

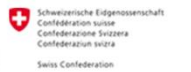
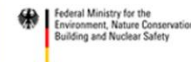


# Financing the Philippine Biodiversity Strategy and Action Plan 2015-2028

Anabelle E. Plantilla  
National Coordinator, BIOFIN

# Presentation Outline:

- Background
- What is BIOFIN?
- Finance solutions for the Philippine Biodiversity Strategy and Action Plan



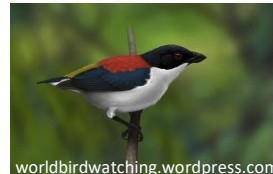


# Mega – BIO Diverse

The Philippines is one of the 17 mega-diverse countries when it comes to variety of ecosystems, species and genetic resources.

Hosts more than 52,177 described species of which more than half is found nowhere else in the world (50% endemism).

- 220 M ha. of territorial waters including Exclusive Economic Zone
- 7,100+ islands with a land area of 30 M ha
- Population of 100M; poverty rate of 21.6% (Phil Dev't Plan 2016-2022)
- 6.3% average GDP growth rate in the last 7 years



# Philippine Biodiversity

The Philippines is a biodiversity powerhouse, containing some of the world's most unique and varied assemblage of species. The country has 228 recognized key biodiversity areas (KBA), which are home to 855 globally important species of plants, corals, molluscs, elasmobranchs, fishes, amphibians, reptiles, birds and mammals. It is also one of the most important centers of amphibian and reptile diversity in Southeast Asia, and the discoveries keep on coming. From 2005 to 2012, 151 new species of birds, mammals, reptiles, amphibians and plants were discovered in the Philippines.

The benefits and services that biodiversity provides cannot be overemphasized. The country's population of 100 million—projected to reach 125 million by 2030—depend on this biodiversity in a variety of ways, many of which we have not even been able to fully calculate or appreciate.

## Philippine Ecosystem and Biodiversity Values

Ecosystem Service	Php Billion
Timber & fuelwood production	1.1
Water provision	50.9
Ecotourism	157.0
Carbon offset	453.0
Flood prevention	41.0
Soil erosion	10.0
Fishery production	111.0
Crop production	1,416.0
Coral reef	62.1
Mangrove	7.4
<b>Total:</b>	<b>2,309.5</b>

Source: Compiled by the Biodiversity Finance Initiative (BIOFIN)







**Philippine Biodiversity Strategy and Action Plan**  
**2015-2028**  
*Bringing Resilience to Filipino Communities*  
*Abridged Edition*



Republic of the Philippines  
**Department of Environment and Natural Resources**  
 Visayas Avenue, Diliman, Quezon City  
 Tel Nos. (632) 929-6626 to 29 / (632) 929-6652  
 929-6620 / 929-6633 to 35  
 929-7041 to 43

DENR ADMINISTRATIVE ORDER  
 No. 2016 - 12

JUN 13 2016

**SUBJECT : ADOPTING THE PHILIPPINE BIODIVERSITY STRATEGY AND ACTION PLAN (PBSAP) 2015-2028**

Pursuant to Article II, Section 16 of the Constitution, which provides that the State shall protect and advance the right of the people to a balanced and healthful ecology in accord with the rhythm and harmony of nature; Presidential Memorandum Order No. 289 of 1995 "Directing the Integration of the Philippines' Strategy for Biological Diversity Conservation in the Sectoral Plans, Programs, and Projects of the National Government Agencies and the Operationalization of the Objectives of Sustainable Biological Diversity Resource Management and the Development as Embodied in the Strategy"; Executive Order 578 of 2006 "Establishing the National Policy on Biological Diversity, Prescribing its Implementation throughout the Country, Particularly in the Sulu Sulawesi Marine Ecosystem and the Verde Island Passage Marine Corridor" (8 November 2006), specifically Sections 1 and 2; and in support to the attainment of Sustainable Development Goals which balances the economic, social and environmental dimensions of sustainable development, the Philippine Biodiversity Strategy and Action Plan (PBSAP) 2015-2028, attached hereto as Annex A, is hereby adopted.

The Biodiversity Management Bureau (BMB) is hereby authorized to coordinate the implementation and mainstreaming of the PBSAP with the plans and programs of concerned national government agencies and local government units, including government-owned and controlled corporations and government financial institutions, and state universities and colleges.

All Department Orders, Circulars and other issuances inconsistent herewith are hereby amended, repealed or modified accordingly.

This Order shall take effect immediately.

*Ramon J. Paje*  
 Secretary



Republic of the Philippines  
**Department of Environment and Natural Resources**  
 Visayas Avenue, Diliman, Quezon City  
 Tel Nos. 929-6626 to 29; 929-6633 to 35  
 929-7041 to 43; 929-6252; 929-1688  
 Website: <http://www.denr.gov.ph> E-mail: [web@denr.gov.ph](mailto:web@denr.gov.ph)

MEMORANDUM CIRCULAR  
 NO. 2016- 295

NOV 28 2016

**SUBJECT : INTEGRATION OF BIODIVERSITY IN THE PLANNING, IMPLEMENTATION AND MONITORING OF DEVELOPMENT PROJECTS AND TENURIAL INSTRUMENTS ISSUED BY THE DENR**

Pursuant to Section 25 of the General Appropriations Act of 2016, Executive Order No. 578 on the implementation of the state policy on biological diversity and in support of DENR Administrative Order 2016-12 adopting the Philippine Biodiversity Strategy and Action Plan (2015-2018), the integration of biodiversity conservation in the planning, implementation and monitoring of all infrastructure and resource extractive development programs and projects of the DENR, including the implementation of various tenurial instruments issued by the department, is hereby directed.

