



# National Natural Capital Accounting (NCA) Strategy Stakeholder Workshop

#### **Proceedings**

Virtual event (held in the Zoom platform), 18 & 19 November 2020





















#### **Background to this document**

Statistics South Africa (Stats SA), in partnership with the South African National Biodiversity Institute (SANBI), convened a virtual workshop on 18 and 19 November 2020 to gather input from stakeholders on the draft *National Natural Capital Accounting Strategy: a ten-year strategy for advancing Natural Capital Accounting in South Africa*. This document contains a record of the proceedings of this virtual event held on 18 and 19 November 2020.

Stats SA and SANBI appreciate the support provided by:

- The Natural Capital Accounting and Valuation of Ecosystem Services (NCAVES) Project, funded by the EU, and led globally by the United Nations Statistics Division (UNSD) and United Nations Environment Programme (UN Environment), including the Projects' Reference Group members from the Delegation of the European Union to South Africa, UNSD, UN Environment, and Department of Environment, Forestry, and Fisheries (DEFF). The draft National NCA Strategy is an output of the NCAVES Project.
- Members of the NCA Strategic Advisory Group in guiding the development of the National NCA Strategy and supporting the process of development including the stakeholder workshop. Institutions represented on the NCA SAG are DEFF, Department of Planning, Monitoring and Evaluation (DPME), Department of Science and Innovation (DSI), Department of Water and Sanitation (DWS), National Business Initiative (NBI), National Treasury, South African National Parks (SANParks) and Water Research Commission (WRC)
- Individuals from a range of institutions who supported the successful execution of the workshop through planning, chairing, facilitation, note-taking and other support including (in alphabetical order by institution and surname):
  - o DEFF: Mukondi Masithi, Tshifhiwa Munyai, Kiruben Naicker
  - o NBI: Mmaphefo Tshwala
  - SANBI: Malik Dasoo, Mandy Driver, Tanya Layne, Nokuthula Mahlangu, Prideel Majiedt, Alex Marsh, Jenifer Zungu and service provider to SANBI (Patrick O'Farrell)
  - Stats SA: Rob Anderson, Gerhardt Bouwer, Joe de Beer, Riaan Grobler, Brenda Mphakane, Robert Parry
  - o **WRC:** Michelle Hiesterman
  - UKZN Centre for Water Resources Research (CWRR): David Clark
  - o **UN Environment**: William Speller
- Participants of the workshop from 20 institutions.
- The Ecological Infrastructure for Water Security (EI4WS) Project, which is funded by the Global Environment Facility (GEF), implemented by the Development Bank of Southern Africa (DBSA) and executed by SANBI in partnership with a range of private and public partners. The projects' support is most directly through funding for the NCA Project Manager (Aimee Ginsburg) in the planning, coordination and execution of the workshop, and in developing the National NCA Strategy.













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#### Workshop agenda

#### Wednesday 18 November: day 1

NO	WHEN	WHAT	WHO
1	9h00	Welcome	Stats SA
2	9h10	Introductions and rules of engagement	Stats SA
3	9h20	Overview of NCA in South Africa	Stats SA
4	9h50	Overview of the National NCA Strategy	SANBI
5	10h20	Introduction to goal-based discussions in breakaway groups	Stats SA
	10h30	BREAK	
6	10h40	Group session 1 on goals (pre-registered goals)	Facilitator-led discussions
	11h35	BREAK	per group
7	11h50	Group session 2 on goals (pre-registered goals)	
8	12h45	Plenary brief reflective feedback	Stats SA
9	13h00	Close of day	

#### Thursday 19 November: day 2

NO	WHEN	WHAT	WHO
1	9h00	Opening and recap of Day 1	Stats SA
2	9h10	Gathering and reflection exercise	SANBI
3	9h20	Goal 1 feedback to plenary	Facilitator & participants
4	10h00	Goal 2 feedback to plenary	Facilitator & participants
5	10h30	Goal 3 feedback to plenary	Facilitator & participants
	11h00	BREAK	
6	11h15	Goal 4 feedback to plenary	Facilitator & participants
7	11h45	Goal 5 feedback to plenary	Facilitator & participants
8	12h15	Overarching reflections what is going to be make 'the difference' for successful implementation and what is your role/contribution in that?	All
9	12h45	Way forward for the National NCA Strategy	Stats SA
10	12h55	Close of workshop	Stats SA





#### Record of proceedings

Wednesday 18 November: Day 1

#### 1. Welcome

Stats SA Chief Director: Independent Assessment Unit, Gerhardt Bouwer, was the workshop chair. He:

- Opened the workshop.
- Introduced Statistics South Africa's Deputy Director General: Economic Statistics (Joe de Beer to give the welcome address.

#### Stats SA Deputy Director General: Economic Statistics, Joe de Beer, gave the welcome address. He:

- Introduced the purpose of the workshop and the strategy.
- Spoke to Stats SA's involvement in environmental-economic accounting over the past two decades, and the partnerships, funders and projects that have supported its advancement.
- Acknowledged the wide institutional representation on the Strategic Advisory Committee involved in the development of the National NCA Strategy.
- Thanked workshop participants for their time and involvement in this workshop.

#### 2. Introductions and rules of engagement

#### The Chair:

- Went through the rules of engagement.
- Asked participants to write their name, title and organisation into the chat.
- Reviewed the agenda for the day.

#### 3. Overview of NCA in South Africa

The Chair introduced **Stats SA's Director: Environmental Economic Accounts, Riaan Grobler**, to provide an overview of NCA and Stats SA's involvement in it over the past 20 years. Riaan Grobler provided:

- An introduction to NCA and the development of the System of Environmental-Economic Accounts (SEEA).
- A history of Stats SA's involvement in the development of NCA thus far and the partnership with SANBI around developing ecosystem accounts. He emphasized the importance of partnerships, which have involved a number of institutions already.

Refer to Appendix 1 for the presentation.

Clarifying questions	Responses
What the value is of NCA in the	Riaan Grobler: NCA in South Africa is primarily being done in
System for National Accounts (SNA).	biophysical terms and pilot work is being done on monetary
How can the system of national	valuation through the NCAVES Project. The SEEA enables the
accounts be used to contain	linkage between NCA in monetary terms with the core national
information on ecosystems and	accounts of the country (GDP and supply and use tables) using the
natural capital? What is the	System of National Accounts. It was mentioned that there is still a
destination of the SNA in terms of its	lot of work to be done on this.
role in Treasury and other	Gerhardt Bouwer: Added that the SNA only looks at economic
government departments?	activity on behalf of residents of a country, which includes people





Clarifying questions R	esponses
	living abroad. Environmental Economic Accounts, however, are more country specific.
Is there a way to measure ecosystem 'fragmentation' or is this covered under ecosystem extent?	Aimee Ginsburg: The ecosystem extent accounts for terrestrial ecosystems have not included a measure of ecosystem fragmentation. There are, however, examples of this being done in other countries and there are ways for building it into work in the future.  William Speller: Added that in some other countries, ecosystem fragmentation has been used as a condition indicator (e.g. India).
What indicators are available to measure ecosystem quality?	Aimee Ginsburg: The land and terrestrial ecosystem accounts are extent accounts. Data were not available to do condition accounts. The next step would be to create condition accounts for terrestrial ecosystems and other realms. An ecosystem condition index exists and has been used in river accounts. She mentioned that CSIR has developed Experimental Ecosystem Accounts for South Africa's Estuaries that include extent, condition and ecosystem services accounts and that SANBI's Marine Programme is developing accounts for marine ecosystems that should include condition accounts.
There was a large emphasis on the SEEA framework and the oceans account framework has done minor tweaks to the SEEA to make it more ocean and aquatic ecosystemfriendly. Has there been any high-level engagement with the oceans accounting framework?	Riaan Grobler: The NCA PMU have engaged with Ken Findlay.  Prideel Madjiet also confirmed that SANBI have engaged with the Ocean Accounts Framework.
Will the Oceans Accounting for oceans and coast be formally adopted moving forward?	Prideel Madjiet: To her knowledge, it had not been discussed at a department level but that Oceans and Coasts secretariat is aware o it.
Is funding and the role of funders just an operational issue or should it be a part of a goal in the strategy?	It is part of Goal 5.

#### 4. Overview of the National NCA Strategy

The Chair introduced **SANBI NCA: Project Manager, Aimee Ginsburg**, to provide an overview of the National NCA Strategy. She covered:

- The purpose of the strategy and what it offers.
- The NCA value chain and how the strategy supports it.
- How the strategy was developed.
- The levers of change and an overview and orientation of the goals
- An explanation into the purpose and process of the goal-based discussion.

A Mentimeter polling question was presented asking participants what role they see themselves or their institutions as. Results can be seen in Figure 1. Bar chart showing results of participants identification as role players in national NCA strategy

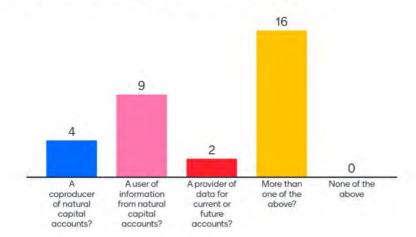
Figure 1. Bar chart showing results of participants identification as role players in national NCA strategy





#### Do you see yourself/your institution as?

Mentimete





Refer to Appendix 2 for the presentation.

Clarifying questions	Responses
Comment made that the strategy is quite a	This should be written up as lessons which can be
deliberate and slow process, which deepens	learned from this. The process could be used as a
engagement.	case study that can be captured for the Ecological
	Infrastructure for Water Security.

#### 5. Introduction to goal-based discussions in breakaway groups

The Chair introduced the goal-based discussions that would take place in five breakaway groups. He:

- Covered the purpose of the breakout groups.
- Explained that both sessions would last approximately 50 minutes with a 15 minute break between them.
- Presented the facilitation teams for each goal (see Table 1).

Table 1. Members of the facilitation teams per goal-based discussion

Goal and short description		Facilitator	Strategy support	Note takers
Goal 1	NCA is widely used	Mukondi Masithi, DEFF	Gerhardt Bouwer	Tshifhiwa Munyai, DEFF
Goal 2	NCA offers credible evidence	Prideel Majiedt, SANBI	Kiruben Naicker, DEFF	Thuli Mahlangu, SANBI
Goal 3	Integrated suite of accounts	Riaan Grobler, Stats SA	David Clark, UKZN CWRR	Jenifer Zungu, SANBI Patrick O'Farrel
Goal 4	Capacity and data	Michelle Hiesterman, WRC	Rob Anderson, Stats SA	Brenda Mphakane, Stats SA
Goal 5	Resources and collaboration	Mmaphefo Tshwala, NBI	Robert Parry, Stats SA	William Speller, UN Environment

Refer to Appendix 3 for the presentation.





#### 6. Group sessions on goals

Participants were moved into the goal-based discussion groups for which they had pre-registered. The results of these discussions were captured by the note-takers and was fed back in plenary on Day 2 of the workshop. The inputs will be integrated into the updated National NCA Strategy document.

#### 7. Plenary brief reflective feedback

The Chair thanked participants for their inputs. Aimee Ginsburg presented a Mentimeter poll which asked participants to enter a word that described the quality of the conversation. Results can be seen in Figure 2. Word cloud illustrating the responses from participants about the quality of conversation of breakout sessions

Figure 2. Word cloud illustrating the responses from participants about the quality of conversation of breakout sessions

# A word to describe the quality of the conversation? e.g. flowing, fragmented...

Mentimeter





The facilitator of each session was asked to give a brief description of how they felt the group discussions went. These were:

- 1. Goal 1, Mukondi Masithi stated that although there were only two participants in the second session, the conversation was highly engaged and interesting. Time was limited in the second session.
- 2. Goal 2, Prideel Madjiedt mentioned that people in both sessions were very engaged with the content of the strategy. As a result of this, the conversation moved into the topic of implementation, who should be involved and how the different types of accounts relate to each other. Time was also a constraint during the second session.
- 3. Goal 3, Riaan Grobler mentioned that the discussion was productive. It was suggested that there were not many people who chose goal 3 despite its importance. Time was mentioned as a constraint. The first strategic objective was completed but only the first two outputs of the second objective were addressed.





- 4. Goal 4, Michelle Hiesterman mentioned that the discussions went well. There was benefit in having experts look at the strategy and provide their guidance especially outside of just a document review format.
- 5. Goal 5, Mmaphefo Thwala mentioned that the discussion was very productive. Inputs assisted with the framing of activities and identifying role players. One highlight was that there was a lot of interest in how the accounts will be prioritised in terms of their funding and implementation. It was also mentioned that there would need to be assistance with the harvesting of stories that are coming out as well as the knowledge management. Michelle was mentioned as someone who could assist in this. In session two, the conversation was productive and the issue of monitoring was raised and how this will be done over time.

