

5 OCTOBER 2017

Natural Capital in Practice: Data & instruments SESSION F



**Natural Capital
Protocol Toolkit**
Uta Jungermann
Manager Natural
Capital
WBCSD



**Methodological
Convention**
Björn Bünger
German Federal
Environment
Agency



Data gaps and needs
Annelisa Grigg
Head of Programme
Business and
Biodiversity
UNEP-WCMC



Natural Capital Protocol Toolkit

Integrating Natural Capital into your Business

5 October 2017



Background to the initiative



The Protocol DOES:

Offer a **comparable process**

Allow flexibility and applicability to all **sectors, geographies and organizational levels**

The Protocol DOES NOT:

Prescribe specific tools, methodologies or approaches to users, due to different application contexts

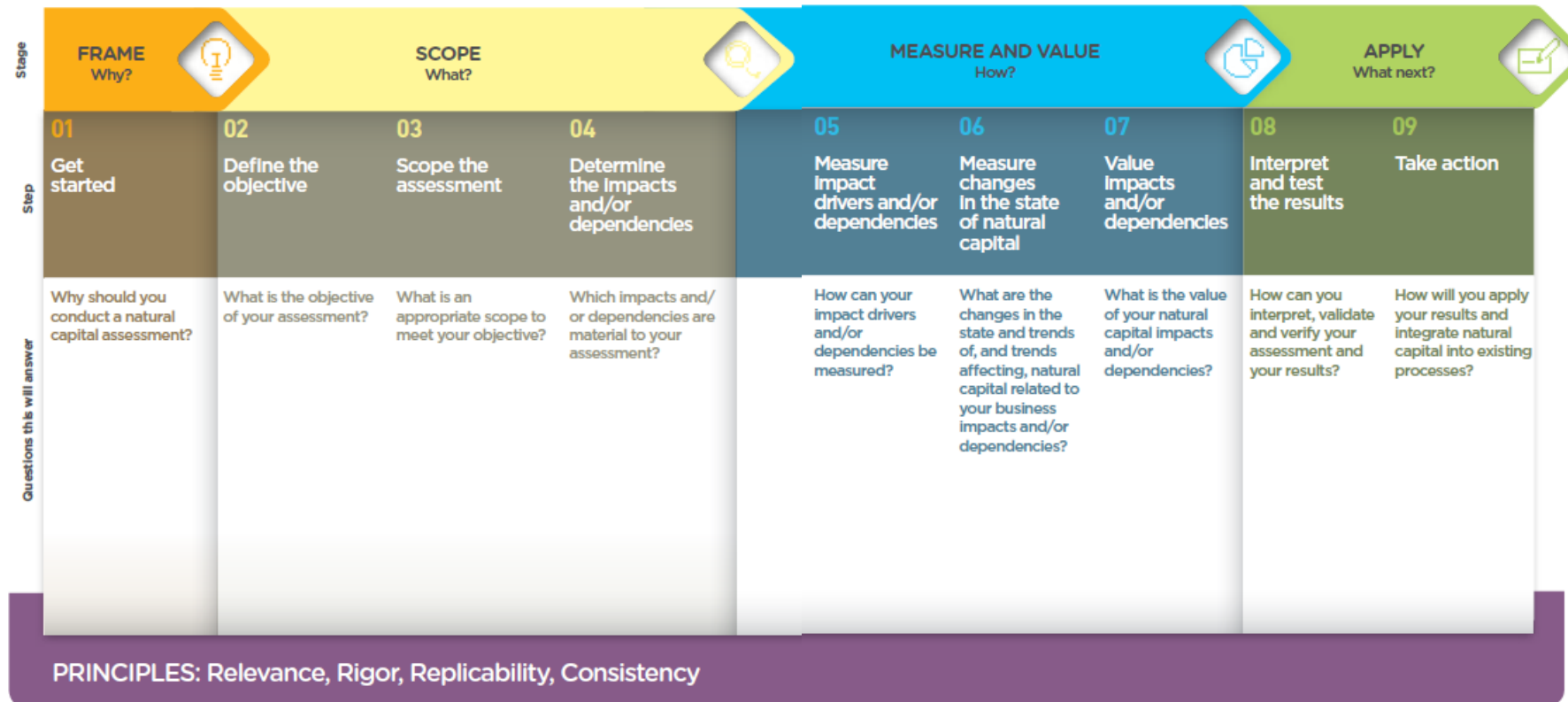
Allow for **comparable results**, due to the flexibility in application and approach

The Toolkit:

Interactively consolidates and maps relevant tools against the **Protocol framework**.

