



# Engaging the Private Sector

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# **NEA Initiative**

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# Why is biodiversity important to business? Bálint Ternyik, Associate Programme Officer, UNEP-WCMC





# Whole of society and whole economy solutions are required



Source: IPCC WGII (2022)



# MANY OF THE WORLD'S ECOSYSTEMS SERVICES ARE IN DECLINE

• 17 of 18 categories assessed have undergone decline

 Benefits of nature to people are not easily replaced or replicated when lost

Natura	's contributions to poople	Destroye	year	g lo b a	i tronu	regione
Nature	1 Habitat creation & maintenance	<b>Decreas</b>		to change	> Increase	Consistent
*	2 Pollination & dispersal of seeds	ŏ				Consistent
$\approx$	3 Regulation of air quality		0			Variable
*	4 Regulation of climate		0			Variable
*	5 Regulation of ocean acidification			Ó		Variable
	6 Regulation of freshwater quantity		0			Variable
6	7 Regulation of freshwater quality		0			Consistent
-	8 Regulation of soils		0			Variable
**	9 Regulation of hazards & extreme events		0			Variable
0	10 Regulation of organisms	0	0			Consistent
N.	11 Energy		0		0	Variable
111	12 Food & feed	0			0	Variable
	13 Materials & assistance		0		0	Variable
Ē.	14 Medicinal, biochemical, & genetic resources	0	0			Consistent
(D)	15 Learning & inspiration	Ó				Consistent
20	16 Physical & psychological experiences		0			Consistent
	17 Supporting identities		0			Consistent

https://www.ipbes.net/global-assessment-report-biodiversity-ecosystem-services

### RESOURCE EXTRACTION 3X SINCE 1970 (AND GROWING)



12.2 tons
materials demand
per capita

92 billion tons of

global extraction



https://www.resourcepanel.org/reports/global-resources-outlook

# IMPACTS ON BIODIVERSITY FROM BUSINESS



Use of land & freshwater (e.g. direct use, conversion or fragmentation of natural habitats)



Pollution (e.g. emissions of air, soil and water pollutants; solid waste)



Disturbances (e.g. seismic activity, artificial light affecting species, heat emissions)



Climate change (e.g. emission of greenhouse gases by operations, and energy needs)

### THIS TRANSLATES TO POTENTIAL DISRUPTION FOR BUSINESSES

\$44 Trillion at risk

(50% of Global GDP)

Direct Forestry Agriculture Fishery and aquaculture Food, beverages and tobacco Heat utilities Construction Electricity Water utilities Supply chain and transport Chemical and materials industry Aviation, travel and tourism Real estate Mining and metals Retail, consumer goods and lifestyle Oil and gas Automotive Healthcare delivery Electronics Information technology Insurance and asset management Banking and capital markets Digital communications 0% 20% 40% % of industry GVA

High Medium Low

WEF, Nature Risk Rising 2020

80%

100%

60%

# DEPENDENCIES ON BIODIVERSITY FROM BUSINESS



Direct Physical Input (e.g. Materials, genetic information)



Enabling Production (e.g. Pollination, soil quality, water flow and quality, air quality)



Impact Mitigation (e.g. Bio-remediation, dilution, filtration, mediation of sensory impacts)



Protection from disruption (e.g. Climate, disease, flood, erosion, and pest control)

# NATURE LOSS AS BUSINESS RISK IS WELL RECOGNISED

- All businesses **impact and depend on biodiversity** directly and through their supply chains
- Global biodiversity loss affects key areas of risk for any business:
  - Physical inc. acute and chronic
  - Transition inc. policy, legal and market changes
  - Systemic inc. natural system breakdown

### **Top 10 Global Risks by Severity**

Over the next 10 years





# SHIFTING FINANCIAL FLOWS

The cost of stabilising biodiversity intactness now by 2050 is approximately US\$7 trillion dollars (~8% of global GDP)

But, delaying action by 10 years would more than double the cost to approximately US\$15 trillion (~17% of global GDP)



### ALL SECTORS REQUIRE CRITICAL TRANSITIONS

Emerging business opportunities during these transitions will create over \$10 trillion of annual value and 395 million jobs by 2030





# GOOD BIODIVERSITY MANAGEMENT...

...leads to many benefits for business

Maintained access to finance

Continued supply of resources

**Resilient operations** 

Supporting regulatory compliance

Increased/maintained reputation & licence to operate

### SBTN GUIDANCE FOR TARGET-SETTING

Guidance on setting SBTs for nature:

