



- Incorporating the value of natural capital in public and private sector policies and decision-making
- Pursuing sustainable development and sustainable production

 incl. agriculture, fisheries, and extractive industries while
 maintaining natural capital
- Generating data, undertake monitoring and build capacity to support policy and decision-making.

GDSA OUTCOMES

Natural Capital Accounting

Integrate the value of nature into decisions and policies

Sustainable Development

Sustainability reflected in national plans and production systems

Environmental-Economic Monitoring

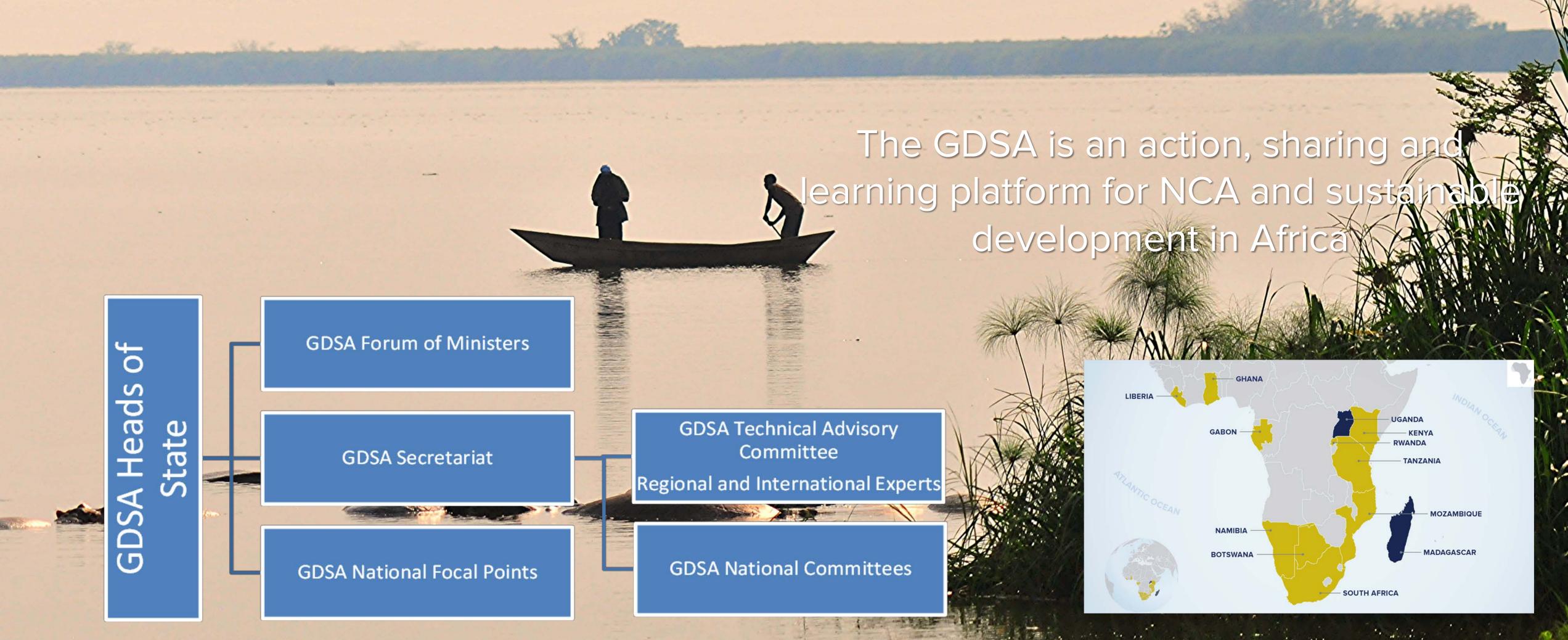
Ensure decisions reflect change towards sustainability

Corporate Leadership

Accelerate the transformation to sustainability



GDSA GOVERNANCE



THE GDSA AT WORK



BUILDING THE MANDATE FOR WORK ON SUSTAINABILITY

For example, the GDSA Secretariat facilitated the passage of the resolution on natural capital at the second United Nations Environment Assembly.

PROMOTING LEARNING THROUGH CAPACITY BUILDING OF GOVERNMENT OFFICIALS

The GDSA has sent government officials from the GDSA countries to Cameroon, China, Costa Rica, and Australia for learning exchanges.

LESSONS SHARING BY CONNECTING PEOPLE ACROSS NATIONAL BOUNDARIES

The GDSA has organized cross-national workshops on natural capital accounting, natural capital mapping, payments for ecosystem services, and the SDGs.

SPREADING THE SUSTAINABILITY MESSAGE ONLINE

The GDSA Facebook page has a monthly reach of over 50,000 people. The website is visited by 5,000+ people annually.

CONNECTING IMPLEMENTATION AND POLICY ACTORS

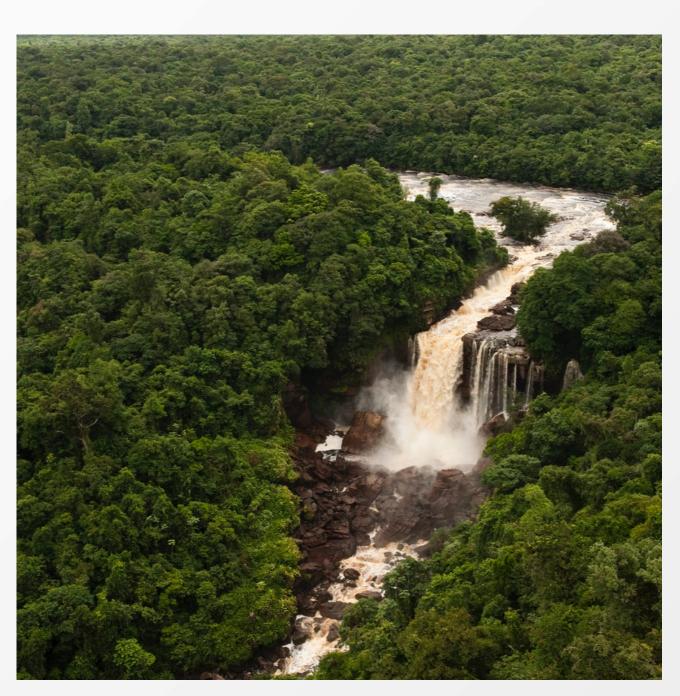
The GDSA is a unique platform as it spans the public and private sector.

