





Natural Capital Accounts and mainstreaming biodiversity:
Some reflections from South Africa

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NCA Policy Forum
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Overview

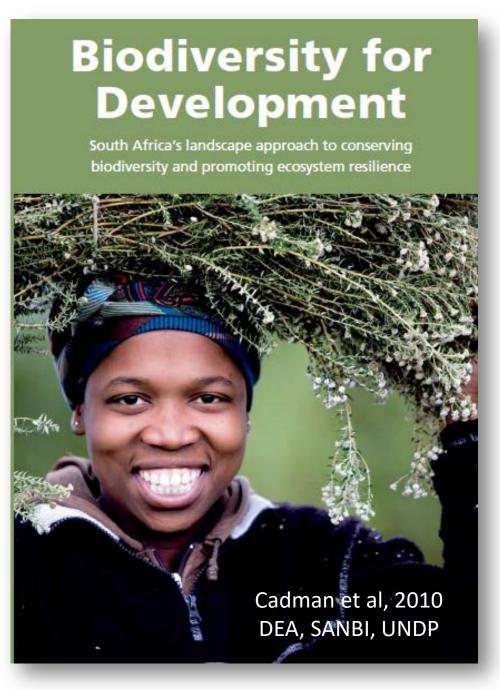
- Ecosystem accounting as a mainstreaming tool in South Africa
- The two "sticky points" from yesterday morning
- Link between ecosystem accounts and biodiversity

Policy priorities in South Africa

- Economic growth
- Unemployment
- Poverty & inequality
- Rural development









Second NBSAP

6 Strategic Objectives

Conserve, manage and sustainably use biodiversity to ensure equitable benefits to the people of South Africa, now and in the future.

2015 - 2025



e.g. through wildlife ranching, nature-based tourism, bioprospecting biodiversity assets and enhance their

economy

contribution to the

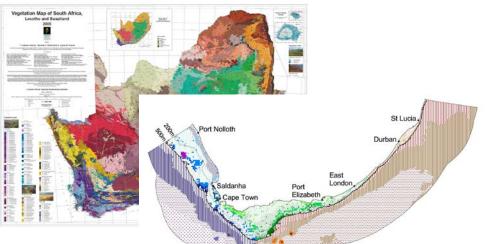
SO 2 Invest in ecological infrastructure to enhance resilience

6. Effective knowledge foundations, including indigenous knowledge and citizen science, support the management, conservation and sustainable use of biodiversity.

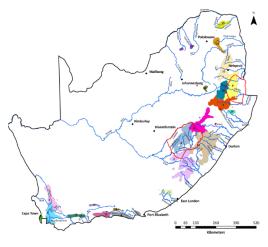
Natural Capital Accounting & Valuation of Ecosystem Services (NCA&VES) Project (2018-2020)

Ecological Infrastructure for Water Security Project (GEF6) (2018 – 2022)

National ecosystem asset accounts terrestrial & marine

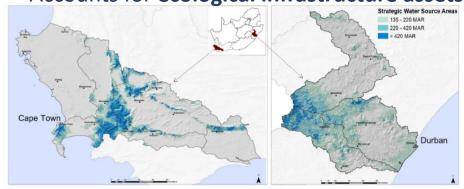


Accounts for **Strategic Water** Source Areas the 10% of land that delivers 50% of water

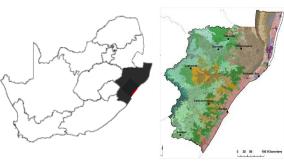


Demo catchments:

- Catchment-level water resource accounts
- Accounts for **ecological infrastructure assets**



Nationa Sub-national



KZN: Full suite of ecosystem asset and ecosystem **service** accounts























Growing momentum for ecosystem accounting in SA

- Statistics South Africa and SANBI working closely together, also with other key stakeholders
 - → NCA unlocks collaboration between non-traditional partners
 - → NSO has strong convening power
- Ecosystem accounts are translating our biodiversity science into an accounting framework
 - → NCA enhances attention and interest
- Powerful platform for mainstreaming with other sectors
 - → NCA opens up new conversations
 - For example with National Treasury

The two "sticky points"

- "NCA is about monetising nature"
- Is there a biodiversity equivalent of headline CO₂ indicators and thresholds for climate change?