- 5 phases
  - Assess impacts and locations;
  - Prioritise where and how to act first;
  - Measure, Set, & Disclose indicators relating to priority targets;
  - Act to acheive the previously set targets;
  - Track and publish progress towards targets,
- Guidance 1.0 is expected to release Early 2023



### THE TNFD LEAP ASSESSMENT APPROACH

Guidance on assessment and disclosure of nature-related risk and opportunity:

- 4 phases, 17 components:
  - Locate your interface with nature;
  - Evaluate your dependencies and impacts;
  - Assess your risks and opportunities; and
  - Prepare to respond to nature-related risks and opportunities and report.
- Extended approach for financial institutions



# LOCATION-RELATED DISCLOSURE

Recommended disclosure d) Describe the organization's interactions with low integrity ecosystems, important ecosystems or areas of water stress		Guidance for all sectors Organizations should provide a list and/or spatial map of the ecosystems deemed to be low integrity and/or high importance and water-stressed areas with which the organization's assets and operations interact. This should include reference to the location of the ecosystem and the type of ecosystem (i.e. the biome).			
Proposed reference sources	<ul> <li>Ecosystem WCMC)</li> <li>IUCN Red I (IUCN)</li> <li>UNEP-WCN Screening</li> <li>UNEP-WCN hotspots</li> </ul>	<ul> <li>Integrity Index (UNEP-</li> <li>World Database of Key Biodiversity Areas</li> <li>IUCN Red List of Threatened Species</li> <li>World Database on Protected Areas</li> <li>WWF Water Risk Filter</li> <li>WRI Aqueduct Water Risk Atlas</li> </ul>			

# DISCUSSION

- 1. How does this messaging make you feel?
- 2. Do you think NEA initiatives can use this information to raise private sector awereness?
- 3. Where do you think you will be able to fit into the narrative?

Biodiversity Management Practices Stacey Baggaley, Senior Programme Officer, UNEP-WCMC

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### **COMPLIANCE BASED APPROACHES**

At a minimum, businesses will take a compliance based approach to biodiversity management including:

- Following national EIA/ESIA processes.
- Complying with local regulatory environment for planning, permitting and operating.



### **STANDARDS**

Finance and business standards

- International Finance Corporation (IFC) Performance Standard 6 (<u>access</u>)
- World Bank Safeguards policies (ESS6) (access)
- EU Taxonomy (<u>access</u>)
- ISO standards (e.g. 14001:2015) (<u>access</u>)
- Global Reporting Initiative (GRI) e.g. Oil and Gas Sector Standard (<u>access</u>)



# **BIODIVERSITY ACTION PLANS**

- BAPS are inspired from National Biodiversity Strategies and Action Plans (NBSAPs) which are required by the CBD for parties to protect and restore biodiversity and ecosystems.
- A set of future actions that will lead to the conservation or enhancement of biodiversity.
- Can be implemented at multiple levels.
- Typically include:
  - Biological information and conservation status
  - Creation of targets
  - Implementation approaches



# **GOOD PRACTICE APPROACHES**

Risk management frameworks

- Risk-based approaches
- Mitigation Hierarchy
- Management plans

### Corporate commitments

- "No-go" areas or commitments
- No net loss of biodiversity
- Biodiversity net gain or net positive impact
- Deforestation-free supply chains

Following best-practice/industry guidance



# THE MITIGATION HIERARCHY

Sequential steps to minimise negative impacts on biodiversity.

- Avoid
- Minimise
- Restore
- Offset

ACAs refers to a wide range of interventions intended to be positive for biodiversity and ecosystem services (BES).



Net Gain (NG)

### THE MITIGATION HIERARCHY STEPS

Avoidance	<ul> <li>to prevent adverse impacts on biodiversity</li> </ul>
Minimisation	<ul> <li>to reduce the duration, intensity, significance and/or extent of impacts</li> </ul>
Restoration	<ul> <li>to repair, remedy, remediate habitats, biodiversity values, and/or ecosystem services.</li> </ul>
Offset	<ul> <li>actions applied to areas not impacted by the project, that compensate for significant, adverse project impacts</li> </ul>



# NO NET LOSS (NNL)

"The point at which the project-related impacts on biodiversity are balanced by measures taken to avoid and minimize the project's impacts, to undertake on site restoration and finally to offset significant residual impacts, if any, on an appropriate geographic scale (e.g local, landscape-level, national, regional)" (IFC 2012)



### BIODIVERSITY NET GAIN (BNG) (ALSO KNOWN AS NET POSITIVE IMPACT)

Additional conservation outcomes that can be achieved for the biodiversity values. Net gains may be achieved through the development of a biodiversity offset and/or the implementation of programs to enhance habitat, and protect and conserve biodiversity (IFC 2012)



# **GROWING COMMITMENTS TO NPI/BNG**

"Our new projects in areas rich in biodiversity...will have a net positive impact on biodiversity..."