All DENR Offices shall ensure that biodiversity conservation is considered in the planning and implementation of various programs and projects, and in the issuance of tenurial instruments.

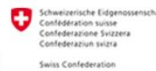
In addition to this, the BMB is authorized to create a team composed of multi-thematic biodiversity experts who shall participate in the mining audits, EIA review, performance evaluation of tenurial instruments issued by the DENR and other similar matters.

This circular shall take effect immediately.

*Regina Paz L. Lopez*  
 Secretary



Let's Go Green !!!





## Aichi Biodiversity Targets

### Goal A: Address causes

- Target 1 Awareness
- Target 2 Mainstreaming
- Target 3 Harmful incentives
- Target 4 Sustainability plans

### Goal B: Reduce pressures

- Target 5 Loss of natural habitats
- Target 6 Overfishing
- Target 7 Sustainable management
- Target 8 Pollution
- Target 9 Invasive alien species
- Target 10 Climate change

### Goal C: Improve status

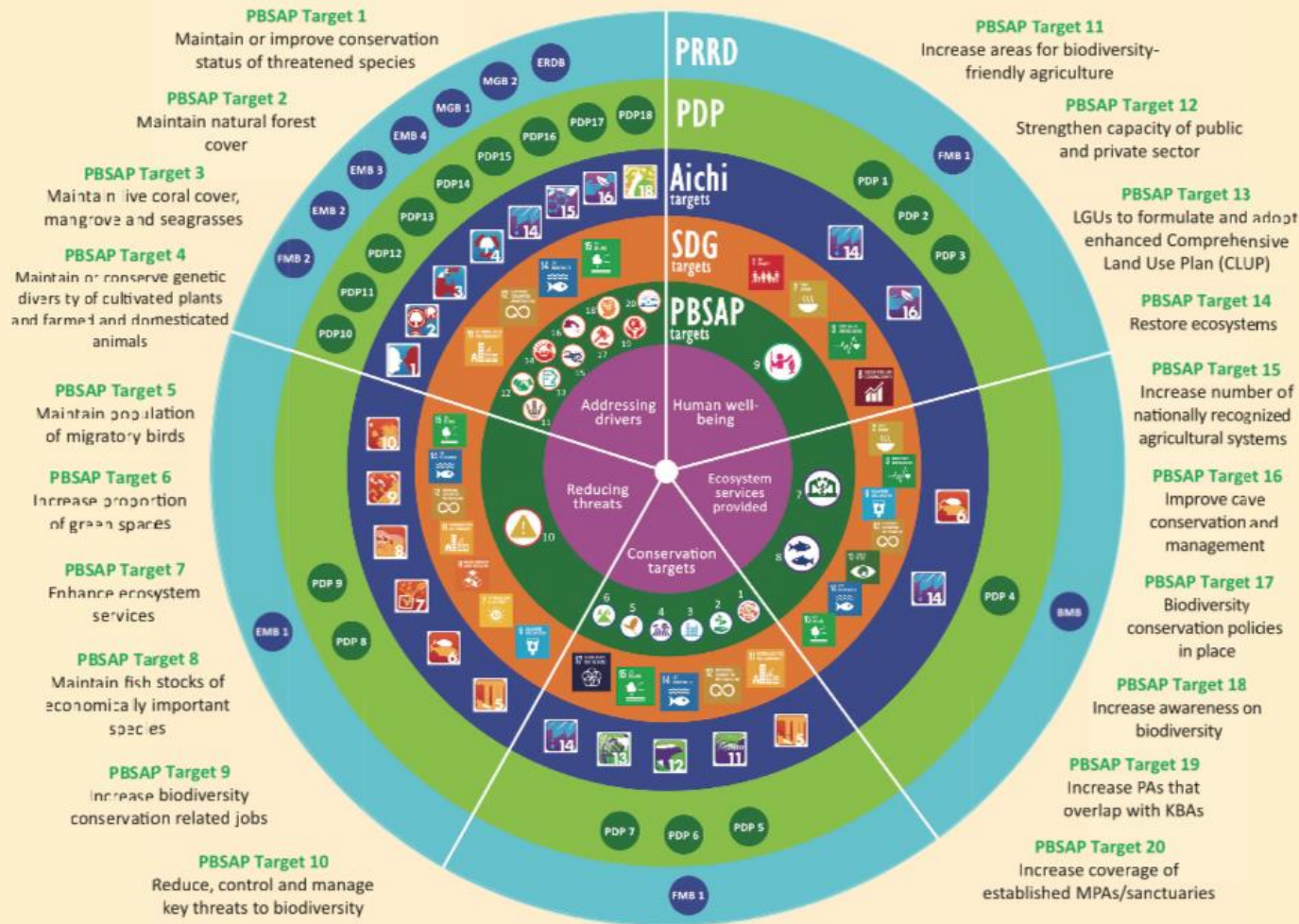
- Target 11 Protected areas
- Target 12 Threatened species
- Target 13 Genetic diversity

### Goal D: Enhance benefits

- Target 14 Ecosystems services
- Target 15 Restoration & carbon stocks
- Target 16 Nagoya Protocol