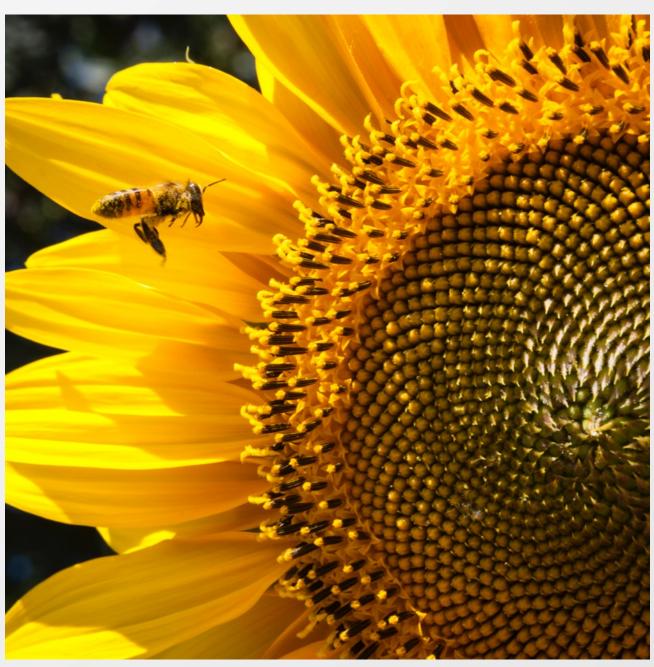


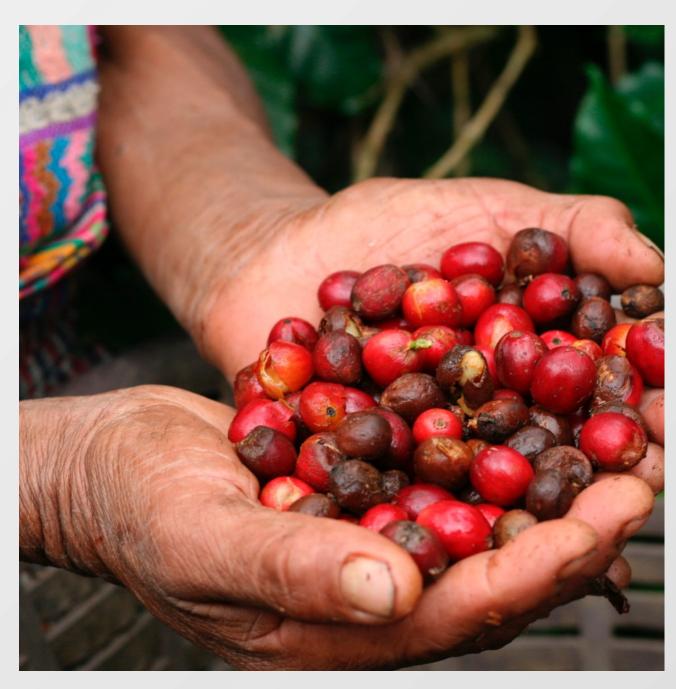


IGNORING NATURE JEOPARDIZES PROSPERITY

Economies and societies need nature to thrive.



