



Advancing the SEEA Experimental Ecosystem Accounting

Experience from the NORAD

Advancing Natural Capital Accounting (ANCA) Project



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System of Environmental-Economic Accounting (SEEA)

- The **SEEA Central Framework** was adopted as an international statistical standard by the UN Statistical Commission in 2012
- The **SEEA Experimental Ecosystem Accounting** complements the Central Framework and represents international efforts toward coherent ecosystem accounting

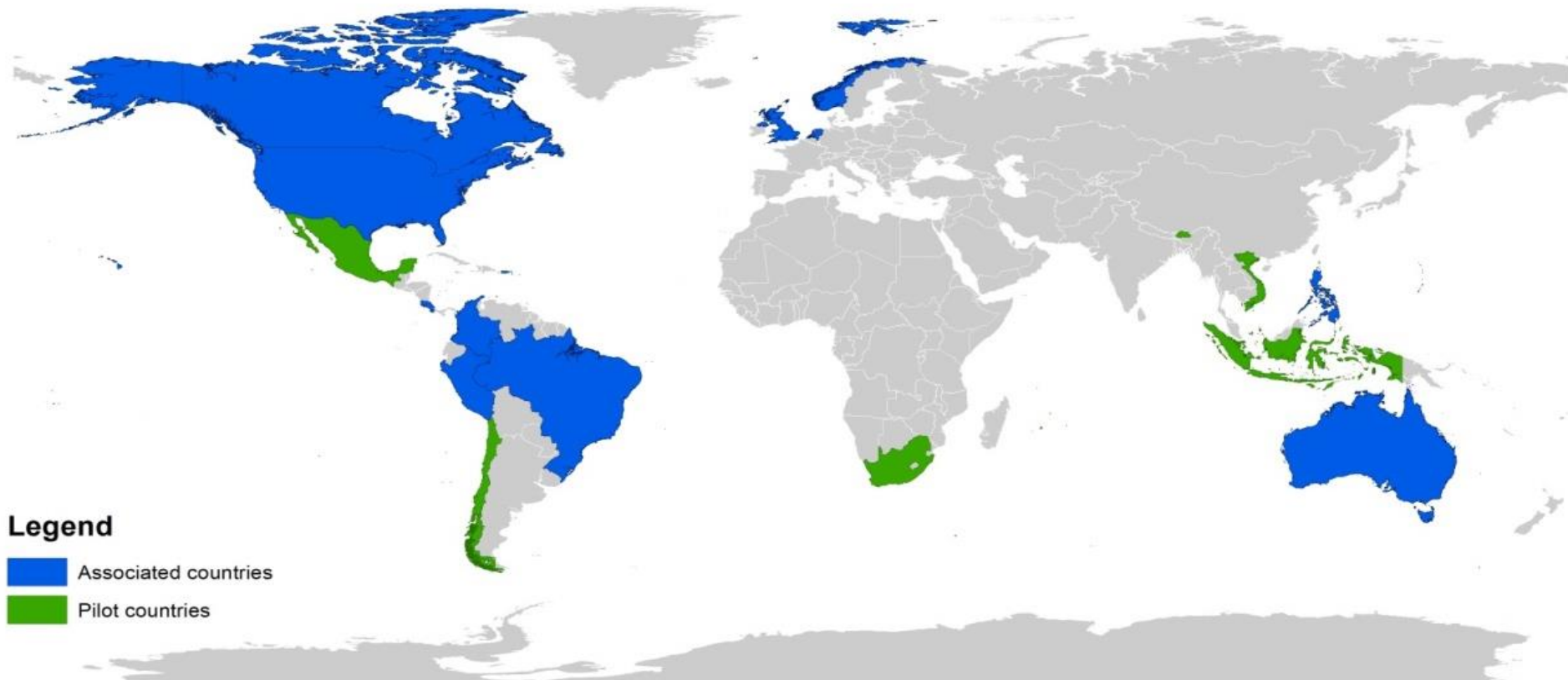




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Pilot countries for the UNSD-UNEP-CBD project

- > Pilot countries for the project: Bhutan, Indonesia, Chile, Mauritius, Mexico, South Africa, Vietnam (in green)
- > Non-exhausted list of associated countries that have pilot ecosystem accounts (in blue)





Assessment and developing national plan



Country assessment

What issues of interest?

What are the accounts that could inform these issues?

Which accounts are most feasible to produce?

What is the relative priority of each account?

What data are available?

What are the resources available?

What enabling factors are needed?

PHASE 1

- Institutionalisation
- Policy Issues
- Prioritized account
- Socialization

PHASE 2

- Data availability
- Data gap analysis
- Capacity Building

PHASE 3

- Drafting strategic plan to compile environmental account

PHASE 4

- Implementation



Country assessment reports

National assessment reports were completed for each country focusing on the following issues

- > **Policy context and national strategies** (national development plans, national sustainable development plans, NBSAPS, green economy strategies, etc.)



