoda track IPZ, Varirata, New Britain Island and Sogeri plateau.</p> <p>3.3.2.4 Zoning of priority conservation areas in identified PAs.</p> <p>3.3.2.5 Collaborate with NFA, PNG FA, DAL, MRA, DPE, DMPG, CCDA and DNPM to mainstream conservation planning into Sector Plans.</p>	<p>Level of demonstrated management capacities</p> <p>Database</p> <p>Land-use Assessment Reports</p> <p>Maps</p> <p>Integrated Sector Plans</p>	<p>CEPA; UNDP/GEF4/5; Provincial Governments; DDAs</p>

**Objective 4 - To support customary landowners in their initiatives to establish effective protected areas on their land and contribute to strengthening the Protected Area Network.**

Goal No.1: Governance and Management of Protected Areas is enhanced *Continued...*

Targets	Actions to be taken	Measurable Indicators	Responsible/Support organization
<b>Strategy 4.1 Ensure PA Network is built and managed with free prior and informed consent (FPIC) of customary landowners and communities.</b>			
4.1.1 New Community Conservation Areas or Locally Managed Marine Areas are registered and effectively managed by customary landowners in any of the 8 target Provinces by 2020	4.1.1.1 Using the recommendations from the PoWPA Report, identify 4 suitable CCA and LMMA sites in the 8 target Provinces.	Number of suitable CCA & LMMA sites identified	CEPA
	4.1.1.2 Prepare Awareness materials on why the sites need to be protected and managed.	Number and types of awareness materials	Provincial, District and Local Level Government
	4.1.1.3 Prepare a road map on the proposed sites in-house.	Road map	GEF5/6, JICA
	4.1.1.4 Conduct awareness programs on these sites to relevant stakeholders including governments and landowners.	Number of awareness conducted	NGO's, Research Institutions, Protected Area Communities and Land Owners.
	4.1.1.5 Using the new PA legislation as a yard stick, go through the full process of declaring the sites protected working closely with the communities, LLGs, Districts and Provincial Administrations.	Number of sites declared as protected areas Gazettal Notice	
	4.1.1.6 Conduct specific Training for partners including landowners in PA management and enforcement of the new PA law including PA management	Number of training conducted, Number of persons trained	
<b>Strategy 4.2 Encourage and promote governance by Local Communities - model of ownership and management style.</b>			
4.2.1 Customary landowners in 8 Target Provinces demonstrating strong leadership in PA management by 2020.	4.2.1.1 Conduct and implement Governance by local communities by allowing the communities to take leadership in building their capacities.	Number of local communities taking lead in capacity building.	CEPA,
			UNDP/GEF5/6
			JICA
<b>Objective 5 - To ensure CEPA supports Protected Area Network with adequate funding and staff capacity</b>			
<b>Strategy 5.1 CEPA Financial Management strengthened with clear lines of responsibility, and high standards of governance, accountability and reporting to secure adequate funding from the Government and donor partners to support PA Network.</b>			
5.1.1 Budget for protected Area Network management and supporting activities in CEPA and 8 target Provinces are increased by 2020.	5.1.1.1 Establish Project Management or Donor Co-ordination Unit in CEPA.	Project Management Unit established	CEPA,
	5.1.1.2 Review or audit the existing Financial Management structure in CEPA to ensure it is credible and transparent.	Audit report	UNDP/GEF5/6
	5.1.1.3 Implement recommendations in accordance with the Public Finance Management Act and CEPA Financial Management Order	Implementation report	JICA

<p>5.1.1.4 Prepare Donor Fund Raising Strategy for PA Network Management in PNG.</p> <p>5.1.1.5 Prepare annual Budget submissions based on identified priority activities in the PA Implementation Plan (2018-2025).</p> <p>5.1.1.6 Prepare 1 Capital Investment Project submission for five years commencing 2018 – 2022.</p> <p>5.1.1.7 Secure additional funds from GEF6, JICA and other donors for implementation of the PA policy.</p>	<p>Donor Fund raising Strategy</p> <p>Annual Budget Document</p> <p>Capital Investment Project Proposal</p> <p>Volume of Funding secured from GEF6, JICA and Other Donors</p>	
<p><b>Strategy 5.2 Ensure Public-Private Partnership Arrangements are established and enhanced</b></p>		
<p>5.2.1 Declare Public Private Partnership arrangement in place for Variarata National Park by 2020</p>	<p>5.2.1.1 Review the MoA between NDC and CEPA on the management arrangement for Variarata National Park, Central Province and amend where necessary.</p> <p>5.2.1.2 Complete a literature review of existing PPP arrangements with established PAs in Australia and other Asian countries.</p> <p>5.2.1.3 Explore potential partners for PPP arrangements in PNG or abroad.</p> <p>5.2.1.4 Approach the potential partner for Variarata National Park.</p> <p>5.2.1.5 Work with JICA-CEPA project team to further expand on the potential investors/partners for Variarata National Park.</p> <p>5.2.1.6 Prepare necessary legal process to formalize the arrangements under the new PA law.</p>	<p>MoA Review Report</p> <p>Literature Review Report</p> <p>Concept Note /Briefs</p> <p>Letter of Invites/Brief</p> <p>Position Paper/Briefs</p> <p>Legal instruments prepared</p> <p>CEPA, UNDP/GEF5/6 JICA</p>

# IMPLEMENTATION SCHEDULE

**Goal No.1:** Governance and Management of Protected Areas is enhanced

**Program:** Enhancing Governance and Management of Protected Areas

**Strategies:**

1. Strengthen the institutional framework (including database) in CEPA for effective management and governance of the PNG Protected Area Network
2. Review and Strengthen the existing legal framework and develop a new Protected Area legislation for effective management and governance of PNG PA Network
3. Ensure Multilateral Environment Agreements (MEAs) are integrated into national legal and institutional frameworks
4. Develop operational procedures, administrative guidelines and Regulations for the legal framework with clear lines of responsibility and high standards of governance, accountability and reporting
5. The PNG Protected Area Network is a shared responsibility among different levels of government and other sectors through legislation and policies created at Provincial, District and Local Level including local communities.
6. Improve and strengthen existing Provincial and Local Level Governments' Biodiversity Conservation laws in PA management.
7. Integrate Protected Area management activities into 5-Year Development Plans, with annual budgets and Land-Use Plans across all levels of government
8. Ensure PA Network is built and managed with free prior and informed consent (FPIC) of customary landowners and communities.
9. Encourage and promote governance by Local Communities - model of ownership and management style
10. CEPA Financial Management strengthened with clear lines of responsibility, and high standards of governance, accountability and reporting to secure adequate funding from the Government and donor partners to support PA Network.
11. Ensure Public-Private Partnership Arrangements are established and enhanced

Project/Activities	2018		2019		2020		2021		2022		2023		2024		2025		2026-2028		Cost K'000	Funding Source	Action	Output Indicator	
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2					3
1. Strengthen the institutional framework (including database) in CEPA for effective management and governance of the PNG Protected Area Network																							
1.1.1.1 Review the current CEPA institutional structure to include with clear lines of responsibility the PA network management.																				150	Operational Budget; CIP	CEPA, DPM, System Specialist Consultant and Project team	Review Report
1.1.1.2 Endorse the revised CEPA institutional structure that includes PA network management																				0.0	Same as above	CEPA, DPM, System Specialist Consultant and Project team	Endorsed CEPA institutional structure
1.1.1.3 Recruit qualified personnel to the approved CEPA institutional structure																				500	Same as above	Same as above	Number of qualified personnel recruited



1.1.1.4 Conduct a Training Needs Assessment of CEPA Staff relating to Biodiversity Conservation and Protected Areas Management	200	Same as above; UNDP	Same as above	Training Needs Assessment Report
1.1.1.5 Train CEPA officers in PA management and planning and biodiversity conservation	400	Same as above	Same as above	Number of CEPA staff trained
1.1.1.6 Conduct assessment of all existing Protected Areas in PNG	300	Same as above	CEPA, UNDP/GEF 4 team	Assessment Report produced
1.1.1.7 Implement recommendations of the Assessment Report and re-classify all existing Protected Areas.	100	Same as above	Same as above	Report on implementation of TNA Recommendations
1.1.1.8 Update the PA Network Register/registry	100	Same as above	Same as above	Updated PA Network Registry
1.1.1.9 Draft SOP to include the Administration of PA Register	10	Same as above	Same as above	SOP reflecting administration of PA register
1.1.1.10 Update all other data of Protected Areas managed by other stakeholders.	150	Same as above	Same as above	Report on Updated PA data
1.1.1.11 Formulate a coherent and synchronized Dataset Standards across all targeted PA types.	500	Same as above	Same as above	Dataset Standard and Manual produced
1.1.1.12 Develop mechanisms for effective communication and sharing of information and data between line agencies and stakeholders	200	Same as above	Same as above	Communications Strategy Developed

Goal No.1: Governance and Management of Protected Areas is enhanced *Continued...*

Project/Activities	2018			2019			2020			2021			2022			2023			2024			2025			2026-2028			Cost K'000	Funding Source	Action	Output Indicator
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	2026	2027	2028				
1.1.1.13 Review data storage system, its backup system and report improvements on storage system																												1000	Same as above	Same as above	Review Report produced; Backup system established and is operational
Sub Total: 3,610																															
2. Review and Strengthen the existing legal framework and develop a new Protected Area legislation for effective management and governance of PNG PA Network																															
2.1.1.1 Recruit a legal counsel as consultant to develop PA legislation and regulations.																												200	CEPA, Donors	CEPA, Legal Consultant UNDP/GEF 4 Team	A legal counsel is recruited as a consultant
2.1.1.2 Conduct a legal review of all existing conservation related legislation and provide a report with recommendations for improvement.																												150	CEPA, Donors	CEPA, Legal Consultant UNDP/GEF 4 Team	Review Report produced with clear Recommendations
2.1.1.3 Draft Information Paper on the proposed Protected Area legislation.																												20	CEPA, Donors	CEPA, Legal Consultant UNDP/GEF 4 Team	Draft Information Paper is produced
2.1.1.4 Circulate the Draft Bill to partners, stakeholders and communities for written comments and feedback.																												10	CEPA	CEPA, Legal Consultant UNDP/GEF 4 Team	Draft Bill is circulated to stakeholders and their written feedback received and relevant amendments done to Draft Bill
2.1.1.5 Workshop the Zero Draft Bill with partners, stakeholders and communities through regional consultations.																												150	CEPA, Donors	CEPA, Legal Consultant UNDP/GEF 4 Team	Workshop conducted to present the Zero Draft Bill to partners, stakeholders and communities; Workshop report produced
2.1.1.6 Consult stakeholders on revised Drafts of the Bill																												100	Same as above	CEPA, Legal Consultant UNDP/GEF 4 Team	Stakeholders' feedback on revised Drafts of the Bill received and incorporated

<p>2.1.1.7 Hire a legal drafting specialist to:</p> <ul style="list-style-type: none"> <li>• Fine-tune the Bill ensuring there is Constitutional compliance with Section 38(1) of the Constitution as well as provide practical and experienced inputs to ensuring cross-cutting issues in the Transitional Provisions to save all existing rights.</li> <li>• Provide practical and experienced input to obtain approval or clearance from the Office of the Legislative Counsel that the PA Bill is fit for submission to the NEC.</li> <li>• Provide practical and experienced input to navigating the process of obtaining the Certificate of Necessity from the Solicitor General's Office.</li> <li>• Assist in obtaining the cooperation of the NEC Secretariat to get the Bill onto the NEC agenda and business-paper.</li> <li>• Provide practical and experienced input into the process of compiling and fine-tuning the final NEC Submission.</li> </ul>		300	Same as above	Same as above	A legal drafting specialist hired with clear Terms of Reference

Goal No.1: Governance and Management of Protected Areas is enhanced *Continued...*

Project/Activities	2018				2019				2020				2021				2022				2023				2024				2025				2026-2028		Cost K'000	Funding Source	Action	Output Indicator
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2				
2.1.1.8 Review relevant legislation to make it consistent with the new PA legislation such as: <ul style="list-style-type: none"> <li>• Conservation Areas Act,</li> <li>• Fauna Protection and Control Act,</li> <li>• Crocodile Protection Act,</li> <li>• International Trade Act (CITES),</li> <li>• Environment Act,</li> <li>• Conservation and Environment Protection Act,</li> <li>• Forestry Act,</li> <li>• Mining Act,</li> <li>• Fisheries Act,</li> <li>• Maritime Zones Act, and</li> <li>• Marine Pollution Act under NMSA.</li> </ul>																																	1000	Same as above	CEPA, Legal Consultant UNDP/GEF 4 team	Review Report		
2.1.1.9 Prepare report for any major or consequential amendments.																																	50	Same as above	Same as above	Report on Consequential Amendments		
2.1.1.10 Seek legal clearance prior to making necessary amendments																																	0.0	Same as above	Same as above	Letter of endorsement on legal clearance		
2.1.1.11 Amend all necessary legislation where possible.																																	350	Same as above	Same as above	Amendment Report		
2.1.1.12 Conduct desk top review on the new PA legislation to ensure consistency with the Torres Strait Treaty and the Organic Law on Provincial and Local Level Government.																																	30	Same as above	Same as above	Desktop Review Report		
2.1.1.13 Make further recommendation for amendments if necessary to appropriate authorities.																																	20	Same as above	Same as above	Proposed Recommendations		
Sub Total:																												2,380										

3. Ensure Multilateral Environment Agreements (MEAs) are integrated into national legal and institutional frameworks

3.1.1.1 Review current implementation of Global, Regional and Bilateral Environmental/Biodiversity Conservation Agreements (MEAs).	200	CEPA, Do-nors	CEPA, DJAG, Foreign Affairs, DNPM, PM & NEC, Resource Sector Agencies and	Review Report
3.1.1.2 Amend relevant national legislation to nationalize MEAs.	50	Same as above	Development Partners	Report on Amendments
3.1.1.3 Provide reports on the status of implementation.	20		Same as above	Status Report
3.1.1.4 Monitor and review implementation of the targets using indicators	200		Same as above	Monitoring & Review Report
Sub Total:				470

4. Develop operational procedures, administrative guidelines and Regulations for the legal framework with clear lines of responsibility and high standards of governance, accountability and reporting

4.1.1.1 Develop Regulations for:	500	Operational/ Capital Budget; Donors	CEPA UNDP/GEF4/5	Number of priority Regulations supporting the new PA legislation developed.
<ul style="list-style-type: none"> <li>Establishment and Council Procedures of the NCC including NPART and RPART,</li> <li>Protected Area Management,</li> <li>Establishing of new PA standards for adaptive and effective biodiversity management;</li> <li>Penalties and Fines</li> <li>Zoning,</li> <li>De-registration of a PA,</li> <li>Species Management, control and protection in PA</li> <li>Documenting Traditional knowledge (including local ecological and biological knowledge and cultural values).</li> <li>Resources development within the vicinity of major protected areas.</li> <li>Linking of Environment Permits for developments adjacent to Protected Areas.</li> </ul>				

Goal No.1: Governance and Management of Protected Areas is enhanced *Continued...*

Project/Activities	2018			2019			2020			2021			2022			2023			2024			2025			2026-2028	Cost K'000	Funding Source	Action	Output Indicator
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4					
4.1.1.2 Develop Standard Operating Procedures for: Protected Area management to be transparent, accountable, adaptive, responsive to landowner needs, and for occupational health and safety.																								50	Same as above	CEPA UNDP/GEF4/5	Number of Standard Operating Procedures developed.		
Sub Total: 550																													
5. The PNG Protected Area Network is a shared responsibility among different levels of government and other sectors through legislation and policies created at Provincial, District and Local Level including local communities.																													
5.1.1.1 Conduct a Technical assessment on Management Effectiveness of registered Protected Areas.																									30	Operational/ Capital Budget; Donors	CEPA UNDP/GEF4/5	Technical Assessment Report	
5.1.1.2 Implement recommendations from this assessment in the 8 target provinces as part of their Management Plans.																									100	Same as above	Same as above	Implementation Reports	
5.1.1.3 Assign a CEPA team to work with projects at Varirata National Park, New Britain Island, Kokoda Track IPZ, YUS and Torricelli Mountain Ranges in developing respective Management Plans as models.																									50	Same as above	Same as above	Project specific site Teams with clear and costed Work Plans	
5.1.1.4 Implement these Management plans with strong emphasis on developing their governance structures.																									200	Same as above	Same as above	Implementation Reports	

5.1.1.5 Document all lessons learnt from these sites.	10	CEPA and others as Above	Implementation Reports
5.1.1.6 Replicate the lessons learnt in other priority protected areas as identified through the PoWPA report in both marine and terrestrial.	200	CEPA and others as Above	Implementation Reports Guidelines/Procedures
5.1.1.7 Conduct Training Needs Assessments for all levels of government and develop communities and develop Training Plan for each Province.	30	CEPA and others as Above	Training Needs Assessments Reports; Provincial Training Plans
5.1.1.8 PA Management to identify relevant landowners for training.	0.0	CEPA and others as Above	Number of Landowners identified and trained
5.1.1.9 Identify resource persons or institutions (eg. IPA) to conduct Training on PA Management including basic financial management, book keeping, FPIC & IPR, reporting and literacy if needed.	500	CEPA and others as Above	Resource persons and institutions identified and engaged to conduct training; Different types of trainings conducted
5.1.1.10 Document all lesson learnt from this process to be replicated in other priority protected areas identified through PoWPA.	15	Same as above	Reports and Procedural Manuals
<b>Sub Total: 1,135</b>			
<b>6. Improve and strengthen existing Provincial and Local Level Governments' Biodiversity Conservation laws in PA management.</b>			
6.1.1.1 Review Almami LLG Conservation Law and Forest Protection Law 2007, Madang to be consistent with the new PA legislation.	20	CEPA; Legal Team; State Sol; Department of Treasury, Finance and National Planning;	Operational/Capital Budget; Donors
6.1.1.2 Complete a peer review of the pending Kimbe Bay Environmental Law.	50	Provincial Governments	Review Report with Recommendations; Statutory Amendments
6.1.1.3 Prepare a report on its findings	0.0	Same as Above	Peer Review Report with Recommendations

Goal No.1: Governance and Management of Protected Areas is enhanced *Continued...*

Project/Activities	2018		2019		2020		2021		2022		2023		2024		2025		2026-2028		Cost K'000	Funding Source	Action	Output Indicator	
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2					3
6.1.1.4 Complete the legal requirements and clearance before recommending for its enactment.																			0.0	Same as Above	Same as Above	Legal Clearance Letter; Parliamentary Statement	
6.1.1.5 Complete a needs assessment for all Provinces to identify any need for Provincial and LLG laws for biodiversity conservation and protected area management.																			50	Same as Above	Same as Above	Needs Assessment Reports	
6.1.1.6 Implement any key recommendations from this report in order to maintain and strengthen effective protected area management.																			60	Same as Above	Same as Above	Implementation Reports	
<b>Sub Total:</b>																			<b>180</b>				
7. Integrate Protected Area management activities into 5-Year Development Plans, with annual budgets and Land-Use Plans across all levels of government																							
7.1.1.1 Integrate biodiversity conservation and community livelihood development initiatives of VNP into the provincial, district and local governments' development plans																				80	Operational/Capital Budget; Donors	CEPA; State Sol; NFA, PNG FA, DAL, MRA, DPE, DMPG, CCDA Departments of Treasury, Finance and National Planning; Provincial Governments; DDAs	Integrated Development Plans; Level of budgetary support
																						Same as Above	Same as above
7.1.1.2 Establish consultation with key government personnel from the provincial, district, and local level governments for the review of their 5 Year Development Plans																				200	Same as Above	Same as above	Review Program/schedule Consultation Reports



7.1.1.3 Build the capacity of East and West New Britain, East and West Sepik, Morobe, Madang, Central and Oro Provincial, Districts and Local Level Governments to manage identified PAs within their respective areas.	200	Same as Above	CEPA; UNDP/GEF4/5; Provincial Governments; DDAs	Level of demonstrated management capacities
7.1.1.4 Establish and harmonise a database for PA Network on the various PAs and provide accessibility to Provincial/ Regional Offices	200	Same as Above	Same as Above	Database
7.1.1.5 Conduct assessment of land uses in selected PAs – Kokoda track IPZ, Varirata, New Britain Island and Sogeri plateau.	150	Same as Above	Same as Above	Land-use Assessment Reports
7.1.1.6 Zoning of priority conservation areas in identified PAs.	400	Same as Above	Same as Above	Maps
7.1.1.8 Collaborate with NFA, PNG FA, DAL, MRA, DPE, DMPG, CCDA and DNP to mainstream conservation planning into Sector Plans.	100	Same as Above	CEPA; State Sol; NFA, PNG FA, DAL, MRA, DPE, DMPG, CCDA DNP; Provincial Governments; DDAs	Integrated Sector Plans
Sub Total:				1,330
8. Ensure PA Network is built and managed with free prior and informed consent (FPIC) of customary landowners and communities.				
8.1.1.1 Using the recommendations from the PoWPA Report, identify 4 suitable CCA and LMMA sites in the 8 target Provinces.	0.0		CEPA Provincial, District and Local Level Government GEF5/6, JJCA	Number of suitable CCA & LMMA sites identified
8.1.1.2 Prepare Awareness materials on why the sites need to be protected and managed.	50		NGO's, Research Institutions, Protected Area	Number and types of awareness materials

Goal No.1: Governance and Management of Protected Areas is enhanced *Continued...*

Project/Activities	2018			2019			2020			2021			2022			2023			2024			2025			2026-2028	Cost K'000	Funding Source	Action	Output Indicator																				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4																									
8.1.1.3 Prepare a road map on the proposed sites in-house.																									30	Same as above	Road map																						
8.1.1.4 Conduct awareness programs on these sites to relevant stakeholders including governments and landowners.																									100	Same as above	Number of awareness conducted																						
8.1.1.5 Using the new PA legislation as a yard stick, go through the full process of declaring the sites protected working closely with the communities, LLGs, Districts and Provincial Administrations.																									80	Same as above	Number of sites declared as protected areas; Gazettal Notice																						
8.1.1.6 Conduct specific Training for partners including landowners in PA management and enforcement of the new PA law including PA management.																									150	Same as above	Number of training conducted, Number of persons trained																						
<b>Sub Total:</b>																							<b>410</b>																										
9. Encourage and promote governance by Local Communities - model of ownership and management style																																																	
9.1.1.1 Conduct and implement Governance by local communities by allowing the communities to take leadership in building their capacities.																										150	Operational/ Capital Budget; Donors	CEPA, UNDP/GEF5/6 JICA	Number of local communities taking lead in capacity building.																				
<b>Sub Total:</b>																							<b>150</b>																										
10. CEPA Financial Management strengthened with clear lines of responsibility, and high standards of governance, accountability and reporting to secure adequate funding from the Government and donor partners to support PA Network.																																																	
10.1.1.1 Establish Project Management or Donor Co-ordination Unit in CEPA.																										100	Operational/ Capital Budget; Donors	CEPA, UNDP/GEF5/6 JICA	Project Management Unit established																				