Background to the initiative

...but we see an opportunity to bring them all together in one collaborative effort under the Protocol framework



What is the toolkit?



- Interactive database of tools
- To help business assess its relationship with nature or “natural capital”

- By tools → resource, methodology or approach relevant to natural capital measurement and valuation.

What are the objectives?

- Complement and facilitate business uptake of the Natural Capital Protocol and Sector Guides
- Consolidate the wealth of tools available for natural capital measurement and valuation.



What is the scope?

The tools need to meet the following criteria:

Relevant to the protocol

i.e. suitable for use in a natural capital assessment using the Natural Capital Protocol

Applicable to business

even if businesses are not the intended audience

Available to the public

even if there is an associated fee to access the tool

What does it look like?

Search field



Search tool name or topic e.g. water



The filters below can help refine your search. You can use them to select which Step(s) of the [Natural Capital Protocol](#) you are working on, which impact drivers and dependencies you're interested in, your geographical scope and more. Please note that the list of filters on the left use the AND function.

Stages and Step(s) of the Protocol framework



FRAME Why?	SCOPE What?			MEASURE AND VALUE How?			APPLY What next?	
01 Get started	02 Define the objective	03 Scope the assessment	04 Determine the impacts and/or dependencies	05 Measure impact drivers and/or dependencies	06 Measure changes in the state of natural capital	07 Value impacts and/or dependencies	08 Interpret and test the results	09 Take action

Filters to refine your search



48 Results sorting by Name ▼			
Refine your search		Tool name Developer(s)	
Impact drivers	▼	Aqueduct Water Risk Atlas World Resources Institute	
Dependencies	▼	Artificial Intelligence for Ecosystem Services (ARIES) Basque Centre for Climate Change	
Geographical scope	▼	Biodiversity Footprint Tool Plansup, Wageningen Environmental Research, Netherlands Environmental Assessment Agency (PBL)	
Sectoral scope	▼		

Access and key features

Free access and open to everyone.

Online, interactive
mapping of tools
against Protocol
framework

Constantly updated

One stop database
of relevant
information

Searchable and
navigable depending
on specific needs

Standardized,
comparable
factsheets per tool

Elements of peer
review, e.g. most
downloaded

Where could the Toolkit go?

2017

- Interactive **mapping of tools** against the Protocol framework
- **One stop database** of relevant information

2019

- Grow elements of **peer review** and testimony
- Move towards generally accepted **recommendations**

2020-2025

- Move to **prescribe** specific tools, based on expert reviews and business uptake.
- Accelerate **best practice**

Advisory Group members



Toolkit key features



Over **57** tools



Joining forces

Held workshop in June 2017 with other platforms

- [Futureproof community](#)
- [Natural Capital Coalition's Hub](#)
- [Natural Capital Protocol Toolkit](#)
- [Global Value Toolkit](#)
- [Oppla](#)
- [EU Business and biodiversity platform](#)

- To better understand purpose and drive of the development of each platform
- Discuss linkages and potential for integration



What's next?

It is important to:

- Position the Natural Capital Protocol Toolkit as the go-to database for business looking for tools to measure and value natural capital
- Populate the Toolkit with new tools and generate analytics
- Continue to connect with other platforms and collaborate with respective developers to help business navigate a new landscape
- Move towards integration of Natural and Social Capital measurement and valuation.