#### 8. Close of day

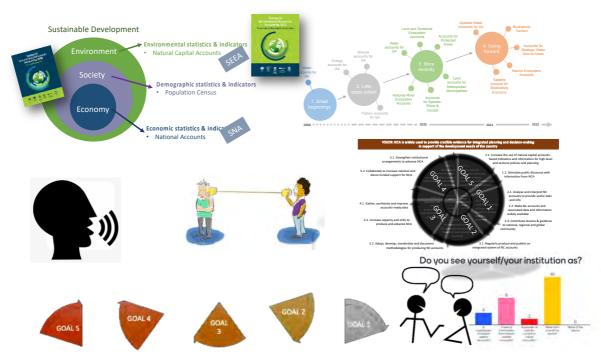
The Chair thanked participants for their inputs. He reminded participants of the agenda for the second day and that comments on the Strategy could still be sent via email to Robert Parry from Stats SA.

#### Thursday 19 November: Day 2

#### 1. Opening and recap of Day 1

The workshop Chair, Stats SA Chief Director: Independent Assessment Unit, Gerhardt Bouwer, presented an overview of the topics discussed on day 1 (depicted in Figure 3).

Figure 3. Pictorial depiction of the overview of day 1 of the stakeholder workshop on the National NCA Strategy



He highlighted that:





- Feedback at the end of the day on the quality of conversation reflected a largely positive picture of productive, insightful, engaging and interesting conversation, but also that the break outs were quite short in some cases and there was a sense of fragmentation.
- Day 2 would provide a chance for further engagement with all the goals.
- For those who were not in day 1 sessions, the thing to adjust to is the amount of detail that you will be presented with.
- Mukondi Masithi made an excellent point in reflection yesterday afternoon (being 18 Nov 2020), which was that this is a Strategy document. It is NOT an implementation plan. The purpose of including indicative activities, funding scenario, key role players etc is so that we get to the texture of what implementation will look like and where it might focus. But it is foremost a Strategy document that should make clear it's vision, goals, Strategic Objectives, and Outputs it seeks to achieve.

#### 2. Gathering and reflection exercise

The Chair introduced SANBI GIS Specialist in Ecosystem Accounts, Nokuthula Mahlangu, to lead a gathering and reflection exercise.

Participants were divided into breakout rooms of three to four people each. They were asked to share their name, organisation and a connection or an insight that is sitting with them from 18 November 2020 that is valuable in their work. If they were not in the workshop on 18 November 2020, participants were asked to share what their interest in NCA is and how they think it might connect to their work.

On returning to plenary, participants were asked to write into the chat the connections or insights that resonated with them from day 1. Results were gathered in the chat and are captured in the table below.

#### A connection or insight about the value of NCA to your work

Role of data science

Importance of NCA to the country

Taking NCA forward will require adaptive management approach (learning by doing)

The importance of continuous funding in addition to project funding. Linking the role of NCA in the Build Back Better narrative

Skills in convening and sustaining communities are important for everyone

Interconnections between goals

Ensure time and space for collaboration as details are worked out

Collaboration and alignment

Need for collaboration when bidding for funding

If the idea is that NCA be used in policy, there needs to be an emphasis on data use (how often it is used, what it is used for and who uses it)

Large interest from various organizations willing to contribute to NCA

Stakeholder collaboration is key for other accounts (water accounts for example)

Importance for a flow of data and need for communicating/framing the results

NCA will lead to partnerships that will strengthen the importance of SEEA

The NCA forum should be used to broaden the contributions of what NCA work is already taking place in SA

There was a large focus on implementation of the strategy highlighting peoples' eagerness to actioning it

National departments are key stakeholders especially with regards to their role as data providers for NCA

Having a set standard for data vetting, use and analysis that is applied across all institutions using NCA terrestrial and marine realms





The effective use of existing data and work rather than starting fresh each time. This provides scope for collaboration and sharing

The need for public-private partnerships has never been greater

Accessibility and availability of NCA data

Use of uniform standards and adherence to specific quality criteria are critical

The need for linking SDGs to NCA for ecosystems and services

Capacity building on how to apply agreed standards in the management of datasets is also critical.

Support to meet quality data requirements for different accounts as prescribed by Stats SA

#### 3. Goal 1 feedback to plenary

**SANBI NCA: Project Manager, Aimee Ginsburg** presented an overview of the results from the previous day's discussion. Goal 1 is that *NCA* is used for integrated planning, decision-making, monitoring and evaluation across a range of sectors. She emphasized that Goal 1 is about uptake and application of the NCA offer (which is developed in Goal 2) and understanding the user's needs. This is why developing value propositions is part of the indicative activities under this Goal. There was general agreement on the outputs and activities in Goal 2.

In response to comments on the presentation of strategic objectives and outputs, with indicative activities that would support these, she presented a slightly different way of presenting these. See Table 2 below.

Table 2. Presentation of Goal 1 strategic objectives and outputs, with indicative activities





Strategic	1.1. Increase the use of natural capital accounts-based indicators and								
objective	<b>information</b> for hig	h-le	n-level and sectoral policies and planning						
	1.1.1. Evidence of	1.1	.2. NCA value	1.1	.3. NCA value	1.1	.4. Monitor		
Outputs	strategic	pro	position	proposition statement		and report on			
Outputs	engagements and	sta	<mark>tement</mark> for public	for	private sector	<mark>upt</mark>	ake and use		
	dialogues	sec	ttor <mark>developed</mark>	dev	<mark>/eloped</mark>	of I	NC accounts		
	☐ Strategic		Dialogue with key		Organise info sharing		Track use of		
	engagements		users		<mark>events</mark>		NCA		
	□ Dialogues		Organise info		Explore how NCA can		publications		
			sharing events		be used by private		and indicators		
			Include indicators		sector and how		in the IIF that		
			on SA Env online		private sector can		draw		
			platform		support it		information		
			Explore use in trade		Explore use in		from natural		
			off analysis &		assessment of risk,		capital		
			scenario making		opportunities, and		accounts		
Indicative			Explore use as a		financial exposure		Value		
activities			tool to inform policy		(financial sector, <mark>all</mark>		creation		
			and planning e.g.		commercial entities)		evaluation		
			MTSF		Explore use in trade-		Data		
			Explore links with		off or scenario		downloads		
			NT budget		analysis, forecasting,				
			transparency		and footprint				
			programme		measures				
			Develop a value		Develop a value				
			proposition		proposition				
			statement		statement				





0							
Strategic objective	1.2. <b>Stimulate public discourse</b> with information from NCA						
	1.2	2.1. Opportunities	1.2	2.2. Present material to enable	1.2	2.3. Information and	
Outputs	created and used to share information from natural				products disseminated		
	ca	pital accounts					
		Work with Stats SA		Develop key messages		Regularly develop	
		comms to share info		Promote NCA literacy		information	
		Create standing agenda		NCA presentations = broader		Maintain updated	
		on annual State of		outreach		website info	
		Environment Report CoP		Present at regional events in		Explore ways to	
		Develop and roll out		Africa		include NCA	
Indicative		comms plan for		Make presentations and inputs		information in	
Indicative activities		stimulating discourse		on NCA at international		interactive and online	
detivities				deliberation/negotiations		dissemination	
						platforms and tools	
						maintained by Stats SA	
						Maintain a list of NCA	
						stakeholders	
						Send a bi-annual email	
						update.	

#### 4. Goal 2 feedback to plenary

Prideel Majiedt presented an overview of the results from the previous day's discussion. This included:

- There was general agreement on the outputs and activities in Goal 2.
- There were general comments that the goals and activities within Goal 2 should speak explicitly to how they relate to the goals and activities of other Goals.
- It was mentioned that there is a lack of clarity on what energy accounts would cover.
- It was suggested that a mapping of the stakeholders and role players involved in Goal 2 would be useful.

#### Discussion in plenary:

The energy accounts are developed using the energy balance from the Department of Energy. It includes different energy commodities (coal, crude oil, petroleum products, solar, geothermal, nuclear hydro and gas are some examples). Using supply and use tables, one is able to determine how much energy was produced by those commodities, how much was consumed and how much was lost in distribution

There was a question about how to put in place measures to ensure that information from accounts is not misrepresented, misinterpreted or misused.

There was a suggestion to add the distribution of data in a spatial format as well as in spreadsheets in strategic objective 2.2.1.1.

There was a suggestion to add academic institutions to the list of key role players.

There was a suggestion for stronger integration of different types of accounts from different sources. The combination of different accounts could be used in making statements about bigger issues

There was a point made on the linkage/integration of different types of accounts and demonstrating their use which speaks to activity 2.1.1.12. An example of mining-related accounts was cited to highlight the usefulness of combining spatial information with the amount extracted by mining. This could then be linked with other spatially explicit ecosystem accounts, water accounts etc.





#### 5. Goal 3 feedback to plenary

Riaan Grobler presented an overview of the results from the discussion on 18 November 2020. In general the group participating in Goal 3 felt the entire strategy was comprehensive in its current form and that nothing is missing. There was a suggestion that there needs to be more emphasis that the entire strategy hinges on Goal 3.

Riaan spoke to the role of different potential stakeholders as data providers (particularly those involved in energy and water accounts). There was a recommendation to include role players outside of national departments (universities, non-profits, companies etc.).

#### Discussion in plenary:

Is there a way of identifying what constitutes an integrated suite of NCAs?

Are there any thematic areas of accounts missing from the strategic objective 3.1? No suggestions of additional thematic areas were made.

Is there a UN list of themes to be covered by accounts?

Suggestion that priorities be identified for national big-picture issues and then to map out how natural capital accounts may provide for them. Example given of the issue of water security and information from NCA related to the topics of energy, ecosystems and mining, which would help with the goal of integration. Estuaries are accounts that should be considered further due to their overlap between terrestrial and

estuaries are accounts that should be considered further due to their overlap between terrestrial and marine realms.

Important to understand the links among different accounting frameworks and methods. Principles and indicators from different frameworks may be the same or similar and it is therefore important to use methods that are most appropriate for each context provided their alignment is understood

#### 6. Goal 4 feedback to plenary

Michelle Hiesterman presented an overview of the results from discussion on 18 November 2020. There was a general recommendation that it would be very important that the producers of accounts work very closely with data providers and support the development of a data library.

#### Discussion in plenary:

Important to keep in mind that the data requirements attempt to set standards and prescripts for data that is used in accounts rather than data that is disseminated from the creation of accounts.

Capacity-building in how to apply agreed standards in datasets is critical. There may also be a need to map out the stakeholders that are involved in capacity development as it was mentioned in goal 1,2,3 and 4.

There was a suggestion that the technology (especially GIS) being used needs to be carefully considered when developing accounts. Different software systems are used by different institutions and have different implications and challenges.

SAEON placed emphasis on the importance of data definitions in the technological interoperability of datasets coming together. Datasets can then be linked through a vocabulary of key words to make it easy to pull data from where it is to where it needs to go. Data, maps and visualisation systems can then be drawn from for aggregated/disaggregated information for the public.

It was suggested that GMET be explored to use and that these systems be put in place early on so that information can be carefully used throughout a project.

It was suggested that an application programming interface be developed to link metadata through developed vocabularies and will assist in the integration of NCA into online spatial visualizations and tools SAEON will be included as a key role players for the activities contained in goal 4.

There was discussion about the difference between politically and ecologically-defined boundaries for defining ecosystem accounting areas.

There needs to be engagement with policy-makers about how ecosystems are defined, particularly under the Coastal Management Act.





#### **Discussion in plenary:**

SDG reporting advocates for bridging tables to highlight the difference between legal/official definition of ecosystems/assets and real-world change. Bridging tables may be a good starting point to report on both to understand changes.

#### 7. Goal 5 feedback to plenary

Mmaphefo Thwala presented an overview of the results from the discussion on 18 November 2020. There was consensus on the strategy being comprehensive. The discussion included:

- Increasing the list of key role players.
- Placing more emphasis on private-public partnerships.
- Being more explicit in reference to funding opportunities with suggestions being to prioritise NCA accounts data to be funded and differentiate between low res and high-res.
- Ecological infrastructure should be viewed as infrastructure and prioritized accordingly for funding
- There was quite a bit of discussion around funding sources. NCA needs to looked at as a having a need for continuous funding, as an ongoing initiative funded by government, because of the usefulness of accounts for all line ministries. Funding sources can be linked to accounts e.g. Climate finance.

The importance of recognizing the success of the accounts that have been developed and using them to inform the process of building other accounts was highlighted. Collaboration is very important especially in the process of 'building back better' post COVID.

#### 8. Overarching reflections

The Chair led discussion in the session on overarching reflections, asking for reflection on what is going to make the difference for successful implementation and what the different institutions role or contribution might be. Contributions are captured in the table below.