Sticky point 1: "NCA is about monetising nature"

Sustainable Development

Environment

Environmental statistics & indicators

Natural Capital Accounts

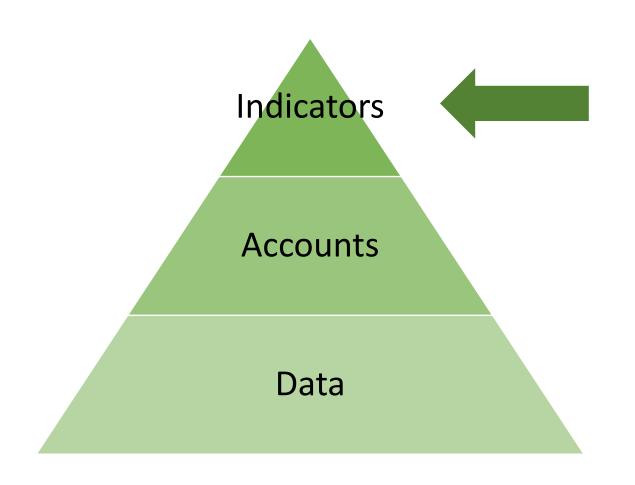
To counteract sticky point 1,
it helps to emphasise that NCA is about
formalising systems for keeping track of ecosystems,
in the first instance in physical terms,
in order to produce consistent, credible statistics

stics & indicators

Economic statistics & indica

National Accounts

Sticky point 2: Is there a biodiversity equivalent of headline CO₂ indicators and thresholds?

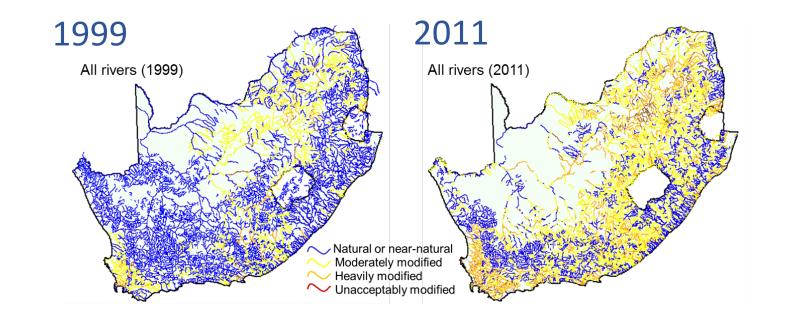


National River Ecosystem Accounts:

Extent and condition of river ecosystem assets (done in ANCA project in 2014)

Based on data from two detailed national assessments by Department of Water & Sanitation





Ecological condition indicators

- Flow
- Water quality
- Instream habitat
- Riparian habitat

Aggregated ecological condition category











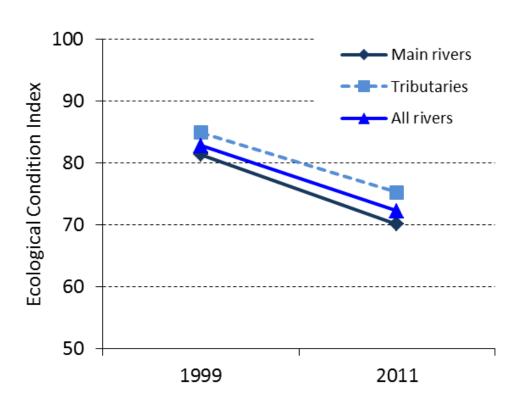






Highest level summary of the Ecological Condition Account:

	Main rivers	Tributaries	All rivers
1999	81.3	84.9	82.8
2011	70.1	75.2	72.2
Change between			
1999 and 2011	-11.2	-9.7	-10.6