THANK YOU

For more information, contact:
info@naturalcapitaltoolkit.org



For our Environment

**Umwelt
Bundesamt** 

Integrating Natural Capital into Your Business

Methodological Convention for Estimates of Environmental Costs

Dr. Björn Bünger

Section I 1.4

– Economic and Social Environmental Issues, Sustainable Consumption

Structure

1. OBJECTIVES

2. APPLICATIONS

3. COST RATES



Objectives of the Methodological Convention (MC)

- Determining the benefits of environmental protection to increase transparency, comparing benefits and costs
 - Contributing to transparency and consistency of decision making in environmental policy
-
- MC 1.0: published in 2007
 - MC 2.0: published in 2012
 - MC 3.0: planned for 2017-2018
 - MC 4.0: planned for ???

Applications of the Methodological Convention

Internal applications

- environmental costs of energy, e.g. monitoring process of the transition of the German energy system (Energiewende)
- environmental costs of transport: own research, policy advice on restructuring the transport sector (e.g. OECD (2015): Adapting Transport Policy to Climate Change)

External applications

- national transport infrastructure planning (Bundesverkehrswegeplan)
- organizations (e. g. German Society for Trenchless Technology)
- consultancies (e.g. SYSTAIN)

Cost rates reported in the Methodological Convention

- greenhouse gases (GHG)
- air pollution
- noise
- energy (electricity, heat)
- transport (road and rail)
- Currently developed extensions:
 - damage to ecosystems and loss of biodiversity
 - building materials
 - Nitrogen, Phosphorus
 - agriculture (GHG)
 - transport (air)

Thanks for your attention!

Dr. Björn Bünger
bjoern.buenger@uba.de

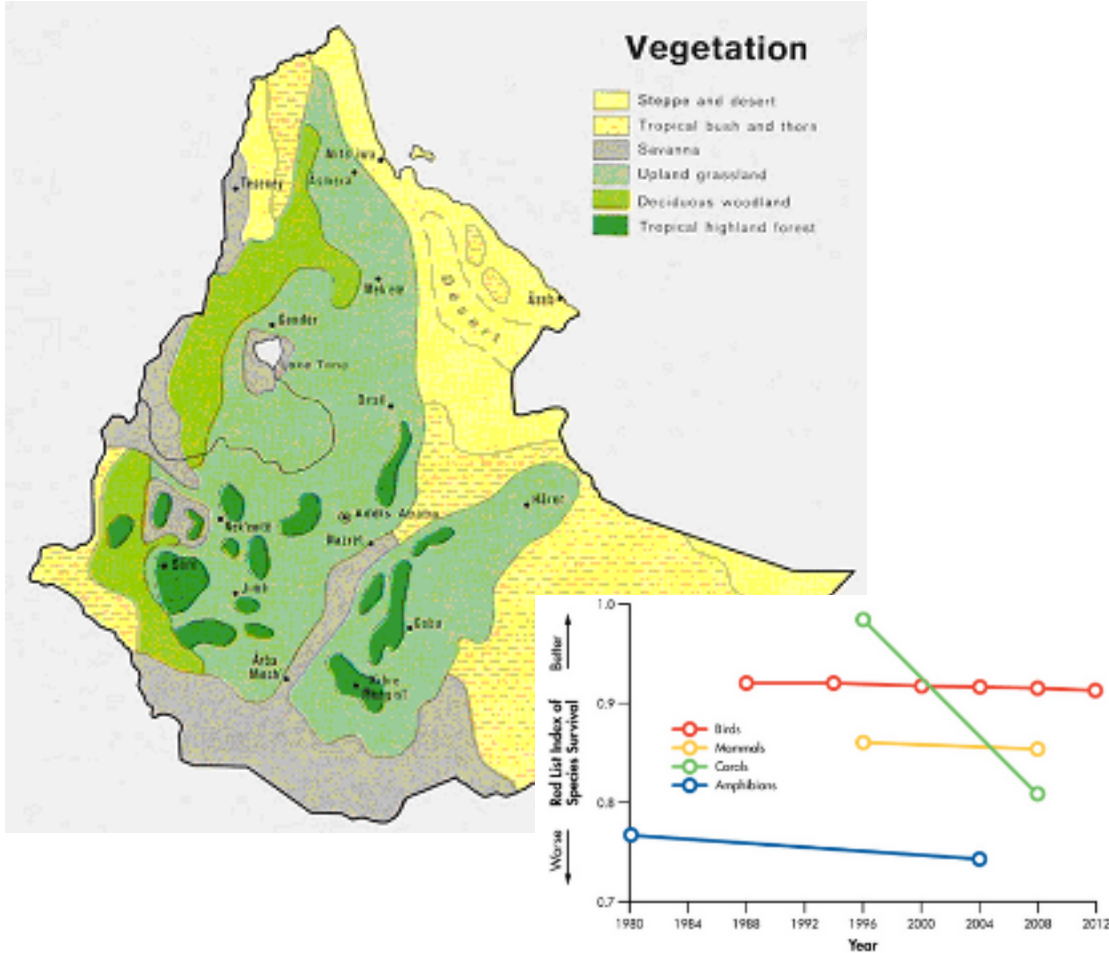
German Environment Agency
Wörlitzer Platz 1
06844 Dessau-Roßlau