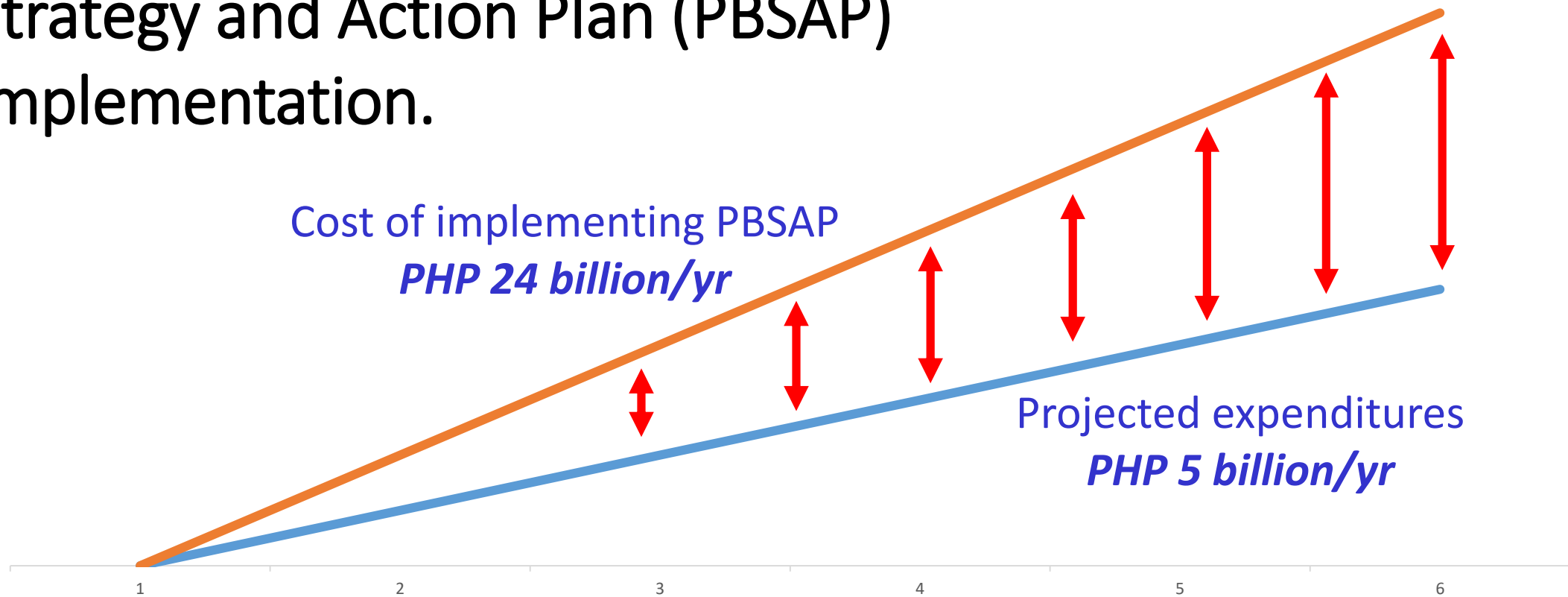
### Goal E: Improve implementation

- Target 17 NBSAPs
- Target 18 Traditional knowledge
- Target 19 Science base
- Target 20 Financial resources



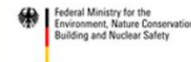
PBSAP targets	PDP Chapter 20 indicators relevant to PBSAP	DEMR's PRRD (proposed actions to be undertaken)
Human well-being	PDP 1 Employment for ecotourism and sustainable resource-based industries increased PDP 2 Number of biodiversity-friendly enterprises recognized increased** PDP 3 Number of jobs generated from reforestation and non-timber/agroforestry enterprises increased	FMB 1 (proposed actions to be undertaken)
Ecosystem services provided	PDP 4 No. of Major River Basins (RB) with Comprehensive Water Assessment increased	BMB Promotion of Ecotourism - BMB
Conservation targets	PDP 5 Increase forest cover PDP 6 Decrease area of denuded and degraded forestland PDP 7 Increase area planted with mangroves	FMB 1 Enhanced NBP implementation - FMB
Reducing threats	PDP 8 Number of groundwater critical areas with management plan and monitoring wells established PDP 9 Percentage of priority water bodies within water quality guidelines increased	EMB 1 Solid Waste Management Act implementation - EMB
Addressing drivers	PDP 10 Increase area of forestland under effective management PDP 11 Improve quality of coastal and marine habitats PDP 12 Increase coverage of PAs in relation to marine PDP 13 Increase area of effectively managed terrestrial PAs with high biodiversity values PDP 14 Increase area of effectively managed priority inland wetlands PDP 15 Increase number of caves with high conservation value that are effectively managed PDP 16 Interim rehabilitation measures monitored and implemented in 4 abandoned mines increased PDP 17 Percentage of 36 surface metallic mines compliant with Annual EPER/CMF maintained PDP 18 Number of reviewed CC/DRMA-enhanced plans increased	FMB 2 Implementation of Forest Management programs - FMB EMB 2 Air and water emissions monitoring - EMB EMB 3 New technologies to minimize pollution - EMB EMB 4 Clean up on major rivers and its tributaries within Metro Manila - EMB MGB 1 Policies for sustainable mining - MGB MGB 2 Review MPSAs to comply with Environmental Protection law - MGB ERDB Development of Climate Change adaptation measures

There is an 80% financing gap for the Philippine Biodiversity Strategy and Action Plan (PBSAP) implementation.



