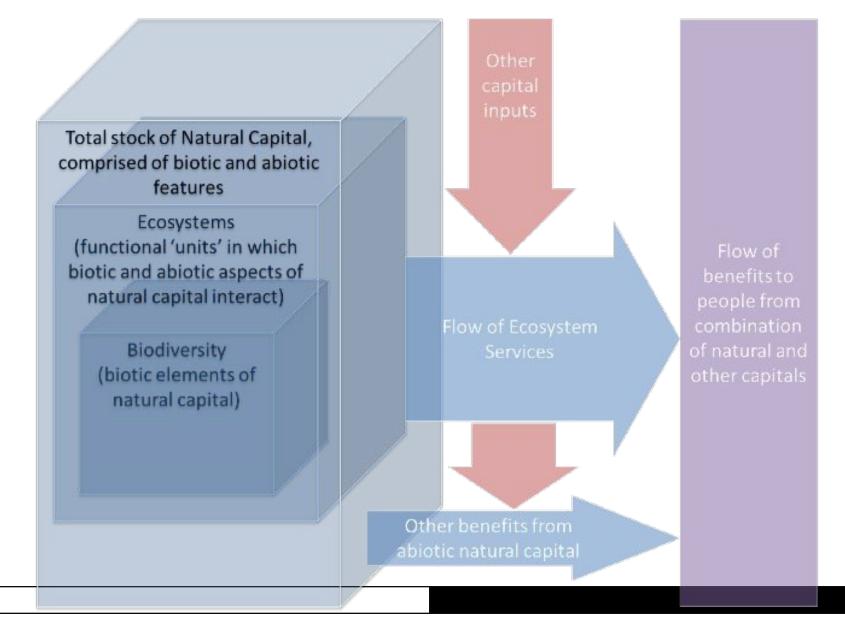


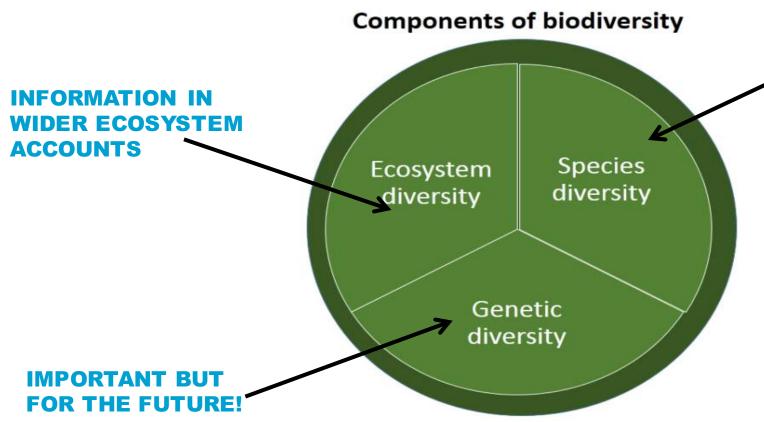


IMPORTANT PART OF NATURAL CAPITAL STOCK





WHY SPECIES ACCOUNTS



SPECIES PROVIDE A PROXY FOR BIODIVERSITY AND INDICATOR OF ECOSYSTEM CONDITION

SPECIES PROVIDE MANY BENEFITS TO HUMAN WELL-BEING

SPECIES ARE VITALLY IMPORTANT FOR ECOSYSTEM FUNCTION

SPATIAL PLANNING FOR SPECIES-LEVEL BIODIVERSITY CAN DIFFER FROM PLANNING FOR ECOSYSTEMS AND THEIR SERVICES

THERE IS CONSIDERABLE RESEARCH AND DATA ON SPECIES





















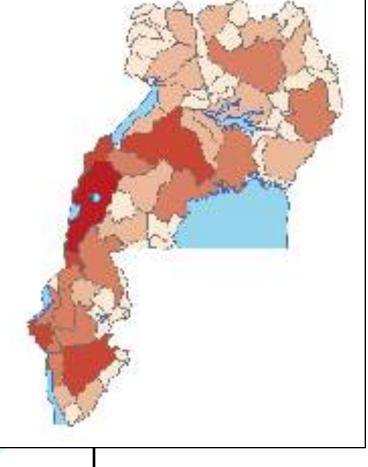
















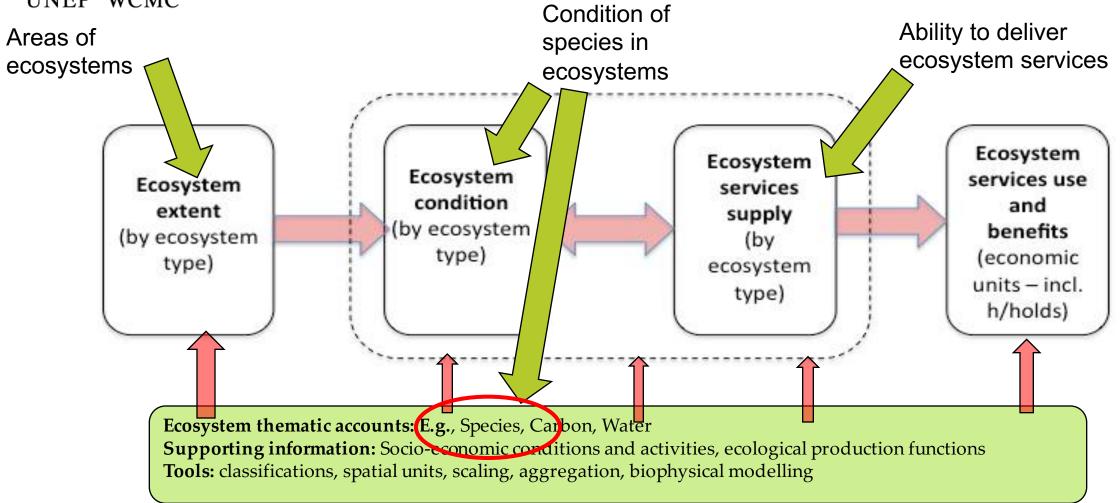
SPECIES ACCOUNTS CAN HELP INTEGRATE UNEP WCMC EXISTING SPECIES DATA IN TO DECISION MAKING







SPECIES ACCOUNTS IN SEEA-EEA.





BIOPHYSICAL SPATIAL ACCOUNTS

- i. BASED ON SELECTING PRIORITY SPECIES AND SPECIES GROUPS (E.G., MAMMALS)
- ii. CONSTRUCT SPATIAL ACCOUNTS USING CHANGES IN DIRECT OR HABITAT BASED OBSERVATIONS

	Direct Observations	Habitat Based Observations
Methods	Population census (e.g., mammal surveys); Population estimates (e.g., transects, nest counts); Cover (e.g., canopy cover)	Changes in the habitat required by species
Pros	Locally accurate data	Limit resources required
Cons	Depends on significant investments in monitoring	Assumptions add an element of uncertainty. Expertise to implement

http://www.unep-wcmc.org/news/guidance-on-experimental-biodiversity-accounting-using-the-seea-eea-framework



Constructing Species
Accounts in the context of
the SEEA-EEA: Initial
approaches for exploration.

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Environmental Authority): Jan-Erik Petersen (European This work was coordinated by the United Nations Environment Programme World Conservation