Exploring data gaps and challenges in natural capital assessments

Annelisa Grigg, Head of Business & Biodiversity, UNEP-WCMC

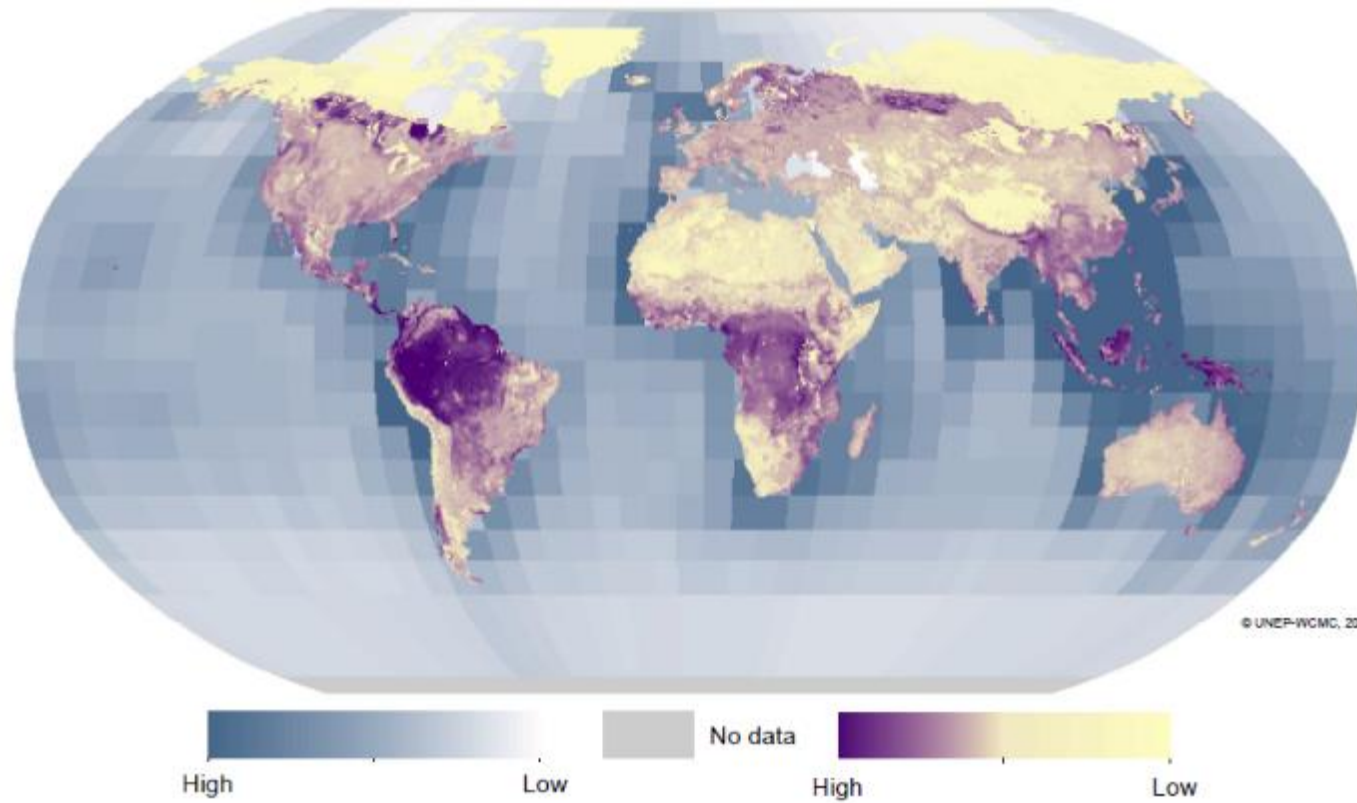
A broad range of data sources are required