# What is the Biodiversity Finance Initiative or BIOFIN?

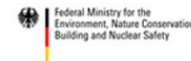
- Developed in response to the 10th Conference of the Parties (COP-10) of the Convention on Biological Diversity (CBD) which identified the need for better information on current expenditures and financing needs, and for a comprehensive methodology to develop resource mobilization strategies





# Goals of BIOFIN

- Develop and pilot a new approach and methodology to fill the financing gap for biodiversity
- Support CBD parties in reporting on resource mobilization (Financial Reporting Framework);
- Assist countries to better mobilize and align domestic and international finance for biodiversity, including implementation of national biodiversity strategy & action plans and to achieve sustainable development goals





# BIOFIN Countries

**31**  
countries



 GIZ implementation of BIOFIN



# BIOFIN Methodology

Policy &  
Institutional  
Review  
(2014)

Public & Private  
Expenditure  
Review  
(2014-2015)

Finance Needs  
Assessment  
(2014-2015)

Finance Plan  
(2016-2017)

Implementation  
of the Finance  
Plan (2018-2022)





# Finance Solutions

- Mobilizing further resources
- Realigning existing resources
- Preventing future costs
- Improving delivery of existing finance



# Finance Solutions

## Increased financing from national government

- Investment program for PAs
- Year of the PAs campaign
- Biodiversity expenditure tagging in DENR, NGAs & SUCs
- Mainstreaming biodiversity within DENR regional offices and in LGUs
- Alignment of environmental trust funds with PBSAP
- Feasibility study for the creation of a new fund

## Empowering local governments to implement PBSAP by ensuring adequate & timely funding streams

- Increasing LGU revenues for locally managed protected areas/key biodiversity areas
- Improving access to earmarked funds (Peoples Survival Fund, ER 1-94)
- Development of an ecological index to support realignment of national budget to local governments

## Involving the citizenry

- Crowdfunding
- Diaspora

## Engaging the private sector

- Corporate social responsibility
- Public-private partnership
- Impact investment
- Revenues from gaming applications and peripherals

## Policy

- ENIPAS IRR
- Malampaya Fund
- Philippine Genetic Resources and Access and Benefit-Sharing
- Integrating biodiversity in mining activities
- Inclusion of human-wildlife conflicts in insurance
- Greening public infrastructure
- Water Bill

**Increased funding from the national government and  
national government agencies for biodiversity**



# Develop an investment program for protected areas sourced from national budget allocation



Mt. Iglit-Baco National Park, Mindoro



Mt. Kitanglad, Bukidnon

- All protected areas to receive sufficient funding from government budget for recurrent and capital expenses based on a long term management plan
- Target: PhP375M/year from 2020 - 2022

# “Year of the PAs” Campaign



Tubbataha Reef Marine Park, Palawan



Mt. Apo National Park, Davao

- Targets: 10% annual increase in visitors from 3M in 2017 from 2020– 2022  
5% annual increase in revenue from PhP37.2M in 2017 from 2020 - 2022



# Tagging expenditures at the Dept. of Environment & Natural Resources

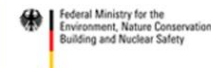


- Target: 16% of DENR budget tagged as biodiversity-related from 2019 - 2022



# Mainstreaming biodiversity in the regional programs of the DENR

- Align PBSAP targets in DENR regional programs
- Target: PhP2B/year from 2019 - 2022

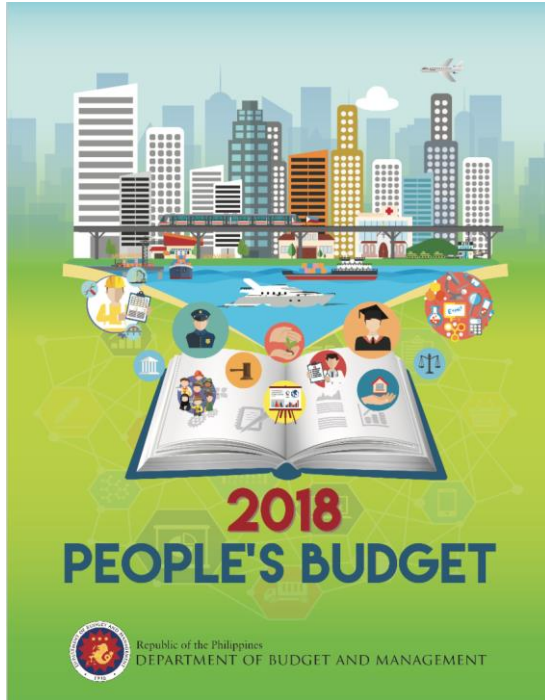


# Mainstreaming biodiversity in local government units

- Align LGU programs to PBSAP targets
- Pilot provinces are Cebu, Negros Oriental, Negros Occidental
- Pilot municipality is Sablayan, Occidental Mindoro
- Target: PhP200M/year from 2019 - 2022



# Policy support towards increased biodiversity funding among other national government agencies and state colleges and universities



## Sec. 40 of 2018 General Appropriations Act

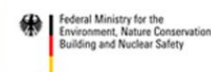
All agencies of the government shall ensure that protection of biological diversity is integrated and mainstreamed into their development programs and projects.