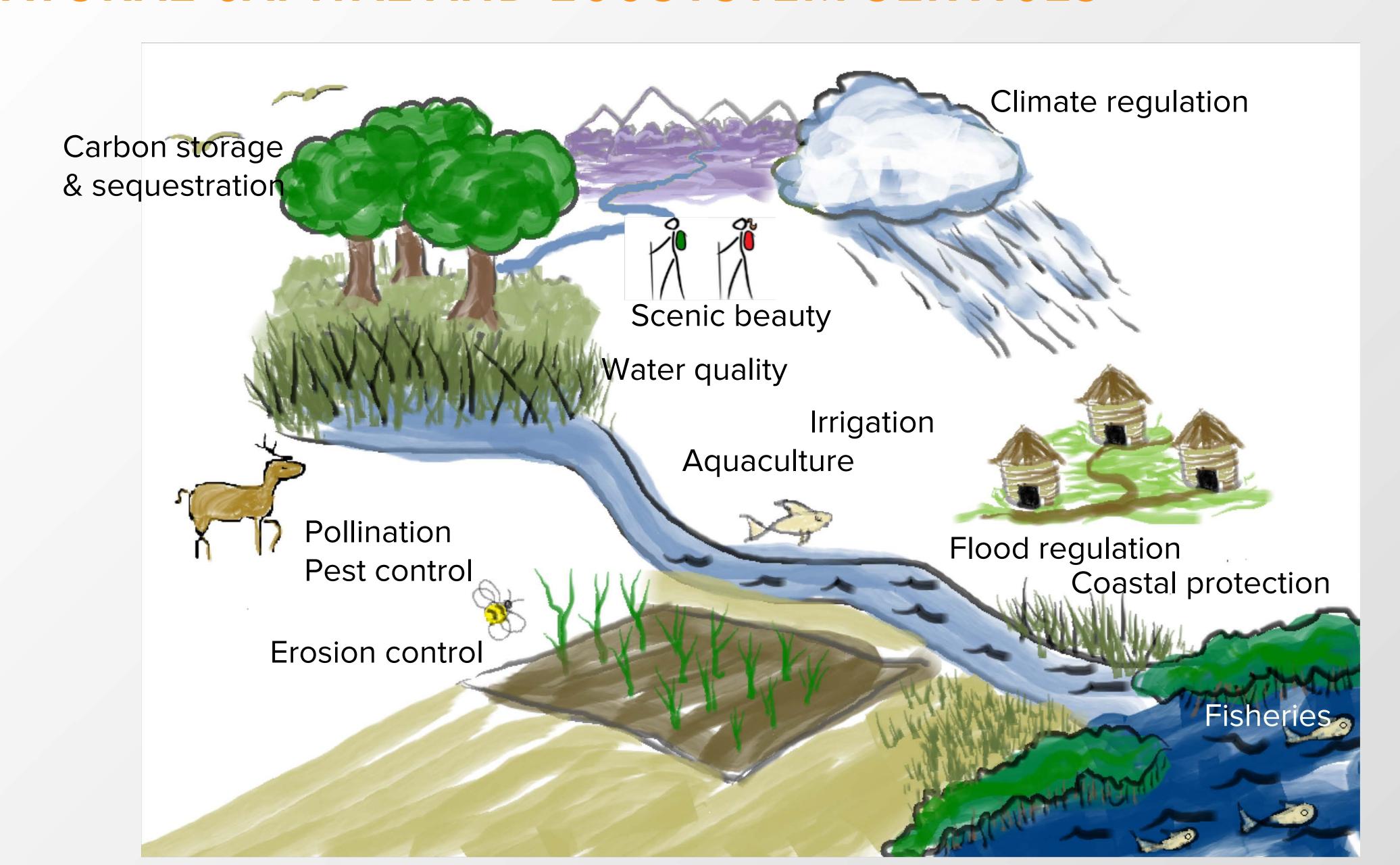




Impacts and dependencies are ignored

As a result natural capital is being eroded at an alarming rate

NATURAL CAPITAL AND ECOSYSTEM SERVICES





NATURAL CAPITAL ACCOUNTING

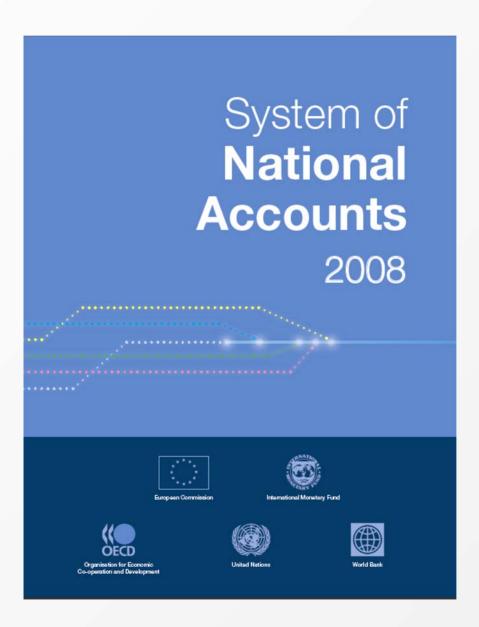
A **SYSTEMATIC** PROCESS FOR TRACKING NATURAL ASSETS, THE SERVICES PROVIDED BY THEM AND THEIR RELATIONSHIP TO THE ECONOMY

Adapted from World Bank, 2015

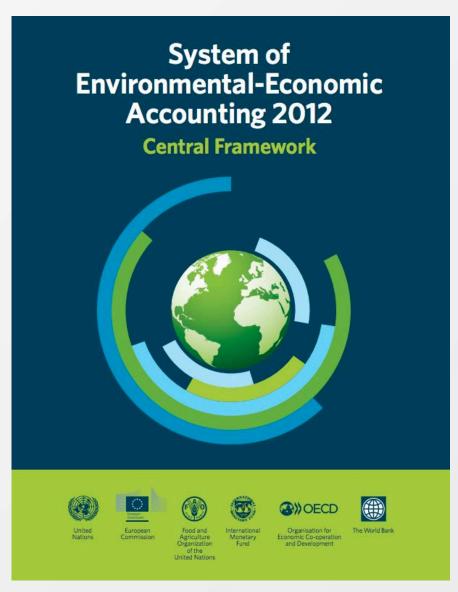




HISTORY OF NATIONAL ACCOUNTING



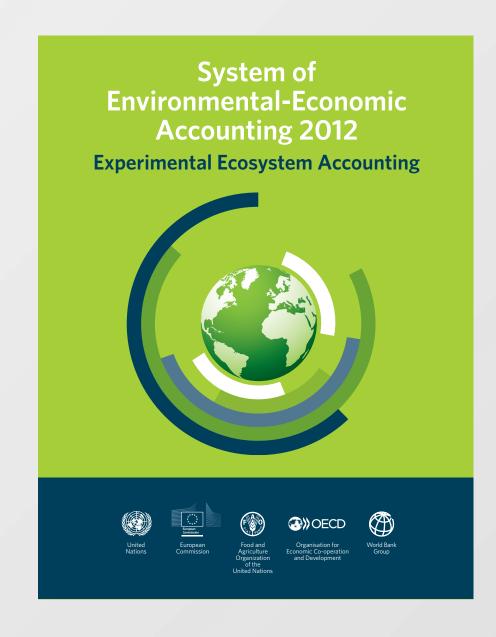
- Asset and production boundaries set by economics
- Production defined as being capable of being sold in markets
- Monetary measures
- Assets defined as being owned and capable of being used for economic gain



Physical quantity measures added to monetary measures

Framework Asset boundary expanded

Assets no longer have to be owned or capable of being used for economic gain



Physical quality (or condition) measures added

Production boundary extended

SEEA Experimental

Ecosystem Production from ecosystems recognized and does not need to be sold in markets