- Data: raw observations, measurements (e.g. satellite observations)
- Information: processed data
- Knowledge: understanding gained through experience (e.g. land cover change over time)
- From international agencies, academia, data produced in fulfilment of reporting obligations



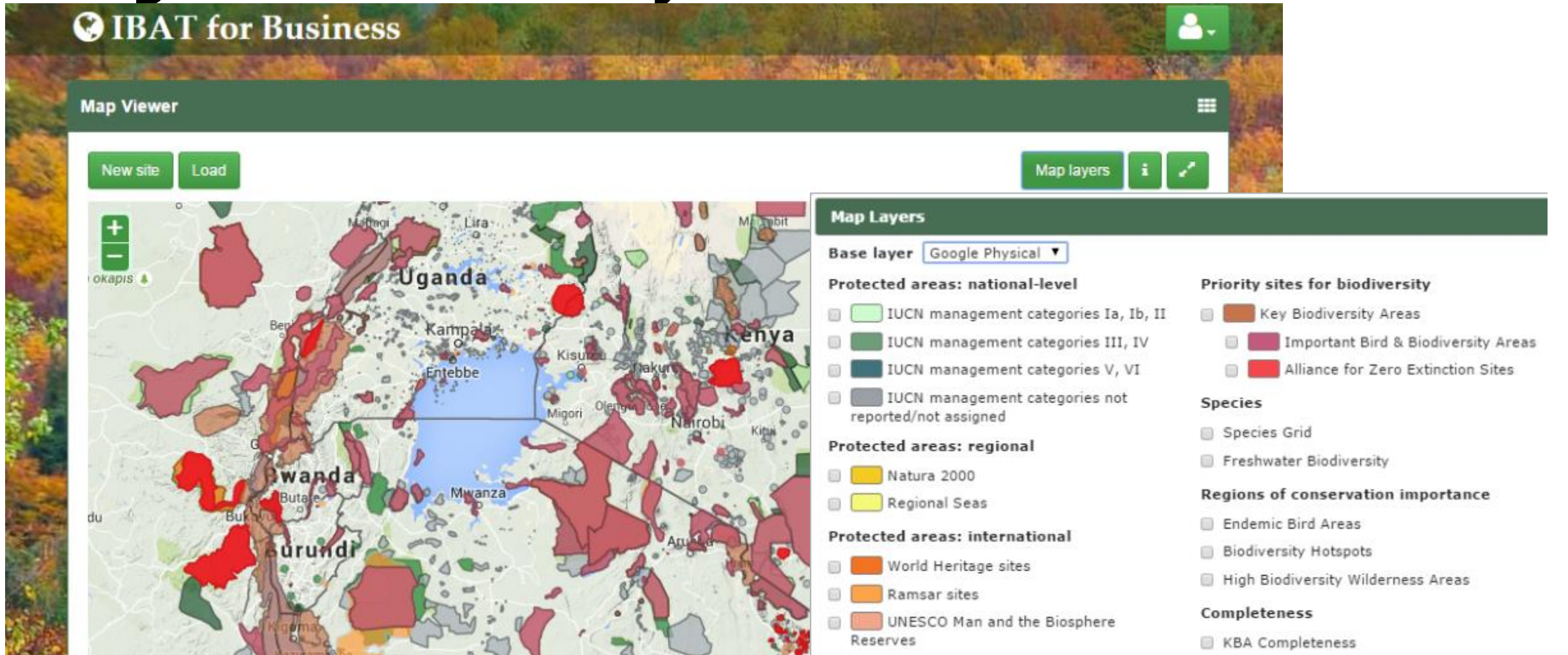
Map of global ecosystem assets

Combination of existing global spatial datasets in the terrestrial and marine realm



Dickson, B., Blaney, R. Miles, L., Regan, E., van Soesbergen, A., Väänänen, E., Blyth, S., Harfoot, M. Martin, C.S., McOwen, C., Newbold, T., van Bochove, J. (2014). Towards a global map of natural capital: Key ecosystem assets. UNEP, Nairobi, Kenya.