- Tag biodiversity expenditures
- Target: Additional PhP2B/year from 2019 - 2022



# Align environmental trust funds with PBSAP

- Seek better alignment between PBSAP priority actions with the grant criteria applied by the FFP and FPE (i.e. agrobiodiversity, urban biodiversity)
- Target: At least 5 PBSAP programs/projects implemented annually at PhP40M/year from 2019 - 2022



# Environmental trust funds: create a new fund or sub-fund

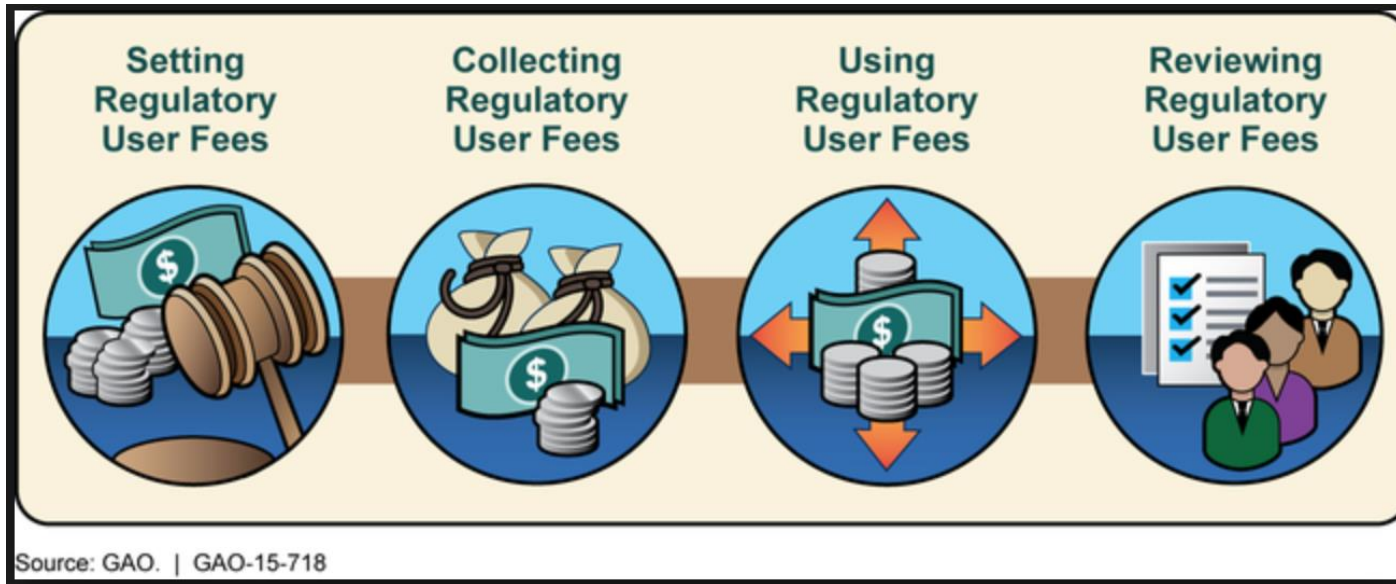


[MaxGrowth Capital](#)

Conduct a study to assess feasibility in creating a new biodiversity fund or sub-fund for revenues from PES, crowdfunding activities, sales of gaming apps and peripherals and government to be managed either by FPE, FFP or UNDP

**Empowering local governments to implement the  
PBSAP by ensuring adequate and timely funding  
streams**

# Increase LGU sources of revenues for locally managed protected/conservation areas

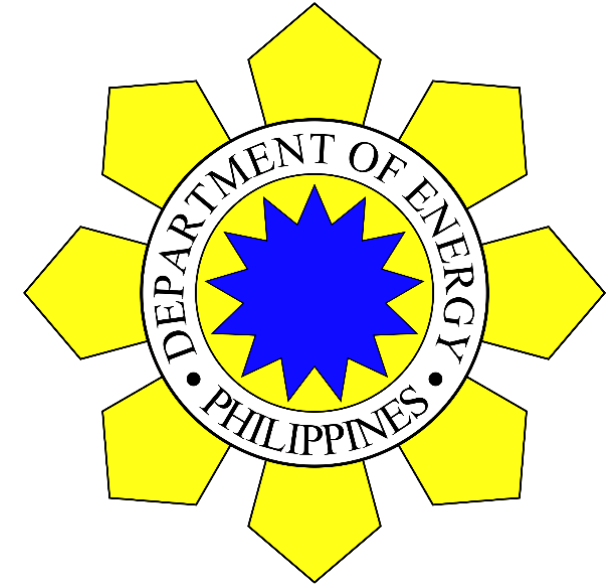


- Feasibility of an environmental fee system
- Target: PhP848M from 2020 - 2022



# Improving access to earmarked funds

- ER 1-94 requires the generation company and/or energy resource developer to set aside P0.01/kWh of the total electricity sales as financial benefits to host communities. It has trust accounts for Development & Livelihood Fund and Reforestation, Watershed Management, Health and/or Environmental Enhancement Fund
- Target: PhP65M/year from 2019 – 2021



# Ecological Fiscal Transfers

## Ecological fiscal transfers – Experiences

Portugal: since 2007, under investigation

Brazil: since 1992, has gained positive experiences with ecological fiscal transfers: ICMS-Ecológico \*

- Compensation for land-use restrictions
- Incentive to create and maintain protected areas



or commonly also called:  
Ecological value-added tax



Irene Ring: PES and EFT – Examples and perspectives

Page 12

- Development of an ecological index that will be the core of a policy on ecological fiscal transfers

**Solutions to involve the citizenry to contribute to  
PBSAP actions**



# Crowdfunding

## Thank you for donating to CEBU PACIFIC and WWF Bright Skies in the last 10 years!

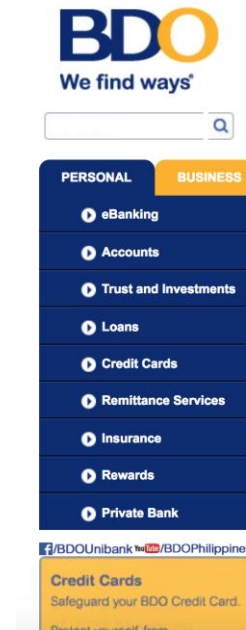
Thank you for taking part in this special initiative, the first in Asia, which collected over PHP33M for WWF Philippines' coastal resource management and climate change adaptation efforts.