SEEA Central



System of National

Accounts

SEEA CENTRAL FRAMEWORK

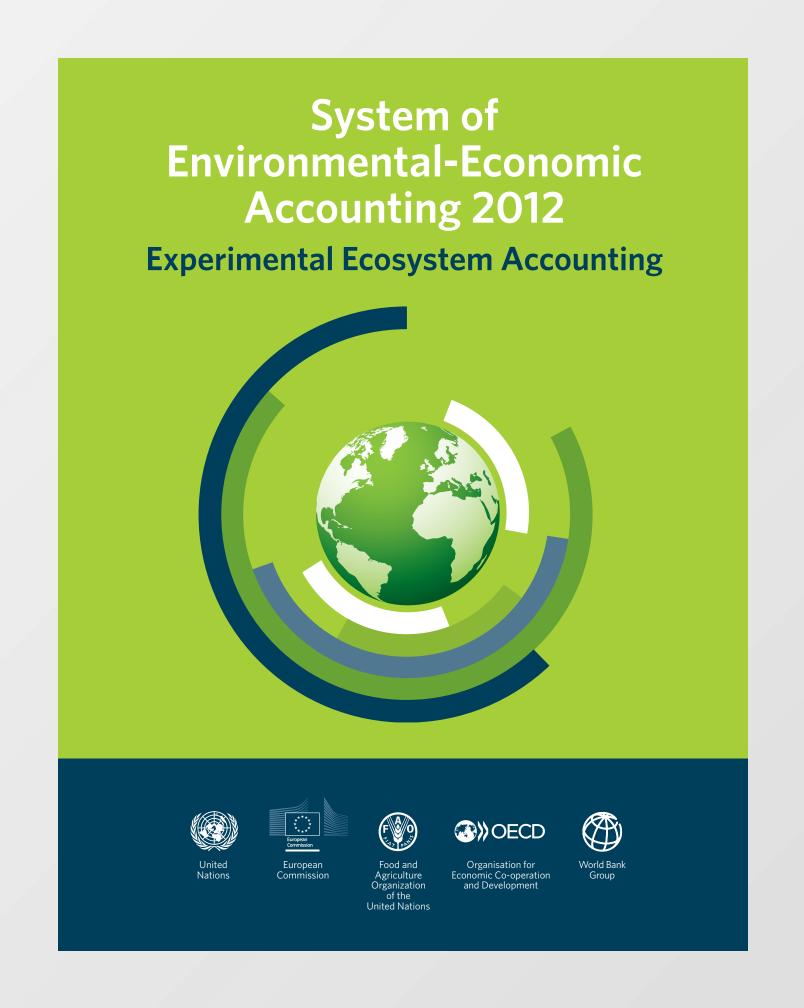
- International statistical standard (2012)
- Broad coverage of topics
 - Water, energy, emissions, waste
 - Environmental activity accounts
 - Minerals, timber, fish, water, soil
 - Land accounting





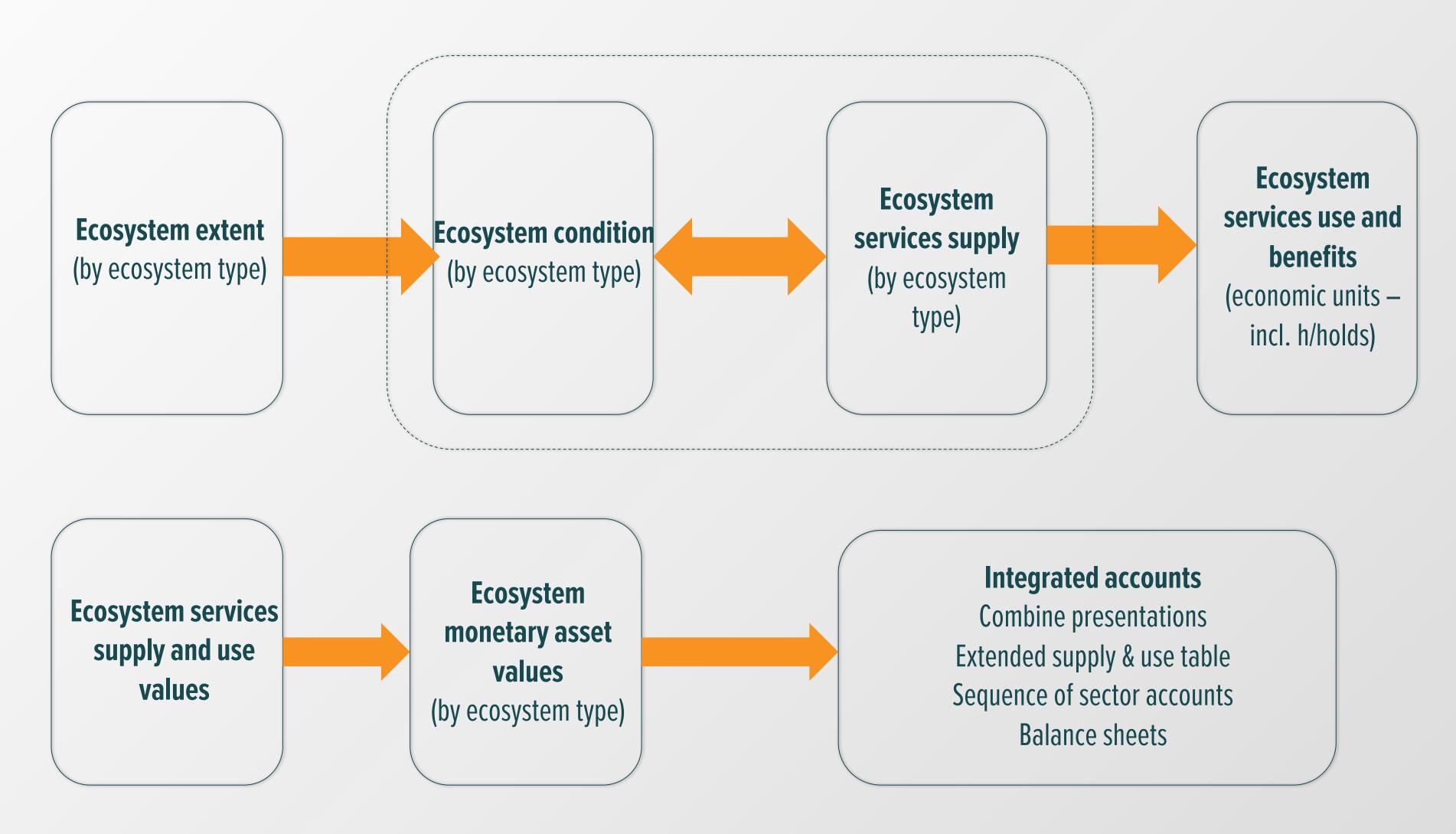
SEEA ECOSYSTEM ACCOUNTING

- First release in 2013
- Takes a systemic view with the economy operating within the broader environmental system
- Focus on ecosystem boundaries: Ecosystem stocks/assets and ecosystem services





