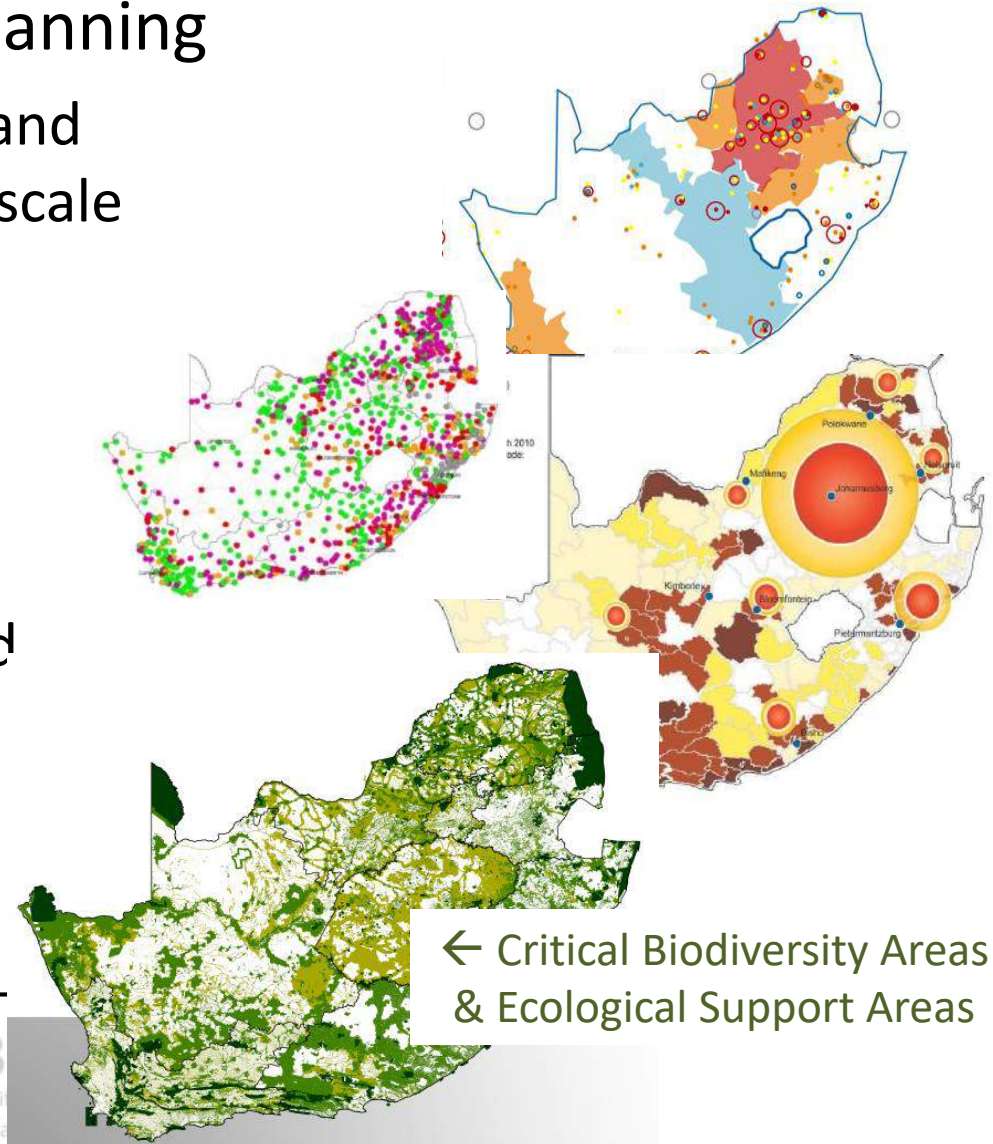


Policy application 1: Spatial planning

- Strategic development planning
 - Understanding synergies and trade-offs at the national scale
- Policy opportunity:
 - National Spatial Development Framework
 - Currently being developed led by the Presidency
 - In support of the National Development Plan