"Our nature-based solutions projects....will have a net positive impact on biodiversity..."

Stora Enso is committed to achieving a net positive impact on biodiversity in our own forests and plantations by 2050 through active biodiversity management



"To deliver net positive impact (NPI) across Anglo American through implementing the mitigation hierarchy and investment in biodiversity stewardship."



"We will aim to achieve a net positive impact on biodiversity in our new projects.

From 2022 onwards, new bp operated projects...[that] have the potential for significant direct impacts on biodiversity will be required to develop net positive impact action plans for those activities"



# NO GO AND DEFORESTATION COMMITMENTS

Neither explore nor develop new mines in World Heritage Sites, respect legally designated protected areas, and design and operate any new operations or changes to existing operations to be compatible with the value for which such areas were designated.

A commitment to recognize the universal value of UNESCO's world natural heritage sites, by not conducting oil and gas exploration or production activity in these areas. TotalEnergies has also made a commitment not to conduct any exploration activity in oil fields under sea ice in the Arctic.

Deforestation-free supply chain in palm oil, paper and board, tea, soy and cocoa by 2023.

We will achieve and maintain 100% deforestation-free supply chains using tools such as supply chain mapping, on-the-ground assessments, certification and satellite monitoring.



❀ ICMM







### DETERMINING BIODIVERSITY FEATURES

<b>Biodiversity feature</b>	Implications for biodiversity management
Protected Areas	<ul> <li>Consider the boundaries, purpose/objectives, management plan, management effectiveness and resources.</li> <li>Can the project design avoid impacts completely?</li> <li>Is a protected area a candidate for implementing an offset?</li> </ul>
Key Biodiversity Areas	<ul> <li>What are the trigger species, how are these impacted by the project, what is the current state of the KBA?</li> <li>Can impacts on the KBA be avoided?</li> <li>How might impacts on trigger species outside the KBA affect the KBA itself?</li> <li>Can the KBA be enhanced as part of the mitigation measures?</li> </ul>
Habitats	<ul> <li>What is the distribution and types of habitat (habitat classification), status or condition of the habitat, habitat designation (if applicable) and connectivity and function of the habitat.</li> <li>Will mitigation measures be appropriate for all impacted habitat types?</li> </ul>
Species	<ul> <li>Include targeted species groups, global status of the species, distribution and abundance, conservation status (e.g. IUCN Red List Endangered)</li> <li>Are mitigation measures appropriate for the seasonal and natural variability and underlying trends in population changes?</li> </ul>
Key ecosystem services	<ul> <li>Identify key ecosystem services – their type, the users and beneficiaries, and the value</li> <li>How will project impacts on ecosystem services impact on local communities?</li> <li>Will offsets and restoration activities change the access of communities to services?</li> </ul>

### BUSINESSES USE DATA AT DIFFERENT LEVELS



Different data can be used or combined for different purposes, from initial screening to detailed risk assessments and to inform management actions





### SIGNIFICANCE OF IMPACTS





# ASPECTS OF BIODIVERSITY TO MEASURE AND ASSOCIATED INDICATORS



# GOING BEYOND IMPACT/RISK MANAGEMENT

Businesses are also increasing their ambitions in line with global and national goals. Including commitments towards:

- Restoration of degraded landscapes/ecosystems
- Efforts to conserve and protect.
- Collaborations and partnerships (global, supply chain, landscape/regional)
- Traceability and transparency
- Nature-based solutions
- Participation in business associations, roundtables and certification/standard schemes



Corporate engagement through the Proteus Partnership Stacey Baggaley, Senior Programme Officer, UNEP-WCMC





### GOALS OF THE proteus PARTNERSHIP

- 1. Help companies recognise their responsibilities for nature and communicate the business case for its management
- 2. Accelerate and scale decision support tools and capacity building to help improve corporate performance
- 3. Strengthen and increase business engagement in the global policy agenda on nature
- 4. Sustain a viable mutually beneficial partnership through cross-sectoral collaboration