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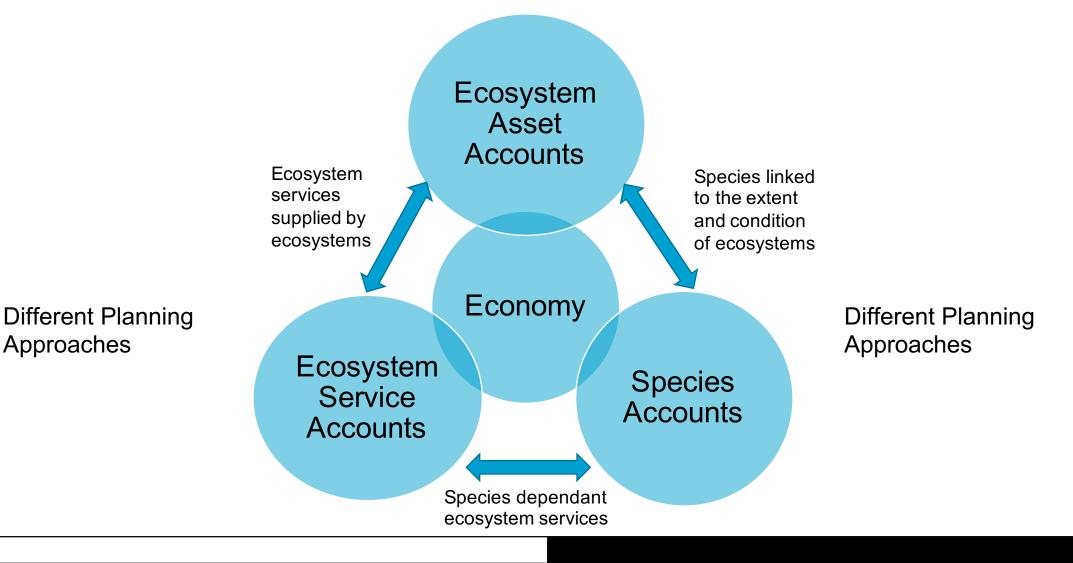
**The standard Space of the United Nations Space of This work was coordinated by the United Nations Environment Programme World Conservation Monitoring Centre (UNEP-WCMC). The step-by-step approach for constructing Species Accounts with the second data structure of the state of Cambridge in February 201 Monitoring Centre (UNEP-WCMC). The step-by-step approach for constructing Species Accounts was informed by a three day workshop held at UNEP-WCMCs offices in Cambridge in February 2016. was anonned by a three day working held at UNLY-WCARLS offices in Cambridge in February
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Approaches

A COHERENT PICTURE





POTENTIAL USES

- i. IDENTIFYING IF SPECIES ARE BEING EXPLOITED SUSTAINABLY (E.G., SETTING QUOTAS)
- ii. IDENTIFYING WHICH ECOSYSTEMS ARE BEING DEGRADED AND THEIR RESILIENCE COMPROMISED
- iii. IDENTIFYING WHAT IS HAPPENING TO THE SPECIES ASSET BASE AND IMPLICATIONS FOR FUTURE BENEFITS
- iv. COMMUNICATING THE ECONOMIC ARGUMENTS FOR INVESTING IN SPECIES AND ECOSYSTEM SERVICES (E.G., IDENTIFYING RETURNS ON INVESTMENT)
- v. SPATIALLY ANALYSING ALTERNATIVE LAND USE SCENARIOS AND OTHER TRADE-OFFS WITH SPECIES STATUS
- vi. INFORMING POLICY OBJECTIVES (E.G., 'NO NET LOSS' OF BIODIVERSITY AND OFFSET PROGRAMMES)
- vii. IDENTIFYING IF AGGREGATED TRENDS IN SPECIES ARE A CONCERN AT A NATIONAL AND SUB-NATIONAL LEVELS
- **VIII.TRACKING PROGRESS TOWARDS SDG'S AND OTHER COMMITMENTS**



INTEGRATED DECISION MAKING

The drivers of biodiversity / species loss arise throughout the economy

Agriculture

Pollution

Climate Change

Forestry

Biofuel

Infrastructure



Biodiversity Protection / Enhancement Targets





Food Security

Climate Adaptation Water Quality & Supply

Sustainable Development

Human Health Rural Livelihoods



HEALTHY AND

Targets: 1.b, 2.1, 2.4, 3.3, 6.3, 6.5, 6.6, 7.2, 11.4, 11.6, 11.a, 12.6, 12.7 12.8, 13.3, 14.1, 14.2, 14.3, 14.4, 14.5, 14.6, 14.c, 15.1, 15.2, 15.3, 15.4, 15.5, 15.6, 15.7, 15.8, 15.9,

PRODUCTIVE ECOSYSTEMS

15.a, 17.5, 17.14, 17.19



Maintaining and investing in biodiversity will have benefits far beyond biodiversity and contribute to goals across our economies and societies





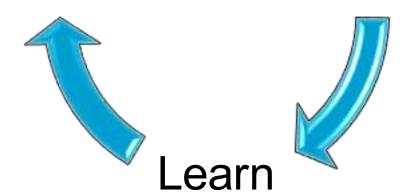
WHAT NEXT?