All means of transportation produce carbon emissions, with air travel as a major contributor. Since the ocean is the biggest carbon sink, carbon emissions are therefore becoming a massive threat to the world's marine resources. As a way to curb the effects of climate change, Cebu Pacific started working with WWF-Philippines in 2008 to engage passengers in the protection of the Philippines' greatest reefs – the Tubbataha Reefs in the Sulu Sea and Apo Reef in Sablayan.

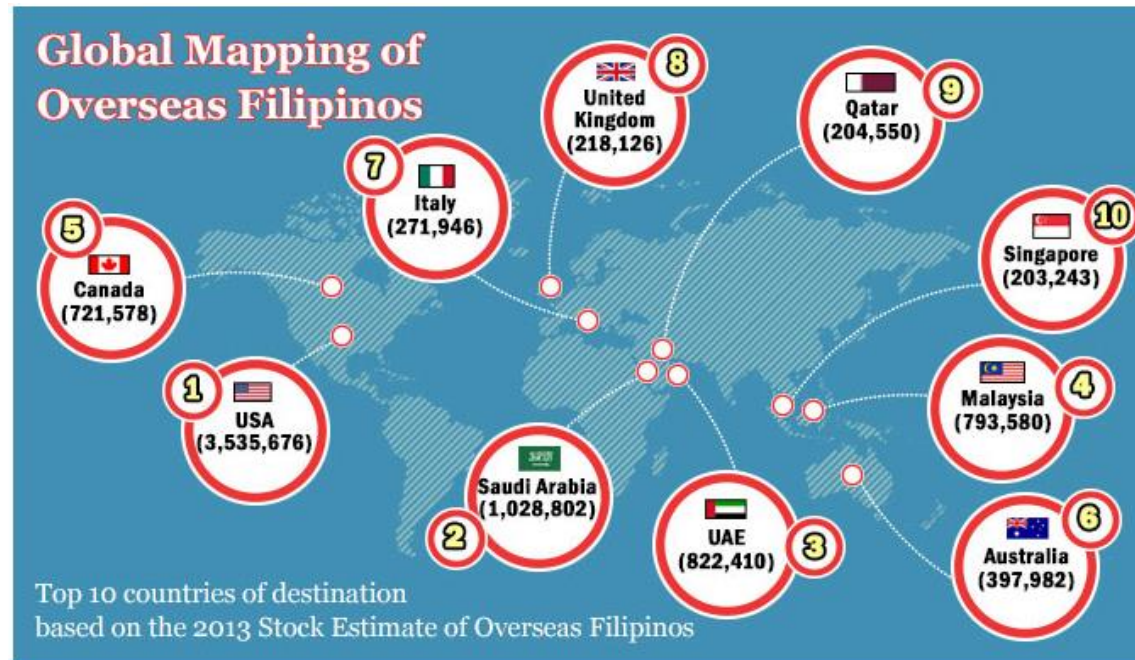
Through your help, the following initiatives were accomplished -



- Implementation of crowdfunding schemes
- Target: PhP30M from 2019 - 2022



# Diaspora



Source: <http://www.cfo.gov.ph/program-and-services/yearly-stock-estimation-of-overseas-filipinos.html>

- Collaborate with the Commission on Filipinos Overseas
- Implement campaigns in Mindoro, Negros and Cebu
- Explore partnerships with remittance centers for partnerships
- Target: PhP80M from 2019 to 2022