### **PROTEUS TOOLS AT A GLANCE**

#### **WDPA and Protected Planet**

Monthly updates to World Database on Protected Areas (WDPA) and ability to nominate priority countries Access: <a href="http://www.protectedplanet.net">www.protectedplanet.net</a>

#### The Integrated Biodiversity Assessment Tool (IBAT)

Access to site- and landscape-scale datasets Access: https://ibat-alliance.org/

#### **Biodiversity A-Z**

Online glossary of terms Access: www.biodiversitya-z.org

#### Ocean+

Access to metadata for over 190 datasets Access: <a href="https://oceanplus.org/">https://oceanplus.org/</a>

#### **UNEP-WCMC Resource**

Access to a range of UNEP-WCMC's knowledge products Access: <a href="https://resources.unep-wcmc.org/">https://resources.unep-wcmc.org/</a>

#### Proteus website

Access all information resources offered through Proteus Access: www.proteuspartners.org









UN® WCMC RESOURCES

# proteus



# **PROTEUS BENEFITS**

Data and analytics

- Technical Briefings on challenges and questions raised by Partners
- Data verification support from the UNEP-WCMC expert team
- Access to a specialist cross-Partnership data forum supporting peer-to-peer learning with other technical experts
- Web services delivering data directly into partner systems

Capacity and support

- Technical assistance from UNEP-WCMC's expert team
- Online and in person training and access to training resources
- Horizon scanning webinars and briefings, helping companies track progress, upcoming events and potential business implications
- Access to and influence over development of the Biodiversity A-Z

# **TOOLS TO AID SUCCESS**

Building the	Proteus Annual Meeting		Communications			Proteus website	
business case			Impact survey	Quarterly reports Annual reports		Updates and maintenance	Seamless accounts
WDPA/WD-OECM				IBAT subscription	Restoration opportunities Data repositor		Directory of KPIs
Data updates	Protected Planet	Data factsheets	Priority countries	Web services	Training	Technical Assistance	Data queries
Ocean+				Data Forums			
Improving marine and coastal data		Online tools		Marine environmental screening	Hotspots of natural capital depletion	Company GIS screening tools	Marine restoration
UN Decade on Ecosystem Restoration		C-suite updates		Events		Biodiversity A-Z	
Technical Briefs				Horizon scanning webinars			
Brownfield sites	Area of influence	Energy transition	Green recovery	UN Decade	IMO designations	BBNJ	Biodiversity measurement
Partnership management					Expansion		Proteus SME



# HOW PROTEUS RESOURCES SUPPORT PARTNERS

- Complement project-level risk assessment and site selection
- Environmental Impact Assessments (EIAs)
- Application of the mitigation hierarchy
- Biodiversity action planning
- Site closure / decommissioning
- Alignment with performance standards
- Screening potential investments
- Supply chain management
- Development of biodiversity management strategy
- Portfolio analysis and reporting on global footprint

# **Ocean**<sup>+</sup>

- Umbrella initiative for UNEP-WCMC's marine work, supported by Proteus
- Inventory of nationally-validated spatial data on ocean habitats, informing development and reporting
- Supporting capacity development by identifying needs and overcoming gaps



# INTEGRATED BIODIVERSITY ASSESSMENT TOOL (IBAT)



### THE WORLD DATABASE ON PROTECTED AREAS



### **BIODIVERSITY A-Z**



### **PROTEUS WEBSITE**



### **PROTEUS TECHNICAL BRIEFS**

UNEP-WCMC Technical Briefing December 2021 proteus

#### The Global Energy Transition

The role of mining and energy companies in enabling a nature positive energy transition

#### Key Messages

- The global energy transition will significantly increase demand for key metals and minerals.
- The surge in demand will open up new frontiers of mineral extraction and has the potential to
  exacerbate existing environmental and social risks in operations and along supply chains for
  mining companies and their customers such as renewable energy companies.
- If left unchecked, these material risks may slow clean energy deployment and imperil the
  nature positive transition needed to halt climate change and biodiversity loss.
- Recommendations on where Proteus Partners must act to minimise biodiversity-relevant risks within their operations and supply chains and enable a nature positive energy transition include:
  - Integration of circular design principles and closed loop efforts in the production of energy assets
  - 2. Accelerate the adoption of net-gain approaches to mitigate site-based impacts
  - Contribute to closing the knowledge gap on the ecological impacts of operating in new frontiers such as deep-sea mining
  - Disclose footprint and adopt transparent, responsible supply chains supported by verified certification schemes and due diligence procedures
  - Underpin biodiversity commitments with meaningful indicators based on sound and scientific criteria
  - Gain more control over the compliance of social and environmental standards along the supply chain through e.g. vertical integration and partnerships
  - 7. Decarbonise operations and portfolios and divest from fossil fuels