Policy application 1: Spatial planning

- Municipal land-use planning
- Policy opportunity:
 - Spatial Planning and Land Use Management Act (SPLUMA)
 - new system, implementation currently underway
 - Spatial Development Frameworks
 - Land Use Schemes



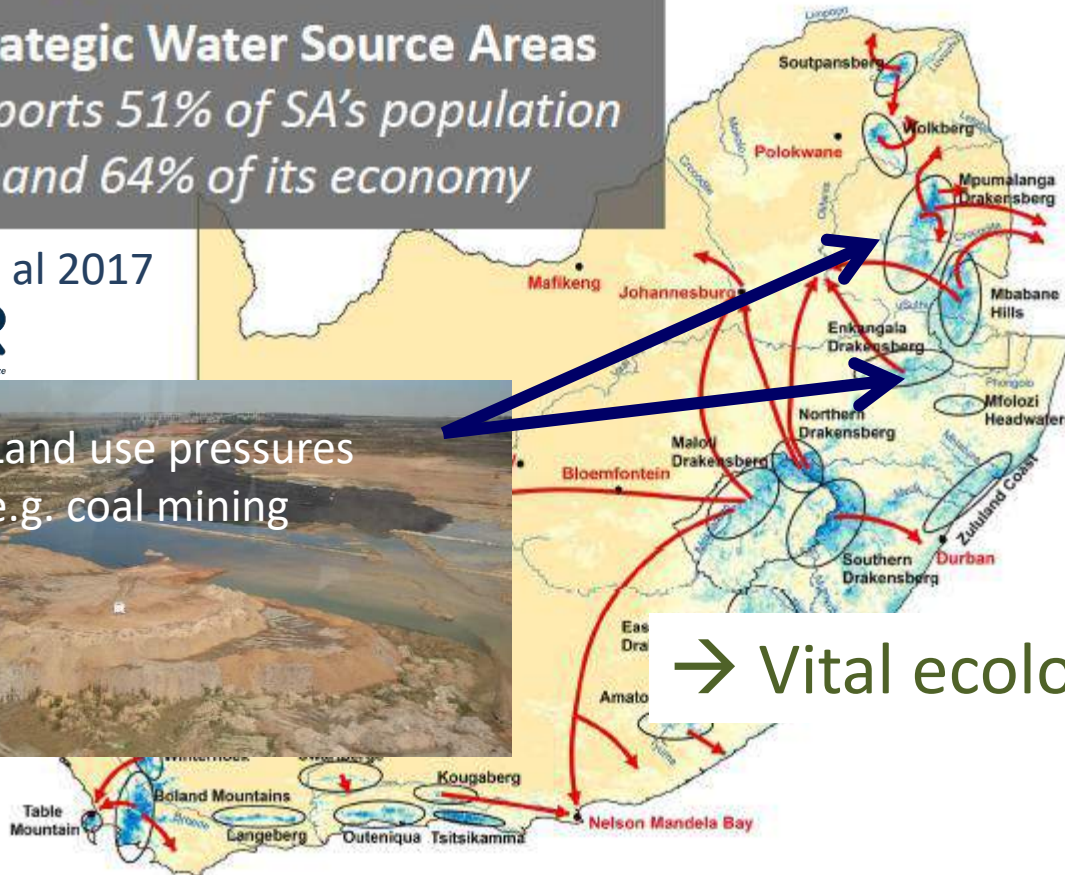
Policy application 2: Water security

Strategic Water Source Areas
*supports 51% of SA's population
and 64% of its economy*

Nel et al 2017
CSIR
our future through science

8% of South Africa's
land area delivers
50% of surface water

Land use pressures
e.g. coal mining



→ Vital ecological infrastructure

Could extract accounts for ecological infrastructure assets
from national land and ecosystem accounts,
to inform better management of these assets

Policy application 3: Investment in ecosystem restoration

Environmental public works programmes in South Africa create thousands of work opportunities every year

Which
ecosystems are
priorities for
intervention?

What is the
return on
investment?