10.1.1.2 Review or audit the existing Financial Management structure in CEPA to ensure it is credible and transparent.	50	Operational/Capital Budget;	Same as above	Audit report
10.1.1.3 Implement recommendations in accordance with the Public Finance Management Act and CEPA Financial Management Order	50	Operational/Capital Budget; Donors	Same as above	Implementation report
10.1.1.4 Prepare Donor Fund Raising Strategy for PA Network Management in PNG.	40	Same as above	Same as above	Donor Fund raising Strategy
10.1.1.5 Prepare annual Budget submissions based on identified priority activities in the PA Implementation Plan (2018-2025).	20	Same as above	Same as above	Annual Budget Document
10.1.1.6 Prepare 1 Capital Investment Project submission for five years commencing 2018 – 2022.	20	Same as above	Same as above	Capital Investment Project Proposal
10.1.1.7 Secure additional funds from GEF6, JICA and other donors for implementation of the PA policy.	0.0	Same as above	Same as above	Volume of Funding secured from GEF6, JICA and Other Donors
Sub Total:				280
<b>11. Ensure Public-Private Partnership Arrangements are established and enhanced</b>				
11.1.1.1 Review the MoA between NCDC and CEPA on the management arrangement for Varirata National Park, Central Province and amend where necessary.	20	Operational/Capital Budget; Donors	CEPA, UNDP/GEF5/6 JICA	MoA Review Report
11.1.1.2 Complete a literature review of existing PPP arrangements with established PAs in Australia and other Asian countries.	30	Same as above	CEPA, UNDP/GEF5/6 JICA	Literature Review Report
11.1.1.3 Explore potential partners for PPP arrangements in PNG or abroad.	150	Same as above	Same as above	Concept Note / Briefs

**Goal No.1: Governance and Management of Protected Areas is enhanced *Continued...***

Project/Activities	2018				2019				2020				2021				2022				2023				2024				2025				2026-2028	Cost K'000	Funding Source	Action	Output Indicator						
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4											
11.1.1.4 Approach the potential partner for Variarata National Park.																																									25	Same as above	Letter of Invites/ Brief
11.1.1.5 Work with JICA-CE-PA project team to further expand on the potential investors/partners for Variarata National Park.																																					25	Same as above	Position Paper/ Briefs				
11.1.1.6 Prepare necessary legal process to formalize the arrangements under the new PA law.																																					60	Same as above	Legal instruments prepared				
<b>Sub Total:</b>																												310															
<b>Grand Total:</b>																												10,805															

## MONITORING AND EVALUATION FRAMEWORK

**Goal No.1:** Governance and Management of Protected Areas is enhanced

**Program:** Enhancing Governance and Management of Protected Areas

**Strategies:**

1. To Establish the legal and institutional framework for effective management and governance of the PNG Protected Area Network.
2. To Ensure the legal framework becomes fully operational with clear lines of responsibility and high standards of governance, accountability and reporting
3. To Ensure effective legal and institutional arrangements are in place for provincial, district and local level governments, communities including customary landowners, on-ground protected area managers and other partners work in cooperation.
4. To ensure local and international partners and stakeholders assist with sustainable financial and practical support, including training, education, capacity building, community development and mentoring
5. To support customary landowners in their initiatives to establish effective protected areas on their land and contribute to strengthening the Protected Area Network.
6. To ensure CEPA supports Protected Area Network with adequate funding and staff capacity

Projects/ Activities	Targets	Time Frame	Appropriation K'000	Expenditure to Date	Current Status	Comments/Recommendations
1.1.1.1.1 Review the current CEPA institutional structure to include with clear lines of responsibility the PA network management.	1.1.1 Standard of Governance by Government in CEPA is improved and strengthened by 2020.	2018-2020				
1.1.1.1.2 Endorse the revised CEPA institutional structure that includes PA network management		2018-2020				
1.1.1.1.3 Recruit qualified personnel to the approved CEPA institutional structure		2018-2020				
1.1.1.1.4 Conduct a Training Needs Assessment of CEPA Staff relating to Biodiversity Conservation and Protected Areas Management		2018-2020				
1.1.1.1.5 Train CEPA officers in PA management and planning and biodiversity conservation		2018-2020				
<b>Sub-Total:</b>						
1.1.2.1 Conduct assessment of all existing Protected Areas in PNG	1.1.2 A Protected Area Network Register/registry is developed and linked to Provincial/ Regional Offices by 2020	2018-2020				
1.1.2.2 Implement recommendations of the Assessment Report and re-classify all existing Protected Areas.		2018-2020				
1.1.2.3 Update the PA Network Register/registry		2018-2020				
1.1.2.4 Draft SOP to include the Administration of PA Register		2018-2020				
1.1.2.5 Update all other data of Protected Areas managed by other stakeholders.		2018-2020				
1.1.2.6 Formulate a coherent and synchronized Data-set Standards across all targeted PA types.		2018-2020				
1.1.2.7 Develop mechanisms for effective communication and sharing of information and data between line agencies and stakeholders		2018-2020				
1.1.2.8 Review data storage system, its backup system and report improvements on storage system		2018-2020				
<b>Sub-Total:</b>						

Goal No. 1: Governance and Management of Protected Areas is enhanced *Continued...*

Projects/ Activities	Targets	Time Frame	Appropriation K'000	Expenditure to Date	Current Status	Comments/Recommendations
1.2.1.1 Recruit a legal counsel as consultant to develop PA legislation and regulations	1.2.1 A new Protected Area legislation developed by 2018	2018-2020				
1.2.1.2 Conduct a legal review of all existing conservation related legislation and provide a report with recommendations for improvement.		2018-2020				
1.2.1.3 Draft Information Paper on the proposed Protected Area legislation.		2018-2020				
1.2.1.4 Circulate the Draft Bill to partners, stakeholders and communities for written comments and feedback.		2018-2020				
1.2.1.5 Workshop the Zero Draft Bill with partners, stakeholders and communities to incorporate feedback through regional consultations.		2018-2020				
1.2.1.6 Consult stakeholders on revised Drafts of the Bill		2018-2020				
1.2.1.7 Hire a legal drafting specialist to: <ul style="list-style-type: none"> <li>Fine-tune the Bill ensuring there is Constitutional compliance with Section 38(1) of the Constitution as well as provide practical and experienced inputs to ensuring cross-cutting issues in the Transitional Provisions to save all existing rights.</li> <li>Provide practical and experienced input to obtain approval or clearance from the Office of the Legislative Counsel that the PA Bill is fit for submission to the NEC.</li> <li>Provide practical and experienced input to navigating the process of obtaining the Certificate of Necessity from the Solicitor General's Office.</li> <li>Assist in obtaining the cooperation of the NEC Secretariat to get the Bill onto the NEC agenda and business-paper.</li> <li>Provide practical and experienced input into the process of compiling and fine-tuning the final NEC Submission.</li> </ul>		1.2.1 A new Protected Area legislation developed by 2018...Continue				
<b>Sub-Total:</b>						

<p>1.2.2.1 Review relevant legislation to make it consistent with the new PA legislation such as:</p> <ul style="list-style-type: none"> <li>• Fauna Protection and Control Act,</li> <li>• Crocodile Protection Act,</li> <li>• International Trade Act (CITES),</li> <li>• Environment Act,</li> <li>• Conservation and Environment Protection Act,</li> <li>• Forestry Act,</li> <li>• Mining Act,</li> <li>• Fisheries Act,</li> <li>• Maritime Zones Act, and Marine Pollution Act under NMSA.</li> </ul>	<p>1.2.2.2 Related legislation relevant to protected areas establishment reviewed and amended by 2025</p>	<p>2018-2025</p>				
<p>1.2.2.2 Prepare report for any major or consequential amendments.</p>		<p>2018-2025</p>				
<p>1.2.2.3 Seek legal clearance prior to making necessary amendments</p>		<p>2018-2025</p>				
<p>1.2.2.4 Amend all necessary legislation where possible.</p>		<p>2018-2025</p>				
Sub-Total:						
<p>1.2.3.1 Conduct desk top review on the new PA legislation to ensure consistency with the Torres Strait Treaty and the Organic Law on Provincial and Local Level Government.</p>	<p>1.2.3 Consistency and complementary of the new PA legislation with Organic Law on Provincial and Local Level Government and other international Treaties by 2018.</p>	<p>2018</p>				
<p>1.2.3.2 Make further recommendation for amendments if necessary to appropriate authorities.</p>		<p>2018</p>				
Sub-Total:						
<p>1.3.1. Review current implementation of Global, Regional and Bilateral Environmental/Biodiversity Conservation Agreements (MEAs).</p>	<p>1.3.1 Nationalize Aichi Targets, World Heritage, Ki, 17 SDGs, into national legislations and policies by 2018.</p>	<p>2018</p>				
<p>1.3.1.2 Amend relevant national legislation to nationalize MEAs.</p>		<p>2018</p>				
<p>1.3.1.3 Provide reports on the status of implementation.</p>		<p>2018</p>				
<p>1.3.1.4 Monitor and review implementation of the targets using indicators</p>		<p>2018</p>				
Sub-Total:						

Goal No.1: Governance and Management of Protected Areas is enhanced *Continued...*

Projects/ Activities	Targets	Time Frame	Appropriation K'000	Expenditure to Date	Current Status	Comments/Recommendations
<p>2.1.1.1 Develop Regulations for:</p> <ul style="list-style-type: none"> <li>Establishment and Council Procedures of the NCC including NPART and RPART,</li> <li>Protected Area Management,</li> <li>Establishing of new PA standards for adaptive and effective biodiversity management;</li> <li>Penalties and Fines</li> <li>Zoning,</li> <li>De-registration of a PA,</li> <li>Species Management, control and protection in PA</li> <li>Documenting Traditional knowledge (including local ecological and biological knowledge and cultural values).</li> <li>Resources development within the vicinity of major protected areas.</li> <li>Linking of Environment Permits for developments adjacent to Protected Areas.</li> </ul>	<p>2.1.1 Develop priority Regulations by 2018</p>	2018				
		Sub-Total:				
<p>2.2.1.1 Develop Standard Operating Procedures for:</p> <ul style="list-style-type: none"> <li>Protected Area management to be transparent, accountable, adaptive, responsive to landowner needs, and for occupational health and safety,</li> <li>Administration for PA Network Register/ registry to include data collection and sharing, community engagement protocol, research consent regime etc.</li> <li>Linking of Environment Permits for developments adjacent to Protected Areas.</li> </ul>	<p>2.1.2 Develop Standard Operating Procedures by 2020.</p>	2018-2020				
		Sub-Total:				
<p>3.1.1.1 Conduct a Technical assessment on Management Effectiveness of registered Protected Areas.</p>	<p>3.1.1 Shared governance of Protected Areas between customary landowners and organizations including NGOs and Governance by customary landowners in 138 targeted Provinces are strengthened by 2020</p>	2018-2020				
<p>3.1.1.2 Implement recommendations from this assessment in the 8 target provinces as part of their Management Plans</p>		2018-2020				
<p>3.1.1.3 Assign a CEPA team to work with projects at Varirata National Park, New Britain Island, Kokoda Track IPZ, YUS and Torricelli Mountain Ranges in developing respective Management Plans as models</p>		2018-2020				



3.1.1.4 Implement these Management plans with strong emphasis on developing their governance structures					2018-2020				
3.1.1.5 Document all lessons learnt from these sites					2018-2020				
3.1.1.6 Replicate the lessons learnt in other priority protected areas as identified through the PoWPA report in both marine and terrestrial.					2018-2020				
Sub-Total:									
3.1.2.1 Conduct Training Needs Assessments for all levels of government and communities and develop Training Plan for each Province.	3.1.2 Train 10 community personnel in Protected Area Management and governance per project site by 2020.								
3.1.2.2 PA Management to identify relevant landowners for training.									
3.1.2.3 Identify resource persons or institutions (eg. IPA) to conduct Training on PA Management including basic financial management, book keeping, FPIC & IPR, reporting and literacy if needed.									
3.1.2.4 Document all lesson learnt from this process to be replicated in other priority protected areas identified through PoWPA.									
Sub-Total:									
3.2.1.1 Review Almami LLG Conservation Law and Forest Protection Law 2007, Madang to be consistent with the new PA legislation.	3.2.1 Any existing Provincial and LLG laws reviewed and aligned with the new PA legislation by 2025				2018-2025				
3.2.1.2 Complete a peer review of the pending Kimbe Bay Environmental Law.					2018-2025				
3.2.1.3 Prepare a report on its findings					2018-2025				
3.2.1.4 Complete the legal requirements and clearance before recommending for its enactment					2018-2025				
3.2.1.5 Complete a needs assessment for all Provinces to identify any need for Provincial and LLG laws for biodiversity conservation and protected area management.					2018-2025				
3.2.1.6 Implement any key recommendations from this report in order to maintain and strengthen effective protected area management.					2018-2025				
Sub-Total:									

<sup>13</sup> The 8 target Province which projects are implemented include; Central, Northern, East and West Sepik, East and West New Britain, Morobe and Madang and any additional specified sites under GEF 6

**Goal No.1: Governance and Management of Protected Areas is enhanced Continued...**

Projects/ Activities	Targets	Time Frame	Appropriation K'000	Expenditure to Date	Current Status	Comments/Recommendations
3.3.1.1 Integrate biodiversity conservation and community livelihood development initiatives of VNP into the provincial, district and local governments' development plans	3.3.1 Integrated Provincial (5 Years) Development Plans for 8 target Provinces to reflect protected area management activities, its annual budget and land use plans by 2020	2018-2020				
3.3.1.2 Establish consultation with key government personnel from the provincial, district, and local level governments for the review of their 5 Year Development Plans		2018-2020				
		Sub-Total:				
3.3.2.1 Build the capacity of East and West New Britain, East and West Sepik, Morobe, Madang, Central and Oro Provincial, Districts and Local Level Governments to manage identified PAs within their respective areas	3.3.2 10% priority conservation areas integrated and aligned with Resource Sectors conservation planning by 2025	2018-2025				
3.3.2.2 Establish and harmonise a database for PA Network on the various PAs and provide accessibility to Provincial/ Regional Offices.		2018-2025				
3.3.2.3 Conduct assessment of land uses in selected PAs – Kokoda track IPZ, Varirata, New Britain Island and Sogeri plateau		2018-2025				
3.3.2.4 Zoning of priority conservation areas in identified PAs.		2018-2025				
3.3.2.5 Collaborate with NFA, PNG FA, DAL, MRA, DPE, DMPG, CCDA and DNPMP to mainstream conservation planning into Sector Plans.		2018-2025				
		Sub-Total:				
4.1.1.1 Using the recommendations from the PoWPA Report, identify 4 suitable CCA and LMMA sites in the 8 target Provinces	4.1.1 New Community Conservation Areas or Locally Managed Marine Areas are registered and effectively managed by customary landowners in any of the 8 target Provinces by 2020	2018-2020				
4.1.1.2 Prepare Awareness materials on why the sites need to be protected and managed.		2018-2020				
4.1.1.3 Prepare a road map on the proposed sites in-house.		2018-2020				
4.1.1.4 Conduct awareness programs on these sites to relevant stakeholders including governments and landowners.		2018-2020				
4.1.1.5 Using the new PA legislation as a yard stick, go through the full process of declaring the sites protected working closely with the communities, LLGs, Districts and Provincial Administrations		2018-2020				

4.1.1.6	Conduct specific Training for partners including landowners in PA management and enforcement of the new PA law including PA management	2018-2020						
		Sub-Total:						
4.2.1.1	Conduct and implement Governance by local communities by allowing the communities to take leadership in building their capacities	2018-2020	4.2.1	Customary landowners in 8 Target Provinces demonstrating strong leadership in PA management by 2020.				
		Sub-Total:						
5.1.1.1	Establish Project Management or Donor Co-ordination Unit in CEPA.	2018-2020	5.1.1	Budget for protected Area Network management and supporting activities in CEPA and 8 target Provinces are increased by 2020.				
5.1.1.2	Review or audit the existing Financial Management structure in CEPA to ensure it is credible and transparent.	2018-2020						
5.1.1.3	Implement recommendations in accordance with the Public Finance Management Act and CEPA Financial Management Order	2018-2020						
5.1.1.4	Prepare Donor Fund Raising Strategy for PA Network Management in PNG.	2018-2020						
5.1.1.5	Prepare annual Budget submissions based on identified priority activities in the PA Implementation Plan (2018-2025).	2018-2020						
5.1.1.6	Prepare 1 Capital Investment Project submission for five years commencing 2018 – 2022.	2018-2020						
5.1.1.7	Secure additional funds from GEF6, JICA and other donors for implementation of the PA policy.	2018-2020						
		Sub-Total:						
5.2.1.1	Review the MoA between NCDC and CEPA on the management arrangement for Varirata National Park, Central Province and amend where necessary.	2018-2020	5.2.1	Declare Public Private Partnership arrangement in place for Varirata National Park by 2020				
5.2.1.2	Complete a literature review of existing PPP arrangements with established PAs in Australia and other Asian countries.	2018-2020						
5.2.1.3	Explore potential partners for PPP arrangements in PNG or abroad.	2018-2020						
5.2.1.4	Approach the potential partner for Varirata National Park	2018-2020						
5.2.1.5	Work with JICA-CEPA project team to further expand on the potential investors/partners for Varirata National Park	2018-2020						
5.2.1.6	Prepare necessary legal process to formalize the arrangements under the new PA law.	2018-2020						
		Sub-Total:						
		Grand-Total:						

## GOAL NO. 2: SUSTAINABLE LIVELIHOODS OF COMMUNITIES

1. Implementation Framework
2. Implementation Schedule
3. Monitoring and Evaluation Framework

### IMPLEMENTATION FRAMEWORK

Goal No. 2: Livelihoods of the communities are sustained

Objective 1 – To strengthen customary practices for enhancing and protecting the environment and traditional livelihoods through protected area establishment and management.			
Targets	Actions to be taken	Measurable indicators	Responsible/Support organization
<b>Strategy 1.1 Areas under Customary 'Conservation' i.e Sacred Sites, Tambu Areas and/or Customary Practices that sustain the environment are recognized.</b>			
1.1.1 Traditional ecological and sustainable cultural practice based 'sacred sites' recognized as PAs in 8 Provinces/ecoregions by 2023.	1.1.1.1 Collaborate with relevant Agencies to identify and document Sacred Sites in identified Project sites (8 Provinces/ Ecoregions).	LLG Inventory records in local language (pictures /video /maps / stories/ legends) by Clan for each Ward and Sacred Sites.	CEPA, PNGNMAG, AG LLG, NGOs
	1.1.1.2 Collaborate with NMAG to assist local communities to develop 'Sacred Site'/PA Conservation Management Plans and MEAs.	Local language and English version materials of Sacred Site in Provincial and National Inventories.	CEPA, PNGNMAG, AG LLG, NGOs
		Sacred Sites and/or Practices recognized in PA Bill 'Deed' within the LLG.	CEPA, PNGNMAG, AG LLG
		CA Deeded Sacred sites on National PA Register	
<b>Strategy 1.2 Ensure local arrangements governing use of natural resources in Protected Areas are sustainable and continue to support traditional livelihoods.</b>			
1.2.1 Document traditional and cultural knowledge and practices for sustainable environmental use in all targeted PAs by 2023.	1.2.1.1 Facilitate for relevant processes for documenting traditional knowledge and practices in target communities/ PAs.	Traditional Knowledge products.	CEPA, PNGNM, AG JICA, KI, GEF5, LLG NGOs
	1.2.1.2 Collaborate with relevant partners to ensure that traditional ecological knowledge and cultural uses of the environment in an effective medium conforms to FPIC and IPR standards.	Documentation /Audio Visual products as appropriate for each PA PIC and IPR records for each PA	CEPA, PNGNM and AG JICA, KI, GEF5, LLG NGOs
	1.2.1.3 Collaborate with relevant partners to ensure that Valuation of Social and Environmental Services - both directly and indirectly benefit the clans/ communities for each PA.	Valuation of Socio-Environmental Services Document for each PA	CEPA, PNGNM, AG JICA, KI, GEF5, LLG NGOs
1.2.2 Protect and promote understanding of the value of cultural and traditional knowledge in targeted PAs by 2023.	1.2.2.1 Facilitate for development of awareness materials on Social and Ecosystem values contribution to community livelihoods.	Report of Traditional Ecological/ Cultural Practices that relate to environmental management for each Rural District.	CEPA, Provincial Gov'ts, LLGs, JICA, KI, GEF5, NGOs

	1.2.2.2 Facilitate for community participatory and awareness for traditional, ecological and cultural (biocultural) practices.	Awareness materials and medium verified by product; Awareness materials produced and distributed to Districts Activities on World Days.	CEPA, JICA, KI, GEF5 Provincial Govts, LLG NGOs
	1.2.2.3 Consistent with CEPA communications strategy, evaluate medium of information dissemination to maximize effectiveness and select the best	Evaluation Reports and Recommendations. Altered Awareness.	CEPA, Provincial Govts, LLG, NGOs
1.2.3 Document identified pilot Project Sites, Social Maps completed by 2023.	1.2.3.1 Develop social mapping guidelines using Kokoda Initiative lessons learnt.	Number of Protected Areas socially mapped.	CEPA, UPNG/UNRE JICA, KI, GEF5, NGO, LLG, Provincial Govts
	1.2.3.2 Engage expertise to conduct social mapping.	Number of experts engaged; Report on Social mapping	
	1.2.3.3 Social Maps checked and recognized by communities and appropriate Government Agency.	Social Mapping recognised by relevant Government Agency.	
<b>Objective 2 – To link additional livelihoods to effective Conservation Initiatives by customary landowners.</b>			
<b>Targets</b>	<b>Actions to be taken</b>	<b>Measurable indicators</b>	<b>Responsible/Support organization</b>
<b>Strategy 2.1 Conservation Initiatives are supported by the provision of needed facilities to the community that will support the management of PAs.</b>			
2.1.1 Improve support for livelihoods within identified PAs by 2023.	2.1.1.1 Facilitate funding support for social/economic /financial infrastructure facilities linked to PAs by Community Leaders within Ward, LLG and District Development Plans.	Certificates of Completion of all infrastructure projects.	CEPA, Provincial services, JICA, KI, GEF5
	2.1.1.2 Facilitate training of Rangers, PA Management Committees and other expertise linked to PA management.	MoA with Trainees. Graduands working in and for communities with PAs	CEPA, JICA, KI, GEF5 LLG, Provincial Govts NGOs
	2.1.1.3 Co-ordinate monitoring and evaluation of livelihood conservation initiatives in targeted PAs.	Monitoring and Evaluation Reports.	CEPA, JICA, KI, GEF5
<b>Strategy 2.2 Conservation Initiatives are supported by economic opportunities in the community.</b>			
2.2.1 In the targeted PAs, customary landowners' economic livelihood initiatives are developed/ enhanced and supported by 2023.	2.2.1.1 Facilitate and conduct awareness, on livelihood options for each targeted PAs.	Number and type of Livelihood options such as Conservation, Coffee/ Cocoa, Eco-tourism, Research-Tourism, forest products, business enterprise.	CEPA, Provincial Govts JICA/KI/GEF5, CIC/ CCR/TPA, Business Sector, NGOs
	2.2.1.2 Manage the procurement of technical assistance from appropriate local and international organizations.	Expression of Interest and responses.	CEPA, PA Management Provincial Administrations
	2.2.1.3 Facilitate livelihood options with appropriate bodies/ industry.	Number of Agreements developed, negotiated and signed. e.g. LO growers with CIC, CCR, and Exporter.	CEPA, Provincial Govts JICA/KI/GEF5, CIC/ CCR/TPA, Business Sector, PA Management, Business Sector
	2.2.1.4 Facilitate the certification of livelihood products as premium prices, in partnership with other relevant agencies.	Certifications: e.g. Organic, Free Trade, Conservation.	