#### Responses

Will Speller (UN Environment) noted that demonstrating the links to policy would be useful to make the development of accounts demand driven. The example of China's gross ecosystem product was cited to show how this work becomes embedded in policy work. Ecological redlines were also cited to show how ecosystem services get embedded into policy planning. He added information on how to link NCA development to global themes like the UN decade of restoration, which shows demand for case studies on restoration that can be measured and demonstrated in an effective way. Another example given was the 2020 post Covid agenda. There is a lot that South Africa is doing and still can do to showcase success of the accounts to the rest of the world. This is where Will sees his role to support this.

Kiruben Naicker (DEFF) mentioned that his role overlaps slightly with Will Speller. Kiruben mentioned that although good work is being done, it needs to be taken to policy makers. This links to Goal 1 and 5, which seek to demonstrate results to funders and decision-makers. The goal cycle is well-done because policymakers can come in and mobilise resources for NCA development. Developing principles of cocreation is fundamental for NCA development and are well-reflected throughout the goals. We should not underestimate the role of enthusiasm and optimism in SA, which comes from community of practice and it needs to be taken up by champions of NCA work.

Michelle Hiesterman (WRC) raised the importance of building on a community of practice. When doing so, one asks for participants to commit time and energy and one most importantly want to see an increasing sense of identity. This workshop provides a good example of how best to do that. Next step is to identify how NCA is affecting decisions and how It is being applied across sectors, which will help in identifying institutional challenges to the uptake of NCA.





Aimee Ginsburg (SANBI) reflected on the value of having developed relationships through working together (working slow enough). Building relationships and capacity is a social process that must be given time, and cautioned that that be built into how we work in implementing the strategy. The key will be to figure out how to work slowly together and to work out who other stakeholders are beyond immediate circles so that work does not get constrained by current capacity and we expand and sustain NCA work.

Gerhardt Bouwer (Stats SA) spoke to the importance of building partnerships and building stronger networks for communication. There is also a need to work closely with social and economic statistics to dispel the idea that this community only works with the environment to highlight the interlinkages with social and economic pillars of statistics.

Erika Brown (SAEON and Nelson Mandela University) mentioned that, as a representative in the community of practice on WP2 via SAEON and NMU, her role will be to drive the development of Ocean Accounts Framework in Algoa Bay as a case study of how to integrate SEEA and NCA in the marine, coastal and offshore realms.

Participants were asked to respond to two Mentimeter polling questions. The results are given in Figure 4 and Figure 5. Word cloud illustrating words participants used to describe how they feel about the strategy

Figure 4. A chart illustrating participants' responses to whether and how they will provide inputs and ideas to the Strategy.

# Will you provide further input or ideas into the Strategy?

Mentimeter

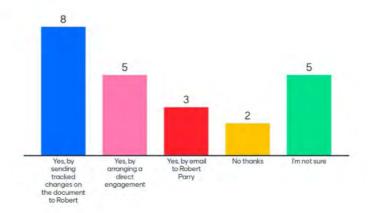




Figure 5. Word cloud illustrating words participants used to describe how they feel about the strategy





Mentimeter

# Give a word for how you feel about the Strategy





#### 9. Way forward for national NCA strategy

The Chair went through the way forward for the National NCA Strategy. Refer to **Appendix 4** for the presentation. It was emphasized that:

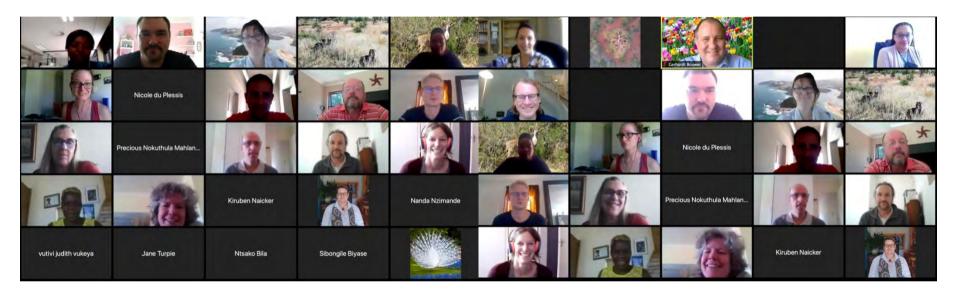
- Additions to the strategy can still be made until the 30<sup>th</sup> of November 2020.
- Additional comments should be sent to Robert Parry from Stats SA RobertP@statssa.gov.za).
- Land and Terrestrial Ecosystems Accounts, 1990 to 2014 discussion document will be released on the 2<sup>nd</sup> of December 2020 at 13h00 on the Stats SA website (www.statssa.gov.za), which is the first publication in Stats SA's Natural Capital series.



# National NCA Strategy Stakeholder Workshop, 18-19 November 2020



## Workshop participants Virtual group photo taken on Day 2





# National NCA Strategy Stakeholder Workshop, 18-19 November 2020



#### List of participants for both days

Number	Name	Organization	18-Nov-20	19-Nov-20
1	Aimee Ginsburg	South African National Biodiversity Institute	Yes	Yes
2	Amelia Hilgart	South African Environmental Observation Network (SAEON)	Yes	Yes
3	Barney Kgope	Department of Environment, Forestry & Fisheries	Yes	
4	Brenda Mphakane	Statistics South Africa	Yes	Yes
5	Cecilia Njenga	UN Environment Programme	Yes	
6	David Clark	Centre for Water Resources Research, University of KwaZulu-Natal	Yes	Yes
7	Elijah Mogakabe	Department of Water and Sanitation	Yes	Yes
8	Erika Brown	SAEON and Nelson Mandela University	Yes	Yes
9	Flora Mokgohloa	Department of Environment, Forestry & Fisheries	Yes	
10	Galaletsang Keebine	South African Environmental Observation Network (SAEON)	Yes	
11	Gerhardt Bouwer	Statistics South Africa	Yes	Yes
12	Gwen Gosney	TCTA	Yes	
13	Jackie Jay	Department of Water and Sanitation	Yes	Yes
14	Jane Turpie	Anchor Environmental Consultants		Yes
15	Jenifer Zungu	South African National Biodiversity Institute	Yes	
16	Jo Douwes	eThekwini Municipality	Yes	
17	Joe de Beer	Statistics South Africa	Yes	
18	Kiruben Naicker	Department of Environment, Forestry & Fisheries	Yes	Yes
19	Lara Van Niekerk	Council for Scientific and Industrial Research (CSIR)	Yes	Yes
20	Lebogang Matlala	Department of Water and Sanitation	Yes	
21	Malik Dasoo	South African National Biodiversity Institute	Yes	Yes
22	Mark Thompson	GeoTerralmage	Yes	
23	Michelle Hiestermann	Water Research Commission	Yes	Yes
24	Mmaphefo Thwala	National Business Initiative	Yes	Yes
25	Mukondi Masithi	Department of Environment, Forestry & Fisheries	Yes	
26	Nancy Job	South African National Biodiversity Institute	Yes	Yes
27	Nanda Nzimande	Department of Environment, Forestry & Fisheries	Yes	
28	Ndileka Mohapi	Department of Water and Sanitation	Yes	
29	Nicole du Plessis	South African Environmental Observation Network (SAEON)	Yes	Yes
30	Nnini Tsiu	Department of Planning, Monitoring and Evaluation (DPME)	Yes	



# National NCA Strategy Stakeholder Workshop, 18-19 November 2020



Number	Name	Organization	18-Nov-20	19-Nov-20
31	Ntombovuyo Madlokazi	Department of Environment, Forestry & Fisheries	Yes	Yes
32	Ntsako Bila	Department of Environment, Forestry & Fisheries	Yes	
33	Patrick O'Farrell	Independent consultant	Yes	Yes
34	Precious Nokuthula Mahlangu	South African National Biodiversity Institute	Yes	Yes
35	Prideel Majiedt	South African National Biodiversity Institute	Yes	Yes
36	Riaan Grobler	Statistics South Africa	Yes	Yes
37	Rob Anderson	Statistics South Africa	Yes	Yes
38	Robert Parry	Statistics South Africa	Yes	Yes
39	Ruud Jansen	Gaborone Declaration / Conservation International	Yes	
40	Sarah Polonsky	Department of Environment, Forestry & Fisheries	Yes	
41	Stephan Veldsman	Gauteng Department of Agriculture and Rural Development		
42	Susan Taljaard	CSIR		Yes
43	Thomas van Viegen	NCFA / EARTH.INC	Yes	
44	Tshifhiwa Munyai	Department of Environment, Forestry & Fisheries	Yes	
45	Vutivi Judith Vukeya	Department of Environment, Forestry & Fisheries	Yes	Yes
46	Wandile Nomquphu	Water Research Commission	Yes	
47	Willem Prinsloo	Cashan Environmental Services	Yes	
48	William Speller	UN Environment Programme	Yes	Yes
49	Yuval Tchetchik	Department of Environment, Forestry & Fisheries	Yes	Yes
50	Jabu Sithole	eThekwini Municipality	Yes	Yes

#### Appendix 1. Natural Capital Accounting for South Africa

## Natural Capital Accounting for South Africa

Riaan Grobler

Director: Environmental Economic Accounts

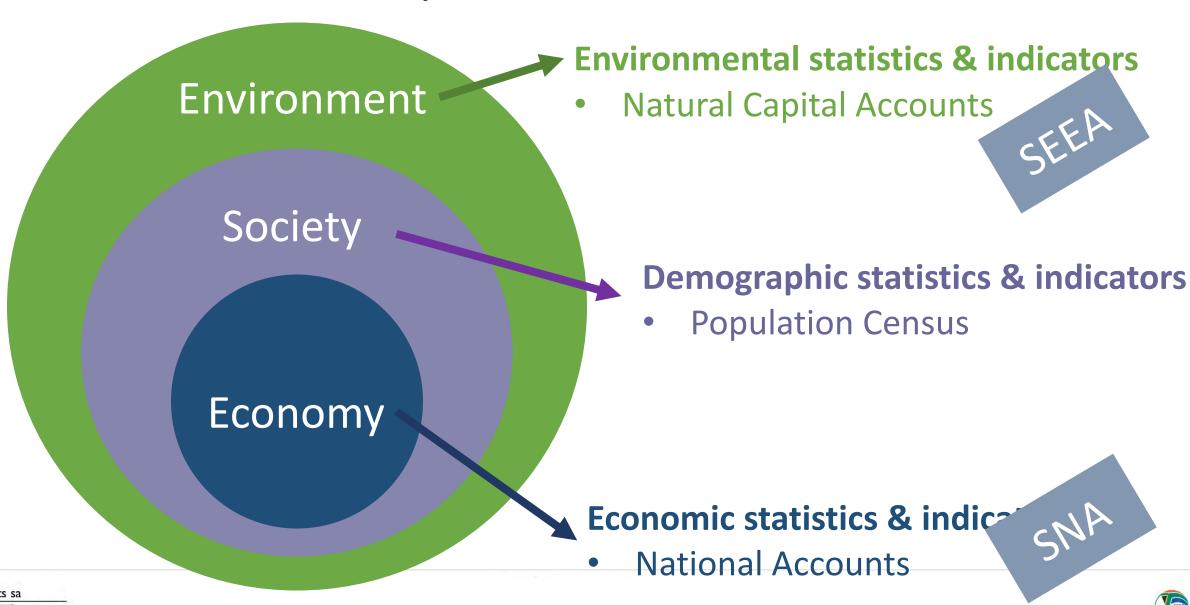
NCA National Workshop

18 November 2020



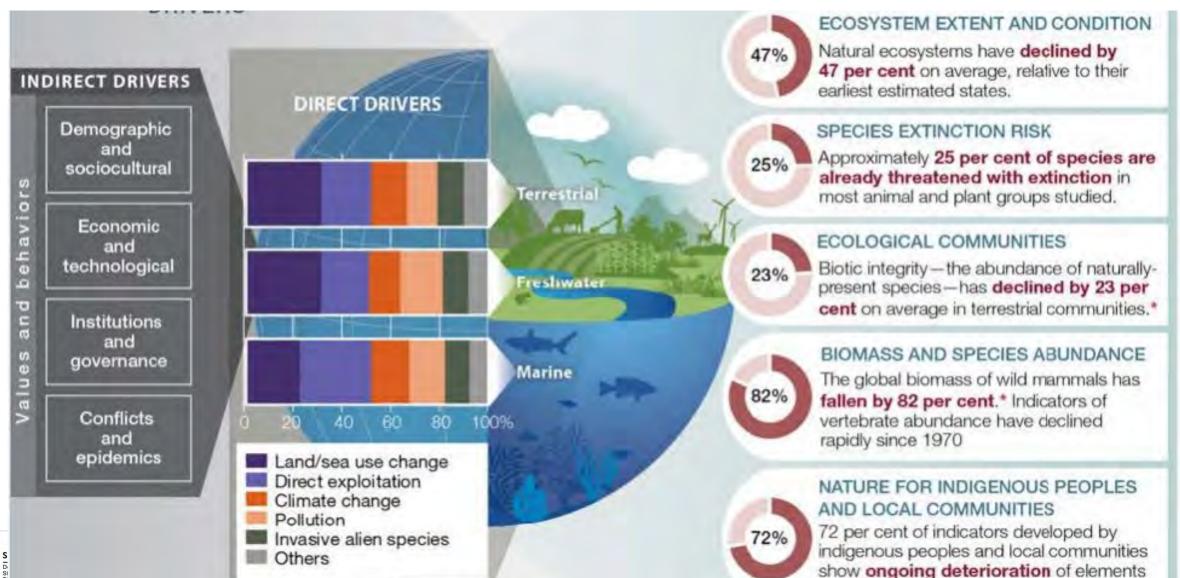


## Sustainable Development





First global assessment of biodiversity & ecosystems has highlighted pressures on nature and consequences