STEPS IN ECOSYSTEM ACCOUNTING





SEEA IMPLEMENTATION









ECOSYSTEM SERVICES

CARBON STORAGE AVOIDED SEDIMENTATION ECOTOURISM TIMBER BUSHMEAT FIREWOOD WATER PROVISION



CONTRIBUTION OF ECOSYSTEMS TO THE REGIONAL ECONOMY WAS ESTIMATED AS 191 MILLION PERUVIAN SOL (ABOUT US\$58 MILLION)

WHICH WOULD REPRESENT THE EIGHTH BIGGEST SECTOR IN SAN MARTÍN.

8TH OUT OF 32 SECTORS

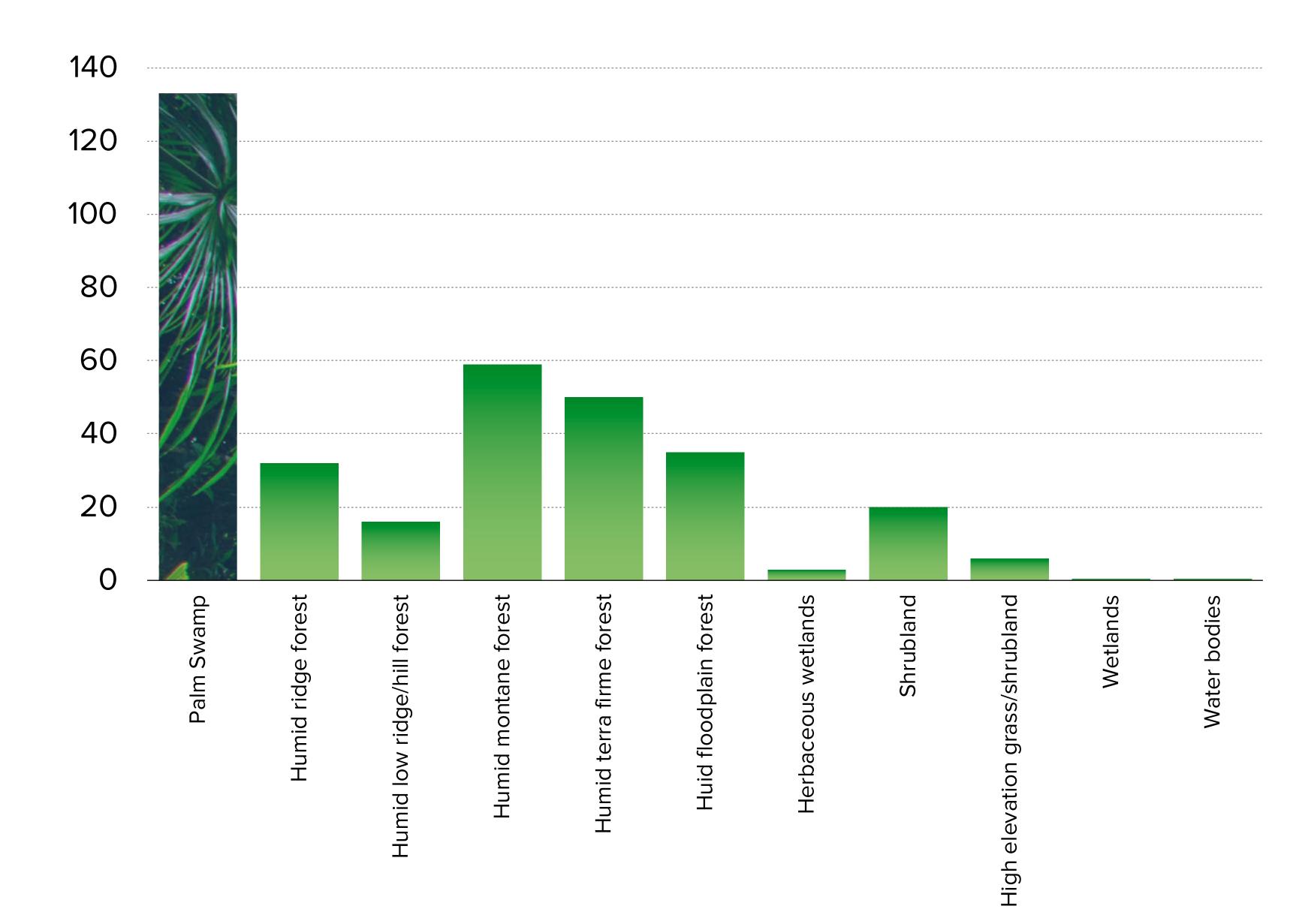


AGUAHE: HIGH VALUE ECOSYSTEMS







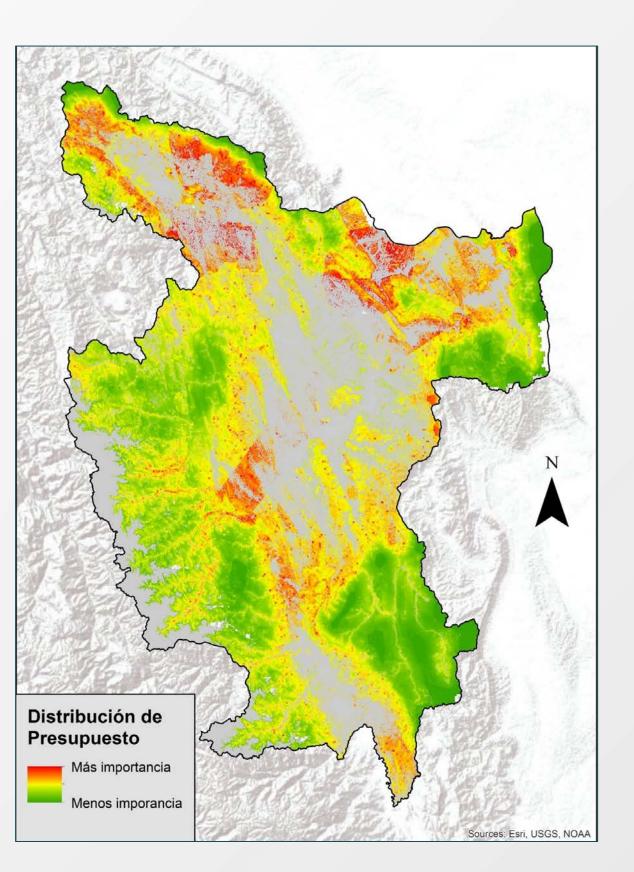


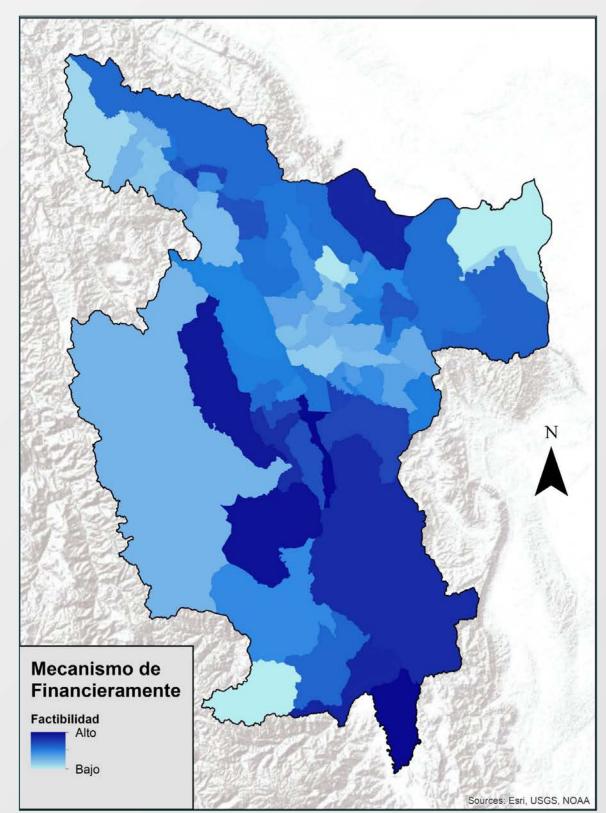
POST ACCOUNTING POLICY APPLICATIONS

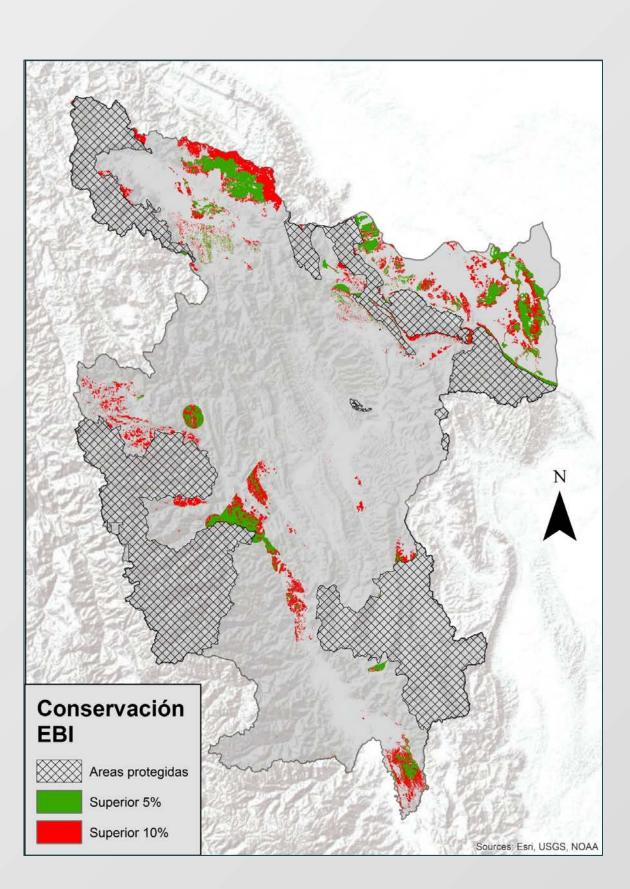
RESOURCE
ALLOCATION

SPATIAL PLANNING

PRIORITY SETTING







Environment and budget allocation



Environmental financial mechanisms



STOCK TAKE OF NCA IN UGANDA

NCA Theme	Temporal	Ecosystem Services considered	Producer /	Uses	Donor
	Coverage		Reference		
Forest	2009	Timber and NTFPs	NEMA (NEMA,	Determine the physical stocks and flows of	WAVES
		Carbon storage/ sequestration	2011)	forestry resources in Uganda	
		Soil protection			
		Biodiversity		Estimate the aggregate contribution of	
		Recreation		forestry resources to the national	
				economy.	
Forest	2015	Timber and NTFPs	MWE / UN-REDD	Analyse the economic value of Uganda's	UN-REDD
		Carbon storage /sequestration	(Oliveria, 2018)	forest resources and demonstrate policy	
		Soil protection		instruments to alleviate pressure on these	
		Disease prevention		natural forest systems.	
		Water quality			
		Inland fisheries protection			
		Maintenance of hydropower capacity			