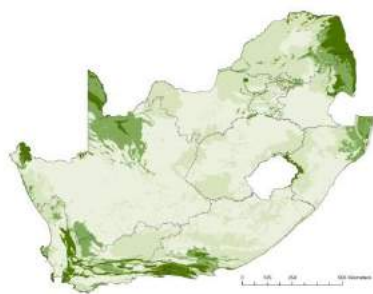


**Wetland restoration
through Working for Wetlands Programme**

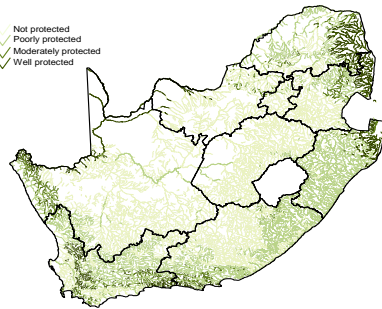
Policy application 4: Protected area expansion

National Biodiversity Assessment

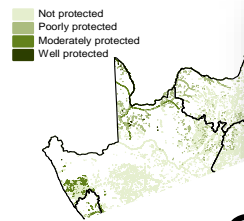
Includes assessment of **ecosystem protection level**:
Are our ecosystems well represented in protected areas?



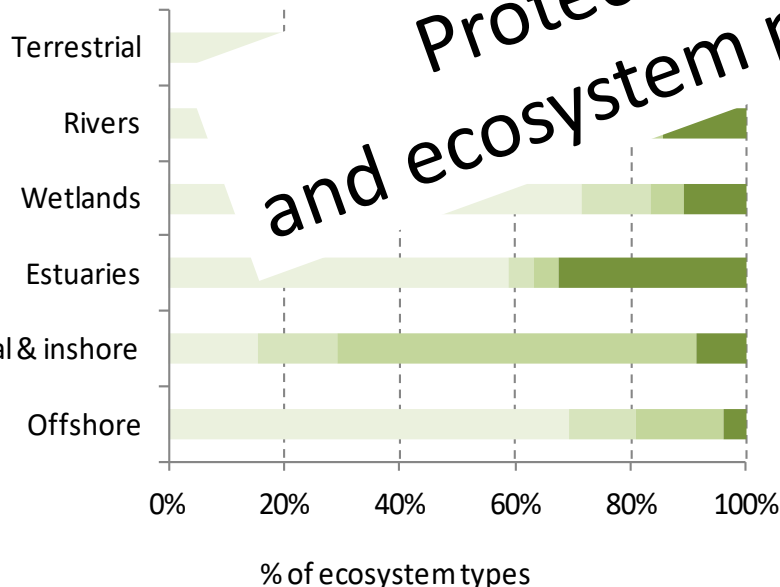
Terrestrial



Rivers



Not protected
Poorly protected
Moderately protected
Well protected



% of ecosystem types

Protected area accounts
and ecosystem protection accounts?