# **Solutions to engage the private sector to implement PBSAP**

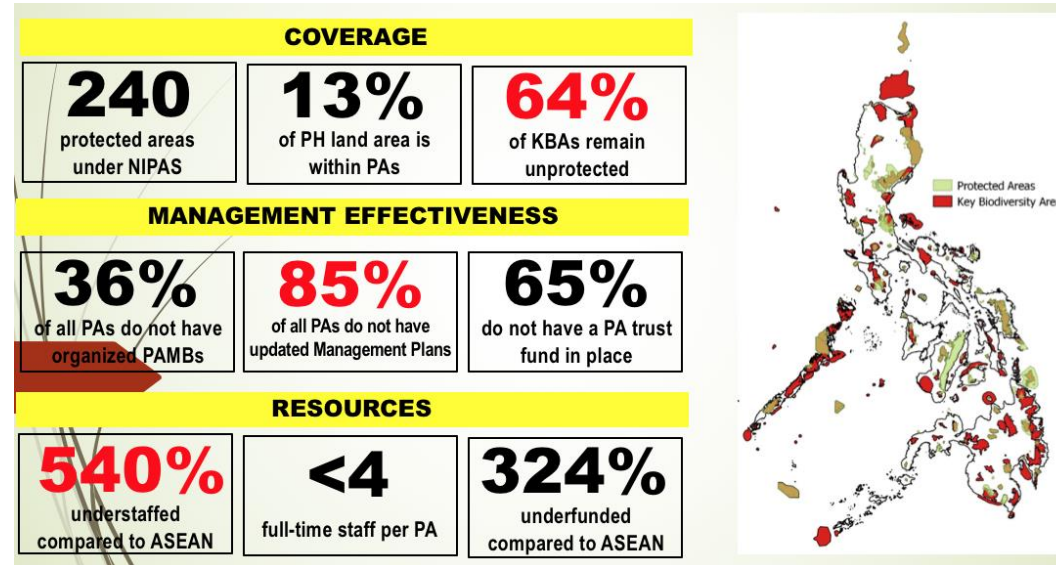


# Corporate social responsibility programs



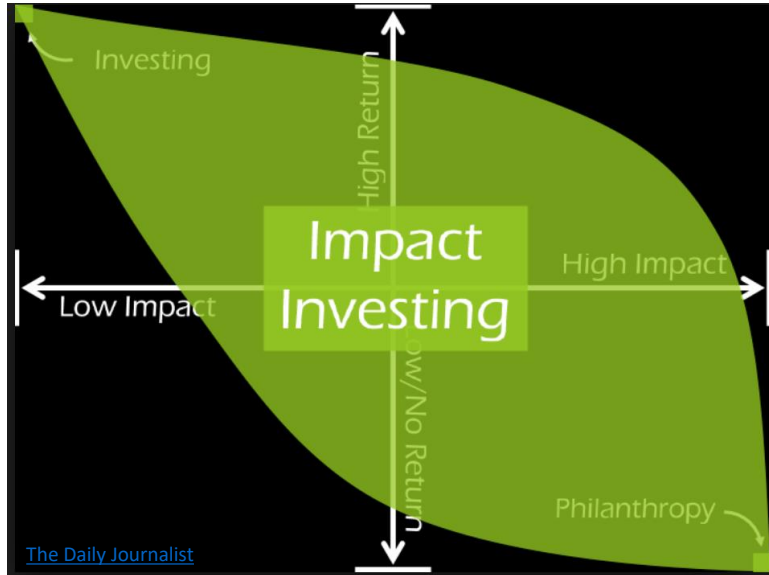
- Contributor to the five (5) PBSAP Priority Programs with actions focusing on aligning funds and forging strategic partnerships
- Target: PhP1B from 2019 to 2022 (resources mobilized & CSR initiatives branded as contributing to the PBSAP)

# Public-private partnership collaboration in the protected areas sector



- Policy to tap investments by the private sector in specific protected areas using the PPP modality
- Target: PhP1B by 2022

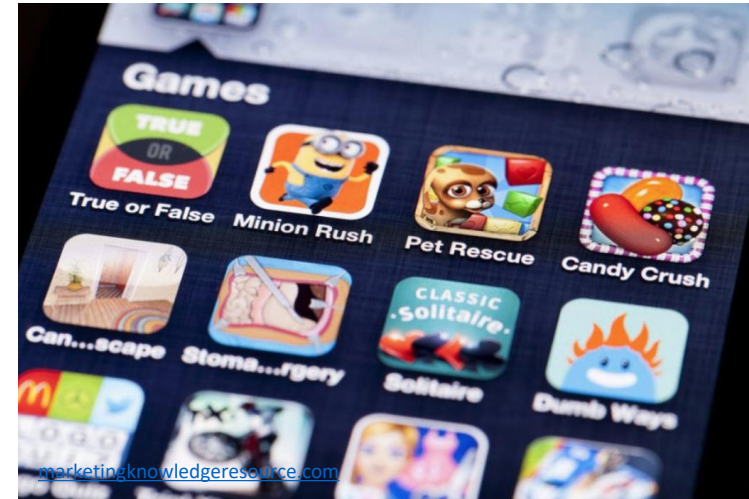
# Impact investment



- Provide capitalization for biodiversity businesses and social enterprises and prove that market/above-market return can be attained
- Target: Scoping study on potential of impact investment for biodiversity conservation



# Gaming applications



- 46 million users of mobile apps, 30.4 million gamers with 12.6 million spending an average of USD13 on games
- Target: PhP2B from 2019 to 2022



**Policy**

# Policy Proposals

- Unlocking the Malampaya Fund for biodiversity conservation & renewable energy
- Philippine Genetic Resources & Access and Benefit-sharing
- Development of IRR of Expanded National Integrated Protected Areas System Law



Nata de coco, patented by Japan



Ampalaya under Vitamin A-rich vegetable, patented by USA  
Ampalaya, mixed with eggplant as a cure of diabetes patented by Cromak Research, Inc. in New Jersey USA has started earning \$500 million (annually)



Philippine yew tree (Taxus sumatrana), a source of taxol - a cancer-curing substance has been patented by the University of Philadelphia

# Policy Proposals

- Draft DAO on integrating biodiversity in mining
- Inclusion of human-wildlife conflicts in crop insurance
- Greening public infrastructure
- Water bill