STOCK TAKE OF NCA IN UGANDA

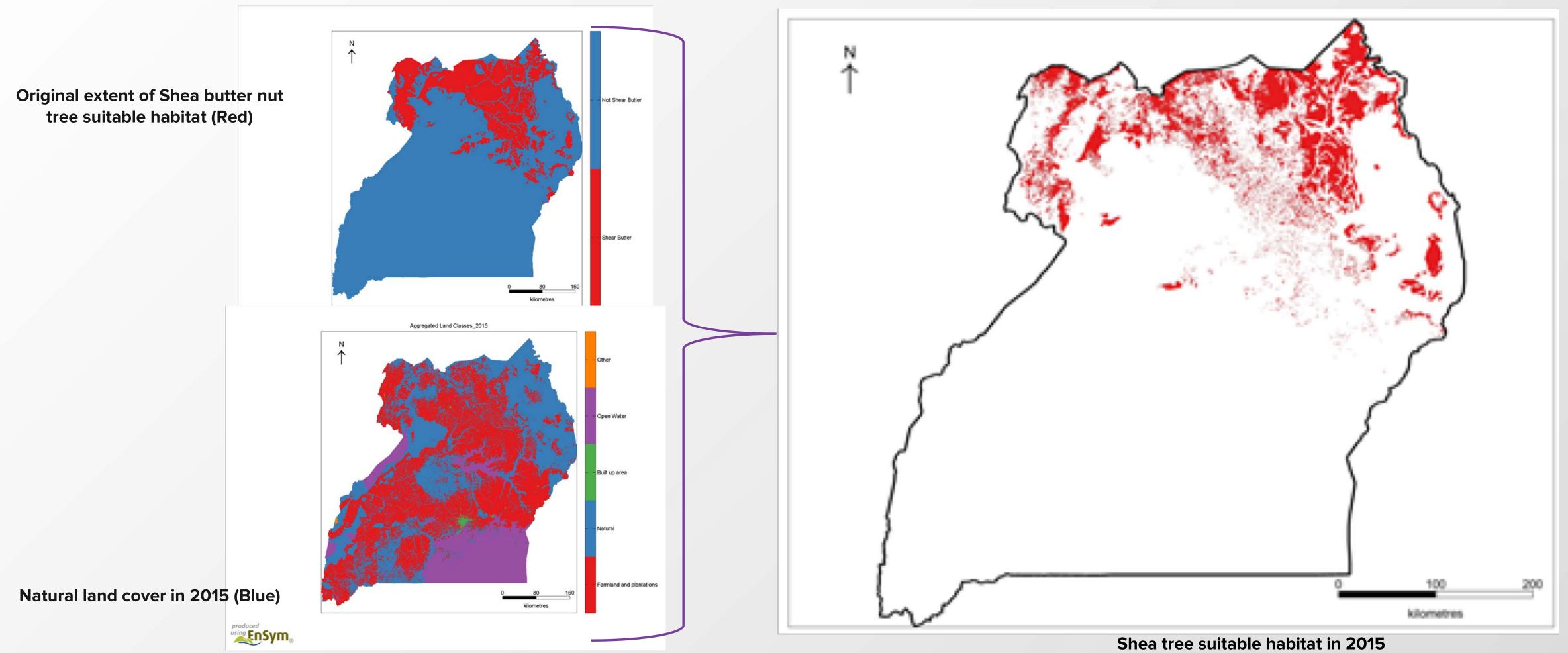
NCA Theme	Temporal	Ecosystem Services	Producer / Reference	Uses	Donor
	Coverage	considered			
Biomass and	1990; 2005	Focus on biomass for	NFA (Diisi, 2009)	Better planning and use of biomass derived energy at	NORAD
Land Cover	(2010 and 2015	energy		national, regional and local levels	
	for Land Cover				
	only)			Address the extent of land cover distribution and a	
				scenario based analysis for different land cover types	
Water	Circa 2011	Water provision	Economic Research Southern	Assesses the water supply and use situation in Uganda	National
			Africa (PhD Project, Kilimani,	and identify under or over utilisation of this resource	Treasury of
			2013)		South Africa
Ecosystems	1990; 2005;	NTFPs / Iconic Species for	UNEP-WCMC, IDEEA, WCS, NPA,	Inform on a set of key policy application relevant to	UNEP
&	2010; 2015	wildlife watching tourism	NEMA (UNEP-WCMC & IDEEA,	biodiversity in Uganda	
Species			2017)		







SHEA BUTTER NUT TREE SUITABLE HABITAT OVER TIME





Pomeroy et al. (2002) Cottray, O., Miles, L. & Newton, A., (2006)