Integrated Biodiversity Assessment Tool



IBAT (www.ibatforbusiness.org) offers access to site- and landscape-scale datasets

Data barriers within natural capital assessments

Feedback from the private sector, including the 50+ businesses who piloted the Natural Capital Protocol, indicates that the lack of ready access to robust data for decision making was often a barrier for businesses who wish to manage their impacts and dependence on natural capital.

Data gaps

Too much data

**Change in
thinking**

**Inaccuracy and
variability**

Standardisation

**Bridge gap
between
accountants and
data specialists**

**Natural capital
dependencies**

**Costs of data
sharing and
maintenance**

**Data
interpretation**

Advancing Environmental Risk Management

Working to integrate natural capital-related risks in financial decision making

Phase 1:

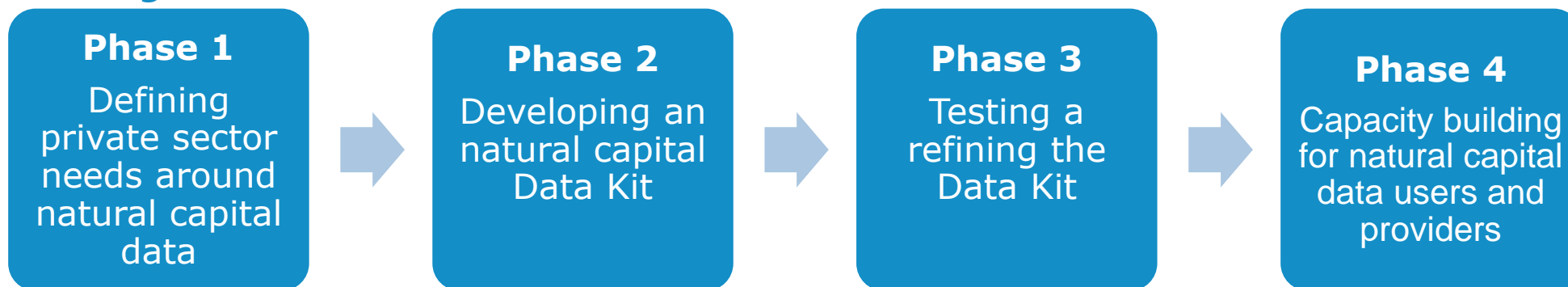


Natural Capital data project

Working collaboratively to meet the natural capital data needs of decision makers

The Natural Capital Data project will bring together data users, data providers, data funders and academics to explore key data questions over four project phases to deliver:

- better clarity and harmonization within the data landscape, based on better, more accessible data for natural capital application; and
- better communication between stakeholder groups such as data producers, data collators, funders, governments and business users.



The project will develop guidance on how to overcome these challenges, whilst building the capacity of natural capital data providers to better meet the needs of business.



UN Environment
World Conservation Monitoring Centre

www.unep-wcmc.org
[@unepwcmc](https://twitter.com/unepwcmc)

Annelisa Grigg

Head, Business and Biodiversity

Annelisa.grigg@unep-wcmc.org

Questions for discussion with the audience

- How is **natural capital data** being defined by different stakeholders?
- What are the **data needs** for business with regards to natural capital?
- What **data and tools** currently exist and how/where can they be accessed?

Learning objectives

- Understanding of the **data needs** of business with regard to natural capital assessments
- Understanding of the **data and tools available** to inform natural capital assessments drawing from experience from the Natural Capital Coalition pilot companies and national government level assessments
- Understanding of the **challenges, gaps** and **how to deal with uncertainty** in the data available