Targets	Actions to be taken	Measurable indicators	Responsible/Support organization
2.2.2. Candidates from targeted PAs are trained in business management, marketing and related initiatives linked to PA management by 2023.	<p>2.2.2.1 Facilitate for Training Needs Assessment and Analysis of PA business management and marketing for each PAs</p> <p>2.2.2.2 Identify appropriate training providers</p> <p>2.2.2.3 Facilitate the identification of relevant candidates each from the targeted PAs.</p> <p>2.2.2.4 Facilitate training and follow-up by relevant Government Agency or private entity that specialise in business, marketing, basic science/monitoring, tour guiding, paralegal skills, basic book keeping, business, hospitality and certification standard requirements</p>	<p>Developed TNA, Evaluation document of training providers</p> <p>Number of Training Providers identified and engaged; Number of Candidates selected</p> <p>Number of persons identified from each targeted PA</p> <p>Number of persons trained and utilising skills and knowledge in basic science/monitoring, tour guiding, paralegal skills, basic book keeping, business, marketing, hospitality, certification standard requirements</p>	<p>CEPA, Provincial Govts JICA/KI/GEF5, CIC/CCR/TPA, Business Sector</p> <p>CEPA Provincial Govts JICA/KI/GEF5 CIC/CCR/TPA Business Sector</p>
<b>Objective 3 – To develop Conservation and Benefit Sharing Agreements with customary landowners and communities for all Protected Areas in order to formalize the management arrangements and benefits.</b>			
<b>Strategy 3.1 Government recognition of ABS (Access Benefit Sharing) Agreements supported through practical assistance – both financial and technical.</b>			
3.1.1. Formulate ABS policy and legislation by 2020	<p>3.1.1.1 Ratify Nagoya Protocol.</p> <p>3.1.1.2 Consultations with stakeholders to draft TOR in ABS Policy development.</p> <p>3.1.1.2 Participate in ABS Policy and Legislation plus Regulations consultations.</p>	<p>Nagoya Protocol Ratified</p> <p>ABS Policy Drafting TOR</p> <p>ABS Policy ABS Act with Regulations</p>	<p>Department of Commerce, Trade and Public Relations CEPA, Nat Govt Agencies</p> <p>CEPA, Provincial Govts NGO, JICA, KI, GEF5</p>
3.1.2 Conservation and ABS Agreements developed, formalized and operational in 84 locations by 2023	<p>3.1.2.1 Socialise the Policy and Legislation when in place with PAs management.</p> <p>3.1.2.2 Conduct public awareness (workshops training) on access benefit sharing outlining Opportunities and Risks.</p> <p>3.1.2.3 Assist in the development of ABS agreements with PIC (Prior Informed Consent), IPR Intellectual Property Rights) respected e.g. access to genetic resources, customary knowledge.</p> <p>3.1.2.4 Assist communities to define parties' roles, rights and responsibilities within ABS agreements.</p> <p>3.1.2.5 Develop and document conflict resolution procedures</p>	<p>ABS Policy and Law copies in Districts</p> <p>ABS proposals</p> <p>ABS Agreements PIC and IPR support agreements</p> <p>Parties' roles, rights and responsibilities within ABS agreement.</p> <p>Conflict resolution procedure within ABS agreement</p>	<p>CEPA, Provincial Govts NGO</p> <p>CEPA, NGO, JICA, KI, GEF5</p> <p>CEPA, Provincial Govts NGO, JICA, KI, GEF5</p> <p>CEPA, Provincial Govts NGO, JICA, KI, GEF5</p>

# IMPLEMENTATION SCHEDULE

Goal No. 2: Livelihoods of the communities are sustained

Program: Sustainable Livelihoods for Communities

**Strategies:**

1. Areas under Customary 'Conservation' i.e Sacred Sites, Tambu Areas and/or Customary Practices that sustain the environment are recognized.
2. Ensure local arrangements governing use of natural resources in Protected Areas are sustainable and continue to support traditional livelihoods.
3. Conservation Initiatives are supported by the provision of needed facilities to the community that will support the management of PAs.
4. Conservation initiatives are supported by economic opportunities in the community.
5. Government recognition of ABS (Access Benefit Sharing) Agreements supported through practical assistance - both financial and technical.

Project/Activities	2018			2019			2020			2021			2022			2023			2024			2025			2026-2028	Cost K'000	Funding Source	Action	Output Indicator																					
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4																										
1. Areas under Customary 'Conservation' i.e Sacred Sites, Tambu Areas and/or Customary Practices that sustain the environment are recognized.																																																		
1.1.1.1 Collaborate with relevant Agencies to identify and document Sacred Sites in identified Project sites (8 Provinces/ Ecoregions).																										200	CEPA Operational Budget Capital Investment Prog Donors Prov/DDAS	CEPA PNGN- MAG, AG LLG NGOs	LLG Inventory records in local language (pictures /video /maps / stories/ legends) by Clan for each Ward and Sacred Sites.  Local language and English version materials of Sacred Site in Provincial and National Inventories																					
1.1.1.2 Collaborate with NIMAG to assist local communities to develop 'Sacred Site'/PA Conservation Management Plans and MEAs																										200	Same as above		Sacred Sites and/ or Practices recognized in PA Bill 'Deed' within the LLG.  CA Deeded Sacred sites on National PA Register																					
																							Sub Total:		400																									

Goal No. 2: Livelihoods of the communities are sustained *Continued...*

Project/Activities	2018		2019		2020		2021		2022		2023		2024		2025		2026-2028		Cost K'000	Funding Source	Action	Output Indicator																	
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2					3	4															
1. Strengthen the institutional framework (including database) in CEPA for effective management and governance of the PNG Protected Area Network																																							
1.1.1.1 Collaborate with relevant Agencies to identify and document Sacred Sites in identified Project sites (8 Provinces/Ecoregions).																			200	CEPA Operational Budget Capital Investment Program Donors Prov/DDAs	CEPA PNGN-MAG, AG LLG NGOs	LLG Inventory records in local language (pictures /video /maps / stories / legends) by Clan for each Ward and Sacred Sites.  Local language and English version materials of Sacred Site in Provincial and National Inventories																	
1.1.1.2 Collaborate with NIMAG to assist local communities to develop 'Sacred Site'/PA Conservation Management Plans and MEAs																			200	Same as above		Sacred Sites and/or Practices recognized in PA Bill 'Deed' within the LLG.  CA Deeded Sacred sites on National PA Register																	
Sub Total: 400																																							
2. Ensure local arrangements governing use of natural resources in Protected Areas are sustainable and continue to support traditional livelihoods.																																							
2.1.1.1 Facilitate for relevant processes for documenting traditional knowledge and practices in target communities/ PAs																				200	Operational and Capital Budgets Donors, DDAs; NGOs	CEPA PNGNIM, AG JICA, KI, GEF5 LLG NGOs	Traditional Knowledge products.																
2.1.1.2 Collaborate with relevant partners to ensure that traditional ecological knowledge and cultural uses of the environment in an effective medium conforms to FPIC and IPR standards.																			300	Same as above	Same as above	Documentation / Audio Visual products as appropriate for each PA PIC and IPR records for each PA																	



2.1.1.3 Collaborate with relevant partners to ensure that Valuation of Social and Environmental Services - both directly and indirectly benefit the clans/ communities for each PA.	350	Same as above	CEPA PNG- NM, AG, JICA, KI, GEF5 NGO, LLG, Prov. Gov	Valuation of Socio-Environmental Services Document for each PA.
2.1.1.4 Facilitate for development of awareness materials on Social and Ecosystem values contribution to community livelihoods.	150	Same as above	CEPA JICA, KI, GEF5 NGO, LLG, Prov. Gov	Report of Traditional Ecological/ Cultural Practices that relate to environmental management for each Rural District.
2.1.1.5 Facilitate for community participatory and awareness for traditional, ecological and cultural (biocultural) practices.	300	Same as above	CEPA JICA, KI, GEF5 NGO, LLG, Prov. Gov	Awareness materials and medium verified by product; Awareness materials produced and distributed to Districts Activities on World Days.
2.1.1.6 Consistent with CEPA communications strategy, evaluate medium of information dissemination to maximize effectiveness and select the best	130	Same as above	CEPA NGO, LLG, Prov. Gov	Evaluation Reports and Recommendations. Altered Awareness
2.1.1.7 Develop social mapping guidelines using Kokoda Initiative lessons learnt.	40	Same as above	CEPA UPNG/ UNRE JICA, KI, GEF5	Number of Protected Areas socially mapped.
2.1.1.8 Engage expertise to conduct social mapping.	200	Same as above	NGO, LLG, Prov. Gov	Number of experts engaged; Report on Social mapping
2.1.1.9 Social Maps checked and recognized by communities and appropriate Government Agency.	200	Same as above	Same as above	Social Mapping recognised by relevant Government Agency.
Sub Total:				2,270

Goal No. 2: Livelihoods of the communities are sustained *Continued...*

Project/Activities	2018		2019		2020		2021		2022		2023		2024		2025		2026-2028		Cost K'000	Funding Source	Action	Output Indicator														
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2					3	4												
3. Conservation Initiatives are supported by the provision of needed facilities to the community that will support the management of PAs.																																				
3.1.1.1 Facilitate funding support for social/economic / financial infrastructure facilities linked to PAs by Community Leaders within Ward, LLG and District Development Plans																			200	Operation/ Capital Budgets Prov Govts Donors Business Communities	CEPA, Provincial services JICA, KI, GEF5	Certificates of Completion of all infrastructure projects.														
3.1.1.2 Facilitate training of Rangers, PA Management Committees and other expertise linked to PA management.																			1000	Same as above	CEPA, JICA, KI, GEF5 LLG, ProvGov NGOs	MoA with Trainees. Graduands working in and for communities with PAS														
3.1.1.3 Co-ordinate monitoring and evaluation of livelihood conservation initiatives in targeted PAs.																			1500	Same as above	CEPA JICA, KI, GEF5	Monitoring and Evaluation Reports.														
Sub Total: 2,700																																				
4. Conservation Initiatives are supported by economic opportunities in the community																																				
4.1.1.1 Facilitate and conduct awareness, on livelihood options for each targeted PAs.																			1000	Operation/ Capital Budgets Prov Govts Donors Business Communities	CEPA Prov Gov JICA/KI/ GEF5 CIC/ CCRI/TPA Business Sector NGOs	Number and type of Livelihood options such as Conservation, Coffee/ Cocoa, Eco-tourism, Research-Tourism, forest products, business enterprise.														
4.1.1.2 Manage the procurement of technical assistance from appropriate local and international organizations.																			200	Operation/ Capital Budgets, Prov Govts, Donors	CEPA, PA Management Prov Admin	Expression of Interest and responses														
4.1.1.3 Facilitate livelihood options with appropriate bodies/ industry.																			500	Operation/ Capital Budgets Prov Govts Donors Business Communities	CEPA Prov Gov JICA/KI/ GEF5; CIC/ CCRI/ TPA Business Sector PA Management	Number of Agreements developed, negotiated and signed. e.g. LO growers with CIC, CCRI, and Exporter.														

4.1.1.4 Facilitate the certification of livelihood products as premium prices, in partnership with other relevant agencies.		Operation/ Capital Budgets Prov Govts Donors Business Communities	Business Sector	Certifications: e.g. Organic, Free Trade, Conserva- tion.
4.1.1.5 Facilitate for Training Needs Assessment and Analysis of PA business management and marketing for each PAS		Same as above	CEPA ProvGov JICA/KI/GEF5/ CIC/CCRI/TPA Business Sector	Developed TNA, Evaluation docu- ment of training providers
4.1.1.6 Identify appropriate training providers		Same as above	Same as above	Number of Training Providers identified and engaged; Number of Candidates selected
4.1.1.7 Facilitate the identification of relevant candidates each from the targeted PAs.		Same as above	Same as above	Number of per- sons identified from each targeted PA
4.1.1.8 Facilitate training and follow-up by relevant Government Agency or private entity that specialise in business, marketing, basic science /monitoring, tour guiding, paralegal skills, basic book keeping, business, hospitality and certification standard requirements		Same as above	Same as above	Number of persons trained and utilising skills and knowledge in basic science/ monitoring, tour guiding, paralegal skills, basic book keeping, business, marketing, hospi- tality, certification standard require- ments
Sub Total:		4,050		
5. Government recognition of ABS (Access Benefit Sharing) Agreements supported through practical assistance – both financial and technical.				
5.1.1.1 Ratify Nagoya Protocol.		Operation/ Capital Bud- gets Prov Govts- Donors	Department of Commerce, Trade and Public Rela- tions CEPA, Nat Gov Agencies	Nagoya Protocol Ratified
	400			

Goal No. 2: Livelihoods of the communities are sustained *Continued...*

Project/Activities	2018			2019			2020			2021			2022			2023			2024			2025			2026-2028	Cost K'000	Funding Source	Action	Output Indicator
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4					
5.1.1.2 Consultations with stakeholders to draft TOR in ABS Policy development.																									300	CEPA ProvGov NGO JICA, Ki, GEF5	ABS Policy Drafting TOR		
5.1.1.3 Participate in ABS Policy and Legislation plus Regulations consultations																									800	Operation/ Capital Budgets Prov Govts	Same as above	ABS Policy ABS Act with Regulations	
5.1.1.4 Socialise the Policy and Legislation when in place with PAs management.																									80	Donors Private Sector	CEPA ProvGov NGO	ABS Policy and Law copies in Districts	
5.1.1.5 Conduct public awareness (workshops training) on access benefit sharing outlining Opportunities and Risks																									1000	CEPA NGO JICA, Ki, GEF5	ABS proposals		
5.1.1.6 Assist in the development of ABS agreements with PIC (Prior Informed Consent), IPR Intellectual Property Rights) respected e.g. access to genetic resources; customary knowledge.																									1000	Same as above	CEPA ProvGov NGO JICA, Ki, GEF5	ABS Agreements PIC and IPR support Agreements	
5.1.1.7 Assist communities to define parties' roles, rights and responsibilities within ABS agreements.																									1000	Same as above	Same as above	Parties' roles, rights and responsibilities within ABS Agreement.	
5.1.1.8 Develop and document conflict resolution procedures.																									200	Same as above	Same as above	Conflict resolution procedure within ABS Agreement	
<b>Sub Total:</b>																							4,780						
<b>Grand Total:</b>																							14,200						

# MONITORING AND EVALUATION FRAMEWORK

Goal No. 2: Livelihoods of the communities are sustained

Program: Sustainable Livelihoods for Communities

**Objectives:**

1. To strengthen customary practices for enhancing and protecting the environment and traditional livelihoods through protected area establishment and management
2. To link additional livelihoods to effective Conservation Initiatives by customary landowners.
3. To develop Conservation and Benefit Sharing Agreements with customary landowners and communities for all Protected Areas in order to formalize the management arrangements and benefits.

Projects/ Activities	Targets	Time Frame	Appropriation K'000	Expenditure to Date	Current Status	Comments/Recommendations
1.1.1.1 Collaborate with relevant Agencies to identify and document Sacred Sites in identified Project sites (8 Provinces/ Ecoregions).	1.1.1 Traditional ecological and sustainable cultural practice based 'sacred sites' recognized as PAs in 8 Provinces/ ecoregions by 2023	2018-2023				
1.1.1.2 Collaborate with NMAG to assist local communities to develop 'Sacred Site'/PA Conservation Management Plans and MEAs		2018-2023				
Sub-Total:						
1.2.1.1 Facilitate for relevant processes for documenting traditional knowledge and practices in target communities/ PAs.	1.2.1 Document traditional and cultural knowledge and practices for sustainable environmental use in all targeted PAs by 2023.	2018-2023				
1.2.1.2 Collaborate with relevant partners to ensure that traditional ecological knowledge and cultural uses of the environment in an effective medium conforms to FPIC and IPR standards.		2018-2023				
1.2.1.3 Collaborate with relevant partners to ensure that Valuation of Social and Environmental Services - both directly and indirectly benefit the clans/ communities for each PA.		2018-2023				
Sub-Total:						

Goal No. 2: Livelihoods of the communities are sustained *Continued...*

Projects/ Activities	Targets	Time Frame	Appropriation K'000	Expenditure to Date	Current Status	Comments/Recommendations
1.2.2.1 Facilitate for development of awareness materials on Social and Ecosystem values contribution to community livelihoods	1.2.2 Protect and promote understanding of the value of cultural and traditional knowledge in targeted PAs by 2023.	2018-2023				
1.2.2.2 Facilitate for community participatory and awareness for traditional, ecological and cultural (biocultural) practices.		2018-2023				
1.2.2.3 Consistent with CEPA communications strategy, evaluate medium of information dissemination to maximize effectiveness and select the best		2018-2023				
		Sub-Total:				
1.2.3.1 Develop social mapping guidelines using Kokoda Initiative lessons learnt.	1.2.3 Document identified pilot Project Sites, Social Maps completed by 2023	2018-2023				
1.2.3.2 Engage expertise to conduct social mapping.		2018-2023				
1.2.3.3 Social Maps checked and recognized by communities and appropriate Government Agency.		2018-2023				
		Sub-Total:				
2.1.1.1 Facilitate funding support for social/economic /financial infrastructure facilities linked to PAs by Community Leaders within Ward, LLG and District Development Plans.	2.1.1 Improve support for livelihoods within identified PAs by 2023.	2018-2023				
2.1.1.2 Facilitate training of Rangers, PA Management Committees and other expertise linked to PA management.		2018-2023				
2.1.1.3 Co-ordinate monitoring and evaluation of livelihood conservation initiatives in targeted PAs.		2018-2023				
		Sub-Total:				
2.2.1.1 Facilitate and conduct awareness, on livelihood options for each targeted PAs.	2.2.1 In the targeted PAs, customary landowners' economic livelihood initiatives are developed/ enhanced and supported by 2023.	2018-2023				
2.2.1.2 Manage the procurement of technical assistance from appropriate local and international organizations.		2018-2023				
2.2.1.3 Facilitate livelihood options with appropriate bodies/ industry.		2018-2023				
2.2.1.4 Facilitate the certification of livelihood products as premium prices, in partnership with other relevant agencies.		2018-2023				
		Sub-Total:				

2.2.2.1 Facilitate for Training Needs Assessment and Analysis of PA business management and marketing for each PAs	2.2.2. Candidates from targeted PAs are trained in business management, marketing and related initiatives linked to PA management by 2023	2018-2023		
2.2.2.2 Identify appropriate training providers		2018-2023		
2.2.2.3 Facilitate the identification of relevant candidates each from the targeted PAs.		2018-2023		
2.2.2.4 Facilitate training and follow-up by relevant Government Agency or private entity that specialise in business, marketing, basic science/ monitoring, tour guiding, paralegal skills, basic book keeping, business, hospitality and certification standard requirements		2018-2023		
Sub-Total:				
3.1.1.1 Ratify Nagoya Protocol.	3.1.1. Formulate ABS policy and legislation by 2020.	2018-2020		
3.1.1.2 Consultations with stakeholders to draft TOR in ABS Policy development.		2018-2020		
3.1.1.2 Participate in ABS Policy and Legislation plus Regulations consultations.		2018-2020		
Sub-Total:				
3.1.2.1 Socialise the Policy and Legislation when in place with PAs management.	3.1.2 Conservation and ABS Agreements developed, formalized and operational in 84 locations by 2023	2018-2023		
3.1.2.2 Conduct public awareness (workshops training) on access benefit sharing outlining Opportunities and Risks.		2018-2023		
3.1.2.3 Assist in the development of ABS agreements with PIC (Prior Informed Consent), IPR Intellectual Property Rights) respected e.g. access to genetic resources, customary knowledge.		2018-2023		
3.1.2.4 Assist communities to define parties' roles, rights and responsibilities within ABS agreements.		2018-2023		
3.1.2.5 Develop and document conflict resolution procedures.		2018-2023		
Sub Total:				
Grand-Total:				

## GOAL NO. 3: EFFECTIVE AND ADAPTIVE BIODIVERSITY MANAGEMENT

1. Implementation Framework
2. Implementation Schedule
3. Monitoring and Evaluation Framework

### IMPLEMENTATION FRAMEWORK

Goal No. 3: Effective and adaptive Biodiversity Management that supports the network and ensures that the values of the Protected Areas are maintained to the highest possible extent

Objective 3 - To ensure effective and adaptive biodiversity management supports the Protected Area Network			
Targets	Actions to be taken	Measurable indicators	Responsible / Support organization
<b>Strategy 1.1 - Develop and implement Policies for biodiversity management planning, monitoring and reporting.</b>			
1.1.1 Regular monitoring and reporting of Biodiversity Conservation activities of all PAs by 2020	1.1.1.1 Conduct management effectiveness assessment of PAs as required.	All PAs METT scores PA Annual Report	CEPA UNDP, GEF4, GEF5, JICA/PA Management
	1.1.1.2 Monitor and report on the National Biodiversity Strategic Action Plan, in line with CBD reporting requirements and timeframe.	Monitoring Reports	CEPA
	1.1.1.3 Produce and submit National Reports to relevant MEAs/Regional & Bilateral (International Conventions and other obligations (CBD, CITES, RAMSAR), others as required.	National Reports	CEPA
	1.1.1.4 Update RAMSAR information sheets	Updated RAMSAR Information Sheet	CEPA
	1.1.1.5 Produce and submit the National Report on the Cartagena Protocol (Biosafety).	National Report	CEPA
1.1.2 Biodiversity Conservation planning and monitoring Guidelines are established by 2020.	1.1.2.1 Conduct Regional Workshops to consult with PAs/CCA Communities on species to be protected.	Workshop Report; Number and Type of Species and habitat to be protected within each PAs/CCA within Management Plan.	CEPA UNDP/GEF5/ JICA, KI NGOs
	1.1.2.2 Compile data from other stakeholders on different species.	Target Conserved Species within database.	CEPA
	1.1.2.3 Finalize and submit the guidelines for NEC endorsement	Guidelines finalized, submitted, endorsed and adopted by NEC; Guidelines gazetted.	UNDP/GEF5/JICA, KI NGOs CEPA GovPNG
		Guidelines adopted by the PA Board	PA Board



<p>1.1.3 Species Management Plans developed for selected culturally important species (IUCN, CITES and PNG protected fauna) by 2023.</p>	<p>1.1.3.1 Conduct baseline study to find out what are culturally significant species</p> <p>1.1.3.2. Collate and update as relevant PNG important species including endemics, IUCN Red List of Threatened Species.</p> <p>1.1.3.3 Formulate Species Management Plans for selected culturally important species and species on the CITES</p> <p>1.1.3.4 Develop Species and Ecosystem Assessment Standards</p> <p>1.1.3.5 Produce Report on species and ecosystem assessments to CEPA.</p>	<p>Baseline Study Report on culturally significant species.</p> <p>Updated PNG IUCN Red List of Threatened Species.</p> <p>Number of Species Management Plans for selected culturally important species.</p> <p>Manual of Species and Ecosystem Assessment Standards</p> <p>Report on Species and Ecosystem Assessments</p>	<p>CEPA UNDP, GEF5, JICA, KI, USAID</p> <p>PA Management CEPA, UNDP, GEF5, JICA, KI, USAID, NGOs</p> <p>CEPA UNDP, GEF5, JICA, KI</p> <p>PA Management CEPA, LLGov/ProvGov GEF6</p> <p>PA Management CEPA, LLGov/Prov Gov GEF6</p>
<p><b>Strategy 1.2 - Effectively manage activities on Protected Areas including compatible development, recreation, research and traditional use</b></p>			
<p>1.2.1 Participatory Land use/Zone and seascape planning guidelines for Terrestrial/Marine Protected Areas is established by 2020</p>	<p>1.2.1.1 Collate PA information on social mapping, traditional governance systems, high conservation value (HCV) IUCN category and culturally significant species and ecosystems.</p> <p>1.2.1.2 Land use and seascape lessons learnt recorded.</p> <p>1.2.1.3 Develop participatory Land use/Zone (Ecosystem) and seascape planning guidelines for Terrestrial/ Marine Protected Areas.</p> <p>1.2.1.4 Register all PAN Land-use and Seascape Management Plans.</p>	<p>Inventory of all Protected Area Network</p> <p>PA Land-use Plans (YUS, Torcelli, Managalas, Sogeri Plateau, IPZ) collated.</p> <p>Guidelines endorsed and adopted by NEC and gazette.</p> <p>Registered Land use Management Plans</p>	<p>CEPA, UNDP, GEF5, JICA, NGOs/ CBOs, Resource Sectors/ Development Partners, Academic Institutions, Dept. of Lands, LLGov</p> <p>CEPA, UNDP, GEF4, GEF5, JICA, KI, NGOs/ CBOs, Resource Sectors/Development Partners/Academic Institutions, Dept. of Lands &amp; Physical Planning</p> <p>CEPA, UNDP, GEF4, GEF5, JICA, KI, NGOs/ CBOs, Resource Sectors/Development Partners, Academic Institutions, Dept. of Lands &amp; Physical Planning</p> <p>CEPA, LLG, Provincial Govts, UNDP, GEF4, GEF5, JICA, KI</p>