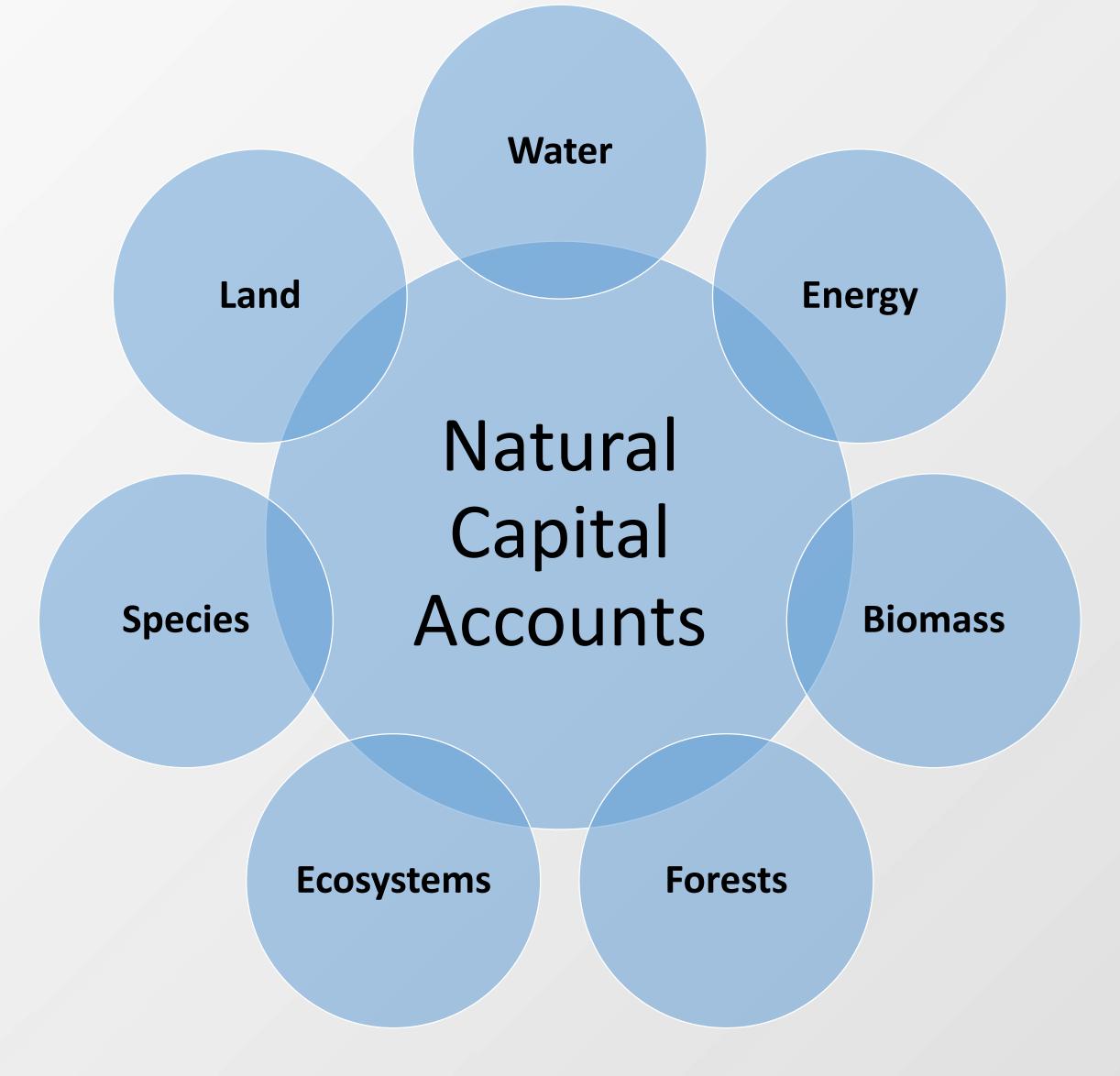
Source: King, S. 2019

SHEA BUTTER NUT TREE ACCOUNT 1990-2015 BY SUB-REGION AND PROTECTED AREA (HECTARES SUITABLE HABITAT)

	ACHOLI	ELGON	KARAMOJA	LANGO	TESO	WEST NILE	Uganda
Original Extent	1,698,092	84,296	831,487	481,236	605,551	986,801	4,687,463
1990	1,021,071	25,823	742,697	132,093	187,845	596,956	2,706,485
% Original Extent	60%	31%	89%	27%	31%	60%	58%
% 1990 extent in Uganda	38%	1%	27%	5%	7%	22%	100%
2015	788,723	15,042	702,678	83,443	91,280	419,758	2,100,924
% Original Extent	46%	18%	85%	17%	15%	43%	45%
% 2015 extent in Uganda	38%	1%	33%	4%	4%	20%	100%
Regionally Protected 2015	72,230	50	302,280	5,689	2,410	59,807	442,466
Regional % Protected	9%	0.33%	43%	7%	3%	14%	21%



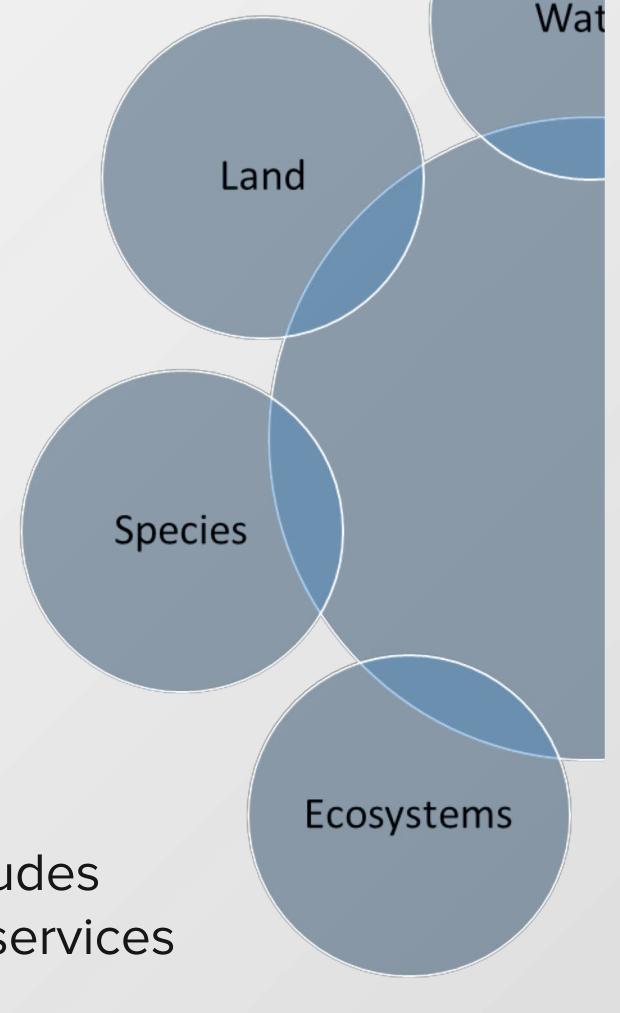
ACCOUNTING FOR NATURE IN UGANDA





ONGOING ECOSYSTEM ACCOUNTING WORK

- Land Degradation: Understand the evolution of soil fertility in order to draw policies for better soil management practices.
 - **Fisheries:** Organise data on declining fish stocks and the implications on the country's exports earnings and livelihoods of its people.
 - Biodiversity and tourism: Organize data on major tourism sites and their species. This will highlight the value of tourism expenditure related to Uganda's iconic species
 - Forest and wetlands: Follow existing ecosystem accounting guidelines includes extent (assets), condition, ecosystem services supply and use







- Knowledge: Natural assets, benefits to economy and livelihoods, distribution of benefits
- Applications: Monitoring, spatial planning, priority setting, resource allocation, compliance, investment decisions

THANKYOU

rportela@conservation.org

CONSERVATION INTERNATIONAL