PROTEUS ANNUAL MEETING

13th – 14th June 2019, David Attenborough Building, Cambridge, UK

UN environment WCMC 40 years

AngloAmerican BHP bp Chevron eni equinor ExxonMobil REPSOL RioTinto Shell TOTAL woodside

HORIZON SCAN:

Emerging Issues and Trends In Biodiversity Management and Data

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UN environment WCMC 40 years

Combined Carbon and Biodiversity Management

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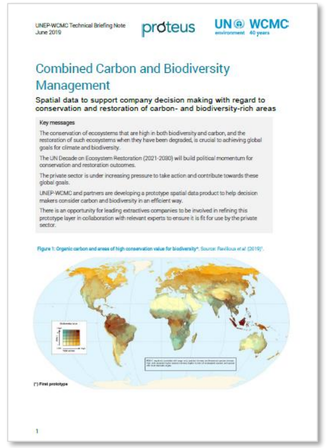
Overview

1. Context
2. Developing new spatial data
3. Applications for Proteus Partners

Context

Global drivers for action


UNEP-WCMC Technical Briefing Note
June 2019

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Combined Carbon and Biodiversity Management

Spatial data to support company decision making with regard to conservation and restoration of carbon- and biodiversity-rich areas

Key messages

The conservation of ecosystems that are high in both biodiversity and carbon, and the restoration of such ecosystems when they have been degraded, is crucial to achieving global goals for climate and biodiversity.

The UN Decade on Ecosystem Restoration (2021-2030) will build political momentum for conservation and restoration outcomes.

The private sector is under increasing pressure to take action and contribute towards these global goals.

UNEP-WCMC and partners are developing a prototype spatial data product to help decision makers consider carbon and biodiversity in an efficient way.

There is an opportunity for leading extractives companies to be involved in refining this prototype layer in collaboration with relevant experts to ensure it is fit for use by the private sector.

Figure 1: Organic carbon and areas of high conservation value for biodiversity*. Source: Pavlický et al. (2019)*.

(*) First prototype

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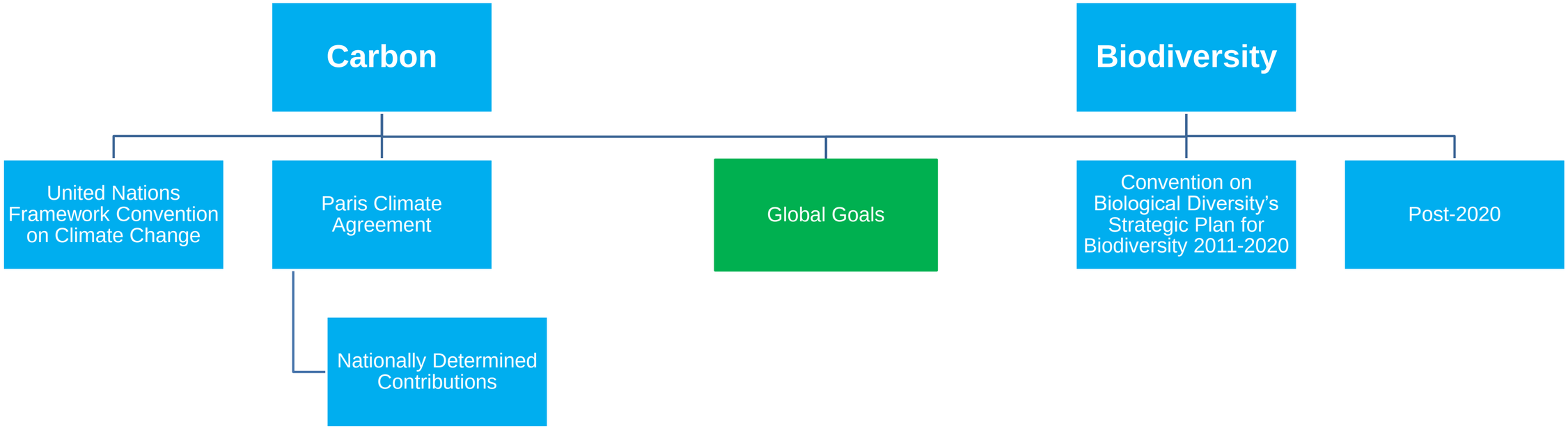


Alignment between the Three Rio Conventions (Nature, Climate Change, Desertification)
UN Decade on Ecosystem Restoration 2021-2030
UN Convention to Combat Desertification

Increasing pressure on business from stakeholders

Financial institutions

- Equator Principles: 96 financial institutions in 37 countries
- Performance standards (e.g. IFC PS3 and PS6)