### **Natural Capital Accounts**

→ Response to global environmental crisis

 Need to understand what's happening in the natural environment and its implications for the economy and society







# The measurement framework for NCA is the **System of Environmental-Economic Accounting**. It includes...

SEEA Central
Framework: Accounts
for stocks and flows of
individual natural
resources

e.g. minerals, water, timber, fisheries



SEEA Experimental
Ecosystem
Accounting: Accounts
for ecosystem assets
and ecosystem
services

System of Environmental-Economic Accounting 2012
Experimental Ecosystem Accounting

Ex

Natural Capital
Protocol: Accounts for impacts on ecosystems and natural resources at the level of a business

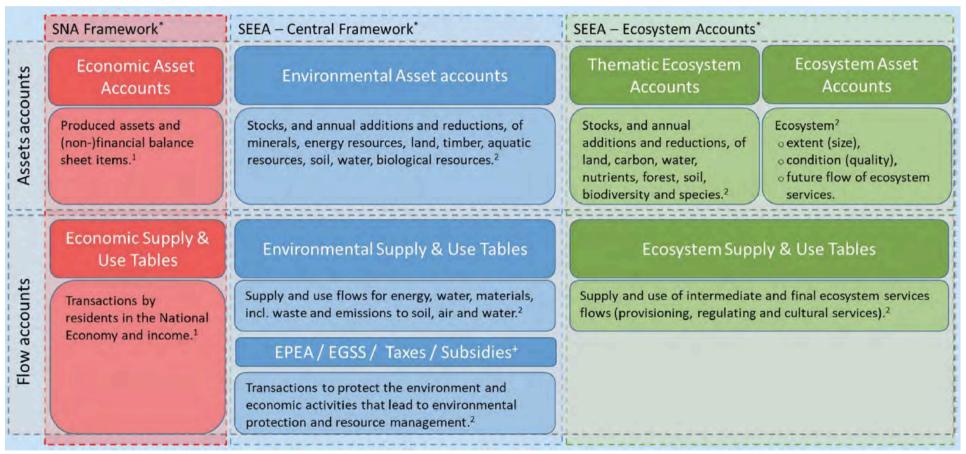






## The scope of SEEA is broad









# What is the "accounting approach"? How do accounts add value?

- Standardised concepts and definitions
- Systematic regular measurement and recording, comparable over time
  - BUT don't have to wait for perfect data
- Provides info that can be used in many contexts
  - e.g. policy, research (think of the many ways population census data is used)
- NCA translates scientific information about natural resources and ecosystems into a language that reaches a wide range of audiences





#### Accounts are not always about money

- Natural capital accounts are always done in biophysical terms.
- Examples of things that are important to society that are measured in non-monetary terms, like literacy rates, matric pass rates, infant mortality rates, unemployment levels or life expectancy.
- The same is true for ecosystems their importance and value to society can be captured in a range of statistics and indicators, many of which are nonmonetary.







"The future of policymaking and implementation is upon us and experience has taught us that without measurement, our boat will not sail far." (Mr Jackson Mthembu, Minister in the Presidency)

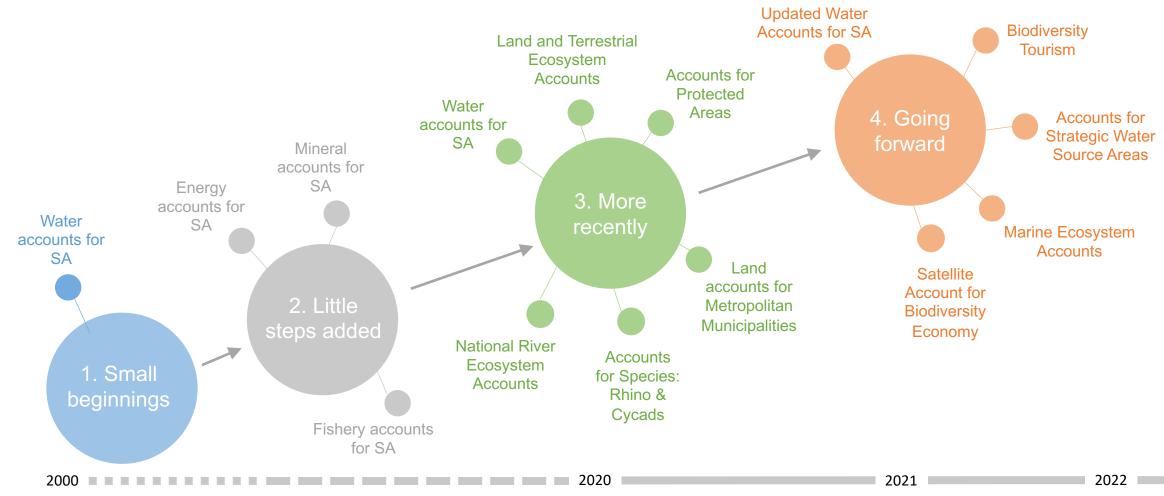
Stats SA Strategic Plan (20/2021 – 2024/25) vision: 'Improving lives through data ecosystems'





#### Statistics South Africa investment in NCA









































Development Bank

of Southern Africa









# Examples of Natural Capital Accounts developed more recently...





# Initial ecosystem accounts as part of Advancing Natural Capital Accounting (ANCA), 2014-2015





stats sa

Department: Statistics South Africa REPUBLIC OF SOUTH AFRICA

















#### **Seven pilot countries:**

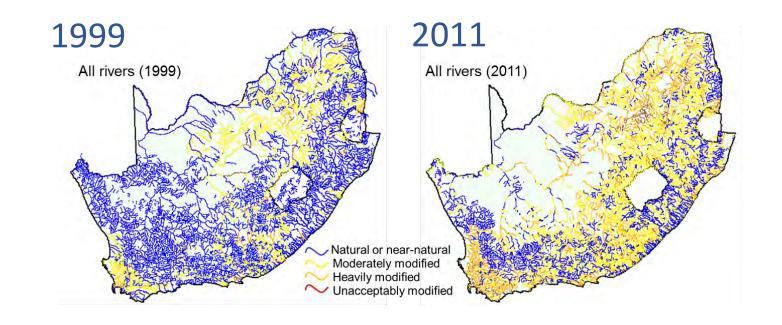
Bhutan, Chile, Indonesia, Mauritius, Mexico, South Africa, Vietnam

# ANCA project: National River Ecosystem Accounts:

Extent and condition of river ecosystem assets

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

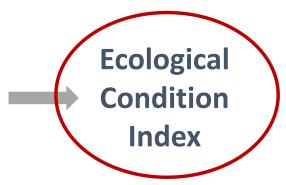




# Ecological condition indicators

- Flow
- Water quality
- Instream habitat
- Riparian habitat

Aggregated ecological condition category











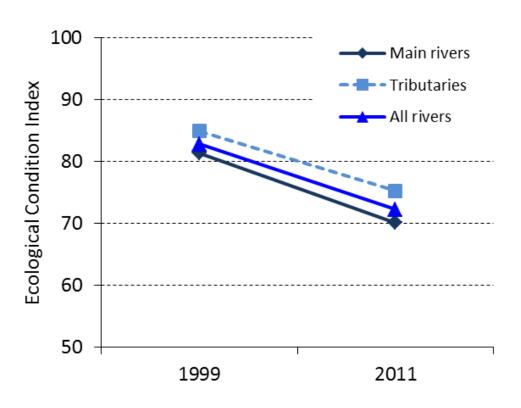






## Highest level summary of the Ecological Condition Account:

	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

# Natural Capital Accounting & Valuation of Ecosystem Services (NCA&VES) project

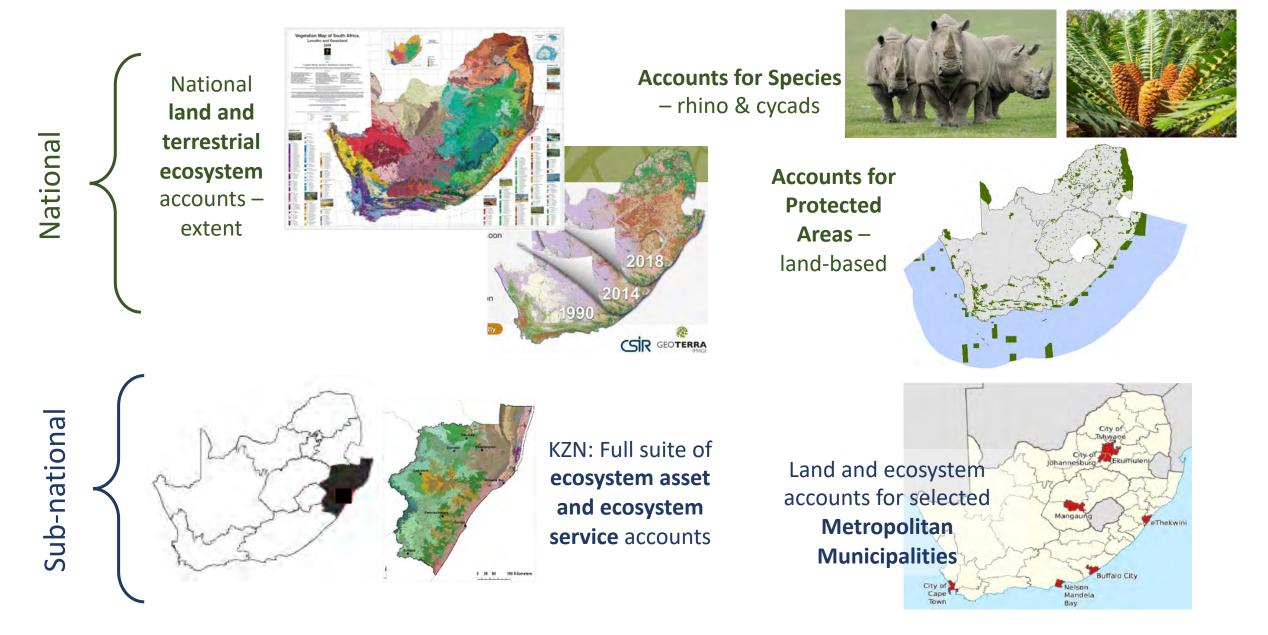


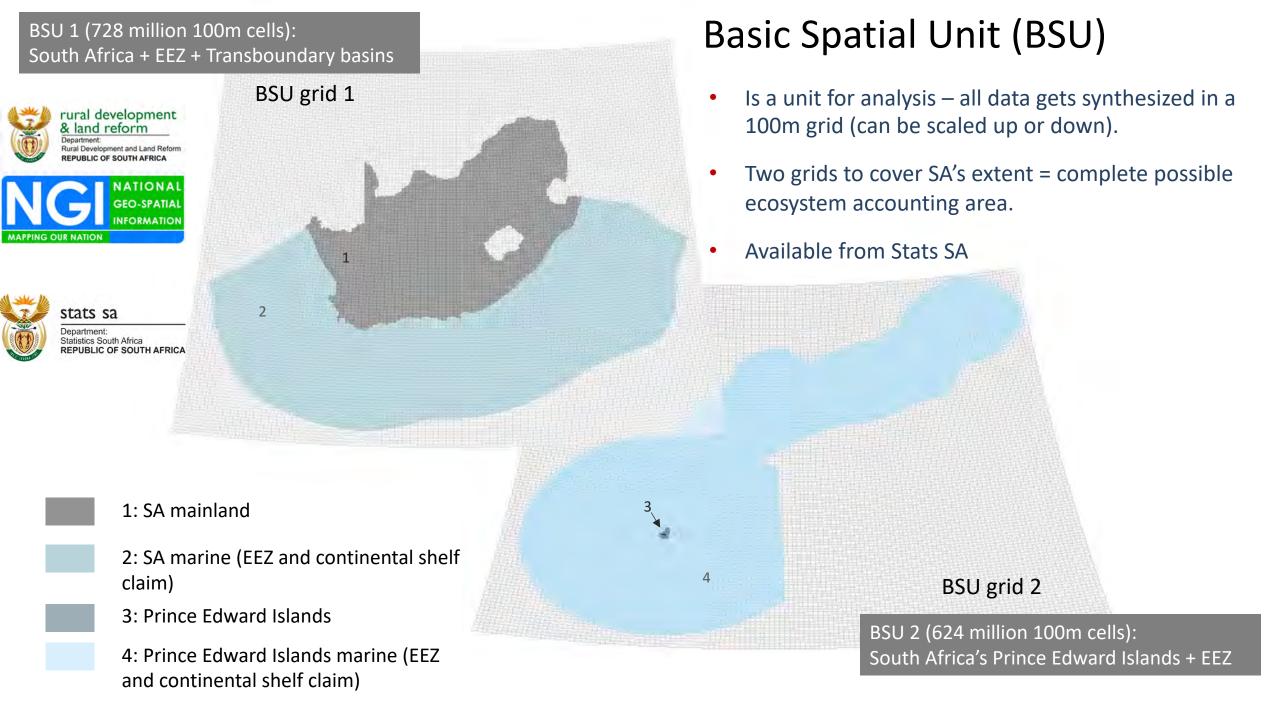
Five pilot countries: Brazil, China, India, Mexico, South Africa