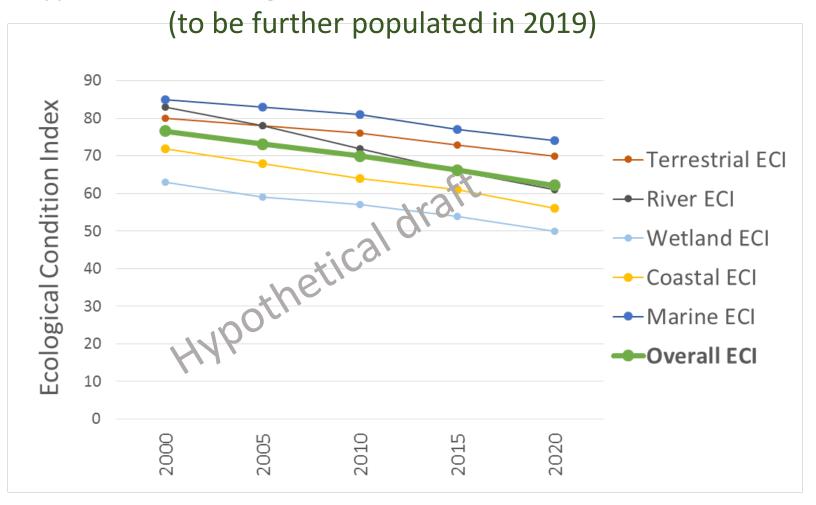
Overall

10% decline in
ecological condition
of rivers
1999 - 2011

Information for national policies, such as
National Water
& Sanitation
Master Plan

Now working towards an **Ecological Condition Index** for all realms, from terrestrial through to offshore marine

Hypothetical Ecological Condition Index for South Africa

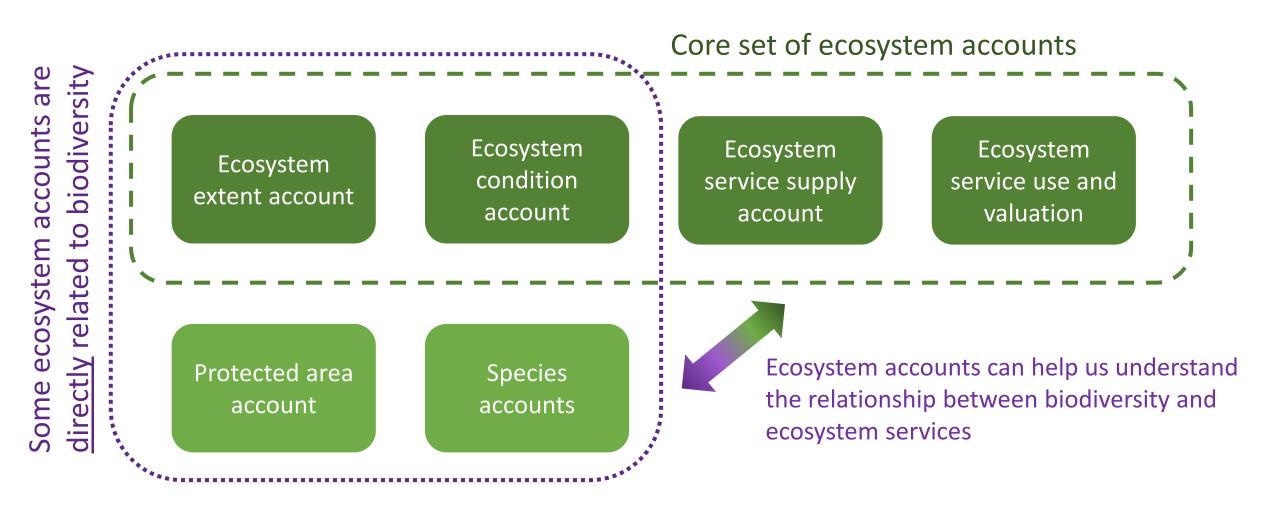


against
critical thresholds for
ecological functioning and
persistence of species,
and could be used to
set targets

What are "biodiversity accounts"?

ecosystem diversity Components of biodiversity species diversity genetic diversity

How do ecosystem accounts relate to biodiversity?*



^{* &}quot;Accounting for biodiversity" rather than "biodiversity accounts"?