Shareholders, investors and rating agencies

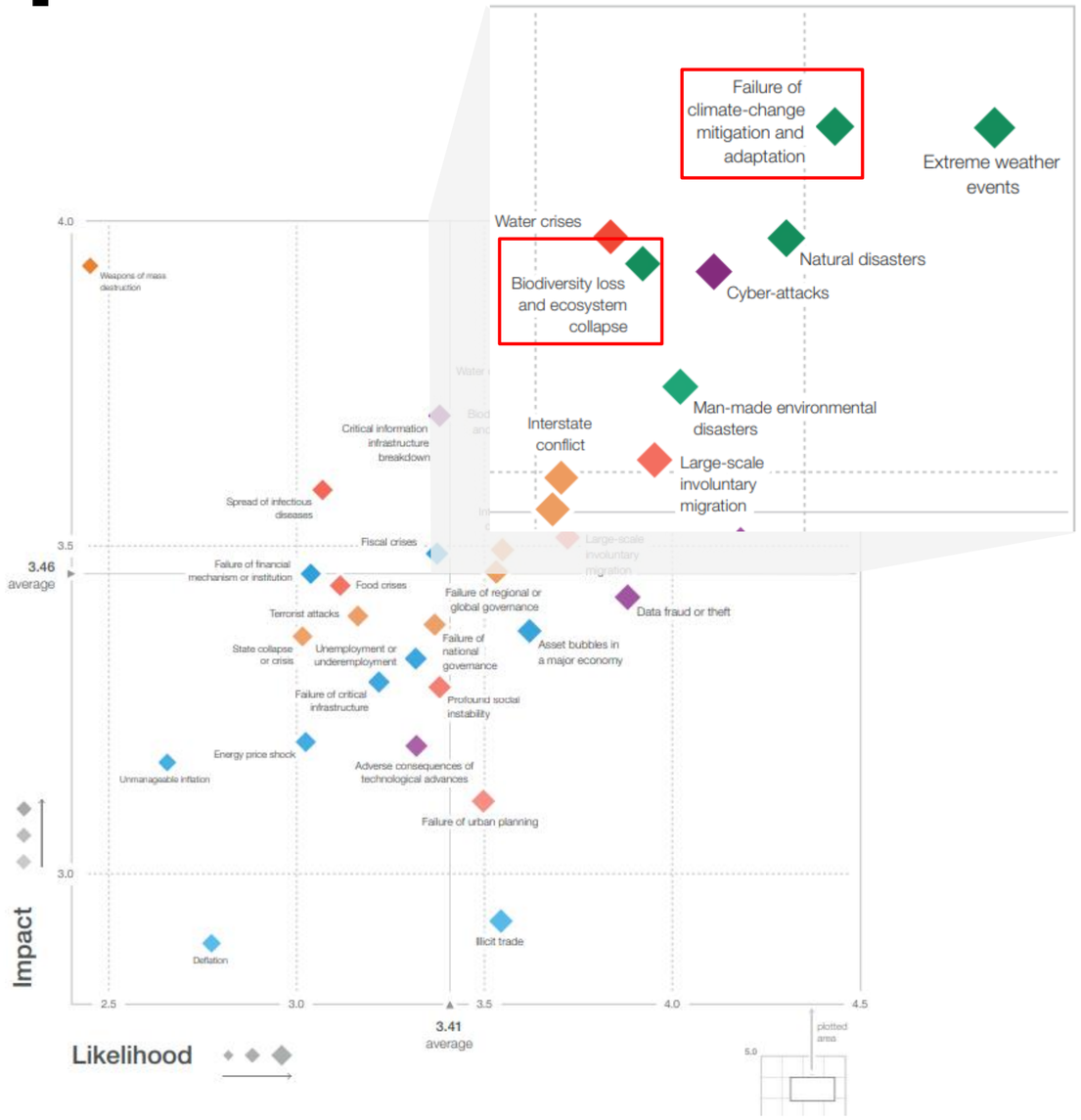
- Expect climate and biodiversity action (e.g. carbon neutrality, No Net Loss/Net Gain)

Need for combining approaches

Climate change and biodiversity have remained somewhat separate

Increasing alignment between agendas for both

Companies stand to benefit from aligning approaches to carbon and biodiversity management

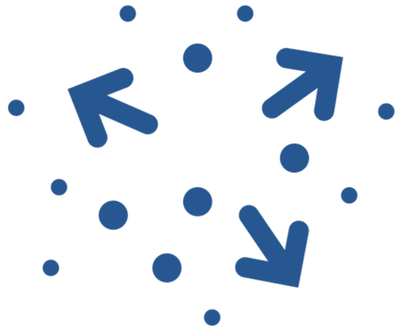


World Economic Forum. The Global Risks Report 2019.
http://www3.weforum.org/docs/WEF_Global_Risks_Report_2019.pdf

Developing New Spatial Data

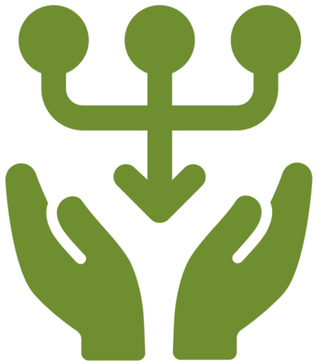
Why?