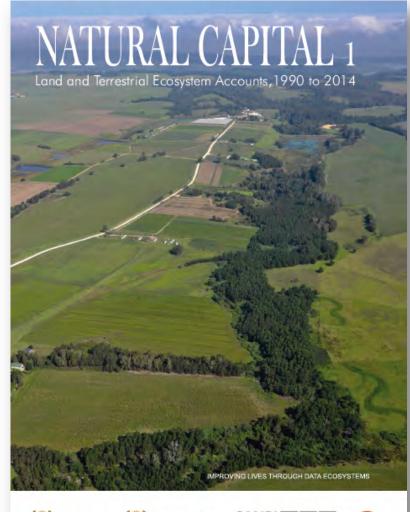


## Accounts produced in NCAVES Project in South Africa





## SA's land and terrestrial ecosystem accounts



environmental affairs

SA

Salamental

Salamental

Salamental

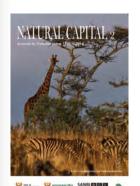
Salamental

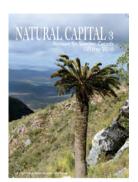
South

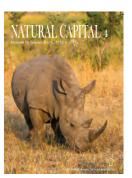




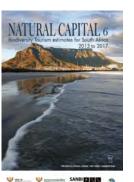
- Report results at different levels:
  - National
  - Provincial
  - District Municipality
- First publication in Stats SA's new Natural Capital series

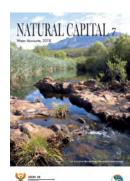








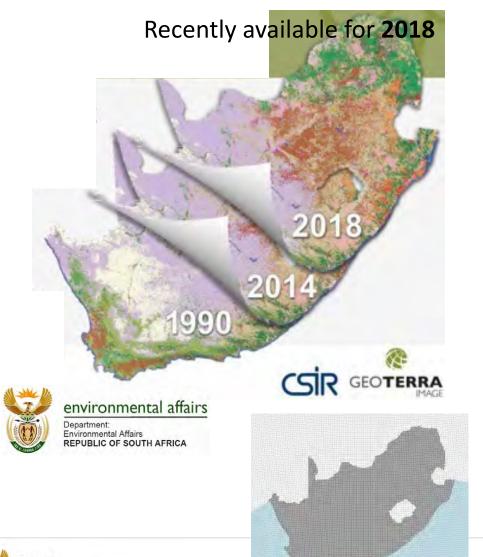


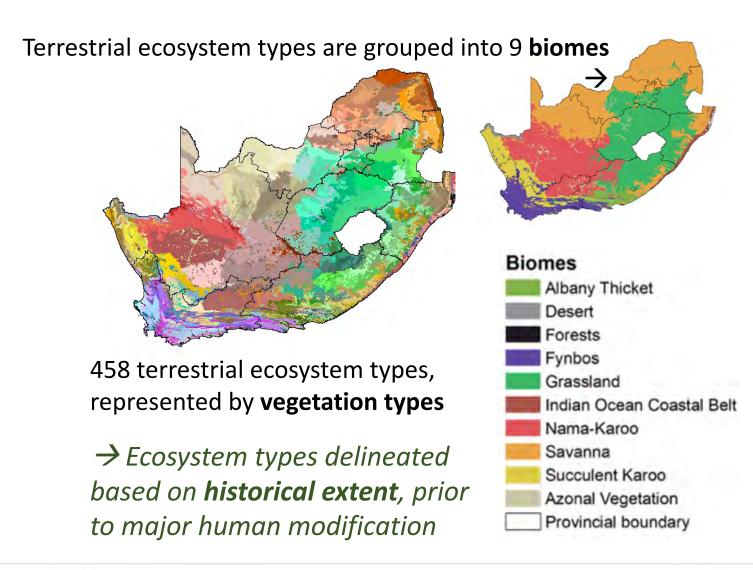






## Foundational data layers









### Grouping of 72 National Land Cover classes into nested tiers

Broad land cover M classes		Main land cover classes	Detailed land cover classes	National Land Cover (NLC) classes Tier 4: 72 classes		
		Tier 2: 8 classes	Tier 3: 20 classes			
	Natural or semi- natural	Natural or semi- natural	Natural or semi-natural	8 land cover classes		
		Commercial crops	Cultivated commercial fields Cultivated commercial pivots Sugarcane	4 land cover classes 3 land cover classes 6 land cover classes		
	Cultivated	Subsistence crops	Subsistence crops	3 land cover classes		
		Orchards and vines	Orchards Vines	3 land cover classes 3 land cover classes		
		Timber plantations	Timber plantations	3 land cover classes		
	Built-up	Urban	Urban parkland Urban industrial Urban commercial Urban built-up Urban residential Urban township Urban informal Urban smallholding Urban village Urban school and sports ground	4 land cover classes 1 land cover class 1 land cover class 1 land cover class 4 land cover classes 1 land cover classes		
		Mines	Mines	5 land cover classes		
	Waterbodies	Waterbodies	Waterbodies	3 land cover classes		

Natural or semi-natural classes grouped as a single class at Tier 1, 2 and 3

## Intensively modified classes:

- align with intensity of ecological impact
- economic drivers in the landscape as far as possible



## Land account for broad land cover classes (tier 1) at the national level, 1990–2014, in hectares

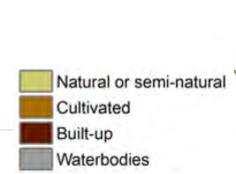
Broad land cover classes (tier 1)	Natural or semi-natural	Cultivated	Built-up	Waterbodies*	TOTAL
Opening stock 1990	100 710 016	16 156 026	3 003 883	2 096 528	121 966 453
Additions to stock	3 366 559	1 991 959	597 238	288 754	6 244 510
Reductions in stock	2 540 175	2 339 226	400 503	964 606	6 244 510
Net change in stock	826 384	(347 267)	196 735	(675 852)	
Net change as % of opening	0.8%	-2.1%	6.5%	-32.2%	
Unchanged (opening - reductions)	98 169 841	13 816 800	2 603 380	1 131 922	
Unchanged as % of opening	97.5%	85.5%	86.7%	54.0%	
Turnover (additions + reductions)	5 906 734	4 331 185	997 741	1 253 360	
Turnover as % of opening	5.9%	26.8%	33.2%	59.8%	
Closing stock 2014	101 536 400	15 808 759	3 200 618	1 420 676	121 966 453

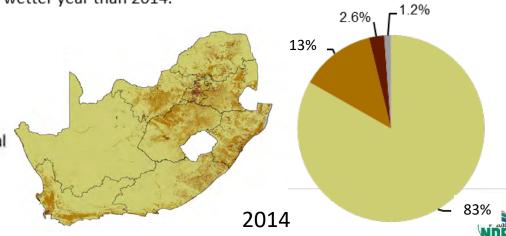
<sup>\*</sup>The large net decrease in the extent of waterbodies reflects primarily that 1990 was a much wetter year than 2014.

By far the majority of South Africa's land area is natural or semi-natural

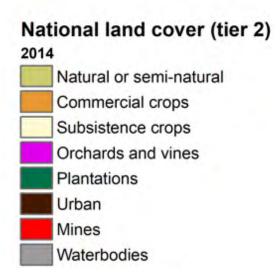
Not much change between 1990 and 2014 at the national level for tier 1 – BUT this hides a lot of sub-national variation and

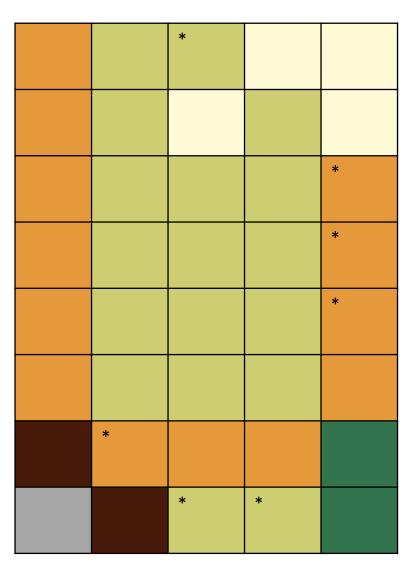
hanges at tier 2 and 3

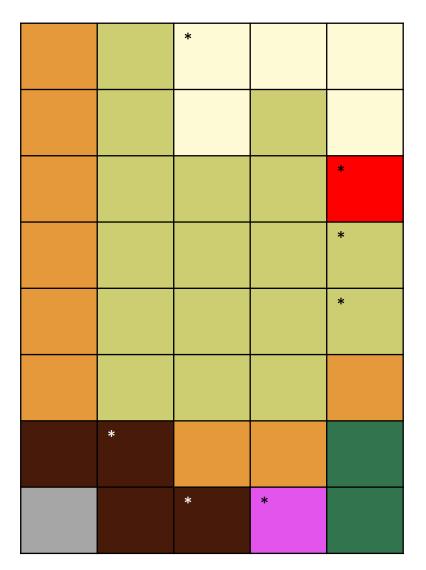




1990 2014







Basic spatial units





## Extent account for terrestrial ecosystem types summarised by biome

Natural biomes derived from National Vegetation Map

**Intensively modified biomes** derived from National Land Cover

,										•	•	•		
	Albany						Nama-		Succulent	Azonal		Built-	Water-	
Biomes	Thicket	Desert	Forest	Fynbos	Grassland	ЮСВ	Karoo	Savanna	Karoo	vegetation	Cultivated*	IID*	bodies**	TOTA
Historical extent	3 531 231	626 207	462 518	8 165 366	33 090 325	1 171 284	24 936 548	39 418 522	7 821 579	2 742 873			_	121 96 45
Additions to extent	0	0	0	0	0	0	0	0	0	0	16 156 026	3 003 883	2 096 528	21 256 43
Reductions in extent	230 091	8 237	70 673	2 253 375	11 330 606	619 656	420 995	5 396 119	251 373	675 312	-	-	-	21 256 43
Net change in extent Net change as % of	(230 091)	(8 237)	(70 673)	(2 253 375)	(11 330 606)	(619 656)	(420 995)	(5 396 119)	(251 373)	(675 312)	-	-	-	
historical	-6,5%	-1,3%	-15,3%	-27,6%	-34,2%	-52,9%	-1,7%	-13,7%	-3,2%	-24,6%	-	-	-	
Closing extent 1990	3 301 140	617 970	391 845	5 911 991	21 759 719	551 628	24 515 553	34 022 403	7 570 206	2 067 561	16 156 026	3 003 883	2 096 528	121 96 45
Opening extent 1990	3 301 140	617 970	391 845	5 911 991	21 759 719	551 628	24 515 553	34 022 403	7 570 206	2 067 561	16 156 026	3 003 883	2 096 528	121 96 45
Additions to extent	44 432	1 142	24 900	241 184	1 444 446	75 114	146 910	1 160 055	38 422	189 954	1 991 959	597 238	288 754	6 244 51
Reductions in extent	36 008	1 260	7 689	196 035	1 180 183	63 783	78 038	885 303	33 631	58 021	2 339 226	400 503	964 606	6 244 28
Net change in extent Net change as % of	8 424	(118)	17 211	45 149	264 263	11 331	68 872	274 752	4 791	131 933	(347 267)	196 735	(675 852)	
opening Net change in relation to historical	0,3%	0,0%	4,4%	0,8%	1,2%	2,1%	0,3%	0,8%	0,1%	6,4%	-2,1%	6,5%	-32,2%	
extent  Net change as % of	(221 667)	(8 355)	(53 462)	(2 208 226)	(11 066 343)	(608 325)	(352 123)	(5 121 367)	(246 582)	(543 379)	-	-	-	
historical	-6,3%	-1,3%	-11,6%	-27,0%	-33,4%	-51,9%	-1,4%	-13,0%	-3,2%	-19,8%	-	-	-	
Closing extent 2014	3 309 564	617 852	409 056	5 957 140	22 023 982	562 959	24 584 425	34 297 155	7 574 997	2 199 270	15 808 759	3 200 618	1 420 676	121 96 45

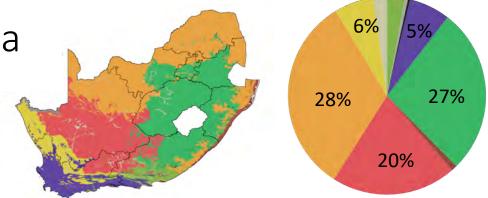
<sup>\*</sup> Cultivated areas, built-up areas and waterbodies are treated as biomes for the purpose of the ecosystem extent account table. There is no reliable spatial information on the historical extent of waterbodies, subsistence cultivation or habitation.