# **Overarching solutions**

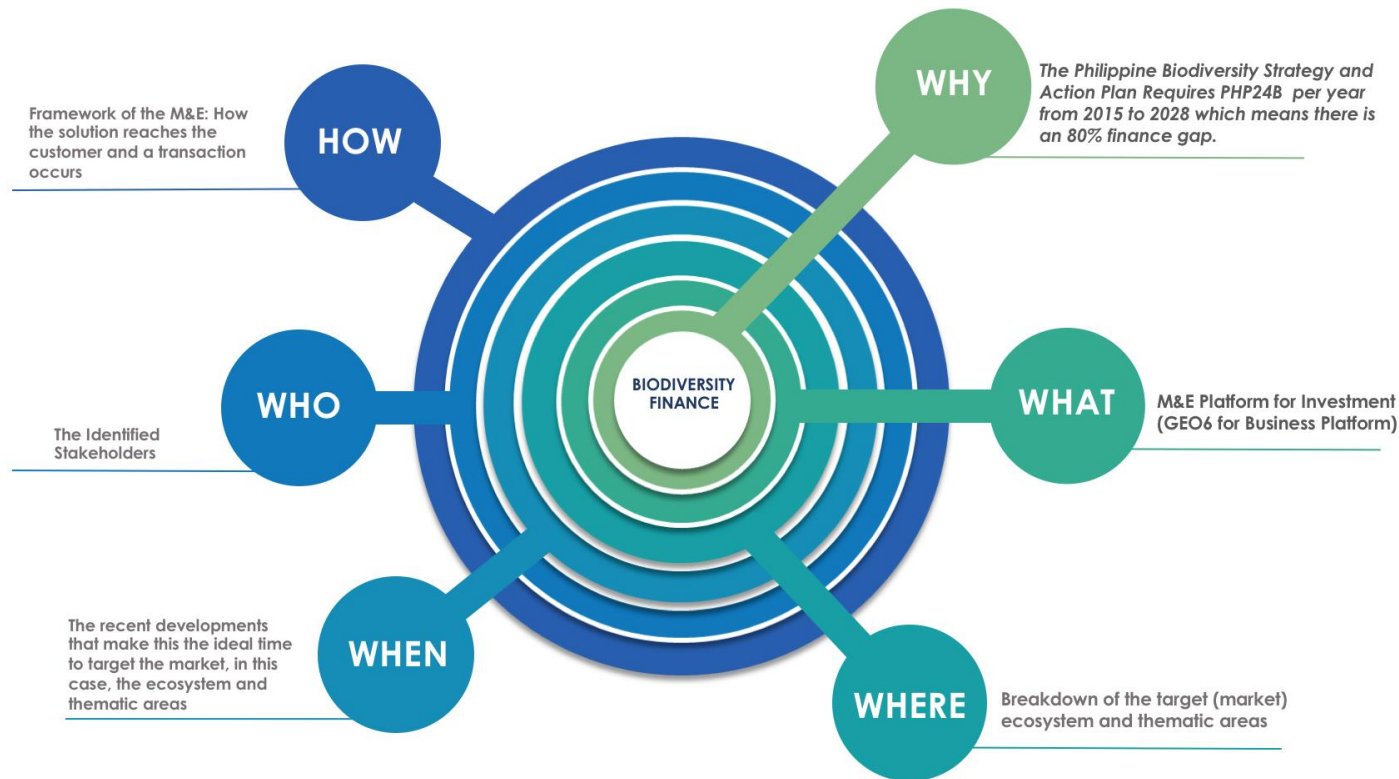


# Friends of PBSAP

A network of service providers consisting of civil society organizations, academe, and other professionals to provide technical assistance to local government units in coordination with relevant regional offices of national agencies



# M&E System



- Online platform that will enable FOP and other partners to provide real time reporting and enable linkages between this plan to the PBSAP, the larger Philippine Development Plan, and CBD reporting
- Investment platform

# Finance Targets

Finance Solution	2019	2020	2021	2022	Total
PA Investment Program	375,000,000	375,000,000	375,000,000	375,000,000	1,500,000,000
Year of the PAs	0	38,850,000	40,792,500	42,832,125	122,474,625
DENR BD expenditure tagging	2,320,000,000	2,320,000,000	2,320,000,000	2,320,000,000	9,280,000,000
Mainstreaming BD in DENR regional programs	2,000,000,000	2,000,000,000	2,000,000,000	2,000,000,000	8,000,000,000
Mainstreaming BD in LGUs	200,000,000	200,000,000	200,000,000	200,000,000	800,000,000
Mainstreaming BD in other NGAs & SUCs	2,000,000,000	2,000,000,000	2,000,000,000	2,000,000,000	8,000,000,000
Alignment with trust funds	40,000,000	40,000,000	40,000,000	40,000,000	160,000,000



# Finance Targets

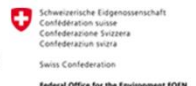
Finance Solution	2019	2020	2021	2022	Total
Study on new conservation fund	No target	No target	No target	No target	0
Increasing LGU resources	0	224,000,000	224,000,000	224,000,000	672,000,000
ER 1-94	65,000,000	65,000,000	65,000,000	0	195,000,000
Malampaya Fund	0	0	0	0	0
Ecological index	0	0	0	0	0
Crowdfunding	5,000,000	10,000,000	10,000,000	5,000,000	30,000,000
Diaspora		20,000,000	30,000,000	30,000,000	80,000,000
CSR	100,000,000	300,000,000	300,000,000	300,000,000	1,000,000,000
PPP	0	0	0	1,000,000,000	1,000,000,000





# Finance Targets

Finance Solution	2019	2020	2021	2022	Total
Impact investment	0	0	0	0	0
Gaming app	0	0	500,000,000	500,000,000	1,000,000,000
Total	7,105,000,000	8,092,850,000	8,104,792,500	9,536,832,125	32,839,474,625





# Follow us!



[www.facebook.com/pbsap](https://www.facebook.com/pbsap)  
Pbsap-Biofin



[@BIOFIN\\_PH](https://twitter.com/BIOFIN_PH)  
BIOFIN Philippines



[Biofin\\_PH](https://www.instagram.com/Biofin_PH)  
BIOFIN Philippines