No standardised way to identify opportunities for combined carbon and biodiversity management



Would allow:

- Greater synergies between climate change and biodiversity management activities
- Streamlined approach to conservation and restoration at multiple scales
- Demonstrating commitment to addressing carbon and biodiversity

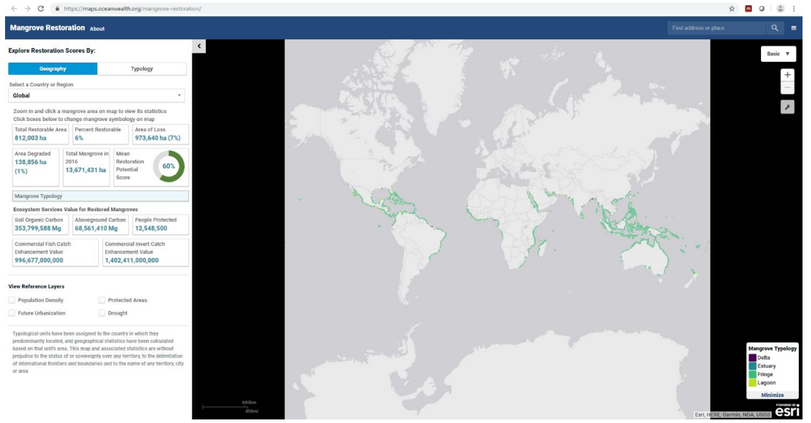


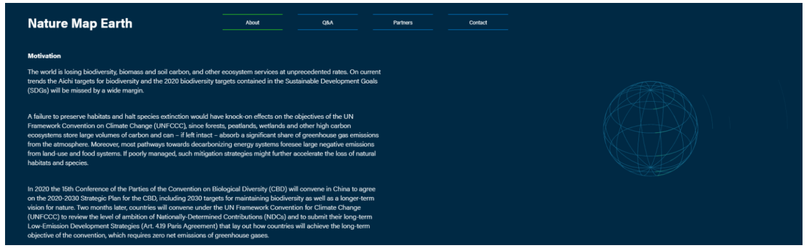
Opportunity to tailor data to Proteus Partners' needs

Some data available or under development, but not currently tailored to private sector needs

No unified product covering terrestrial and marine realms

Input data and outputs will vary according to intended use





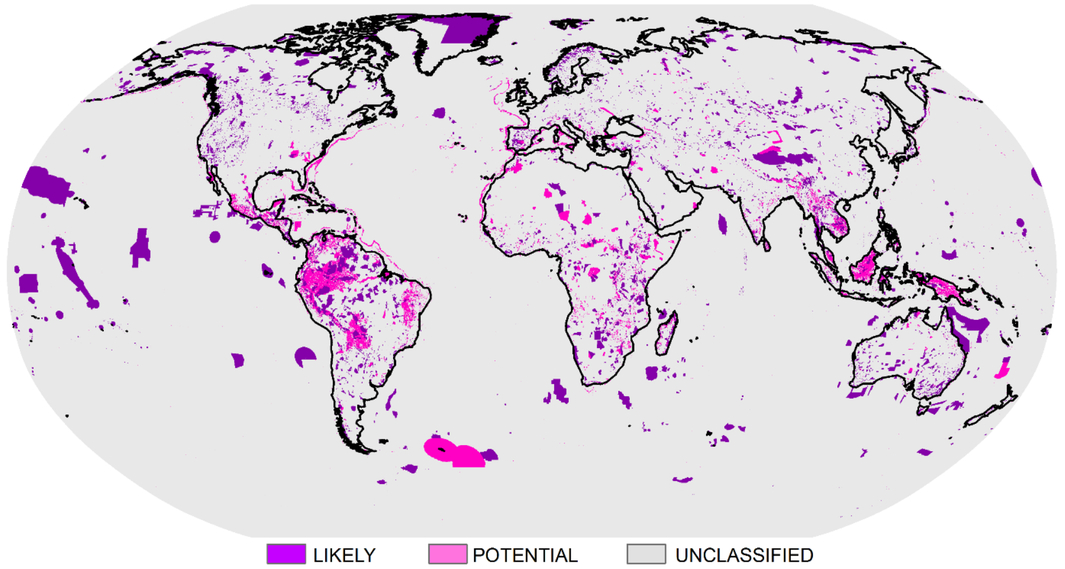
Applications for Proteus Partners

Supporting environmental risk management

Opportunity to adapt data to inform environmental risk management processes

Data layer(s) could complement existing data used during screening

Similar approach to Global Critical Habitat Screening Layer



UNEP-WCMC (2017) Global Critical Habitat screening layer (Version 1.0). Cambridge (UK): UN Environment World Conservation Monitoring Centre. *http://data.unep-wcmc.org/datasets/44*

Offsets and additional conservation actions

Spatial data to support identification of potential offset sites

Additional conservation actions

- Restoration of past impacts

Opportunity to tailor data to Proteus Partners' needs and systems

Key considerations

- What decisions will the data support?
- What insights should the data provided?
- What (if any) other data should be included?

  Key ecosystem services (e.g. hydrological service provision)

  'Political will' (legal and regulatory frameworks)

QUESTIONS AND DISCUSSION

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