**Goal No. 2: Effective and adaptive Biodiversity Management that supports the network and ensures that the values of the Protected Areas are maintained to the highest possible extent *Continued...***

Targets	Actions to be taken	Measurable indicators	Responsible / Support organization
<b>Strategy 1.3 - Strengthen the monitoring and evaluation process for effective biodiversity management for each PA.</b>			
1.3.1 Monitoring and evaluation process strengthened by 2018.	1.3.1.1 Conduct 4 Regional Workshops 1.3.1.2 Finalize the M & E process.	Number of regional workshops conducted; Workshop Reports; Number of participants  M&E process finalized; Final Reports	CEPA UNDP, JICA, NGOs
1.3.2 Manual on the Protected Area Management effectiveness is developed by 2018	1.3.2.1 Develop Manual 1.3.2.2 Conduct working sessions to develop and workshop the Manual 1.3.2.3 Consolidate feedback and finalize Manual 1.3.2.4 Finalise Manual and draft NEC Submission 1.3.2.5 Submit Manual to the PA Board for its endorsement 1.3.2.6 Submit the NEC Submission	Draft Manual  Refined Manual from consultative working sessions.  Finalized version of Manual  Level of documents' preparations for NEC  Manual endorsed by PA Board  Manual endorsed by NEC & gazetted	CEPA, UNDP, JICA, GEF5, NGOs/ CBOs/ Resource Sectors/ Development Partners/ Academic Institutions/ Government Departments/Agencies at various levels of government  CEPA
1.3.3 Current protected areas in PNG are evaluated by 2018 (GEF4)	1.3.3.1 Recruit competent personnel 1.3.3.2 Conduct assessment of PAs Management and funding capacity and report findings to CEPA	Competent personnel recruited  Assessment conducted; Assessment Report	CEPA GEF4, UNDP, JICA, NGOs SPREP
<b>Objective 2 - To ensure that the values of the protected areas are maintained to the highest possible extent</b>			
<b>Strategy 2.1 - Encourage and support resource mobilization including human resource capacity building, finance, etc. and align on-going initiatives of Protected Area Management.</b>			
2.1.1 Current Protected Areas resource requirements systematically documented through CEPAs Resource Mobilization Strategy by 2023.	2.1.1.1 Conduct 4 regional workshops to get inputs into the Mobilization Strategy 2.1.1.2 Finalise the Mobilization Strategy	Number of workshops conducted; Number of participants; Level of constructive inputs to the strategy  Mobilization strategy finalized and endorsed	CEPA UNDP, JICA, NGOs, CBOs, Private Sector, Academia, Govt Agencies
2.1.2 Improve capacity of CEPA by 2023	2.1.2.1 Conduct Assessment of Capacity for CEPA	Assessment Report & Recommendations	CEPA/UNDP/JICA/ NGOs/ CBOs/Private sectors/ Academia/ Govt Agencies;

2.1.3 Improve capacity for Provincial Administrations, DDAs and LLGs by 2023.	2.1.3.1 Conduct assessment in 5 Provinces (PA, DDAs & LLGs) for targeted PAs	Assessment Report & Recommendations	Hela, Simbu, SHP, EHP, IBR, WCS, RCF, UoG, National Research and Academic Institutions
2.1.4 Improve capacity of national research and academic institutions by 2023.	2.1.4.1 Conduct assessment of national research and academic institutions	Assessment Report & Recommendations	
<b>Strategy 2.2 - Promote merit-based Staff recruitment and training workshops</b>			
2.2.1 A 5 year training plan for Protected Area Network (CEPA, 5 Provincial Administrations, DDAs, LLGs, National Research and Academic Institutions) developed by 2018	2.2.1.1 Conduct National Training Needs Assessment (TNA) for PAN	National Training Needs Assessment Report	CEPA
	2.2.1.2 Prioritize training needs	PAN Training Plan and Manual	UNDP, JICA/NGOs/CBOs/Private sectors/Academic institutions
	2.2.1.3 Solicit and secure funding for training and capacity building	Funding secured for training	Hela, Chimbu, SHP, EHP, IBR, WCS, RCF, UoG
	2.2.1.4 Identify and engage competent training providers to conduct competency based training for selected staff as per the NTNA	Number of training institutions/providers identified and engaged; Level of competency based training provided	National Research and Academic Institutions
	2.2.1.5 Conduct training for selected staff	Number of competency based trainings conducted	
<b>Strategy 2.3 - Encourage and promote a nation-wide Protected Area Workforce Community guided by a common work place culture and values</b>			
2.3.1 Workplace Code of Ethics and Principles developed by 2022	2.3.1.1 Conduct 3 in-house workshops to develop the Code of Ethics and Principles	Number of in-house workshops conducted; Level of participation of staff members	CEPA UNDP/JICA/NGO/Provincial Administrations/DDAs/LLGs/NAQIA/DAL/Customs/PNGFA/MRAV
	2.3.1.2 Finalize the document and submit to the PAN Board for approval	Approved Document; Approved Code of Ethics and Principles; Workplace Code of Ethics is upheld	Provincial Tourism Promotion Authority/ National Museum & Art Gallery/ Department of Community Development
	2.3.1.3 Implement the Workplace Code of Ethics and Principles	Number and types of penalties applicable to breach of the Workplace Code of Ethics and Principles	
2.3.2 Regulations on the appointment of Rangers for PAs developed and/or incorporated under the Protected Area Legislation by 2022	2.3.2.1 Amend Fauna & Protection Control Act and develop Regulations for consultation	Regulations developed	CEPA UNDP/JICA/NGO/GEF5, Provincial Administrations/DDAs/LLGs/NAQIA/DAL/Customs/PNGFA/MRA/State Solicitors Office/ Office of First Legislative Counsel/ PM&NEC/DPLGA
	2.3.2.2 Conduct consultative workshops and meetings on Amendments and Regulations	Number of workshops and meetings conducted; Level of response; Number of written responses	
	2.3.2.3 Incorporate inputs from workshops, meetings and formal letters of Act and Regulations	Revised Regulation containing comments and feedback	
	2.3.2.4 Submit Documents for PA Board endorsement on regulation	Endorsed Regulation	
	2.3.2.5 Prepare Submissions with relevant documents NEC and Parliament	Regulation endorsed by NEC & passed by Parliament; NEC Decision Number	

**Goal No. 2: Effective and adaptive Biodiversity Management that supports the network and ensures that the values of the Protected Areas are maintained to the highest possible extent *Continued...***

Targets	Actions to be taken	Measurable indicators	Responsible / Support organization
2.3.3 Wildlife Rangers recruited in all provinces by 2022	2.3.3.1 Call for Expression of Interest (Eoi) & select successful applicants	Number of Successful applicants gazetted	CEPA, GEF5, GEF6, PA, DDA, LLGs & other agencies including NAQIA, DAL, Customs, PNGFA, MRA
<b>Strategy 2.4 - Establish adaptive management systems which incorporate a good and shared understanding of natural and cultural values of Protected Areas</b>			
2.4.1 A systematic integrated information system linking Protected Areas register developed by 2022	2.4.1.1 Develop an inventory for PAN 2.4.1.2 Contract a systems developer to create a PAN database 2.4.1.3 Submit a project proposal for developing PAN Inventory system	PAN inventory developed A systems developer engaged; TOR for PAN system developed Project proposal; Number of potential sponsors	CEPA, GEF5, GEF6, PA, DDA, LLGs & other agencies including NAQIA, DAL, Customs, PNGFA, MRA, Departments of National Planning and Treasury
	2.4.1.4 Secure funding and commence work on developing the PAN Inventory system	Level of funding secured; Number of sponsors	
	2.4.1.5 Update the PAN Inventory system on a regular basis	PAN Inventory system updated on a regular basis	
<b>Strategy 2.5 - Develop a robust information base to guide decision-making including a National Protected Areas and Proposals Database and a Reporting System</b>			
2.5.1 A historical information management system developed for improved decision making by 2018	2.5.1.1 Develop an inventory for PAN 2.5.1.2 Contract a systems developer to create a PAN database 2.5.1.3 Develop a project proposal for developing PAN Inventory system	PAN historical information system A systems developer engaged; TOR for PAN Systems Developed Project Proposal	CEPA UNDP/JICA/NGO/GEF4/ EMIS; National Research and Academic Institutions/ Provincial Administrations
2.5.2 A Dedicated documentation on traditional knowledge commenced by 2018	2.5.1.4 Secure funding and commence work on developing the PAN Inventory system 2.5.1.5 Update the PAN inventory system on a regular basis 2.5.2.1 Develop an Inventory for existing and proposed traditional knowledge of PAN 2.5.2.2 Develop Registry of all PAN Management Plans	Funding secured and accessed Up-to-date PAN Inventory Inventory of traditional knowledge of PAN Registry of Management Plans	CEPA UNDP/JICA/NGO/CBOs/ Academic Institution/National Museum & Art Gallery
2.5.3 Conservation Priorities Map and information of PNG developed by 2018	2.5.2.3 Conduct traditional knowledge documentations for 2 PAN pilot sites 2.5.3.1 Conduct Analysis & identification of Priority Biodiversity Areas in PNG	Number of Documentations for PAN pilot sites Maps & Reports finalized and endorsed by NEC / Parliament	CEPA UNDP PoW/PA

2.5.4 Biodiversity (species & ecosystems) Management System developed by 2018	2.5.4.1 Develop database, identify & access biodiversity data from institutions in PNG & overseas	Database developed and utilized; MOU on access to Biodiversity data from national and international institutions.	CEPA UNDP/JICA/NGO/ CBOs/ Academic Institution/National Museum & Art Gallery
2.5.5 Register of existing and potential or /proposed Protected Areas developed by 2019	2.5.5.1 Develop an appropriate database for protected areas	PA Register of Protected Areas	
<b>Strategy 2.6 - Promote planning as a process of adaptive management and an opportunity for building shared understanding</b>			
2.6.1 All Protected Areas have Management Plans developed and operationalised by 2023	2.6.1.1 Develop PA Management Plans for all gazetted PAs	Number of PAs with Management Plans	CEPA UNDP/JICA/NGO/CBOs
2.6.2 Management Advisory Group (MAG) established and functioning by 2018	2.6.2.1 Develop Regulation under the Protected Area Legislation on the establishment of MAG	Regulation endorsed by NEC & Parliament	CEPA UNDP/JICA/NGO/CBO/ Academic Institutions/ Office of State Solicitor/Office of First Legislative Counsel/ PM&NEC
2.6.3 Roles and responsibilities including membership of both the PAN Board and the MAG clearly defined by 2018.	2.6.3.1 Develop Handbook on Roles and Responsibilities of MAG and PAN Board.	Handbook on Roles and Responsibilities of MAG and PAN Board	
	2.6.3.2 CEPA to nominate relevant Agencies to be members of the MAG	Number of relevant Agencies on MAG	
	2.6.3.3 Develop TOR for the MAG	TOR developed and finalized	
	2.6.2.4 Submit nominated candidates to the PAN Board for approval	Number of nominees endorsed by the Minister as members of the MAG; PAN Board Decision giving approval for membership to the MAG	
2.6.4 Business Plans emanating from five (5) Protected Area Management Plans by 2018	2.6.4.1 Contract a competent Business Development Consultant to lead in PA Management Business Plan development	PA Business development consultant engaged with clear TOR	CEPA UNDP/JICA/NGOs/ CBOs/ Private Sectors/ Academic Institutions
	2.6.4.2 Conduct 4 regional workshops on PA Management Business Plan development	Number of Regional workshops conducted; Number of participants	
	2.6.4.3 Submit Business Plan to the PAN Board for approval	PAN Board Decision giving approval for the Business Plan	
2.6.5 Fifteen to twenty (15 to 20) guidelines developed to guide sustainable use of resources by 2020	2.6.5.1 Contract a competent Consultant to lead in developing Guidelines for sustainable use of resources in PAs.	Competent Consultant engaged with clear TOR.	CEPA UNDP/JICA/NGOs/ CBOs/ Private Sectors/ Academic Institutions
	2.6.5.2 Conduct 4 Regional Workshops on Guidelines for sustainable use of resources in PAs.	Number of Regional Workshops conducted.	
	2.6.5.3 Develop and finalize the Guidelines	Number of participants.	
	2.6.5.4 Submit Guidelines for approval by PAN Board.	Number of Guidelines finalized.	

**Goal No. 2: Effective and adaptive Biodiversity Management that supports the network and ensures that the values of the Protected Areas are maintained to the highest possible extent *Continued...***

Targets	Actions to be taken	Measurable indicators	Responsible / Support organization
<b>Strategy 2.7 - Promote creations of zones and Protected Areas in a unified manner</b>			
2.7.1 Ten to twenty-five (10 to 25) zones and Protected Areas created in five (5) locations being guided by Management Planning Guidelines by 2020	2.7.1.1 Facilitate creation of zones and PAs in five (5) locations being guided by PA Management Planning Guidelines.	Number of zones and PAs created.	CEPA UNDP/JICA/NGOs/ CBOs
	2.7.1.2 Develop an Inventory of all PAN - both gazetted and proposed.	Inventory of all PAN – both gazetted and proposed.	
	2.7.1.3 Develop Registry of all PAN Management Plans	Registry of all PAN Management Plans.	
<b>Strategy 2.8 - Maintain and protect cultural values, natural landscapes and seascapes of PAs</b>			
2.8.1 Twenty percent (20%) of Protected Areas boosted against effects of climate change and population growth by 2020	2.8.1.1 Facilitate identification and documentation of the effects of climate change and population growth on PAs - landscapes and seascapes.	Report on the effects of climate change and population growth on PAs - landscapes and seascapes.	CEPA/UNDP/JICA/ CCDA/DDAs/LLGs/ NGOs/CBOs
	2.8.1.2 Facilitate development of a practical Mitigation Plan outlining measure of intervention.	Mitigation Plan	
2.8.2 Level of community resilience during natural and man-made disasters	2.8.2.1 Identify which communities are at most risk	Number of communities identified	CEPA/UNDP/JICA/ CCDA/DDAs/LLGs/ NGOs/CBOs
	2.8.2.2 Introduce appropriate mitigation measures to community members	Number and type of mitigation measures applied by number of communities	
<b>Strategy 2.9 - Encourage and maintain an Asset Management System for the Protected Areas</b>			
2.9.1 Establish Asset Management Systems for five (5) Protected Areas by 2020	2.9.1.1 Contract competent Asset Management System Specialist.	Competent Consultant engaged with clear TOR.	CEPA UNDP/JICA/NGOs/ CBOs/Private Sectors/ Academic Institutions
	2.9.1.2 Design PA's Asset Management System.	Asset Management System approved and operational.	
2.9.2 Establish working status/condition of plant/equipment and facilities in five (5) Protected Areas by 2020.	2.9.2.1 Conduct assessment of PAN assets and develop Asset Inventory.	PAN Assets Assessment Report and Recommendations.	CEPA UNDP/JICA/NGOs/ CBOs/Private sector/ Communities
	2.9.2.2 Facilitate development of PAN Assets.	Asset Inventory	

# IMPLEMENTATION SCHEDULE

**Goal No. 3:** Effective and adaptive Biodiversity Management that supports the network and ensures that the values of the Protected Areas are maintained to the highest possible extent.

**Program:** Effective and Adaptive Biodiversity Management

**Strategies:**

1. Develop and implement Policies for biodiversity management planning, monitoring and reporting
2. Effectively manage activities on Protected Areas including compatible development, recreation, research and traditional use
3. Strengthen the monitoring and evaluation process for effective biodiversity management for each PA
4. Encourage and support resource mobilization including human resource capacity building, finance, etc. and align on-going initiatives of Protected Area Management
5. Promote merit-based Staff recruitment and training workshops
6. Encourage and promote a nation-wide Protected Area Workforce Community guided by a common work place culture and values
7. Establish adaptive management systems which incorporate a good and shared understanding of natural and cultural values of Protected Areas
8. Develop a robust information base to guide decision-making including a National Protected Areas and Proposals Database and a Reporting System
9. Promote planning as a process of adaptive management and an opportunity for building shared understanding
10. Promote creations of zones and Protected Areas in a unified manner
11. Maintain and protect cultural values, natural landscapes and seascapes of PAs
12. Encourage and maintain an asset management system for the Protected Areas

Project/Activities	2018			2019			2020			2021			2022			2023			2024			2025			2026-2028	Cost K'000	Funding Source	Action	Output Indicator			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4								
<b>1. Develop and implement Policies for biodiversity management planning, monitoring and reporting</b>																																
1.1.1.1 Conduct management effectiveness assessment of PAs as required.																													150	CEPA Operation/Capital Budgets; Donors	CEPA UNDP, GEF4, GEF5, JICA PA Management	All PAs METT scores PA Annual Report
1.1.1.2 Monitor and report on the National Biodiversity Strategic Action Plan, in line with CBD reporting requirements and timeframe.																													800	Same as above	CEPA	Monitoring Reports
1.1.1.3 Produce and submit National Reports to relevant MEAs/Regional & Bilateral (International Conventions and other obligations (CBD, CITES, RAMSAR), others as required.																													200	Same as above	Same as above	National Reports

Goal No. 3: Effective and adaptive Biodiversity Management that supports the network and ensures that the values of the Protected Areas are maintained to the highest possible extent. *Continued...*

Project/Activities	2018			2019			2020			2021			2022			2023			2024			2025			2026-2028	Cost K'000	Funding Source	Action	Output Indicator
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4					
1.1.1.4 Update RAMSAR information sheets																									130	Same as above	Updated RAMSAR Information Sheet		
1.1.1.5 Produce and submit the National Report on the Cartagena Protocol (Bio-safety).																									200	Same as above	National Report		
1.1.1.6 Conduct Regional Workshops to consult with PAs/CCA Communities on species to be protected.																									700	CEPA Operation/Capital Budgets; Donors	Workshop Report; Number and Type of Species and habitat protected within each PAs/CCA within Management Plan.		
1.1.1.7 Compile data from other stakeholders on different species.																									100	Same as above	Target Conserved Species within database.		
1.1.1.8 Finalize and submit the guidelines for NEC endorsement.																									100	CEPA UNDP/GEF5/JICA, KI NGOs; Other Govt Agencies PA Board	Guidelines finalized, submitted, endorsed and adopted by NEC; Guidelines gazetted; Guidelines adopted by the PA Board		
1.1.1.9 Conduct baseline study to find out what are culturally significant species																									300	CEPA Operation/Capital Budgets; Donors	Baseline Study; Report on culturally significant species.		
1.1.1.10 Collate and update as relevant PNG important species including endemics, IUCN Red List of Threatened Species.																									100	Same as above	Updated PNG IUCN Red List of Threatened Species		
1.1.1.11 Formulate Species Management Plans for selected culturally important species and species on the CITES																									80	Same as above	Number of Species Management Plans for selected culturally important species.		



1.1.1.12 Develop Species and Ecosystem Assessment Standards	200	Same as above	PA Management CEPA, LLGov/ ProvGov GEF6	Manual of Species and Ecosystem Assessment Standards
1.1.1.13 Produce Report on species and ecosystem assessments to CEPA	200	Same as above	PA Management ; CEPA, LL Govts/Prov Govts GEF6	Report on Species and Ecosystem Assessments
Sub Total: 3,260				
<b>2. Effectively manage activities on Protected Areas including compatible development, recreation, research and traditional use</b>				
2.1.1 Collate PA information on social mapping, traditional governance systems, high conservation value (HCV) IUCN category and culturally significant species and ecosystems	80	CEPA Operation/Capital Budgets; Donors	CEPA UNDP/JICA/ NGOs/ CBOs/ Resource Sectors	Inventory of all Protected Area Network
2.1.2 Land use and seascape lessons learnt recorded	300	Same as above	CEPA UNDP, GEF4, GEF5, JICA, KI, NGOs/ CBOs, Resource Sectors/Devel- opment	PA Land-use Plans  (YUS, Torcelli, Managalas, Sogeri Plateau, IPZ)  collated
2.1.3 Develop participatory Land use/Zone (Ecosystem) and seascape planning guidelines for Terrestrial/ Marine Protected Areas	500	Same as above	Partners Academic Institutions, Dept. of Lands & Physical Planning	Guidelines endorsed and adopted by NEC & gazetted
2.1.4 Register all PAN Land-use and Seascape Management Plans	200	Same as above	CEPA LLG, Provincial Govts UNDP, GEF4, GEF5, JICA, KI	Registered Land use management plans
Sub Total: 1,080				
<b>3. Strengthen the monitoring and evaluation process for effective biodiversity management for each PA</b>				
3.1.1 Conduct 4 regional workshops	320	CEPA Operation/Capital Budgets; Donors	CEPA UNDP, JICA, NGOs	Number of regional workshops conducted; Workshop Reports; Number of participants;

Goal No. 3: Effective and adaptive Biodiversity Management that supports the network and ensures that the values of the Protected Areas are maintained to the highest possible extent. *Continued...*

Project/Activities	2018		2019		2020		2021		2022		2023		2024		2025		2026-2028	Cost K'000	Funding Source	Action	Output Indicator									
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4														
3.1.2 Finalize the M & E process																		100	Same as above	Same as above	M&E process finalized; Finalised Reports									
3.1.3 Develop Manual																		30	Same as above	CEPA UNDP/JICA/NGOs/	Draft Manual									
3.1.4 Conduct working sessions to develop and workshop the Manual																		50	Same as above	CBOs/Re-source Sec-tors/ Develop-ment partners/ Academic	Refined Manual from consultative working sessions									
3.1.5 Consolidate feedback and finalise Manual																		5	Same as above	Institutions/ Government departments/ agencies at various levels of government	Finalised version of Manual									
3.1.6 Finalise Manual and draft NEC Submission																		10	Same as above		Level of docu-ments' prepara-tions for NEC									
3.1.7 Submit Manual to the PA Board for its endorse-ment																		20	Same as above	CEPA UNDP, JICA, NGOs	Manual endorsed by PA Board									
3.1.8 Submit the NEC Sub-mission																		10	Same as above		Manual endorsed by NEC & gazetted									
3.1.9 Recruit competent personnel																		200	Same as above		Competent per-sonnel recruited									
3.1.10 Conduct assessment of PAs Management and report funding capacity and report findings to CEPA																		30	Same as above		Assessment con-ducted; Assessment Report									
<b>Sub Total:</b>																		<b>775</b>												
4. Encourage and support resource mobilization including human resource capacity building, finance, etc. and align on-going initiatives of Protected Area Management																														
4.1.1 Conduct 4 regional workshops to get inputs into the Mobilization strategy																			320	CEPA Oper-ation/Capital Budgets; Donors	CEPA UNDP, JICA, NGOs, CBOs, Private Sec-tors, Academia, Govt	Number of w/ shops conducted; Number of partic-ipants; Level of construc-tive inputs to the strategy								
4.1.2 Finalise the Mobiliza-tion strategy																			100	Same as above	Agencies	Final and endorsed Mobilization strategy								