<sup>\*\*</sup> The large net decrease in the extent of waterbodies reflects primarily that 1990 was a much wetter year than 2014. Waterbodies include both natural and artificial water bodies (such as dams).



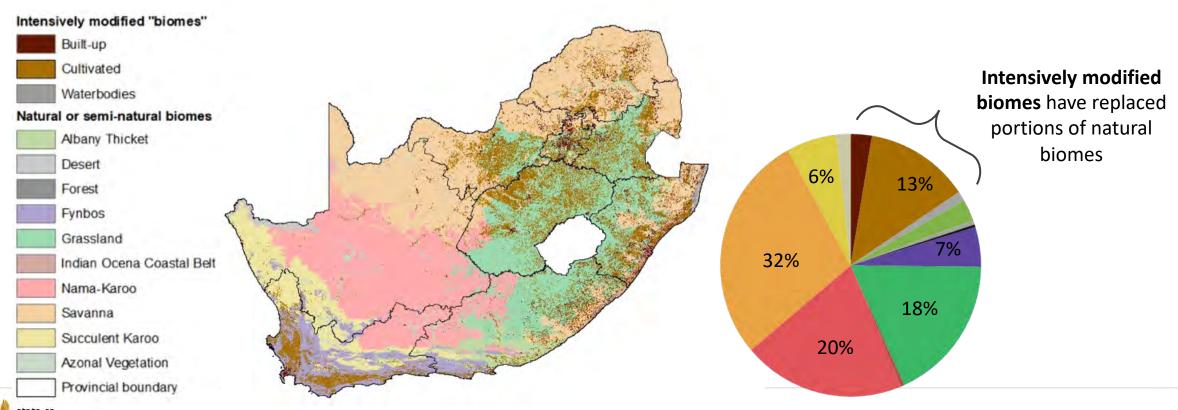


Proportion of ecosystem accounting area covered by specific ecosystem types



**Historical reference** 







# Net change in area covered by specific ecosystems types (expressed in absolute or percentage terms)

Some remarkable changes in intensively modified ecosystem types between 1990 – 2014

Centre-pivot irrigated cultivation increased by 220%, from 240 000 ha to 770 000 ha

Large ecological impacts including on water



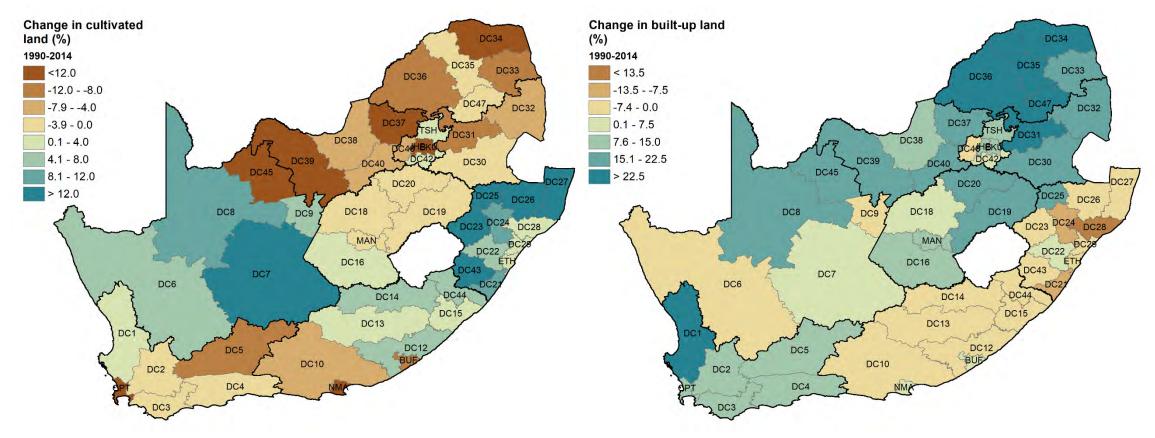


Area of informal urban settlements almost doubled, from 31 000 ha to 60 000 ha

Significant challenges for urban planning and service provision



## Change in land cover per DM



• District municipalities with the highest and lowest net change as a percentage of opening stock for each land cover class, tier 2

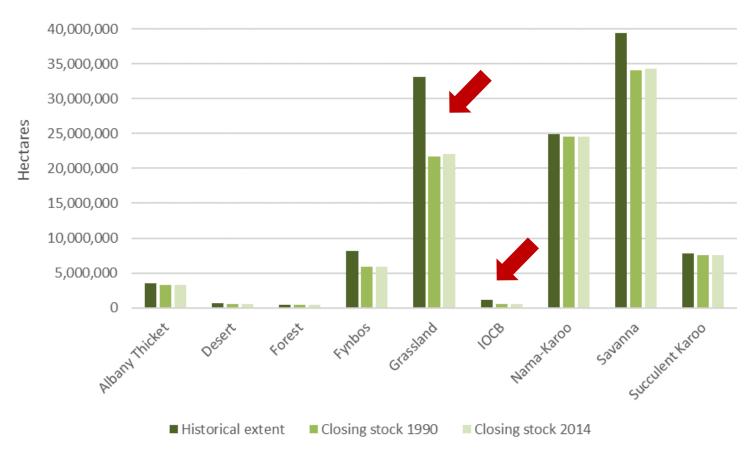




# Net change in area covered by specific ecosystem types (expressed in absolute or percentage terms)

# Largest changes in natural biomes 1990 – 2014

- Largest absolute decrease in Grassland biome, from 33m ha to 22m ha
- Largest percentage decrease in Indian Ocean Coastal Belt, from 1.2m ha to 0.6m ha







## Percentage of area changed [we've called this percentage turnover]

#### Definition

- (additions + reductions) / opening extent
- Can indicate socio-economic changes in the landscape

#### Example

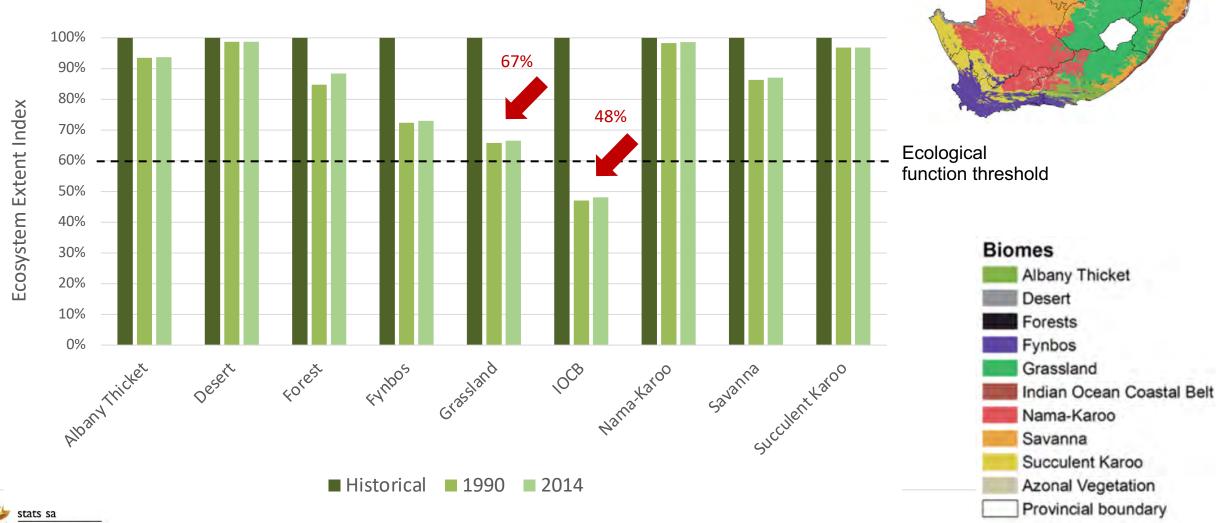
- Net change in subsistence crops of only 1.1%
  - from 1.95 million ha in 1990 to 1.97 million ha in 2014
- BUT **turnover was 46%** indicating substantial changes in where cropping took place
  - Change matrix and maps can provide additional info to help interpret these shifts





#### Ecosystem Extent Index

can be evaluated against thresholds, for example, a threshold for ecological functioning







## Concluding comments

- The examples of natural capital accounts were coproduced through collaboration.
- Would not have been possible without partnership and collaboration
- Meets Stats SA's standards through application of the SEEA and national classification systems
- These have helped place South Africa at the forefront of a global movement on NCA.
- At a time of resource constraint, even more important to collaborate and build partnerships with strategic entities in the state, private sector, in Africa and internationally to further advance NCA in SA





## Concluding comments

- There is opportunity for Stats SA to embrace partners as data providers, compilers of accounts or users of information from accounts to drive advancement of NCA and help build distributed and diverse capacity/expertise.
- There is opportunity for partners benefit from Stats SAs mandate as the:
  - **National Statistical Authority**, to inform stakeholders on the economy, society and environment, by, amongst other things:
    - designating statistics as official of Stats SA and other organs of state; and
    - liaising with other countries and statistical agencies as well as representing Stats SA and South Africa in statistical activities internationally.
  - **National Statistical Coordinator**, to promote coordination among producers of official and other statistics in order to advance quality, comparability and optimum use of official statistics and to avoid duplication by, amongst other things:
    - Formulating quality criteria and establishing standards, classifications and procedures;
    - Providing statistical advice; and
    - Advancing the quality, consistency, comparability and optimum use of official statistics and avoid unnecessary duplication.





# Thank you





#### Appendix 2. National Natural Capital Accounting Strategy

# National Natural Capital Accounting Strategy

18 November 2020

Presenter: Aimee Ginsburg, SANBI NCA Project Manager

















# National NCA Strategy – why one is needed?

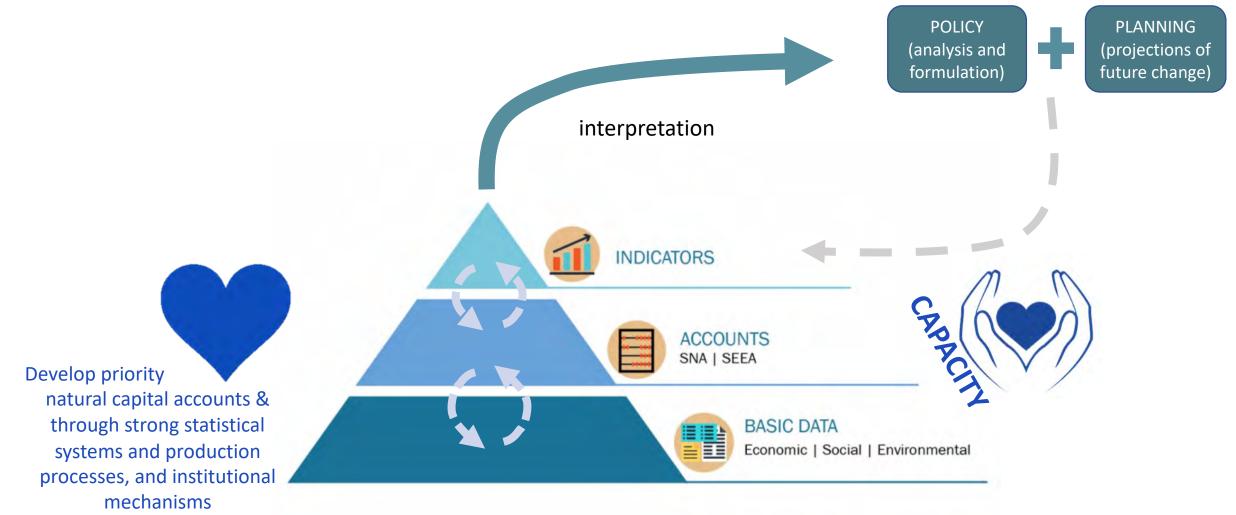
- There are wide range of accounts that can be produced.
- Growing recognition of the value of producing accounts.
- Recognizing the work and capacity involved in doing so,
- It benefits South Africa to have a strategy that offers...