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UNEP-WCMC Technical Briefing November 2021 proteus

#### The Area of Influence of site-based operations – Direct Impacts

Assigning buffer distances for high-level screening of biodiversity exposure based on direct impacts



#### (ey Messages

- Defining an appropriately scaled 'Area of Influence' is integral to high level screening processes that aim to
- identify important biodiversity features that may generate risk. Area of influences should include the extent of expected pressures that stem from the site and consider potential
- Avea or influences should include the extent of expected pressures that seem nom the size and consider potential for indirect impacts on biodiversity.
- To date however, there lacks consensus or quantitative guidance on appropriate buffers to be applied in different contexts. Understanding the factors underlying variation in the distances impacted by aites forms the foundations of a decision-making framework, presented here, to address this knowledge que.
- Available literature to create generalised rules is disparate, and there is a lack of research that compares
  pressures between sectors and habitats systematically. However, best available information suggested that the
  following approach should be applied for direct impacts:
  - a A 10km buffler is likely to cover the majority of direct impacts of terrestrial mines in most habitats, and, applying a precautionary approach, a 5km buffler likely to cover the impacts of terrestrial oil and gas, whose impacts are generally shown to impact smaller distances than mining. These should be taken as a minime station exist when device on the filter state each direct exemption.

### PROTEUS HORIZON SCAN WEBINARS

A series of webinars for Proteus Partners sharing information and insights into the latest trends and developments in biodiversity and ecosystem services policy, initiatives, data and tools.



### PROTEUS DATA FORUMS

A series of webinars for Proteus Partners that provide a venue for direct communication between data users and technical experts, help increase familiarity with Proteus resources and support identification of common challenges & finding solutions



### DATA VERIFICATION AND TECHNICAL SUPPORT

Data verification – clarifications on data quality and interpretation



Example query - Potential protected area (green) boundary discrepancy when compared to satellite imagery

Technical support – assistance or guidance on technical work



Example query – Visualisation of the global STAR Threat Abatement score layer

# DISCUSSION

- 1. What type of value can the NEA initiative provide to the private sector?
- 2. Is there a different value proposition for stakeholders in various sectors?
- 3. When will you be able to start offering products/services? What are the lowhanging fruits?

# Other Partnership Examples Bálint Ternyik, Associate Programme Officer, UNEP-WCMC

### **Forest restoration along the Kinabatangan River**

**Problem**: 2,700-hectare area of degraded rainforest

**Solution**: Nestlé partnered with the Malaysian Ministry of Energy and Natural Resources to establish the RELeaf project with the aim of reforestation and promoting of sustainable farming practices

Outcome: By the end of 2020, 1 million trees have been planted with 3 million more planned by the end of 2023. The project restored biodiversity, clarified the water and supported 32,000 jobs in local

communities







Source: https://www.nestle.com/stories/nestle-helps-save kinabatangan-rive

### Ingula Nature Reserve in South Africa

**Problem**: The establishment of a pumped storage hydropower plant negatively impacts nature.

**Solution**: The South African Department of Environment, Forestry, and Fisheries required Eskom to conserve a nearby area of 8,000 ha

Outcome: Eskom working with the government and BirdLife went the extra mile so the area attained Ramsar Site status in 2018. Over 300 bird species, 24 endangered.







Source: https://www.esi-africa.com/industrysectors/generation/ingula-nature-reserve-recognised-asinternationally-important/

### Healthy Forest project in Mongolia

**Problem**: Severe outbreak of forest defoliator species, affecting 300,000 ha and endangering 1.1B trees

Solution: In partnership with the Ministry of Environment and Tourism of Mongolia, Rio Tinto supports forest treatment and knowledge development with \$2.3 million

Outcome: TBD







Source: https://www.riotinto.com/news/releases/2022/Healthy-Forest-Projectlaunched-to-protect-Mongolia-forests-for-future-generations

How can private sector engagement benefit NEA's? Bálint Ternyik, Associate Programme Officer, UNEP-WCMC



# WHAT CAN BUSINESS OFFER TO US?





Funding

Impact



Direction



Data

# DISCUSSION

- Does any NEA representative have experiences working with the private sector?
- 2. What value could NEAs offer to businesses?
- 3. What value could the private sector offer to NEAs?



# UN ( WCCMC environment programme