4.1.3 Conduct Assessment of Capacity for CEPA	20	Same as above	CEPA UNDP, JICA/ NGOs/CBOs/ Private sec- tors/Academia/ Govt Agencies/ Hela/ Simbu /SHP/ EHP/ WCS, RCF, UoG/IBR/ National Research and Academic Institutions	Assessment Reports completed and presented to relevant author- ities; Recommendations in the Assessment Reports imple- mented Assessment Report and Recommen- dations
4.1.4 Conduct assessment in 5 Provinces (PA, DDAs & LLGs) for targeted PAS	500	Same as above		
4.1.5 Conduct assessment of national research and academic institutions	50	Same as above	Same as above	Assessment Report and Recommen- dations
Sub Total: 990				
<b>5. Promote merit-based Staff recruitment and training workshops</b>				
5.1.1 Conduct National Training Needs Assessment (TNA) for PAN	200	CEPA Oper- ational/Cap- ital Budgets; Donors;	CEPA UNDP, JICA/ NGOs/CBOs/ Private sec- tors/Academia/ Govt Agencies/ Hela/ Simbu /SHP/ EHP/ WCS, RCF, UoG/IBR/ National Research and Academic Institutions	National Training Needs Assessment Report PAN Training Plan and Manuel
5.1.2 Prioritize training needs	50	Provincial coun- terparts; Research Institu- ions'contri- butions		
5.1.3 Solicit and secure fund- ing for training and capacity building	10	Same as above	Same as above	Funding secured for training
5.1.4 Identify and engage competent training provid- ers to conduct competency based training for selected staff as per the NTNA	20	Same as above	Same as above	Number of provid- ers identified and engaged Level of competency based training provided
5.1.5 Conduct training for selected staff	150	Same as above	Same as above	Number of compe- tency based train- ings conducted
Sub Total: 430				

Goal No. 3: Effective and adaptive Biodiversity Management that supports the network and ensures that the values of the Protected Areas are maintained to the highest possible extent. *Continued...*

Project/Activities	2018		2019		2020		2021		2022		2023		2024		2025		2026-2028		Cost K'000	Funding Source	Action	Output Indicator
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2				
6. Encourage and promote a nation-wide Protected Area Workforce Community guided by a common work place culture and values																						
6.1.1 Conduct 3 in-house workshops to develop the Code of Ethics and Principles																			25	CEPA Operational/Capital Budgets; Donors	CEPA UNDP/JICA/ NGO/Provincial Administrations/DDAS/LLGs/DAL NAQIA/	Number of in-house workshops conducted; Level of participation of staff members
6.1.2 Finalize the document and submit to the PAN Board for approval																			50	Same as above	Customs/ PNGFA/ MRA/ Prov Tourism Authority/ National Museum & Art Gallery/ Dept of Community Development	Approved Document; Approved Code of Ethics and Principles; Workplace Code of Ethics is upheld
6.1.3 Implement the Workplace Code of Ethics and Principles																			0.0		Same as above	Number and types of penalties applicable to breach of the Workplace Code of Ethics and Principles
6.1.4 Amend Fauna & Protection Control Act and develop Regulations for consultation																			100	CEPA Operational/Capital Budgets; Donors	CEPA UNDP/JICA/ NGO/	Regulations developed
6.1.5 Conduct consultative workshops and meetings on Amendments and Regulations																			150	Same as above	Provincial Administrations/DDAS/LLGs/ NAQIA/DAL/ Customs/ PNGFA/MRA/ State Solicitors Office/	Number of workshops and meetings conducted; Level of response; Number of written responses
6.1.6 Incorporate inputs from workshops, meetings and formal letters of Act and Regulations																			0.0	Same as above	Office of First Legislative Counsel/ PM&NEC/ DPLGA	Revised Regulation containing comments and feedback

6.1.7 Submit documents for PA Board endorsement on Regulation																				50	Same as above	Same as above	Regulation endorsed by PA Board			
6.1.8 Prepare Submissions with relevant documents for NEC and Parliament																				0.0	Same as above	Same as above	Regulation endorsed by NEC & passed by Parliament; NEC Decision Number			
6.1.9 Call for Expression of Interest (Eoi) & select successful applicants																				20	Same as above	CEPA, PA, DDA, LLGs & other agencies including NAQIA, DAL, Customs, PNGFA, MRA	Number of Successful applicants gazetted			
Sub Total: 395																										
7. Establish adaptive management systems which incorporate a good and shared understanding of natural and cultural values of Protected Areas																										
7.1.1 Develop an inventory for PAN																							70	CEPA Operational/Capital Budgets; Donors; Provincial Government; National Planning and Treasury	PAN inventory developed	
7.1.2 Contract a systems developer to create a PAN database																							250	Academic Institution Departments of National Planning and Treasury	A systems developer engaged; TOR for PAN system developer	
7.1.3 Submit a project proposal for developing PAN Inventory system																							30	Research Institutions' contributions	Project proposal; Number of potential sponsors	
7.1.4 Secure funding and commence work on developing the PAN Inventory system																							0.0	Same as above	Level of funding secured;	
7.1.5 Update the PAN Inventory system on a regular basis																							100	CEPA Operational and Capital Budgets; Donors	Number sponsors PAN Inventory system updated on a regular basis	
Sub Total: 450																										
8. Develop a robust information base to guide decision-making including a National Protected Areas and Proposals Database and a Reporting System																										
8.1.1 Develop an inventory for PAN																								50	CEPA Operational/Capital Budgets; Donors	PAN historical information system

Goal No. 3: Effective and adaptive Biodiversity Management that supports the network and ensures that the values of the Protected Areas are maintained to the highest possible extent. *Continued...*

Project/Activities	2018			2019			2020			2021			2022			2023			2024			2025			2026-2028			Cost K'000	Funding Source	Action	Output Indicator
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3				
8.1.2 Contract a systems developer to create a PAN database																											250	Donors; Research Institutions; Provincial Govts	National Research and Academic Institutions/ Provincial Administration	A systems developer engaged; TOR for PAN Systems Developer	
8.1.3 Develop a project proposal for developing PAN Inventory system																											30	Same as above		Project Proposal	
8.1.4 Secure funding and commence work on developing the PAN Inventory system																											0.0		Same as above	Funding secured and accessed	
8.1.5 Update the PAN Inventory system on a regular basis																											100	Same as above	Same as above	Up-to-date PAN Inventory system	
8.1.6 Develop an Inventory for existing and proposed traditional knowledge of PAN																											70	Same as above	CEPA, UNDP/ JICA/NGO/ CBOs/Academic Institution	Inventory of traditional knowledge of PAN	
8.1.7 Develop Registry of all PAN Management Plans																											10	Same as above	Same as above	Registry of Management Plans	
8.1.8 Conduct traditional knowledge documentations for 2 PAN pilot sites																											100	Same as above	Same as above	Number of Documentations for PAN pilot sites	
8.1.9 Conduct Analysis & identification of Priority Biodiversity Areas in PNG																											300	Same as above	Same as above	Map & Report finalized & endorsed by NEC / Parliament	
8.1.10 Develop database, Identify & access biodiversity data from institutions in PNG & overseas																											100	Same as above	Same as above	Database developed and utilized; MOU on access to Biodiversity data from national and international institutions	
8.1.11 Develop an appropriate database for protected areas																												50	Same as above	Same as above	PA Register of Protected Areas
Sub Total:																							1,060								

9. Promote planning as a process of adaptive management and an opportunity for building shared understanding

9.1.1 Develop PA Management Plans for all gazetted PAS	500	CEPA Operational and Capital	CEPA UNDP/JICA/ NGO/ CBOs	Number of PAS with Management Plans
9.1.2 Develop Regulation under the Protected Area Legislation on the establishment of MAG	50	Budgets; Donors	State Solicitor/ Office of First Legislative Counsel/ PM&NEC	Regulation endorsed by NEC & Parliament
9.1.3 Develop Handbook on Roles and Responsibilities of MAG and PAN Board	30	Same as above	Same as above	Handbook on Roles and Responsibilities of MAG and PAN Board
9.1.4 CEPA to nominate respective agencies to be members of the MAG	0.0		Same as above	Number of relevant agencies on MAG
9.1.5 Develop TOR for the MAG	0.0		Same as above	TOR developed and finalized
9.1.6 Submit nominated candidates to the PAN Board for approval	50	CEPA Operational and Capital Budgets; Donors	Same as above	Number of nominees endorsed by the Minister as members of the MAG PAN Board Decision giving approval for membership to the MAG
9.1.7 Contract a Business Development Consultant to lead in PA Management Business Plan development	150	Same as above	CEPA UNDP/JICA/ NGOs/CBOs/ Private Sectors/ Academic Institutions	PA Business development consultant engaged with clear TOR
9.1.8 Conduct 4 regional workshops on PA Management Business Plan development	320	Same as above	Same as above	Number of Regional workshops conducted; Number of participants
9.1.9 Submit business plan to the PAN Board for approval	20	Same as above	Same as above	PAN Board Decision giving approval for the Business Plan

Goal No. 3: Effective and adaptive Biodiversity Management that supports the network and ensures that the values of the Protected Areas are maintained to the highest possible extent. *Continued...*

Project/Activities	2018				2019				2020				2021				2022				2023				2024				2025				2026-2028				Cost K'000	Funding Source	Action	Output Indicator
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
9.1.10 Contract a competent Consultant to lead in developing Guidelines for sustainable use of resources in PAs																																			150	Same as above	Same as above	Competent Consultant engaged with clear TOR		
9.1.11 Conduct 4 regional workshops on sustainable use of resources in PAs																																			320	Same as above	Same as above	Number of regional workshops conducted; Number of participants		
9.1.12 Develop and finalize the guidelines																																			100	Same as above	Same as above	Number of guidelines finalised		
9.1.13 Submit guidelines for approval																																			20	Same as above	Same as above	Guidelines approved and disseminated for usage		
Sub Total: 1,710																																								
10. Promote creations of zones and Protected Areas in a unified manner																																								
10.1.1 Facilitate creation of zones and PAs in five (5) locations being guided by PA Management Planning Guidelines.																																			250	CEPA; UNDP/JICA/ NGOs CBOs	CEPA; UNDP/JICA/ NGOs CBOs	Number of zones and PAs created		
10.1.2 Develop an Inventory of all PAN - both gazetted and proposed																																			15	CEPA UNDP/JICA/ NGOs/CBOs	CEPA UNDP/JICA/ NGOs/CBOs	Inventory of all PAN - both gazetted and proposed		
10.1.3 Develop Registry of all PAN Management Plans																																			15	Same as above	Same as above	Registry of all PAN Management Plans		
Sub Total: 280																																								
11. Maintain cultural values, natural landscapes and seascapes																																								
11.1.1 Facilitate identification and documentation of the effects of climate change and population growth on PAs - landscapes and seascapes.																																			10	CEPA Operational and Capital Budgets; Donors; Provincial Gov'ts	CEPA/UNDP/ JICA/CCDA/ DDAs/LLGs/ NGOs/CBOs	Report on the effects of climate change and population growth on PAs - landscapes and seascapes.		



11.1.2 Facilitate development of a practical Mitigation Plan outlining measure of intervention.	50	Same as above	Same as above	Mitigation Plan
11.1.3 Identify which communities are at most risk	100	Same as above	Same as above	Number of communities identified
11.1.4 Introduce appropriate mitigation measures to community members	300	Same as above	Same as above	Number of mitigation measures applied by number of community members
Sub Total:				460
12. Encourage and maintain an asset management system for the Protected Areas				
12.1.1 Contract competent Asset Management System Specialist.	100	CEPA Operational and Capital Budgets;	CEPA UNDP/JICA/NGOs/CBOs/Private Sec-tors/	Competent Consultant engaged with clear TOR.
12.1.2 PA's Asset Management System.	200	Donors; Provincial Gov'ts	Academic Institutions	Asset Management System approved and operational
12.1.1 Conduct assessment of PAN assets and develop Asset Inventory	40	Same as above		PAN Assets Assessment Report and Recommendations.
12.1.2 Facilitate development of PAN Assets.	300	Same as above		Asset Inventory
Sub Total:				640
Grand Total:				1,530

# MONITORING AND EVALUATION FRAMEWORK

**Goal No. 3:** Effective and adaptive Biodiversity Management that supports the network and ensures that the values of the Protected Areas are maintained to the highest possible extent

**Program:** Effective and Adaptive Biodiversity Management

**Objectives:**

1. To ensure effective and adaptive biodiversity management supports the Protected Area Network
2. To ensure that the values of the protected areas are maintained to the highest possible extent

Projects/Activities	Targets	Time Frame	Appropriation K000	Expenditure to Date	Current Status	Comments/Recommendations
1.1.1.1 Conduct management effectiveness assessment of PAs as required.	1.1.1 Regular monitoring and reporting Biodiversity of Conservation activities of all PAs by 2020	2018-2020				
1.1.1.2 Monitor and report on the National Biodiversity Strategic Action Plan, in line with CBD reporting requirements and timeframe		2018-2020				
1.1.1.3 Produce and submit National Reports to relevant MEAs/Regional & Bilateral (International Conventions and other obligations (CBD, CITES, RAMSAR), others as required.		2018-2020				
1.1.1.4 Update RAMSAR information sheets		2018-2020				
1.1.1.5 Produce and submit the National Report on the Cartagena Protocol (Biosafety).		2018-2020				
		Sub-Total:				
1.1.2.1 Conduct Regional Workshops to consult with PAs/CCA Communities on species to be protected.	1.1.2 Biodiversity Conservation planning and monitoring Guidelines are established by 2020	2018-2020				
1.1.2.2 Compile data from other stakeholders on different species.	1.1.2 Biodiversity Conservation planning and monitoring Guidelines are established by 2020...	2018-2020				
1.1.2.3 Finalize and submit the guidelines for NEC endorsement.	continue.	2018-2020				
		Sub-Total:				
1.1.3.1 Conduct baseline study to find out what are culturally significant species	1.1.3 Species Management Plans developed for selected culturally important species (IUCN, CITES and PNG protected fauna) by 2023	2018-2023				
1.1.3.2 Collate and update as relevant PNG important species including endemics, IUCN Red List of Threatened Species		2018-2023				

1.1.3.3 Formulate Species Management Plans for selected culturally important species and species on the CITES					2018-2023	
1.1.3.4 Develop Species and Ecosystem Assessment Standards					2018-2023	
1.1.3.5 Produce Report on species and ecosystem assessments to CEPA					2018-2023	
Sub-Total:						
1.2.1.1 Collate PA information on social mapping, traditional governance systems, high conservation value (HCV) IUCN category and culturally significant species and ecosystems.	1.2.1 Participatory Land use/ Zone and seascape planning guidelines for Terrestrial/ Marine Protected Areas is established by 2020				2018-2020	
1.2.1.2 Land use and seascape lessons learnt recorded.					2018-2020	
1.2.1.3 Develop participatory Land use/ Zone (Ecosystem) and seascape planning guidelines for Terrestrial/ Marine Protected Areas.					2018-2020	
1.2.1.4 Register all PAN Land-use and Seascape Management Plans.					2018-2020	
Sub-Total:						
1.3.1.1 Conduct 4 regional workshops	1.3.1 Monitoring and evaluation process strengthened by 2018				2018	
1.3.1.2 Finalize the M & E process						
Sub-Total:						
1.3.2.1 Develop Manual	1.3.2 Manual on the Protected Area Management effectiveness is developed by 2018				2018	
1.3.2.2 Conduct working sessions to develop and workshop the Manual					2018	
1.3.2.3 Consolidate feedback and finalise Manual					2018	
1.3.2.4 Finalize Manual and draft NEC Submission					2018	
1.3.2.5 Submit Manual to the PA Board for its endorsement					2018	
1.3.2.6 Submit the NEC Submission					2018	
Sub-Total:						
1.3.3.1 Recruit competent personnel	1.3.3 Current Protected Areas in PNG are evaluated by 2018 (GEF4)				2018	
1.3.3.2 Conduct assessment of PAs Management and funding capacity and report findings to CEPA					2018	
Sub-Total:						

**Goal No. 3: Effective and adaptive Biodiversity Management that supports the network and ensures the values of the Protected Areas are maintained to the highest extent *Continued...***

Projects/ Activities	Targets	Time Frame	Appropriation K'000	Expenditure to Date	Current Status	Comments/Recommendations
2.1.1.1 Conduct 4 regional workshops to get inputs into the Mobilization strategy	2.1.1 Current Protected Areas resource requirements systematically documented through CEPAs Resource Mobilization Strategy by 2023	2018-2023				
2.1.1.2 Finalize the Mobilization strategy		2018-2023				
		Sub-Total:				
2.1.2.1 Conduct Assessment of Capacity for CEPA	2.1.2 Improve capacity of CEPA by 2023	2018-2023				
		Sub-Total:				
2.1.3.1 Conduct Assessment in 5 Provinces (PA, DDAs & LLGs), for targeted PAs	2.1.3 Improve capacity for Provincial Administrations, DDAs and LLGs by 2023	2018-2023				
		Sub-Total:				
2.1.4.1 Conduct assessment of national research and academic institutions	2.1.4 Improve capacity of national research and academic institutions by 2023.	2018-2023				
		Sub-Total:				
2.2.1.1 Conduct National Training Needs Assessment (f(TNA) for PAN	2.2.1 A 5 year training plan for Protected Area Network (CEPA, at least 5 Provincial Administrations, DDAs, LLGs), National Research and Academic Institutions developed by 2018	2018				
2.2.1.2 Prioritize training needs		2018				
2.2.1.3 Solicit and secure funding for training and capacity building		2018				
2.2.1.4 Identify and engage competent training providers to conduct competency based training for selected staff as per the NTNA		2018				
2.2.1.5 Conduct training for selected staff		2018				
		Sub-Total:				
2.3.1.1 Conduct 3 in-house workshops to develop the Code of Ethics and Principles	2.3.1 Workplace Code of Ethics and Principles developed by 2022	2018-2022				
2.3.1.2 Finalize the document and submit to the PAN Board for approval		2018-2022				
2.3.1.3 Implement the Workplace Code of Ethics and Principles		2018-2022				
		Sub-Total:				

2.3.2.1 Amend Fauna & Protection Control Act and develop Regulations for consultation	2.3.2 Regulations on the appointment of Rangers for PAs developed and/or incorporated under the Protected Area Legislation by 2022	2018-2022				
2.3.2.2 Conduct consultative workshops and meetings on Amendments and Regulations		2018-2022				
2.3.2.3 Incorporate inputs from workshops, meetings and formal letters of Act and Regulations		2018-2022				
2.3.2.4 Submit documents for PA Board endorsement on Regulation		2018-2022				
2.3.2.5 Prepare Submissions with relevant documents for NEC and Parliament		2018-2022				
Sub-Total:						
2.3.3.1 Call for Expression of Interest (Eoi) & select successful applicants	2.3.3 Wildlife Rangers recruited in all provinces by 2022	2018-2022				
Sub-Total:						
2.4.1.1 Develop an inventory for PAN	2.4.1 A systematic integrated information system linking Protected Areas Register developed by 2022	2018-2022				
2.4.1.2 Contract a systems developer to create a PAN database		2018-2022				
2.4.1.3 Submit a project proposal for developing PAN Inventory system		2018-2022				
2.4.1.4 Secure funding and commence work on developing the PAN Inventory system		2018-2022				
2.4.1.5 Update the PAN Inventory system on a regular basis		2018-2022				
Sub-Total:						
2.5.1.1 Develop an inventory for PAN	2.5.1 A historical information management system developed for improved decision making by 2018	2018				
2.5.1.2 Contract a systems developer to create a PAN database		2018				
2.5.1.3 Develop a project proposal for developing PAN Inventory system		2018				
2.5.1.4 Secure funding and commence work on developing the PAN Inventory system		2018				
2.5.1.5 Update the PAN Inventory system on a regular basis		2018				
Sub-Total:						

Goal No. 3: Effective and adaptive Biodiversity Management that supports the network and ensures the values of the Protected Areas are maintained to the highest extent *Continued...*

Projects/ Activities	Targets	Time Frame	Appropriation K000	Expenditure to Date	Current Status	Comments/Recommendations
2.5.2.1 Develop an Inventory for existing and proposed traditional knowledge of PAN	2.5.2 A Dedicated documentation on traditional knowledge commenced by 2018	2018				
2.5.2.2 Develop Registry of all PAN Management Plans		2018				
2.5.2.3 Conduct traditional knowledge documentations for 2 PAN pilot sites		2018				
		Sub-Total:				
2.5.3.1 Conduct Analysis & identification of Priority Biodiversity Areas in PNG	2.5.3 Conservation Priorities Map and information of PNG developed by 2018	2018				
2.5.4.1 Develop database, Identify & access biodiversity data from institutions in PNG & overseas	2.5.4 Biodiversity (species & ecosystems) Management System developed by 2018	2018				
		Sub-Total:				
2.5.5.1 Develop an appropriate database for protected areas	2.5.5 Register of existing and potential or /proposed Protected Areas developed by 2019	2018				
		Sub-Total:				
2.6.1.1 Develop PA Management Plans for all gazetted PAS	2.6.1 All Protected Areas have Management Plans developed and operationalised by 2023	2018-2023				
2.6.2.1 Develop Regulation under the Protected Area Legislation on the establishment of MAG	2.6.2 Management Advisory Group (MAG) established and functioning by 2018	2018				
		Sub-Total:				
2.6.3.1 Develop Handbook on Roles and Responsibilities of MAG and PAN Board	2.6.3 Roles and responsibilities including membership of both PAN Board and MAG clearly defined by 2018	2018				
2.6.3.2 CEPA to nominate respective agencies to be members of the MAG		2018				
2.6.3.3 Develop TOR for the MAG		2018				
2.6.3.4 Submit nominated candidates to the PAN Board for approval		2018				
		Sub-Total:				
2.6.4.1 Contract a competent Business Development Consultant to lead in PA Management Business Plan development	2.6.4 Business Plans emanating from five (5) Protected Area Management Plans by 2018	2018				

2.6.4.2 Conduct 4 regional workshops on PA Management Business Plan development					2018				
2.6.4.3 Submit business plan to the PAN Board for approval					2018				
					Sub-Total:				
2.6.5.1 Contract a competent Consultant to lead in developing Guidelines for sustainable use of resources in PAS	2.6.5 Fifteen to twenty (15 to 20) guidelines developed to guide sustainable use of resources by 2020								
2.6.5.2 Conduct 4 regional workshops on Guidelines for sustainable use of resources in PAS	2018-2020								
2.6.5.3 Develop and finalize the guidelines	2018-2020								
2.6.5.4 Submit guidelines for approval by PAN Board	2018-2020								
					Sub-Total:				
2.7.1.1 Facilitate creation of zones and PAs in five (5) locations been guided by PA Management Planning Guidelines	2.7.1 Ten to twenty-five (Ten to 25) zones and Protected Areas created in five (five) locations been guided by Management Planning Guidelines by 2020								
2.7.1.2 Develop an Inventory of all PAN - both gazetted and proposed	2018-2020								
2.7.1.3 Develop Registry of all PAN Management Plans	2018-2020								
					Sub-Total:				
2.8.1.1 Facilitate identification and documentation of the effects of climate change and population growth on PAs - landscapes and seascapes.	2.8.1 Twenty percent (20%) of Protected Areas boosted against effects of climate change or population growth by 2020								
2.8.1.2 Facilitate development of a practical Mitigation Plan outlining measure of intervention.	2018-2020								
					Sub-Total:				

Goal No. 3: Effective and adaptive Biodiversity Management that supports the network and ensures the values of the Protected Areas are maintained to the highest extent *Continued...*

Projects/Activities	Targets	Time Frame	Appropriation K'000	Expenditure to Date	Current Status	Comments/Recommendations
2.8.2.1 Identify which communities are at most risk	2.8.2 Level of community resilience during natural and man-made disasters	2018-2020				
2.8.2.2 Introduce appropriate mitigation measures to community members		2018-2020				
		Sub-Total:				
2.9.1.1 Contract competent Asset Management System Specialist	2.9.1 Establish asset management systems for five (5) Protected Areas by 2020	2018-2020				
2.9.1.2 Design PA's Asset Management System		2018-2020				
		Sub-Total:				
2.9.2.1 Conduct assessment of PAN assets and develop Asset Inventory.	2.9.2 Establish working status/condition of plant/ equipment and facilities in five (5) Protected Areas by 2020.	2018-2020				
2.9.2.2 Facilitate development of PAN Assets.		2018-2020				
		Sub Total:				
		Grand Total:				



## IMPLEMENTATION FRAMEWORK

Goal No.4: Protected Areas Network that is relevant to the PNG people, protects the diversity of life, landscapes and seascapes and forms a well - connected, adequate and resilient system.