## National NCA Strategy – that offers...

- Coordination of an integrated body of NCA work in SA
- Development of statistics from natural capital accounts within and outside of the national statistical office through agreed standards, delivering reliable and comparable results that are also coordinated with socio-economic statistics;
- Derivation and use of relevant national indicators for statistical purposes from NCA in measurement of national indicators in South Africa (as called for in the National Development Plan (NDP), Medium Term Strategic Framework (MTSF), and continental and international sustainable development agendas), such as those contained in the Stats SA integrated indicator framework (IIF); and
- Collaboration between institutions to strengthen investment and commitment to the production of consistent and regular accounts that provide credible evidence for integrated planning, monitoring and decision-making.

# The NCA value chain: linking data, accounts, indicators and policy and planning





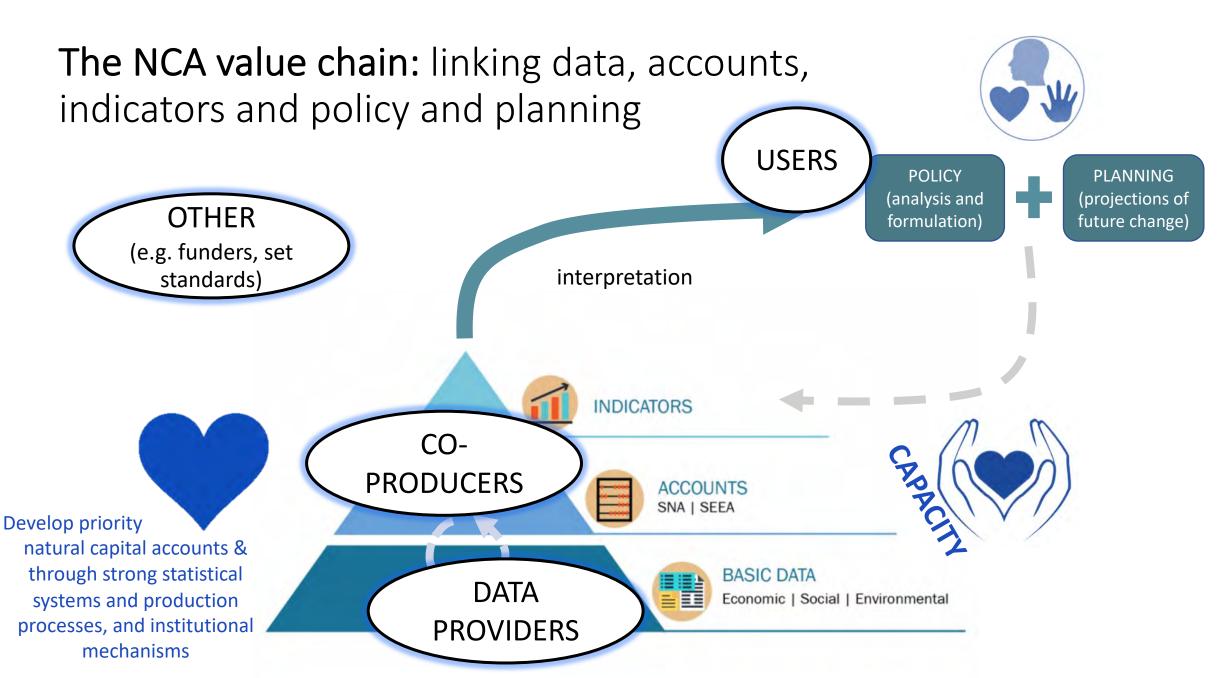
## Purpose and timeframe

- To focus the efforts of Statistics South Africa (Stats SA) and other institutions engaged in NCA on
  - developing priority national-level natural capital accounts and
  - effective statistical systems and institutional mechanisms
  - to inform South Africa's sustainable development policy objectives.

• 10-year time frame with a 5-year review.

## Who is it for?

- NCA is inherently multi-disciplinary, and NCA information is or could be used by a wide range of organisations.
- Stats SA compiling the Strategy, have an important role in ensuring coordination and production of reliable environmental statistics, including:
  - As the National Statistical Authority, designating statistics as official, and liaising with other countries and statistical agencies
  - As the National Statistical Coordinator, promoting coordination among producers of statistics, formulating quality criteria, establishing standards, classifications and procedures, providing statistical advice, advancing comparability and optimum use of official statistics.
- If you are producing or using national-level natural capital accounts, you should be able to find yourself and their application in this Strategy.



## How was the Strategy developed?

#### • A little history:

- UNSD identified development of national plan/strategy as important for institutionalization, uptake and ongoing production of SEEA Ecosystem Accounts.
- National plan was drafted as part of ANCA project (2014-5)
- Built into the design of NCAVES Project (2017-2020)
- Process of development began with:
  - Assessment report towards the development of a national strategy for advancing environmental-economic and ecosystem accounting in South Africa (SANBI & Stats SA 2018)
    - Made recommendations for national strategy



## How was the strategy developed?

• Two year evolution informed by:

- Stakeholder engagement through:
  - National NCA Stakeholder Workshop in March 2018,
  - National NCA Forum in June 2019,
  - National NCA Strategy Stakeholder Workshop in November 2020.
- Tri- and multi-lateral engagements
- Advice of the NCA Strategic Advisory Group (SAG)
- Guidance from a Project Reference Group (PRG) for the NCA and Valuation of Ecosystem Services (NCAVES) Project.





NCA-SAG co-created a vision and identified areas of work that will contribute towards achieving the vision

Vision

Strategic objectives

STRATEGY MAP

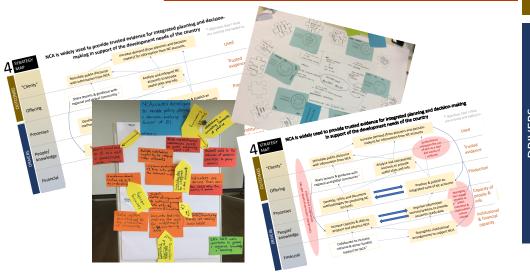
Draft vision, early strategic objectives and some ideas for outputs and activities

What we wish to produce or deliver?

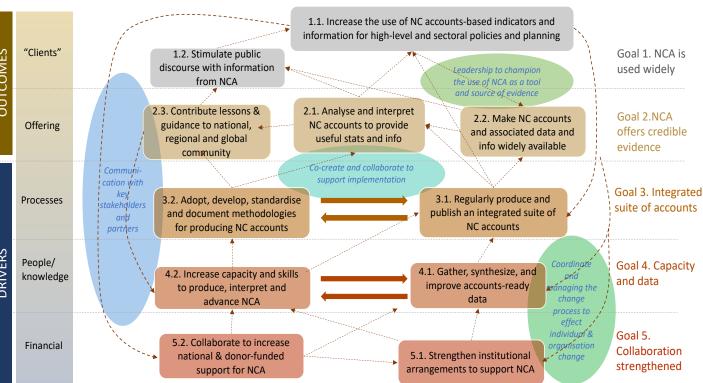
What we have to do to deliver?

Outputs

Activities



VISION: NCA is widely used to provide credible evidence for integrated planning and decisionmaking in support of the development needs of the country

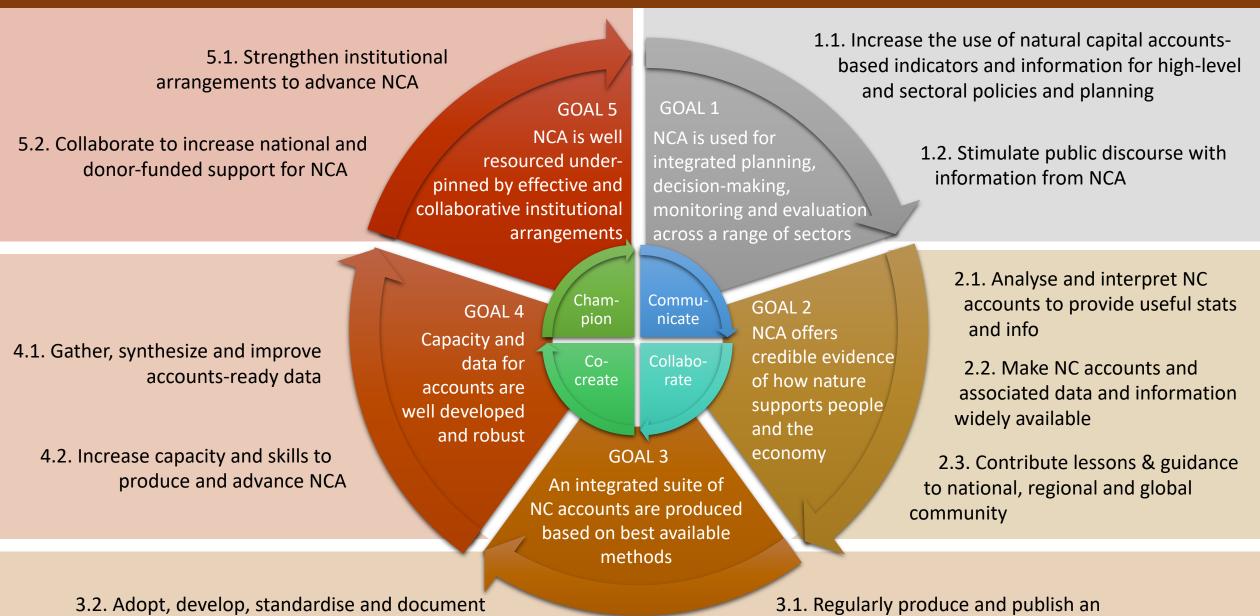


## Levers of change

- Champion Communicate

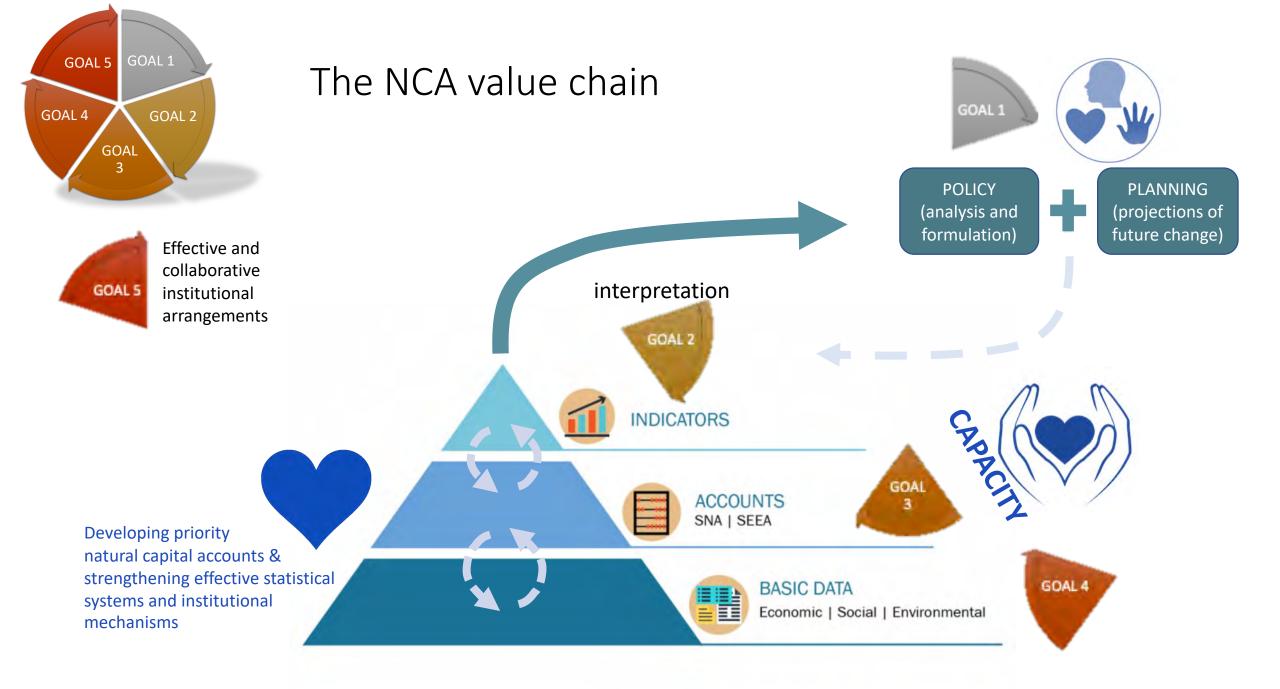
  Co-create Collaborate
- Leadership to <u>champion</u> the use of NCA as a tool and source of evidence: NCA champions to sustain the transformation process in their areas of influence.
- Communication with key stakeholders and partners: To be part of how we work, recognizing the social change process involved in an emerging, multi-disciplinary area of work and implementing this strategy.
- Cocreate and collaborate in the improvement and development of natural capital accounts: Given the importance of statistics relating to natural capital and the reality of limited financial and human resources available within government, collaboration and co-creation are key to improving data, agreeing on the use of standard concepts and definitions, collecting the right variables in line with international requirements and development accounts that meet user needs.
- <u>Coordinate</u> and manage the change process to effect individual & organisation change: There has to be a shift in the individual and organisation arrangements to support production of accounts-ready data, accounts AND to support use of evidence to make decisions and for continuous improvement, innovation and learning. 'Learn and share', 'evaluate and change' need to be built in.