- i. BROADER APPLICATIONS FOR DECISION MAKERS AND USERS (E.G., PROGRESS TOWARDS SDGS)
- ii. PILOTING
- iii. TEST-REVIEW-LEARN



Test

Review





THANK YOU!

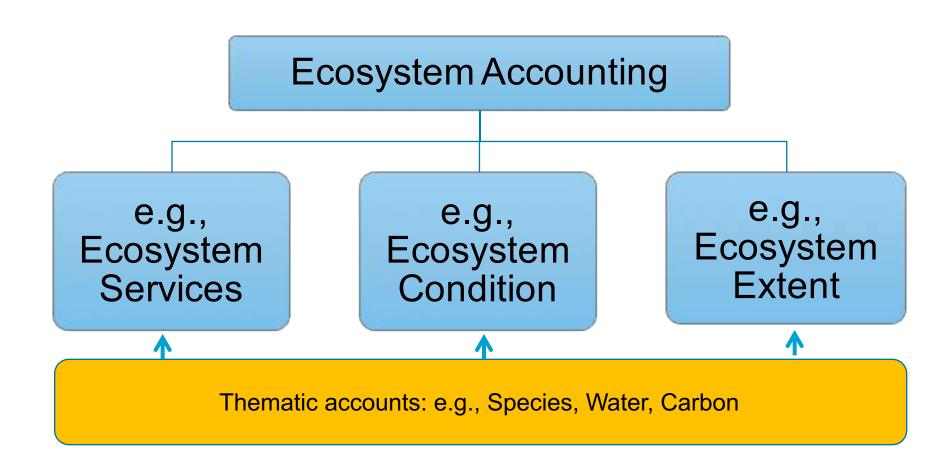
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29/06/2016



SPECIES IN THE ECOSYSTEM ACCOUNTING LANDSCAPE





Abundance measure at start of accounting period

Additions and reductions Should be stated if known

Abundance measure at End of accounting period

Net change in abundance over accounting period

Relative Abundance measure at start of accounting period

Relative Abundance measure at end of accounting period

Net change in relative abundance over accounting period

Change as % of the opening relative abundance

Table A: Example	Account of Speci	es and Species (Groups of Special Conc	ern (2005 – 20	10)	
	Species or Species Group 1	Species or Species Group 2	Species or Species Group 3	Species or Species Group 4	Species or Species Group 5	Composite indicator
Example Species	Panda	Cuckoo	Tree sparrow	Orangutan	Vertebrates	
Unit of measurement	No. of individuals	No. of individuals	Relative abundance based on population density	Hectares of suitable habitat	Proportion of original species complement	N/A
Reference (1995)	2,000	100,000	Set to 1.0	1,000,000	85%	100%
Opening (2005)	1,500	60,000	0.70	100,000	80%	N/A
Additions	100	N/A	N/A	10,000	N/A	N/A
Reductions	200	N/A	N/A	30,000	N/A	N/A
Closing (2010)	1,400	65,000	0.50	80,000	70%	N/A
Net Change	-100	+5,000	-0.20	-2,000	-10%	N/A
Opening (% of reference, 2005)	75%	60%	70%	10%	94%	ТВС
Closing (% of reference, 2010)	70%	65%	50%	8%	82%	ТВС
Net change (% of reference)	-5%	-5%	-20%	-2%	-12%	ТВС
Change (% of opening)	-6.7%	+8.3%	-29%	-20%	-13%	ТВС