Objective 1 – To develop, enhance and manage a PNG Protected Areas Network that is relevant to the local communities and landscape, protects the diversity of life and forms a well connected and resilient system		Measurable Indicators	Responsible/Support Organization
Targets	Actions to be taken		
<b>Strategy 1.1 Establish a PNG Protected Area Network according to the guiding principles and the range of reserve types outlined in the PNG Policy on Protected Areas</b>			
1.1.1 PNG Protected Areas Network strengthened by 2026	<ul style="list-style-type: none"> <li>1.1.1.1 Conduct review of current Protected Area Network every 3 years</li> <li>1.1.1.2 Review and update the current protected area database</li> <li>1.1.1.3 Develop a standard procedure and data input manual for PAN database</li> <li>1.1.1.4 Develop a standard guideline for protected areas</li> <li>1.1.1.5 Upgrade and arrange PA types in the PA Network groupings into various classes drawing from local to international examples and best practices.</li> </ul>	<ul style="list-style-type: none"> <li>A status report of current Protected Area Network in PNG</li> <li>Database Review Report</li> <li>Standard procedure and data input manual.</li> <li>Standard Guideline</li> <li>Developed</li> <li>Report on Upgrading of PA Types.</li> </ul>	<ul style="list-style-type: none"> <li>CEPA/UNDP/JICA/NGOs/CBOs/Private Sector/ Academia/Govt Agencies</li> <li>EHP, IBR, WCS, RCF, UoG</li> <li>National Research</li> </ul>
<b>Strategy 1.2 Strengthen research initiatives and or collaborations (partnerships) in biodiversity information</b>			
1.2.1 20% increase in research partnerships entered into between CEPA and other partners by 2026	<ul style="list-style-type: none"> <li>1.2.1.1 Review current research guidelines and align with new PA legislation.</li> <li>1.2.1.2 Review screening process of research proposals on biodiversity and address loopholes.</li> <li>1.2.1.3 Invite communities to participate in screening process as part of research protocols.</li> <li>1.2.1.4 Take lead on biodiversity research and collaborate with NRI &amp; Dept. of Foreign Affairs as part of reviewing research guidelines.</li> <li>1.2.1.5 Facilitate development of Biodiversity Research Policy and ensure it has provincial linkages.</li> <li>1.2.1.6 Review and collate existing and proposed scientific data/information relevant to Biodiversity conservation research initiatives.</li> <li>1.2.1.7 Conduct educational awareness of protected areas in communities based on their priorities</li> <li>1.2.1.8 Identify research needs, and research institutions and register all research requiring CEPA signoff.</li> </ul>	<ul style="list-style-type: none"> <li>Current Research Guidelines Review Report.</li> <li>Screening process of research proposals Review Report</li> <li>Number of communities participating</li> </ul>	<ul style="list-style-type: none"> <li>CEPA/UNDP/JICA/NGOs/CBOs/Private sectors/ Academia/Govt Agencies</li> <li>IBR, WCS, RCF, UoG</li> <li>National Research, Academic Institutions, PA Communities.</li> </ul>

**Goal No.4: Protected Areas Network that is relevant to the PNG people, protects the diversity of life, landscapes and seascapes and forms a well - connected, adequate and resilient system.**

Targets	Actions to be taken	Measurable Indicators	Responsible/Support Organization
<b>Strategy 1.3 Establish a relevant, comprehensive, adequate, representative and resilient (CARR) PNG Protected Area Network according to the range of reserve types and network design principles established in the PNG Policy on Protected Areas</b>			
1.3.1 A relevant, comprehensive, adequate, representative and resilient PNG Protected Area Network is established by 2026	1.3.1.1 Conduct assessment on the range of reserve types and network design principles established in the PNG Policy on Protected Areas 1.3.1.2 Present assessment reports to relevant authorities for their endorsement 1.3.1.3 Implement recommendations of the assessment reports	Assessment reports completed with recommendations  Recommendations of the Assessment Reports endorsed by various authorities  Various Key Recommendations implemented	CEPA/JUNDP/JICA/ NGOs/CBOs/Private sectors/ Academia/Govt Agencies; IBR, WCS, RCF, UoG  National Research, Academic Institutions, PA Communities
<b>Strategy 1.4 Ensure a smooth transition from the 2014 Protected Area types to the updated Network, with no loss of values</b>			
1.4.1 Reclassification of existing PAs into the new PA types as per PA Policy by 2020	1.4.1.1 Conduct consultations with the communities on recommendations for reclassification 1.4.1.2 Develop/update management plans for selected Protected Areas	Consultation Report  PA Management Plan developed/updated	CEPA/JUNDP/JICA/ NGOs/CBOs/Private sectors/ Academia/Govt Agencies; PA Commu- nities
<b>Strategy 1.5 Promote and encourage PA/CCA Communities' participation</b>			
1.5.1 20 % of PA/CCA (GEF 5, KI and New Britain Island) Community representatives identified and trained by 2020.	1.5.1.1 Conduct PA training needs assessment 1.5.1.2 Identify PA/CCA Community representatives for training 1.5.1.3 Conduct training	TNA Report  Number of PA/CCA Community representatives identified.  Number of PA/CCA Community representatives trained.	CEPA/JUNDP/JICA/ NGOs/CBOs/Private sectors/ Academia/Govt Agencies; PA Commu- nities
1.5.2 Sustainable livelihoods needs (KI) assessed and tools developed (for development documented) by 2020	1.5.2.1 Develop workplan for sustainable livelihoods assessment 1.5.2.2 Identify and engage competent personnel to conduct assessment 1.5.2.3 Conduct needs assessment	All relevant activities captured in workplan  Competent personnel engaged with clear TOR  Needs Assessment Report	CEPA/JUNDP/JICA/ NGOs/CBOs/Private sectors/ Academia/Govt Agencies; PA Commu- nities
<b>Strategy 1.6 Improve and strengthen PAs/CCA communities networking</b>			
1.6.1 20% of PAs/CCA communities networks established and/or strengthened throughout PNG by 2020	1.6.1.1 Mobilize, establish and or strengthen PA Networks (both national and transnational) 1.6.1.2 Review governance options for PAs with high participatory process and incorporated engagement of Protected Areas/CCA communities 1.6.1.3 Create a standard template/procedure for Protected Areas/CCA communities' engagement process & Toolkit development facilitated by Wide Bay Conservation Association	Number of networks established and/or strengthened. Number of positive consultations  Number of prioritized options for gaps identified  Community Engagement Toolkit for PNG developed and piloted on New Britain	CEPA/JUNDP/JICA/ NGOs/CBOs/Private sectors/ Academia/Govt Agencies; PA Commu- nities

<b>Strategy 1.7 Mobilise support among various PA/CCA community Networks to establish an "Overarching Organization" to manage various Networks</b>			
1.7.1 An "Overarching Organization" established by 2023	1.7.1.1 Facilitate effective networking of PA/CCA communities to solicit consensus and agreement 1.7.1.2 Register organization with IPA and IRC	Number of PA/CCA communities with signed consent MoUs; Number of Sites implementation plans developed Functional Overarching Organization registered with IPA and IRC	CEPA/UNDP/JICA/ NGOs/CBOs/Private Agencies, PA Communities
<b>Strategy 1.8 Empower PA/CCA communities with skills and knowledge to participate effectively in managing protected areas</b>			
1.8.1 Five (5) trainings conducted per location per year by 2026	1.8.1.1 Assess capacity and training needs of PA/CCA communities 1.8.1.2 Identify training providers to conduct training 1.8.1.3 Secure funds and conduct training 1.8.1.4 Provide the tools, capacity-building and networks to enable local communities to map their customary use of biodiversity at the local level	Training Needs Assessment Reports Number of training providers identified and engaged Level of funding secured Level and types of support provided to local communities	CEPA/UNDP/JICA/ NGOs/CBOs/Private Agencies, PA Communities
<b>Objective 2- To develop and maintain a Protected Areas Proposal database of potential priority sites for PNG Protected Areas</b>			
<b>Strategy 2.1 Establish and/or integrate a PNG Biodiversity Information system for PNG PAN</b>			
2.1.1 Develop and integrate Biodiversity Information System by 2026	2.1.1.1 Review all existing data bases including but not limited to PIN Bio and NBIS using the principles set out in the PA Policy 2.1.1.2 Usage Agreement with the PNG Forest Authority and the access and sharing of biodiversity data.	Review Report Number of priority areas becoming pilot sites integrating other forms of collaboration between proxy PAs (comprehensive, effectively managed and ecologically representative)	CEPA/UNDP/JICA/ NGOs/CBOs/Private Agencies, PA Communities
2.1.2 A well established and effective data standard criterion for inputting data is developed by 2020	2.1.2.1 Standardize all relevant datasets 2.1.2.2 Ensure compliance of PA Regulations for biodiversity information. 2.1.2.3 CEPA to formulate format from research inputs to enhance biodiversity information. 2.1.2.4 Identify and map key areas for biodiversity with comparisons to update existing PAs.	Standardize database in existence; Database showing key areas been mapped out Number of persons/ research organization not complying to PA regulations Research Format established Report on Key areas for biodiversity identified and mapped.	CEPA/UNDP/JICA/ NGOs/CBOs/Private Agencies, PA Communities
2.1.3 Priority conservation targets and priority conservation areas (Ecological Gap Analysis) are identified by 2020	2.1.3.1 Conduct site specific survey for validation	Survey Report	CEPA/UNDP/JICA/ NGOs/CBOs/Private Agencies, PA Communities

# IMPLEMENTATION SCHEDULE

**Goal No. 4:** Protected Areas Network that is relevant to the PNG people, protects the diversity of life, landscapes and seascapes and forms a well - connected, adequate and resilient system.

**Program:** Managing a relevant PNG Protected Area Network

**Strategies:**

1. Establish a PNG Protected Area Network according to the guiding principles and the range of reserve types outlined in the PNG Policy on Protected Areas
2. Strengthen research initiatives and or collaborations (partnerships) in biodiversity information
3. Establish a relevant, comprehensive, adequate, representative and resilient (CARR) PNG Protected Area Network according to the range of reserve types and network design principles established in the PNG Policy on Protected Areas
4. Ensure a smooth transition from the 2014 Protected Area types to the updated Network, with no loss of values
5. Promote and encourage PA/CCA communities' participation
6. Improve and strengthen PA/CCA communities networking
7. Mobilize support among various PA/CCA Communities Networks to establish an "Overarching Organization" to manage various Networks
8. Empower PA/CCA communities with skills and knowledge to participate effectively in managing protected areas
9. Establish and/or integrate a PNG Biodiversity information system for PNG PAN

Project/Activities	2018			2019			2020			2021			2022			2023			2024			2025-2026			2027-2028			Cost K'000	Funding Source	Action	Output Indicator
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3				
1. Establish a PNG Protected Area Network according to the guiding principles and the range of reserve types outlined in the PNG Policy on Protected Areas																															
1.1.1.1 Conduct review of current Protected Area Network every 3 years																											540	CEPA/JUNDP/JICA/NGOs/CBOs/Private Sector/Academia/Govt Agencies	A status report of current Protected Area Network in PNG		
1.1.1.2 Review and update the current protected area database																										420	Provincial Admins; Research Organisations	EHP, IBR, WCS, RCF, UoG	Database Review Report		
1.1.1.3 Develop a standard procedure and data input requirement for PAN database																									60	Same as above	National search	Standard procedure and data input manual			
1.1.1.4 Develop a standard guideline for protected areas																									70	Same as above	Same as above	Standard Guideline developed			

1.1.1.5 Upgrade and arrange PA types in the PA Network groupings into various classes drawing from local to international examples and best practices.	100	Same as above	Same as above	Report on Upgrading of PA Types
<b>Sub Total: 1,190</b>				
<b>2. Strengthen research initiatives and or collaborations (partnerships) in biodiversity information</b>				
2.1.1 Review current research guidelines and align with new PA legislation.	20	CEPA Operation/Capital Budgets; Donors; Private sponsors; Provincial Admins; Research Organisations	CEPA/UNDP/JICA/NGOs/CBOs/Private sectors / Academia/Govt Agencies; IB, WCS, RCF, UoG National Research, Academic Institutions, PA Communities	Current Research Guidelines Review Report
2.1.2 Review screening process of research proposals on biodiversity and address loopholes.	20			Screening process of research proposals Review Report
2.1.3 Invite communities to participate in screening process as part of research protocols.	50			Number of communities participating
2.1.4 Take lead on biodiversity research and collaborate with NRI & Dept. of Foreign Affairs as part of reviewing research guidelines.	200	Same as above	Same as above	Biodiversity Research Guidelines Review Report
2.1.5 Facilitate development of Biodiversity Research Policy and ensure it has provincial linkages.	150	Same as above	Same as above	Biodiversity Research Policy developed
2.1.6 Review and collate existing and proposed scientific data/information relevant to Biodiversity conservation research initiatives.	30	Same as above	Same as above	Review Report
2.1.7 Conduct educational awareness of protected areas in communities based on their priorities	60	Same as above	Same as above	Number of educational awareness conducted; Awareness Reports
2.1.8 Identify research needs, and research institutions and register all research requiring CEPA signoff	5	Same as above	Same as above	Register of all research needs
<b>Sub Total: 535</b>				

**GOAL NO. 4: Protected Areas Network that is relevant to the PNG people, protects the diversity of life, landscapes and seascapes and forms a well - connected, adequate and resilient system. Continued...**

Project/Activities	2018				2019				2020				2021				2022				2023				2024				2025-2026		2027-2028		Cost K'000	Funding Source	Action	Output Indicator
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2						
3. Establish a relevant, comprehensive, adequate, representative and resilient (CARR) PNG Protected Area Network according to the range of reserve types and network design principles established in the PNG Policy on Protected Areas																																				
3.1.1 Conduct assessment on the range of reserve types and network design principles established in the PNG Policy on Protected Areas																														40	CEPA Operation/Capital Budgets; Donors; Private sponsors;	CEPA/JUNDP/JICA/NGOs/CBOs/Private sectors / Academia/ Govt; Agencies IBR, WCS,	Assessment reports completed with recommendations			
3.1.2 Present assessment reports to relevant authorities for their endorsement																														40	Provincia I Admins; Research Organizations	RCF, National Research, Academic Institutions, PA Communities	Recommendations of the Assessment Reports endorsed by various authorities			
3.1.3 Implement recommendations of the assessment reports																														50	Same as above	Same as above	Key Recommendations implemented			
Sub Total: 130																																				
4. Ensure a smooth transition from the 2014 Protected Area types to the updated Network, with no loss of values																																				
4.1.1 Conduct consultations with the communities, on recommendations for reclassification																															50	CEPA Operation/Capital Budgets; Donors; Private sponsors; Provincia I Admins; Research Organizations	CEPA/JUNDP/JICA/NGOs/CBOs/Private sectors / Academia/ Govt Agencies; PA Communities	Consultation Reports		
4.1.2 Develop/update management plans for selected Protected Areas																															30		PA Management Plan developed/updated			
Sub Total: 80																																				

5. Promote and encourage PA/CCA Communities' participation

Activity	20	CEPA Operational Budgets; Donors; Private spon-sors; Provincial Admins; Research Organizations	CEPA/UNDP/JICA/NGOs/ CBOs/ Private sectors /Academia/ Govt Agencies; PA Communities	TNA Report
5.1.1 Conduct PA training needs assessment	20			
5.1.2 Identify PA/CCA Community representatives for training	0.0			Number of PA/CCA Community representatives identified
5.1.3 Conduct training	800			Number of PA/CCA Community representatives trained
5.1.4 Develop workplan for sustainable livelihoods assessment	3	Same as above	Same as above	All relevant activities captured in workplan
5.1.5 Identify and engage competent personnel to conduct assessment	150	Same as above	Same as above	Competent personnel engaged with clear TOR
5.1.6 Conduct needs assessment	80	Same as above	Same as above	Needs Assessment Report
Sub Total:		1,053		

6. Improve and strengthen PA/CCA Communities' networking

6.1.1 Mobilize, establish and strengthen networks (national and transnational)	150			CEPA/UNDP/JICA/NGOs/ CBOs/Private sectors /Academia/ Govt Agencies; PA Communities	Number of networks established and/or strengthened; Number of positive consultations
6.1.2 Review governance options for PAs with high participatory process and incorporated engagement of Protected Areas/ CCA communities	40	Same as above	Same as above	Number of prioritized options for gaps identified	
6.1.3 Create a standard template/ procedure for Protected Areas/CCA communities' engagement process & Toolkit development facilitated by Wide Bay Conservation Association	30	Same as above	Same as above	Community Engagement Toolkit developed and piloted on New Britain	
Sub Total:		220			

**GOAL NO. 4: Protected Areas Network that is relevant to the PNG people, protects the diversity of life, landscapes and seascapes and forms a well - connected, adequate and resilient system. Continued...**

Project/Activities	2018	2019	2020	2021	2022	2023	2024	2025-2026	2027-2028	Cost K'000	Funding Source	Action	Output Indicator
7. Mobilise support among various PA/CCA Community Networks to establish an "Overarching Organization" to manage various Networks													
7.1 Facilitate effective networking of PA/CCA Communities to solicit consensus and agreement										200	CEPA Operation/Capital Budgets; Donors; Private sponsors; Provincial Admins; Research Organizations	CEPA/UNDP/ JICA/NGOs/ CBOs/ Private sectors /Academia/ Govt Agencies; PA Communities	Number of PA/CCA communities with signed MOUs; Number of sites implementation plans developed
7.1.2 Register organization with IPA and IRC										20	Same as above	Same as above	Functional Overarching Organization registered with IPA and IRC
										Sub Total:	220		
8. Empower PA/CCA Communities with skills and knowledge to participate effectively in managing protected areas													
8.1.1 Assess capacity and training needs of PA/CCA Communities										30	CEPA Operation/Capital Budgets; Donors; Private sponsors; Provincial Admins; Research Organizations	CEPA/UNDP/ JICA/NGOs/ CBOs/ Private sectors /Academia/ Govt Agencies; PA Communities	Training Needs Assessment Reports
8.1.2 Identify training providers to conduct training										250			Number of training providers identified and engaged
8.1.3 Secure funds and conduct training										3000			Level of funding secured
8.1.4 Provide the tools, capacity-building and networks to enable local communities to map their customary use of biodiversity at the local level										100	Same as above	Same as above	Level and types of support provided to local communities
										Sub Total:	3,380		



9. Establish/integrate a PNG Biodiversity Information System for PNG PAN

9.1.1 Review all existing data bases including but not limited to PIN Bio and NBIS using the principles set out in the PA Policy	50	CEPA Operational Budgets; Donors; Private spon-sors; Provinces	CEPA/UNDP/ JICA/NGOs/ CBOs/ Private sectors / Academia/ Govt Agencies;	Review Report
9.1.2 Usage Agreement with the PNG Forest Authority and the access and sharing of biodiversity data.	40	I Admins; Research Organizations	PA Communi-ties	Number of priority areas becoming pilot sites integrating other forms of collaboration between proxy PAs (comprehensive, effectively managed and ecologically representative)
9.1.3 Standardize all relevant datasets	150	Same as above	Same as above	Standardize database in existence; Database showing keys areas been mapped out
9.1.4 Ensure compliance of PA Regulations for biodiversity information.	100	Same as above	Same as above	Number of persons/ research organization not complying to PA regulations
9.1.5 CEPA to formulate format from research inputs to enhance biodiversity information.	0.0	Same as above	Same as above	Research Format established
9.1.6 Identify and map key areas for biodiversity with comparisons to update existing PAs.	900	Same as above	Same as above	Report on Key areas for biodiversity identified and mapped
9.1.7 Conduct site specific survey for validation	200	Same as above	Same as above	Survey Report
Sub Total:				1,440

GRAND-TOTAL:				8,248
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## MONITORING AND EVALUATION FRAMEWORK

**Goal No. 4:** Protected Areas Network that is relevant to the PNG people, protects the diversity of life, landscapes and seascapes and forms a well-connected, adequate and resilient system.