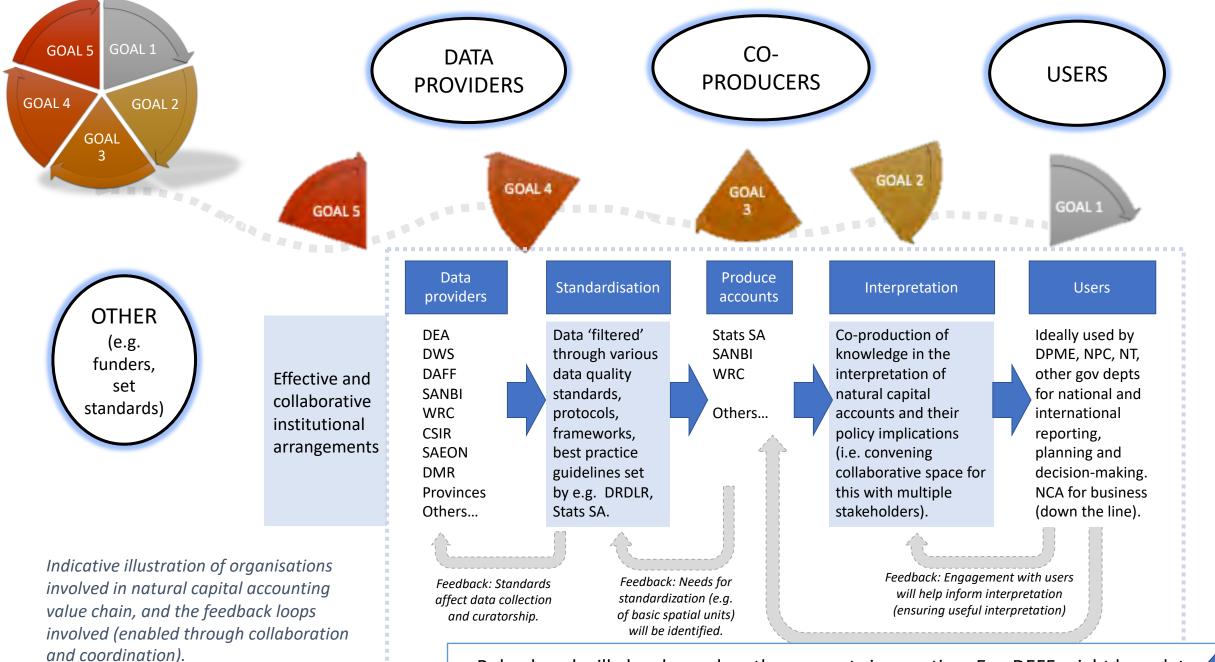
## VISION: NCA is widely used to provide credible evidence for integrated planning and decision-making in support of the development needs of the country



methodologies for producing NC accounts

integrated system of NC accounts



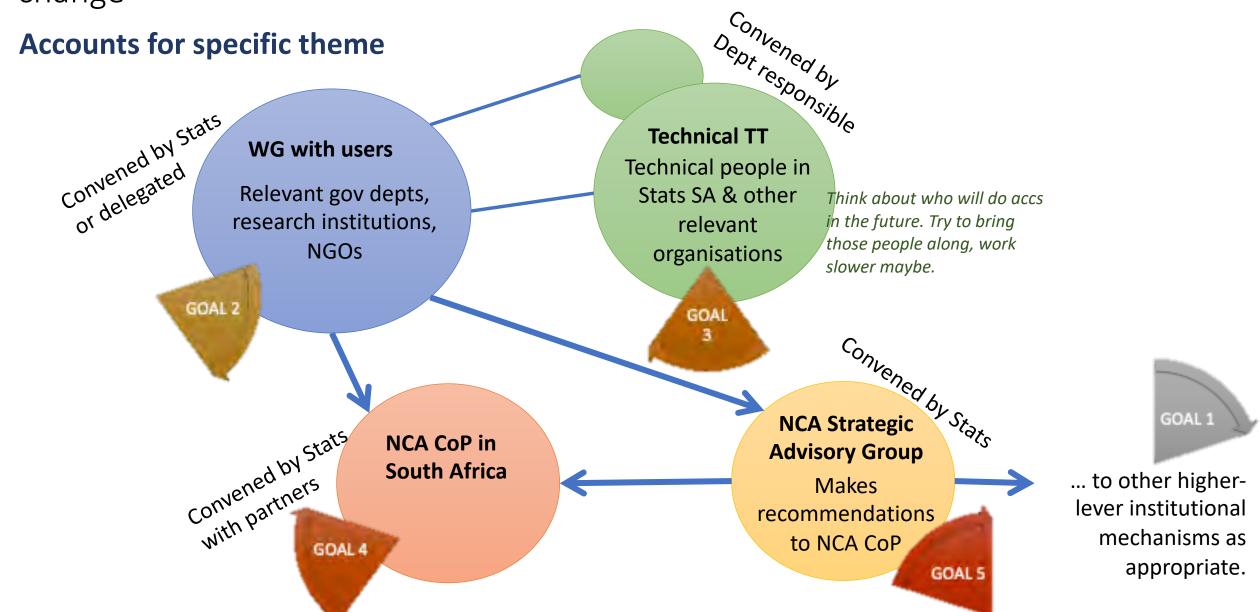


Role played will also depend on the accounts in question. E.g. DEFF might be a data provider, co-producer and user in one case, and simply a user in another case.

## Role of DWS in NCA

Accounts	Description	Data provider	Co- Producer	User	Other (e.g. funder, set standards)
National Water Accounts	<b>Physical flow accounts:</b> of water between the environment and the economy (recording abstraction of water by the economy, how water flows within the economy and the return flows of water back to the environment). Can include water emission accounts.		?		
	<b>Physical asset accounts:</b> describe the hydrological cycle over an accounting period. Water stocks and their depletion over the accounting period are presented, with links to abstraction & consumption of water by the economy.		?		
	Economic accounts:		?		
Catchment-scale water resource accounts	<b>IWMI Water Accounting</b> system is a standardised method of providing spatial information on water depletion and withdrawal processes in complex river basins. Links land cover/use information and hydrological water balance info — helps understand linkages between land cover/use, El and catchment water resources				
National River Ecosystem Accnts	Ecosystem extent and condition accounts for rivers have been produced, producing the Ecological Condition Index as a key indicator.  Can be extended to include a full set of physical ecosystem accounts for rivers, including ecosystem service generation and use accounts				
National Wetland Ecosystem Accnts	Future accounts. Physical accounts as above – ecosystem extent and condition, which could be expanded to include ecosystem service generation and use accounts.				
Accounts for Ecological Infrastr.	Physical accounts for water-related ecological infrastructure (features in the landscape) being explored through the EI4WS Project	ES			
Accounts for SWSAs	Physical accounts for Strategic Water Source Areas including extent of protected areas, land accounts for SWSAs. Links to other social, environmental and economic information can be explored.	ES			
Nat Estuary Ecosystem Acc	Extent, condition and pressures				
Groundwater Accounts					

Example of institutional mechanisms to support implementation and levers of change



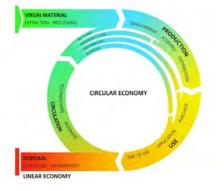
## Many related initiatives

 Many different types of accounts that can be developed











## In the strategy document & discussions today

#### Facilitator overview

**Note** that this is an indicative implementation plan associated with activities.

GOAL 1. Goal statement						
Strategic Cobjective	Dutput	Indicative activities	Funding scenario	Key role players	Timeframe	Resources
objective (estatement many)	L.1.1. Output easily verifiable/ neasurable, being a product/ deliverable or the ike)	1.1.1.1. Indicative activities	<ul> <li>The NCA strategy has been developed so that it can be implemented under two different funding scenarios:</li> <li>Low road activities: can be undertaken with existing human &amp; financial resources.</li> <li>High road activities: are only possible with additional resources.</li> </ul>		Has this already started? When should it begin?	Refers to human or financial resources. Existing or estimated i.e. can also provide an estimation of budget required.

What we wish to produce or deliver?

With additional resources.

Who would like to be involved?

## Polling question

• Go to www.Menti.com and use the code 20 71 99 0

You can use your <u>phone or laptop</u> to do this.

## Thank you

Appendix 3. Introduction to goal-based discussions in breakaway groups

# Introduction to goal-based discussions in breakaway groups

#### 18 November 2020

















## Smaller group discussion per Goal

- After a short break (10 min) we will begin the breakout groups (determined based on your selection when you registered).
- There will be two breakout sessions, one after another, but with a 15 minute break in between (this is to enable us to reallocate groups). Please stay connected.
- Each session will be approximately 55 min long.

## Facilitator groups for each goal



#### Thanks to our NCA champions from a range of institutions!

Goal and	short description	Facilitator	Strategy support	Note takers
Goal 1	NCA is widely used	Mukondi Masithi, DEFF	Gerhardt Bouwer	Tshifhiwa Munyai, DEFF
Goal 2	NCA offers credible evidence	Prideel Majiedt, SANBI	Kiruben Naicker, DEFF	Thuli Mahlangu, SANBI
Goal 3	Integrated suite of accounts	Riaan Grobler, Stats SA	David Clark, UKZN CWRR	Jenifer Zungu, SANBI Patrick O'Farrel
Goal 4	Capacity and data	Michelle Hiesterman, WRC	Rob Anderson, Stats SA	Brenda Mphakane, Stats SA
Goal 5	Resources and collaboration	Mmaphefo Tshwala, NBI	Robert Parry, Stats SA	William Speller, UN Environment

Aimee Ginsburg and Malik Dasoo will be in the wings.

## Smaller group discussions

- We will take a short break now, when you return in 10 minutes you will automatically have been allocated to your breakout group.
- Please stay connected during the break.
- If you experience any difficulties you can private message Malik Dasoo, talk with your facilitator, or press the 'Ask for help' button to call the Zoom host to where you are.
- We look forward to your inputs, insights and improvements!
- We will see each other in plenary again just before the meeting closes.

Appendix 4. Next steps for the National Natural Capital Accounting Strategy

# National Natural Capital Accounting Strategy

## Stakeholder workshop

19 November 2020

















## Overarching reflections

- Reflection on what is going to make the difference for successful implementation and what your role or contribution might be.
  - We've delved into the detail, but what will make the difference?

 Could link back to the levers of change – how we communicate, collaborate, cocreate and champion this work.

### Next steps

 Additional comments to Robert Parry (<u>RobertP@statssa.go.za</u>) by 30 November

 Minutes of the workshop to be shared with participants with presentations (early Dec 2020)

- Integrate comments into a final version of the Strategy (Dec-Feb)
  - Some follow up discussions

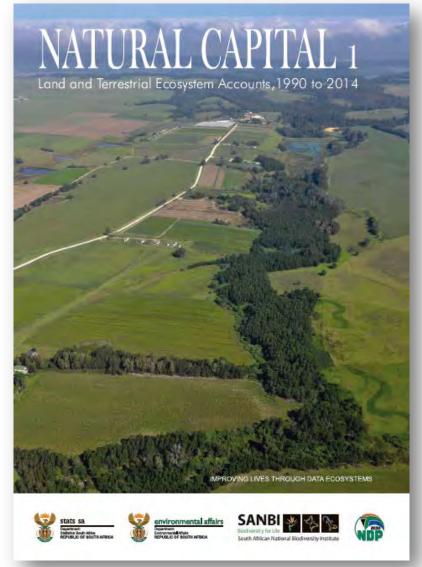
## Next steps

 NCA Strategic Advisory Group meeting to review final draft (February 2021)

Final draft submitted into Stats SA internal processes (March 2021)

• Enters into Stats SA processes for publication in 2021/22 FY

## Land and Terrestrial Ecosystem Accounts, 1990 to 2014



- Release date scheduled:
  - 2 December 2020 @13h00 on the Stats SA website
- First publication in the *Natural Capital* series that Stats SA is launching.
- (Strategy in action! © This speaks to Output 3.1.12 in the Strategy!)