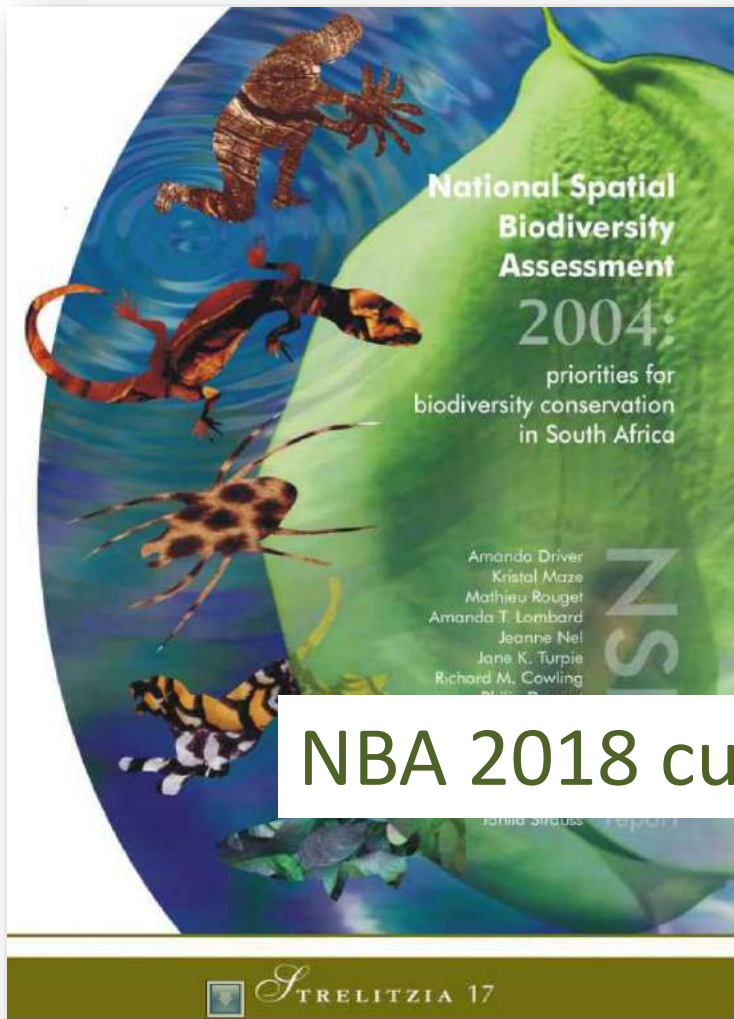
2011 results

Not protected
Poorly protected
Moderately protected
Well protected

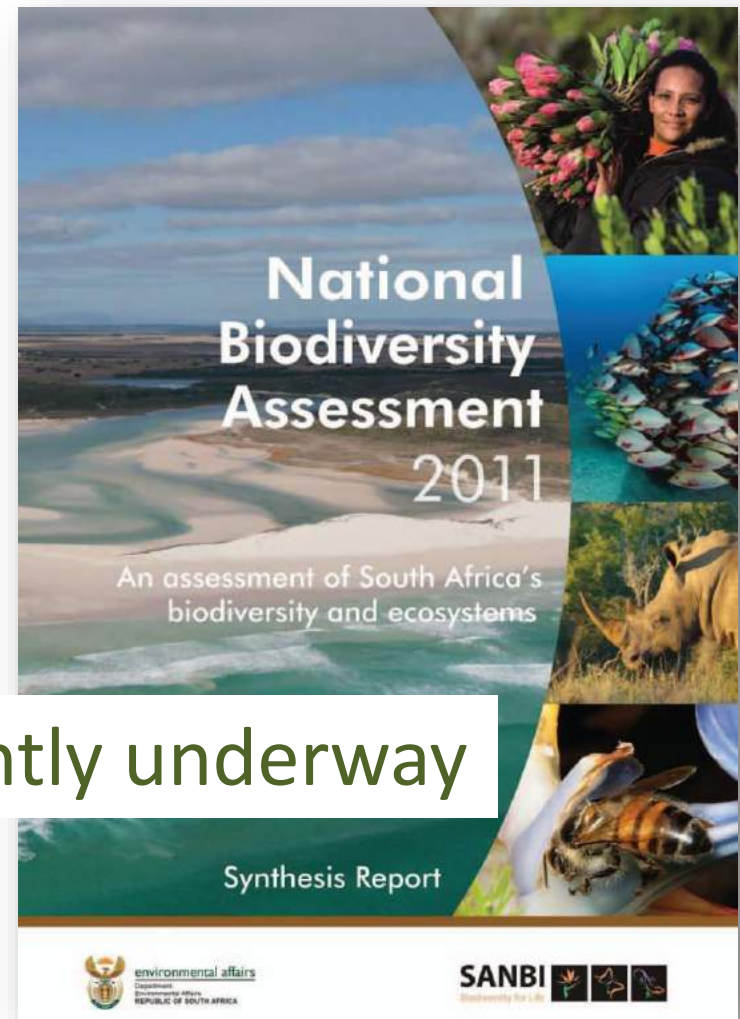




National Biodiversity Assessment provides impetus to gather and consolidate data on ecosystems and species



NBA 2018 currently underway



Headline ecosystem indicators:

Ecosystem threat status

Ecosystem protection level



National
Biodiversity
Assessment

Ecosystem
accounts



Other
indicators &
reporting



National Biodiversity Information System

Foundational data on ecosystems

National Biodiversity Monitoring Framework