**Program:** Managing a relevant PNG Protected Area Network

### Objectives:

- To develop, enhance and manage a PNG Protected Areas Network that is relevant to the local communities and landscape, protects the diversity of life and forms a well-connected and resilient system
- To develop and maintain a Protected Areas Proposal database of potential priority sites for PNG Protected Areas

Projects/ Activities	Targets	Time Frame	Appropriation K'000	Expenditure to Date	Current Status	Comments/Recommendations
1.1.1.1 Conduct review of current Protected Area Network every 3 years	1.1.1 PNG Protected Areas Network strengthened by 2026	2018-2026				
1.1.1.2 Review and update the current protected area database		2018-2026				
1.1.1.3 Develop a standard procedure and data input manual for PAN database		2018-2026				
1.1.1.4 Develop a standard guideline for protected areas		2018-2026				
1.1.1.5 Upgrade and arrange PA types in the PA Network groupings into various classes drawing from local to international examples and best practices.		2018-2026				
		<b>Sub-Total:</b>				
1.2.1.1 Review current research guidelines and align with new PA legislation.	1.2.1 20% increase in research partnerships entered into between CEPA and other partners by 2026	2018-2026				
1.2.1.2 Review screening process of research proposals on biodiversity and address loopholes.		2018-2026				
1.2.1.3 Invite communities to participate in screening process as part of research protocols.	1.2.1 20% increase in research partnerships entered into between CEPA and other partners by 2026	2018-2026				
1.2.1.4 Take lead on biodiversity research and collaborate with NRI & Dept. of Foreign Affairs as part of reviewing research guidelines		2018-2026				
1.2.1.5 Facilitate development of Biodiversity Research Policy and ensure it has provincial linkages		2018-2026				

1.2.1.6 Review and collate existing and proposed scientific data/information relevant to Biodiversity conservation research initiatives					2018-2026
1.2.1.7 Conduct educational awareness of protected areas in communities based on their priorities					2018-2026
1.2.1.8 Identify research needs, and research institutions and register all research requiring CEPA signoff					2018-2026
Sub-Total:					
1.3.1.1 Conduct assessment on the range of reserve types and network design principles established in the PNG Policy on Protected Areas	1.3.1 A relevant, comprehensive, adequate, representative and resilient PNG Protected Area Network is established by 2026				
1.3.1.2 Present assessment reports to relevant authorities for their endorsement					2018-2026
1.3.1.3 Implement recommendations of the assessment reports					2018-2026
Sub-Total:					
1.4.1.1 Conduct consultations with the communities on recommendations for reclassification	1.4.1 Reclassification of existing PAs into the new PA types as per PA Policy by 2020				
1.4.1.2 Develop/ update management plans for selected Protected Areas					2018-2022
Sub-Total:					
1.5.1.1 Conduct PA training needs assessment	1.5.1 20 % of PA/CCA (GEF5, KI and New Britain Island) Community representatives identified and trained by 2020.				
1.5.1.2 Identify PA/CCA Community representatives for training					2018-2020
1.5.1.3 Conduct training					2018-2020
Sub-Total:					

**GOAL NO. 4: Protected Areas Network that is relevant to the PNG people, protects the diversity of life, landscapes and seascapes and forms a well-connected, adequate and resilient system. *Continued...***

Projects/ Activities	Targets	Time Frame	Appropriation K000	Expenditure to Date	Current Status	Comments/Recommendations
1.5.2.1 Develop workplan for needs assessment	1.5.2 Sustainable livelihoods needs (KI) assessed and tools developed (for development documented) by 2020.	2018-2020				
1.5.2.2 Identify and engage competent personnel to conduct assessment		2018-2020				
1.5.2.3 Conduct needs assessment		2018-2020				
<b>Sub-Total:</b>						
1.6.1.1 Mobilize, establish and or strengthen PA networks (both national and trans-national)	1.6.1 20% of PAs/CCA Communities' networks established and/or strengthened throughout PNG by 2020.	2018-2020				
1.6.1.2 Review governance options for PAs with high participatory process and incorporated engagement of Protected Areas/CCA communities		2018-2020				
1.6.1.3 Create a standard template/procedure for Protected Areas/CCA communities' engagement process & Toolkit development facilitated by Wide Bay Conservation Association		2018-2020				
<b>Sub-Total:</b>						
1.7.1.1 Facilitate effective networking of PA/CCA communities to solicit consensus and agreement	1.7.1 An "Overarching Organization" established by 2023.	2018-2023				
1.7.1.2 Register organization with IPA and IRC		2018-2023				
<b>Sub-Total:</b>						
1.8.1.1 Assess capacity and training needs of PA/CCA communities	1.8.1 Five (5) trainings conducted per location per year by 2026.	2018-2026				
1.8.1.2 Identify training providers to conduct training		2018-2026				
1.8.1.3 Secure funds and conduct training		2018-2026				
1.8.1.4 Provide the tools, capacity-building and networks to enable local communities to map their customary use of biodiversity at the local level.		2018-2026				
<b>Sub-Total:</b>						

2.1.1.1 Review all existing data bases including but not limited to PIN Bio and NBIS using the principles set out in the Policy	2.1.1 Develop and integrate Biodiversity Information System by 2026.	2018-2026				
2.1.1.2 Usage Agreement with the PNG Forest Authority and the access and sharing of biodiversity data.		2018-2026				
		Sub-Total:				
2.1.2.1 Standardize all relevant datasets	2.1.2 A well established and effective data standard criterion for inputting data is developed by 2026	2018-2026				
2.1.2.2 Ensure compliance of PA Regulations for biodiversity information.		2018-2026				
2.1.2.3 CEPA to formulate format from research inputs to enhance biodiversity information.		2018-2026				
2.1.2.4 Identify and map key areas for biodiversity with comparisons to update existing PAS		2018-2026				
		Sub-Total:				
2.1.3.1 Conduct site specific survey for validation	2.1.3 Priority conservation targets and priority conservation areas (Ecological Gap Analysis) are identified by 2020	2018-2026				
		Sub-Total:				
		Grand Total:				

## IMPLEMENTATION FRAMEWORK

Goal No.5: Sustainable and equitable financing facility supports the Protected Area Network and established Protected Areas.

Objective 1 – To establish a Biodiversity Trust Fund to support the establishment and management of Protected Areas across PNG			
Targets	Actions to be taken	Measurable Indicators	Responsible/Support Organization
<b>Strategy 1.1 Establish and promote a funding facility that will sustain the management of Protected Areas in the long term.</b>			
1.1.1 Biodiversity Trust Fund consultations initiated by 2018	1.1.1.1 Identify sites of global significance to sell to donors etc. 1.1.1.2 Allocate PA into categories e.g. global, national and local significance etc, and identify PAs that require funding 1.1.1.3 Allocate sustainable financing to local Protected Areas	Number of sites identified Number of PAs allocated into 10 Global Significance, 25 National and 22 Local categories. Level of funding allocated to local PAs considered as sustainable	CEPA, DJAG, Treasury, PMNEC, BPNG, All relevant Government Department/ Agencies, Industry, Private Sector, Donors, NGOs
1.1.2 Biodiversity Trust Fund Bill submitted to NEC by September 2018	1.1.1.4 Initiate Stakeholder consultations (donor, developing partners and Philanthropy Organizations) 1.1.2.1 Draft and submit NEC Submissions together with Draft Bill and Drafting Instructions	Number of consultations conducted; Number of Meetings/ Workshops held and Outcome Reports Biodiversity Trust Fund Legislations; NEC Submission; Parliamentary Statement	CEPA, DJAG, PMNEC, DoT and BPNG. All relevant Government Department/ Agencies
1.1.3 Trust Fund Bill goes to Parliament for approval by November 2018	1.1.3.1 Present submissions to Parliament	Copies of Trust Fund Bill; NEC Submission; Parliamentary Statement	CEPA, State Solicitors Office, Department of Attorney General
1.1.4 Biodiversity Trust Fund established and operational by 2019	1.1.4.1 Develop the Governance and Management Structure 1.1.4.2 Establish a Secretariat as an interim arrangement to establish permanent management and governance structure for the Trust Fund 1.1.4.3 Develop structure of the Trust Fund 1.1.4.4 Advertise and recruit competent personnel to manage the Trust Fund/ independent Body 1.1.4.5 Operationalize the Biodiversity Trust Fund	Governance and Management Structure (Independent Board/ CEPA board) of the TF is set up and operational Secretariat established; Number of Staff recruited Approved Trust Fund Management Structure Employment Contracts developed; Number of Competent personnel recruited Guidelines and Procedures developed; Quarterly Report on fund disbursement	CEPA, State Solicitors Office, DJAG, BPNG, Departments of Treasury, Finance, DPLGA, Provincial Governments, Development Partners, NGOs
<b>Strategy 1.2 Establish Small Grant facility to deliver funding directly to support local communities in the establishment and management of Protected Areas</b>			
1.2.1 20% increase in Small Grants funding directly to local PA communities by 2019	1.2.1.1 Operationalize Small Grant facility	Number of grantees; Volume of funds disbursed; Quarterly Reports.	CEPA, State Solicitors Office, DJAG, BPNG, Departments of Treasury, Finance, DPLGA, Provincial Governments, Development Partners, NGOs

<b>Strategy 1.3 Utilize existing financing options to fund Protected Areas' initiatives</b>			
1.3.1 20% increase in the number of financing options currently available by 2019	1.3.1.1 Develop database to capture all financing options and assess their viability 1.3.1.2 Incorporate requirements of Protected Areas into annual budgets	Database developed; Funding Gaps identified	CEPA, Departments of Finance, Treasury and National Planning & Monitoring
1.3.2 Carbon Trading Funding to be accessed by 2019	1.3.2.1 Initiate Consultation with UNDP/GEF	Annual Budgetary appropriations Number of consultations conducted	CEPA, CCDA, Prov. Govts/ Development Partners/ NGOs
1.3.3 Environmental levies collected by 2018	1.3.3.1 Commence consultations with relevant industries and entities 1.3.3.2 Develop draft trust instrument on how funds will be dispersed	Number of consultations conducted Trust Instruments developed and approved by NEC; Certified Trust Deeds	CEPA, MRA, CCDA, NFA, DJAG, NMSA, Departments of Treasury and Finance
<b>Objective 2 – To ensure a sustainable and equitable funding mechanism is established to support the PNG Protected Areas</b>			
<b>Strategy 2.1 Mobilize support among stakeholders including various Landowners' Networks to establish a Biodiversity Trust Fund</b>			
2.1.1 Biodiversity Trust Fund consultations initiated by 2018	2.1.1.1 Incorporate requirements of the management of Protected Areas and PA Network into annual budgets 2.1.1.2 Outline and define the scope for funding of Protected Areas and the Application Process 2.1.1.3 Identify existing potential financing sources to kick-start the Trust Fund 2.1.1.4 Conduct stakeholders' consultation 2.1.1.5 Develop the Governance and Management Structure of the Trust Fund, including the Benefit Sharing & Distribution System	Number of sites identified; Level of budget allocations Scope for funding clearly outlined and defined; Application process clearly defined Existing potential financing sources identified Consultation reports Governance and Management Structure of Trust Fund established	CEPA, Departments of Finance & Treasury/DPLLG/Prov.Govts/Donors/Developing Partners/ NGOs
2.1.2 Biodiversity Trust Fund Bill presented to cabinet by June 2018	2.1.2.1 Draft Biodiversity Trust Fund Bill 2.1.2.2 Carry out stakeholder consultation on the draft Trust Fund Bill	Biodiversity Trust Fund Legislations drafted and submitted to NEC; Parliamentary Statement Consultation Reports; Number of consultations conducted	CEPA, State Solicitors Office, Department of Attorney General, First Legislative Council, Departments of Treasury and Finance, BPNG
2.1.3 NEC approval of Trust Fund Bill by August 2018	2.1.3.1 Present submissions together with Draft Bill and Drafting Instructions	NEC Decision approving establishment of Biodiversity Trust Fund	CEPA, State Solicitors Office, Department of Attorney General
2.1.4 Biodiversity Trust Fund established by 2019	2.1.4.1 Advertise and recruit competent personnel to manage the Trust Fund 2.1.4.2 Operationalize the Biodiversity Trust Fund.	Governance and Management Structure (Independent Board/ CEPA board) of the Trust Fund is set up and operational. Secretariat established; Number of staff recruited.	CEPA, State Solicitors Office, Department of Attorney General, BPNG, Departments of Treasury, Finance, DPM, DPLGA, Provincial Governments, Donors, Development Partners, NGOs

Goal No.5: Sustainable and equitable financing facility supports the Protected Area *Continued...*

Objective 3. To ensure all Development Plans and Annual Budgets capture requirements of Protected Areas.			
Targets	Actions to be taken	Measurable Indicators	Responsible/Support Organization
<b>Strategy 3.1 Mobilise support at all levels of government to incorporate requirements of Protected Areas into their Strategic Planning and Budgeting initiatives.</b>			
3.1.1 All development plans to factor in the requirements of Protected Areas by 2019.	3.1.1.1 Facilitate to ensure that PA Bill captures and makes it mandatory for Provincial and District Authorities to incorporate requirements of Protected Areas into their development plans.	Annual budgets reflecting Protected Areas share of funding.	CEPA/DNPM/Finance & Treasury/DPLLG/Prov. Govts/Donors/Developing Partners/NGOs
3.1.2 All budgets at national and sub-national levels to include appropriations for Protected Areas by 2019.	3.1.2.1 Conduct awareness on the significance of Protected Areas and their required funding.	MOUs/MOAs signed between partners.	CEPA/DNPM/Finance & Treasury/DPLLG/Prov. Govts/Donors/Developing Partners/NGOs
<b>Objective 4. To promote and encourage alternative sources of income generation for the land owners within PAs.</b>			
<b>Strategy 4.1 Capacity Building, empowerment of communities and resource mobilization.</b>			
4.1.1 One hundred and twenty (120) awareness activities and trainings conducted in 60 PAs by 2019.	4.1.1.1 Conduct training needs assessment of target groups and financial beneficiaries. 4.1.1.2 Conduct training for project stakeholders on PA management approaches, identifying values and threats and develop action plans 4.1.1.3 Assist DDAs to solicit funding from provincial and national governments to implement the plan	Training Needs Plan developed (Gap knowledge Training manuals/syllabus). Number of trainings conducted; Number of persons trained. Level of funding secured from Provincial/National Governments	CEPA, Prov. Govts, LLGs, NGOs, Industries & others.
4.1.2 One hundred and twenty (120) alternate employment opportunities identified and trialed in 60 communities by 2021.	4.1.1.4 Identify opportunities for NGOs, CSOs and private sector in policy discussion on PA management and sustainable resources use 4.1.1.5 Review and update training handbook on PA management strategy 4.1.2.1 Identify potential employment opportunities in the target community and develop action plan . 4.1.2.2 Recruit and train project beneficiaries as Conservation Wardens (Porters/guides) and Community Liaison Officers 4.1.2.3 Engage competent consultants or service providers to train PA project beneficiaries identified above.	Level of participation from NGOs, CBOs and Private sector in policy discussions PA Management Plan reviewed (meeting minutes/reports/etc) Number of potential employment opportunities identified and documented Number of project beneficiaries trained and working as Conservation Wardens and Community Liaison Officers Number of competent consultants or service providers conducting training.	CEPA, Industry, NDB Other stakeholders
4.1.3 One hundred and twenty (120) community projects implemented in 60 locations by 2021	4.1.3.1 Conduct baseline study to assess viability of potential socio-economic activities in the project/PA site. 4.1.3.2 Identify and document potential community projects in the target community and develop their project proposals (for example, eaglewood, crocodile farming, eco-tourism, carving, fish farming, poultry, etc)	Baseline study completed; Number of potential socio-economic activities identified as viable Number of potential community projects identified and their project proposals developed.	CEPA, Department of National Planning, Dept of Agriculture & Livestock, TPA, NFA, PNGFA, Development Partners NGOs, PA Communities



	<p>4.1.3.3 Submit and secure funding from potential sponsors for various project proposals.</p> <p>4.1.3.4 Access funding and implement project activities.</p> <p>4.1.3.5 Monitor and report on progress of project activities.</p>	<p>Level of funding secured from number of potential sponsors.</p> <p>Proportion of funding accessed and expanded on project activities.</p> <p>Frequency of monitoring activities; Progress of implementation project activities</p>	<p>CEPA, Provincial Govt, District Authority, LLG, NGOS, Industry (e.g. NBPOL)</p>
<p>4.1.4 One hundred and twenty (120) communities' self - reliant projects identified and implemented in 60 locations by 2021.</p> <p>4.1.5 Increase in the proportion of external financial resources accessed by 60 PAs.</p>	<p>4.1.4.1 Carry out inventory on options for self - reliant livelihood projects</p> <p>4.1.4.2 Identify market options and Implement self - reliant livelihood projects</p> <p>4.1.5.1 Identify and document external financial resources to be accessed by project beneficiaries</p> <p>4.1.5.2 Provide assistance to project beneficiaries to develop project proposals to access external financial resources.</p> <p>4.1.5.3 Secure micro-financing opportunities for community members within PAs.</p> <p>4.1.5.4 Conduct training in financial management for interested members of communities</p>	<p>Inventory Report</p> <p>Number of Markets identified and types of livelihood projects implemented</p> <p>Number of external financial resources identified and documented</p> <p>Level of assistance provided to beneficiaries; Number of proposals finalized and submitted for potential funding</p> <p>Level of micro-financing opportunities secured; Number of community members benefiting from these opportunities</p> <p>Number of trainings conducted; Number of community members benefiting from this training</p>	<p>CEPA; UPNG,PAU, Bina-tang Research Institute, SPREP, National &amp;International Consultants, Development Partners, NGO's</p>
<p><b>Strategy 4.2 Develop and implement collaborative research programs involving non-government organizations, industry, education sector and customary landowners.</b></p>			
<p>4.2.1 One hundred and twenty (120) collaborative research activities conducted in 60 PAs by 2021.</p>	<p>4.2.1.1 Establish a good communication network with permit issuing authorities (CEPA, NRI, Provincial Authorities)</p> <p>4.2.1.2 Develop collaborative research programs Agreements (MoU/MoA).</p> <p>4.2.1.3 Advertise and secure research opportunities to interested research institutions.</p> <p>4.2.1.4 Engage interested research institutions to undertake research in PAs.</p> <p>4.2.1.5 Advertise PA inventory tasks and contract competent consultant to review and update PAs in PNG.</p>	<p>Communication network developed</p> <p>Number of MoU/MoA binding agreements</p> <p>Number and types of research opportunities advertised and secured</p> <p>Number of research institutions expressing interest and engaged.</p> <p>PA inventory reviewed and updated.</p>	<p>CEPA, UPNG, PAU Bina-tang Research Institute, SPREP, National &amp; International Consultants, NGOs &amp; Industry</p>
<p><b>Strategy 4.3 Improved understanding of Traditional Ecological knowledge and sustainable cultural uses and practices and the incorporation of this knowledge into Protected Area planning and management</b></p>			
<p>4.3.1 Traditional knowledge and sustainable cultural uses documented for 60 PAs by 2024.</p>	<p>4.3.1.1 Engage experts to conduct traditional knowledge and practices studies in target communities/PAs</p> <p>4.3.1.2 Document traditional ecological knowledge and sustainable cultural uses.</p> <p>4.3.1.3 Advertise for publication companies/consultants to research and publish research documents.</p>	<p>Number of studies conducted in number of communities; Available Report on comprehensive ecological studies.</p> <p>Number of documents featuring traditional ecological knowledge and sustainable cultural uses</p> <p>Number of publication companies/or consultants expressing interest; Number of publications containing traditional ecological knowledge and sustainable cultural uses</p>	<p>CEPA, UPNG, PAU, Bina-tang Research Institute, SPREP, National &amp;International Consultants, NGO's and Industry</p>

**Goal No.5: Sustainable and equitable financing facility supports the Protected Area Continued...**

Targets	Actions to be taken	Measurable Indicators	Responsible/Support Organization
4.3.2 Traditional ecological & sustainable cultural practice based protected area planning/management implemented in 60 PAs by 2025.	4.3.2.1 Conduct community participatory and awareness for traditional ecological and cultural practices. 4.3.2.2 Develop management plans in consultation with local communities and LLGs/District representatives. 4.3.2.3 Assist local communities/PA beneficiaries to develop Management Plans.	Number of community participatory and awareness conducted Number of consultations conducted with local communities and LLGs/District representatives Number of management plans developed, endorsed and funded; Number of projects funded from the Management Plans	CEPA, UPNG, PAU, Bintang Research Institute, SPREP, National & international Consultants, NGO's and Industry

## IMPLEMENTATION SCHEDULE

**Goal No. 5:** Sustainable and equitable financing facility supports the Protected Area Network and established Protected Areas.

**Program:** Sustainable and Equitable Financing Facility

**Strategies:**

1. Establish and promote a funding facility that will sustain the management of Protected Areas in the long term
2. Establish Small Grant facility to deliver funding directly to support local communities in the establishment and management of Protected Areas
3. Utilize existing financing options to fund Protected Areas' initiatives
4. Mobilise support among stakeholders including various Landowners' Networks to establish a Biodiversity Trust Fund
5. Mobilise support at all levels of government to incorporate requirements of Protected Areas into their Strategic Planning and Budgeting initiatives
6. Capacity Building, empowerment of communities and resource mobilization
7. Develop and implement collaborative research programs involving non-government organizations, industry, education sector and customary landowners
8. Improved understanding of Traditional Ecological knowledge and sustainable cultural uses and practices and the incorporation of this knowledge into Protected Area planning and management

**Goal No.5: Sustainable and equitable financing facility supports the Protected Area**

Project/Activities	2018			2019			2020			2021			2022			2023			2024			2025			2026-2028			Cost K'000	Funding Source	Action Organization	Output Indicator														
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3					4													
1. Establish and promote a funding facility that will sustain the management of Protected Areas in the long term																																													
1.1.1.1 Identify sites of global significance to sell to donors etc.																																					30	CEPA Operations/Capital Budgets; Donors	CEPA, DJAG, Treasury, PMNEC, BPNG, All relevant Government Department/Agencies, Industry, Private Sector; Donors, NGO's	Number of sites identified					
1.1.1.2 Allocate PA into categories e.g. global, national and local significance etc, and identify PAs that require funding																																				40	Same as above	Same as above	Number of PAs allocated into 10 Global Significance25 National and 22 Local categories						
1.1.1.3 Allocate sustainable financing to local Protected Areas																																					200	Same as above	Same as above	Level of funding allocated to local PAs considered as sustainable					
1.1.1.4 Initiate Stakeholder consultations (donor, developing partners and Philanthropy Organizations)																																						150	Same as above	Same as above	Number of consultations conducted; Number of Meetings/ Workshops held and Outcome Reports				
1.1.1.5 Draft and submit NEC Submissions together with Draft Bill and Drafting Instructions																																							80	Same as above	CEPA, State Solicitor's Office, PMNEC, DJAG, DoT BPNG, All relevant Government Departments/Agencies	Biodiversity Trust Fund Legislations; NEC Submission; Parliamentary Statement			
1.1.1.6 Present submissions at Parliament.																																										20	Same as above	CEPA, State Solicitor's Office, DJAG	Copies of Trust Fund Bill; NEC Submission; Parliamentary Statement

Goal No.5: Sustainable and equitable financing facility supports the Protected Area *Continued...*

Project/Activities	2018			2019			2020			2021			2022			2023			2024			2025			2026-2028	Cost K'000	Funding Source	Action Organization	Output Indicator
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4					
1.1.1.7 Develop the Governance and Management Structure																									100	Same as above	CEPA, State Solicitor's Office, DJAG, BPNG, Departments of Treasury, Finance, DPLGA, Provincial Governments, Donors, NGOs	Governance and Management Structure (Independent Board/CEPA board) of the TF is set up and operational	
1.1.1.8 Establish a Secretariat as an interim arrangement to establish permanent management and governance structure for the Trust Fund																									250	Same as above	Same as above	Secretariat established; Number of Staff recruited	
1.1.1.9 Develop structure of the Trust Fund																									50	Same as above	Same as above	Approved Trust Fund Management Structure	
1.1.1.10 Advertise and recruit competent personnel to manage the Trust Fund/ independent Body																									100	Same as above	Same as above	Employment Contracts developed; Number of Competent personnel recruited	
1.1.1.11 Operationalize the Biodiversity Trust Fund																									160	Same as above	Same as above	Guidelines and Procedures developed; Quarterly Report on fund disbursement	
<b>Sub-Total:</b>																							<b>1,180</b>						
<b>2. Establish Small Grant facility to deliver funding directly to support local communities in the establishment and management of Protected Areas</b>																													
1.2.1.1 Operationalize Small Grant facility																										160	CEPA Operations/Capital Budgets; Donors; National Government Departments; Provincial Governments	CEPA, State Solicitors Office, DJAG, BPNG, Departments of Treasury, Finance, DPLGA, Provincial Governments, Development Partners, NGOs	Number of grantees; Volume of funds disbursed; Quarterly Reports
<b>Sub-Total:</b>																							<b>160</b>						

3. Utilize existing financing options to fund Protected Areas' initiatives

3.1.1 Develop database to capture all financing options and assess their viability		200	CEPA Operations/Capital Budgets; Donors: National Government Departments, Provincial Governments	CEPA, Departments of Finance, Treasury and National Planning & Monitoring	Database developed; Funding Gaps identified
3.1.2 Incorporate requirements of Protected Areas into annual budgets		30	Same as above	CEPA, CCDA, Prov. Govts/Development Partners/NGOs	Annual Budgetary appropriations
3.1.3 Initiate Consultation with UNDP/GEF		140	Same as above	CEPA, CCDA, Prov. Govts/Development Partners/NGOs	Number of consultations conducted
3.1.4 Commence consultations with relevant industries and entities		150	Same as above	CEPA, MRA, CCDA, NFA, DJAG, NMSA, Departments of Treasury and Finance	Number of consultations conducted
3.1.5 Develop draft trust instrument on how funds will be dispersed		200	Same as above	CEPA, MRA, CCDA, NFA, DJAG, NMSA, Departments of Treasury and Finance	Trust Instruments developed and approved by NEC; Certified Trust Deeds
		Sub-Total:	720		

4. Mobilize support among stakeholders including various Landowners' Networks to establish a Biodiversity Trust Fund

4.1.1 Incorporate requirements of the management of Protected Areas and PA Network into annual budgets		30	CEPA Operations/Capital Budgets; Donors: National Government Departments	CEPA, Finance & Treasury/DPLLG/Prov. Govts/Donors/ Developing Partners/ NGOs	Number of sites identified; Level of budget allocations
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Goal No.5: Sustainable and equitable financing facility supports the Protected Area *Continued...*

Project/Activities	2018			2019			2020			2021			2022			2023			2024			2025			2026-2028		Cost K'000	Funding Source	Action Organization	Output Indicator
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	2026	2028				
4.1.1.2 Outline and define the scope for funding of Protected Areas and the Application Process																											50	Same as above	CEPA, Finance & Treasury/DPLLG/Prov. Govts/Donors/ Developing Partners/ NGOs	Application process clearly defined
4.1.1.3 Identify existing potential financing sources to kick-start the Trust Fund																											50	Same as above	Same as above	Existing potential financing sources identified
4.1.1.4 Conduct stakeholders consultation																											100	Same as above	Same as above	Consultation Reports
4.1.1.5 Develop the Governance and Management Structure of the Trust Fund, including the Benefit Sharing & Distribution System																											80	Same as above	CEPA State Solicitors Office, Department of Attorney General, First Legislative Council Departments of Treasury and Finance, BPNG	Governance and Management Structure established
4.1.1.6 Draft Biodiversity Trust Fund Bill																											100	Same as above	Same as above	Biodiversity Trust Fund Legislation drafted and submitted to NEC; Parliamentary Statement
4.1.1.7 Carry out stakeholder consultation on the draft Trust Fund Bill																											200	Same as above	Same as above	Number of consultations conducted; Consultation Reports
4.1.1.8 Present submissions together with Draft Bill and Drafting Instructions																											70	Same as above	CEPA, State Solicitors Office, Department of Attorney General	NEC Decision approving establishment of Biodiversity Trust Fund
4.1.1.9 1 Advertise and recruit competent personnel to manage the Trust Fund																											350	Same as above	Same as above	Governance and Management Structure (Independent Board/ CEPA board) of the Trust Fund is set up and operational



Goal No.5: Sustainable and equitable financing facility supports the Protected Area Continued...

Project/Activities	2018				2019				2020				2021				2022				2023				2024				2025				2026-2028	Cost K'000	Funding Source	Action Organization	Output Indicator
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4					
6.1.1.4 Identify opportunities for NGOs, CSOs and private sector in policy discussion on PA management and sustainable resources use																														170	Same as above	Same as above	Level of participation from NGOs, CBOs and Private sector in policy discussions				
6.1.1.5 Review and update training handbook on PA management strategy																														85	Same as above	Same as above	PA Management Plan reviewed (meeting minutes/reports/etc)				
6.1.1.6 Identify potential employment opportunities in the target community and develop action plan																														250	Same as above	CEPA, Prov. Govts, LLGs, NGOs, Industries & others	Number of potential employment opportunities identified and documented				
6.1.1.7 Recruit and train project beneficiaries as Conservation Wardens (Porters/guides) and Community Liaison Officers																														400	Same as above	Same as above	Number of project beneficiaries trained and working as Conservation Wardens and Community Liaison Officers				
6.1.1.8 Engage competent consultants or service providers to train PA/ project beneficiaries identified above																														200	Same as above	Same as above	Number of competent consultants or service providers conducting training				
6.1.1.9 Conduct baseline study to assess viability of potential socio-economic activities in the project/PA site																														140	Same as above	CEPA, Department of National Planning, Dept of Agriculture & Livestock, TPA, NFA, PNGFA Development Partners NGOs, PA Communities	Baseline study completed; Number of potential socio-economic activities identified as viable				



6.1.1.10 Identify and document potential community projects in the target community and develop their project proposals (for example, eaglewood, crocodile farming, eco-tourism, carving, fish farming, poultry, etc)	100	Same as above	Same as above	Number of potential community projects identified and their project proposals developed
6.1.1.11 Submit and secure funding from potential sponsors for various project proposals	100	Same as above	Same as above	Level of funding secured from number of potential sponsors
6.1.1.12 Access funding and implement project activities	700	Same as above	Same as above	Proportion of funding accessed and expanded on project activities
6.1.1.13 Monitor and report on progress of project activities	300	Same as above	Same as above	Frequency of monitoring activities; Progress of implementation project activities
6.1.1.14 Carry out inventory on options for self - reliant livelihood projects	150	Same as above	CEPA, Provincial Govt, District Authority, LLG, NGOS, Industry (e.g. NBPOL)	Inventory Report
6.1.1.15 Identify market options and implement self - reliant livelihood projects	350	Same as above	CEPA, Provincial Govt, District Authority, LLG, NGOS, Industry (e.g. NBPOL)	Number of Markets identified and types of livelihood projects implemented
6.1.1.16 Identify and document external financial resources to be accessed by project beneficiaries	100	Same as above	CEPA; UPNG,PAU, Binatang Research Institute, SPREP, National &International Consultants, Development Partners, NGOs	Number of external financial resources identified and documented
6.1.1.17 Provide assistance to project beneficiaries to develop project proposals to access external financial resources	150	Same as above	Same as above	Level of assistance provided to beneficiaries; Number of proposals finalized and submitted for potential funding

Goal No.5: Sustainable and equitable financing facility supports the Protected Area *Continued...*

Project/Activities	2018				2019				2020				2021				2022				2023				2024				2025				2026-2028		Cost K'000	Funding Source	Action	Output Indicator																	
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2					3	4	1	2	3	4											
6.1.1.18 Secure micro-financing opportunities for community members within PAs																																					500	Same as above	Same as above	Level of micro-financing opportunities secured; Number of community members benefiting from these opportunities															
6.1.1.19 Conduct training in financial management for interested members of communities																																					300	Same as above	Same as above	Number of trainings conducted; Number of community members benefiting from this training															
Sub-Total:																												3,895																											
7. Develop and implement collaborative research programs involving non-government organizations, industry, education sector and customary landowners																																																							
7.1.1.1 Establish a good communication network with permit issuing authorities (CEPA, NRI, Provincial Authorities)																																					500	CEPA, UPNG, PAU Binatang Research Institute, SPREP, National & International Consultants, NGOs & Industry	CEPA, UPNG, PAU Binatang Research Institute, SPREP, National & International Consultants, NGOs & Industry	Communication network developed															
7.1.1.2 Develop collaborative research programs Agreements (MoU/MoA)																																					100	Same as above	Same as above	Number of MoU/MoA binding agreements															
7.1.1.3 Advertise and secure research opportunities to interested research institutions																																					300	Same as above	Same as above	Number and types of research opportunities advertised and secured															
7.1.1.4 Engage interested research institutions to undertake research in PAs																																					500	Same as above	Same as above	Number of research institutions expressing interest and engaged															
7.1.1.5 Advertise PA inventory tasks and contract competent consultant to review and update PAs in PNG																																					100	Same as above	Same as above	PA inventory reviewed and updated															
Sub-Total:																												1,500																											

8. Improved understanding of Traditional Ecological knowledge and sustainable cultural uses and practices and the incorporation of this knowledge into Protected Area planning and management

8.1.1.1 Engage experts to conduct traditional knowledge and practices studies in target communities/PAs	250	CEPA Operations/Capital Budgets; Donors; National Government Departments	CEPA, UPNG, PAU, Binatang Research Institute, SPREP, National & international Consultants, NGOs and Industry	Number of studies conducted in number of communities; Available Report on comprehensive ecological studies
8.1.1.2 Document traditional ecological knowledge and sustainable cultural uses	200	Same as above	Same as above	Number of documents featuring traditional ecological knowledge and sustainable cultural uses
8.1.1.3 Advertise for publication companies/consultants to research and publish research documents	130	Same as above	Same as above	Number of publication companies/consultants expressing interest; Number of publications containing traditional ecological knowledge and sustainable cultural uses
8.1.1.4 Conduct community participatory and awareness for traditional ecological and cultural practices	200	Same as above	Same as above	Number of community participatory and awareness conducted
8.1.1.5 Develop management plans in consultation with local communities and LLGs/District representatives	300	Same as above	Same as above	Number of consultations conducted with local communities and LLGs/District representatives
8.1.1.6 Assist local communities/PA beneficiaries to develop Management Plans	300	Same as above	Same as above	Number of management plans developed, endorsed and funded; Number of projects funded from the Management Plans
Sub-Total:				1,380
<b>Grand Total:</b>				<b>10,515</b>

## MONITORING AND EVALUATION FRAMEWORK

**Goal No. 5:** Sustainable and equitable financing facility supports the Protected Area Network and established Protected Areas

**Program:** Sustainable and Equitable Financing Facility

### Objectives:

1. To establish a Biodiversity Trust Fund to support the establishment and management of Protected Areas across PNG
2. To ensure a sustainable and equitable funding mechanism is established to support the PNG Protected Areas
3. To ensure all Development Plans and Annual Budgets capture requirements of Protected Areas
4. To promote and encourage alternative sources of income generation for the land owners within PAs

Projects / Activities	Targets	Time Frame	Appropriation	Expenditure to date	Current Status	Comments / Recommendations
1.1.1.1 Identify sites of global significance to sell to donors etc.	1.1 Biodiversity Trust Fund consultations initiated by 2018	2018				
1.1.1.2 Allocate PA into categories e.g. global, national and local significance etc, and identify PAs that require funding		2018				
1.1.1.3 Allocate sustainable financing to local Protected Areas		2018				
1.1.1.4 Initiate Stakeholder consultations (donor, developing partners and Philanthropy Organizations)		2018				
		Sub Total:				
1.1.2.1 Draft and submit NEC Submissions together with Draft Bill and Drafting Instructions	1.1.2 Biodiversity Trust Fund Bill submitted to NEC by September 2018	2018				
		Sub Total:				
1.1.3.1 Present submissions to Parliament	1.1.3 Trust Fund Bill goes to Parliament for approval by November 2018	2018				
		Sub Total:				

1.1.4.1 Develop the Governance and Management Structure	1.1.4 Biodiversity Trust Fund established and operational by 2019	2018 - 2019				
1.1.4.2 Establish a Secretariat as an interim arrangement to establish permanent management and governance structure for the Trust Fund	1.1.4 Biodiversity Trust Fund established and operational by 2019.. Continue..	2018 - 2019				
1.1.4.3 Develop structure of the Trust Fund		2018 - 2019				
1.1.4.4 Advertise and recruit competent personnel to manage the Trust Fund/ independent Body		2018 - 2019				
1.1.4.5 Operationalize the Biodiversity Trust Fund		2018 - 2019				
		Sub Total:				
1.2.1.1 Operationalize Small Grant facility	1.2.1 20% increase in Small Grants funding directly to local PA communities by 2019	2018 - 2019				
		Sub Total:				
1.3.1.1 Develop database to capture all financing options and assess their viability	1.3.1 20 % increase in the number of financing options currently available by 2019	2018 - 2019				
1.3.1.2 Incorporate requirements of Protected Areas into annual budgets		2018 - 2019				
		Sub Total:				
1.1.7.1 Initiate consultations with UNDP/ GEF	1.3.2 Carbon Trading Funding to be assessed by 2019	2018 - 2019				
		Sub Total:				
1.3.3.1 Commence consultations with relevant industries and entities	1.3.3 Environmental levies collected by 2018	2018				
1.3.3.2 Develop draft trust instrument on how funds will be dispersed		2018				
		Sub Total:				

**GOAL NO. 5: Sustainable and equitable financing facility supports the Protected Area Network and established Protected Areas. Continued...**

Projects / Activities	Targets	Time Frame	Appropriation	Expenditure to date	Current Status	Comments / Recommendations
2.1.1.1 Incorporate requirements of the management of Protected Areas and PA Network into annual budgets	2.1.1 Biodiversity Trust Fund consultations initiated by 2018	2018				
2.1.1.2 Outline and define the scope for funding of Protected Areas and the Application Process		2018				
2.1.1.3 Identify existing potential financing sources to kick-start the Trust Fund		2018				
2.1.1.4 Conduct stakeholders' consultation		2018				
2.1.1.5 Develop the Governance and Management Structure of the Trust Fund, including the Benefit Sharing & Distribution System		2018				
Sub Total:						
2.1.2.1 Draft Biodiversity Trust Fund Bill	2.1.2 Biodiversity Trust Fund Bill presented to cabinet by June 2018	2018				
2.1.2.2 Carry out stakeholder consultation on the draft Trust Fund Bill						
Sub Total:						
2.1.3.1 Present submissions together with Draft Bill and Drafting Instructions	2.1.3 NEC approval of Trust Fund Bill by August 2018	2018				
Sub Total:						
2.1.4.1 Advertise and recruit competent personnel to manage the Trust Fund	2.1.4 Biodiversity Trust Fund established by 2019	2018 - 2019				
2.1.4.2 operationalize the Biodiversity Trust Fund		2018 - 2019				
Sub Total:						
3.1.1.1 Facilitate to ensure that PA Bill captures and makes it mandatory for Provincial and District Authorities to incorporate requirements of Protected Areas into their development plans	3.1.1 All development plans to factor in the requirements of Protected Areas by 2019	2018 - 2019				
Sub Total:						

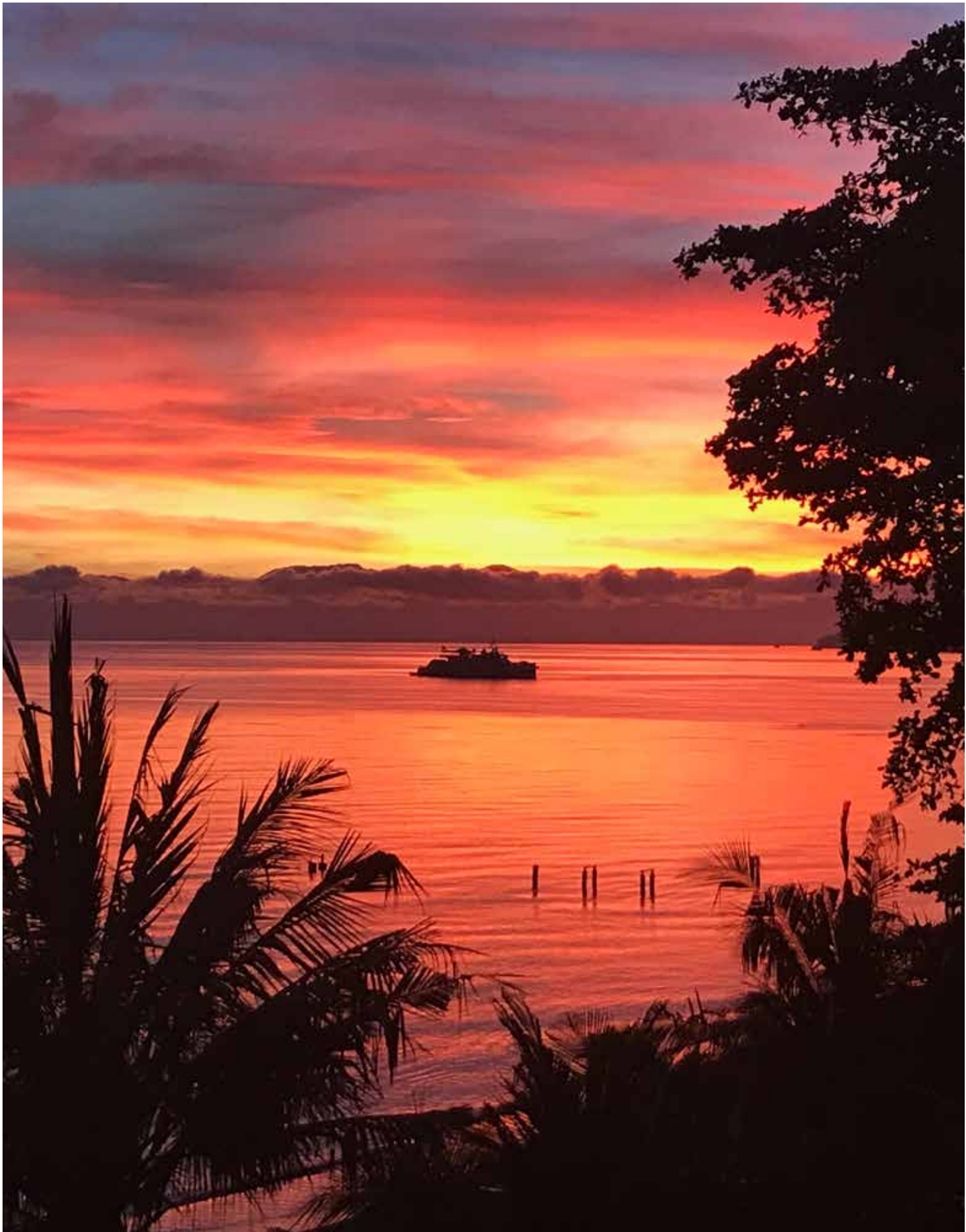
3.1.2.1 Conduct awareness on the significance of Protected Areas and their required funding	3.1.2 All budgets at national and sub-national levels to include appropriations for Protected Areas by 2019.	2018 - 2019				
		Sub Total:				
4.1.1.1 Conduct training needs assessment of target groups and financial beneficiaries	4.1.1 One hundred and twenty (120) awareness activities and trainings conducted in 60 PAs by 2019.	2018 - 2019				
4.1.1.2 Conduct training for project stakeholders on PA management approaches, identifying values and threats and develop action plans		2018 - 2019				
4.1.1.3 Assist DDAs to solicit funding from provincial and national governments to implement the plan		2018 - 2019				
4.1.1.4 Identify opportunities for NGOs, CSOs and private sector in policy discussion on PA management and sustainable resources use		2018 - 2019				
4.1.1.5 Review and update training handbook on PA management strategy		2018 - 2019				
		Sub Total:				
4.1.2.1 Identify potential employment opportunities in the target community and develop action plan	4.1.2 One hundred and twenty (120) alternate employment opportunities identified and trialed in 60 communities by 2021.	2018 - 2021				
4.1.2.2 Recruit and train project beneficiaries as Conservation Wardens (Porters/guides) and Community Liaison Officers		2018 - 2021				
4.1.2.3 Engage competent consultants or service providers to train PA/ project beneficiaries identified above		2018 - 2021				
		Sub Total:				

GOAL NO. 5: Sustainable and equitable financing facility supports the Protected Area Network and established Protected Areas. Continued...

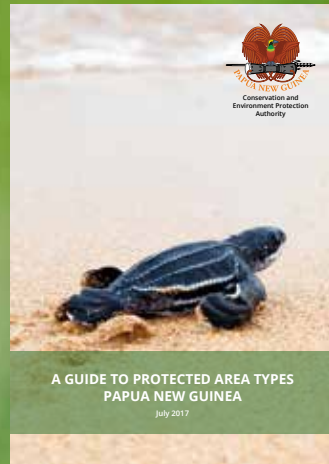
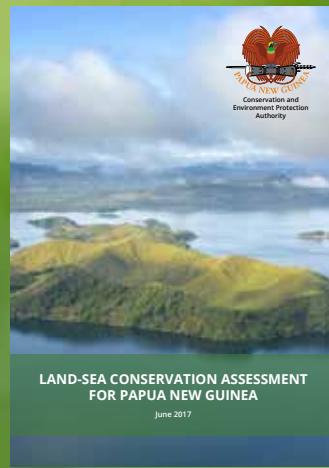
Projects / Activities	Targets	Time Frame	Appropriation	Expenditure to date	Current Status	Comments / Recommendations
4.1.3.1 Conduct baseline study to assess viability of potential socio-economic activities in the project/PA site	4.1.3 One hundred and twenty (120) community projects implemented in 60 locations by 2021	2018 - 2021				
4.1.3.2 Identify and document potential community projects in the target community and develop their project proposals (for example, eaglewood, crocodile farming, eco-tourism, carving, fish farming, poultry, etc)		2018 - 2021				
4.1.3.3 Submit and secure funding from potential sponsors for various project proposals		2018 - 2021				
4.1.3.4 Access funding and implement project activities		2018 - 2021				
4.1.3.5 Monitor and report on progress of project activities		2018 - 2021				
		Sub Total:				
4.1.4.1 Carry out inventory on options for self - reliant livelihood projects	4.1.4 One hundred and twenty (120) communities' self - reliant projects identified and implemented in 60 locations by 2021.	2018 - 2021				
4.1.4.2 Identify market options and implement self - reliant livelihood projects		2018 - 2021				
		Sub Total:				
4.1.5.1 Identify and document external financial resources to be accessed by project beneficiaries	4.1.5 Increase in the proportion of external financial resources accessed by 60 PAs.	2018 - 2028				
4.1.5.2 Provide assistance to project beneficiaries to develop project proposals to access external financial resources		2018 - 2028				
4.1.5.3 Secure micro-financing opportunities for community members within PAs		2018 - 2028				
4.1.5.4 Conduct training in financial management for interested members of communities		2018 - 2028				
		Sub Total:				



4.2.1.1 Establish a good communication network with permit issuing authorities (CEPA, NRI, Provincial Authorities)	4.2.1 One hundred and twenty (120) collaborative research activities conducted in 60 PAs by 2021.	2018 - 2021				
4.2.1.2 Develop collaborative research programs Agreements (MoU/MoA)		2018 - 2021				
4.2.1.3 Advertise and secure research opportunities to interested research institutions		2018 - 2021				
4.2.1.4 Engage interested research institutions to undertake research in PAs		2018 - 2021				
4.2.1.5 Advertise PA inventory tasks and contract competent consultant to review and update PAs in PNG		2018 - 2021				
		Sub Total:				
4.3.1.1 Engage experts to conduct traditional knowledge and practices studies in target communities/PAs	4.3.1 Traditional knowledge and sustainable cultural uses documented for 60 PAs by 2024.	2018 - 2024				
4.3.1.2 Document traditional ecological knowledge and sustainable cultural uses		2018 - 2024				
4.3.1.3 Advertise for publication companies/consultants to research and publish research documents		2018 - 2024				
		Sub Total:				
4.3.2.1 Conduct community participatory and awareness for traditional ecological and cultural practices	4.3.2 Traditional ecological & sustainable cultural practice based protected area planning/management implemented in 60 PAs by 2025	2018 - 2025				
4.3.2.2 Develop management plans in consultation with local communities and LLGs/District representatives		2018 - 2025				
4.3.2.3 Assist local communities/PA beneficiaries to develop Management Plans		2018 - 2025				
		Sub Total:				
		<b>Grand Total:</b>				



*PNG's natural beauty (pictured in New Ireland Province) offers many ecotourism opportunities © Alice Plate/ UNDP*



This publication is a part of a set of knowledge products, supported by PNG Government through the Conservation and Environment Protection Authority in partnership with UNDP's Global Environment Facility program. The set can be downloaded in the 'Research and Publication' section at [www.pg.undp.org](http://www.pg.undp.org)

**Acknowledgements:** Published in May, 2018, the compilation and design of this suite of publications was managed by Alice Plate, Nicola Gage and Rosalinda Mercuri for UNDP PNG with input and much welcomed assistance from the publication authors and Conservation and Protection Authority (CEPA) staff. Graphic design by Dreamedia Creative.