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> **Measurement initiatives in the country**

Key institutions and institutional arrangements

Environmental accounts **priorities**

Technical capacity needs and data availability (data sources and

data sharing tools)

Stakeholders							
	Bhutan	Chile	Indonesia	Mauritius	Mexico	South Africa	Vietnam
Statistics	Lead	√	Lead	Lead	Lead	Lead	√
Environment	√	Lead	√	√	√	√	√
Agriculture	√	√	√	√	√	√	√
Planning			√		√	√	√
Economy	√	√	√	√		√	
Central Bank		√		√			√
Biodiversity				√	√	Co-lead	√
Forest	√	√	√		√		√
University						√	
International agencies	UNDP	ECLAC UNDP	UNDP World Bank FAO UN-REDD+	UNEP UNDP IOC	UNDP UNEP EU	UNDP EU	UNDP World Bank FAO



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Example: Indonesia

overview of policies and prioritized accounts

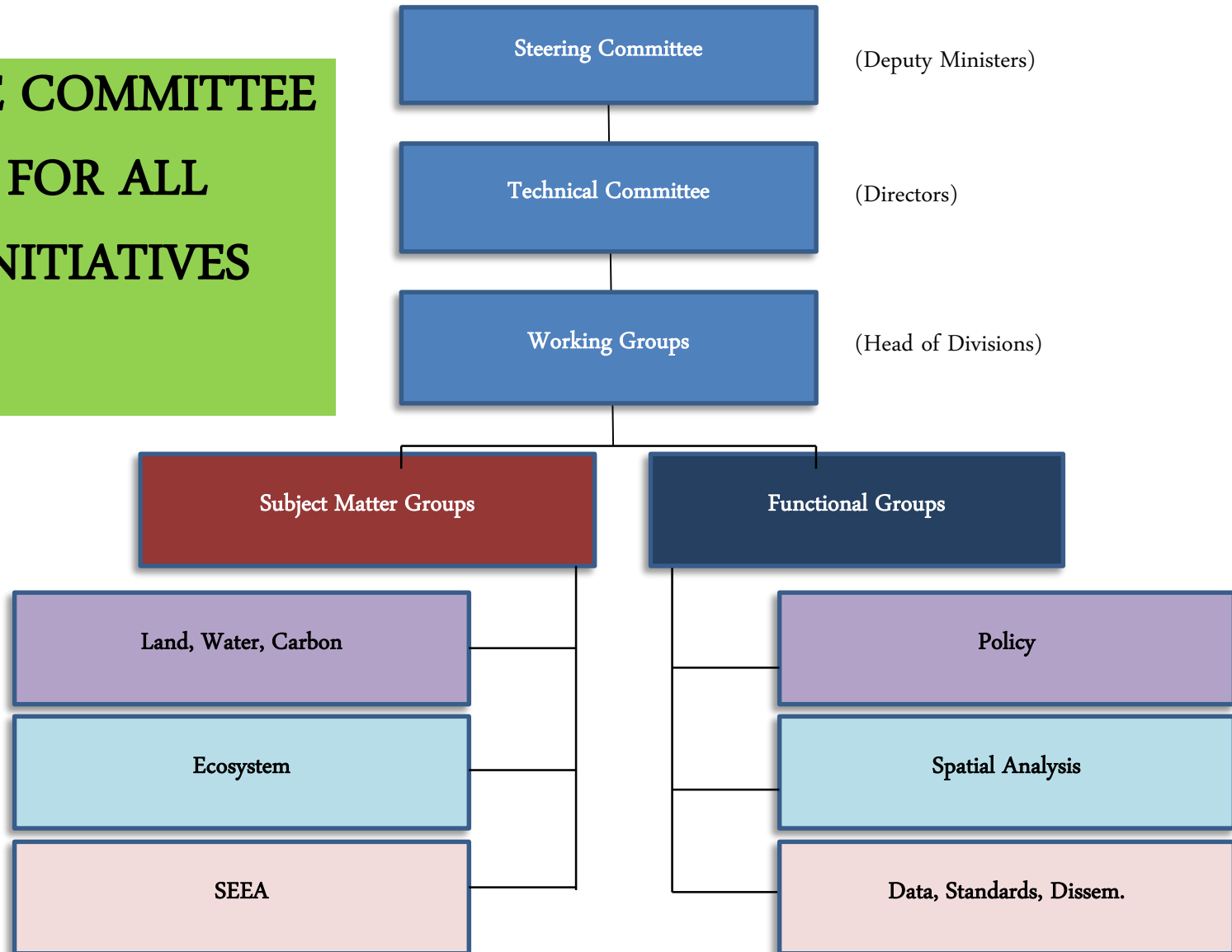
TYPE OF ACCOUNT	POLICY ISSUE	AGENCIES
LAND ACCOUNTS (including forest and agricultural land)	RPJMN 2015-2019, Gazetting Forest Lands, Spatial Planning Law, Green Economy, food security, REDD+, Aichi Target 2, One Map	BPS, LHK, BAPPENAS, MenKeu, DepTan, Bulog, LAPAN, BPPT, BIG
WATER ASSET ACCOUNTS; Water Supply & Use Accounts	RPJMN 2015-2019, Green Economy, Spatial Planning Law	BPS, LHK, BAPPENAS, MenKeu, DPU, LAPAN, BPPT
CARBON STOCK ACCOUNTS; Carbon Supply & Use Accounts;	RPJMN 2015-2019, Green Economy, Climate Change, REDD+	BPS, LHK, BAPPENAS, MenKeu, DehHut,
ECOSYSTEM SERVICE ACCOUNTS (especially for flood control)	RPJMN 2015-2019, Green Economy, Climate Change	BPS, LHK, BAPPENAS, MenKeu, BNPB
Adjusted Net Savings and economic valuation of natural capital	Financing of environmental initiatives	BPS, BAPPENAS, MenKeu
Ecosystem Condition and Biodiversity Accounts	RPJMN 2015-2019, Green Economy, REDD+, Aichi Target 2,	BPS, LHK, BAPPENAS



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Example: Indonesia – Proposed governance

**ONE COMMITTEE
FOR ALL
INITIATIVES**





Observations

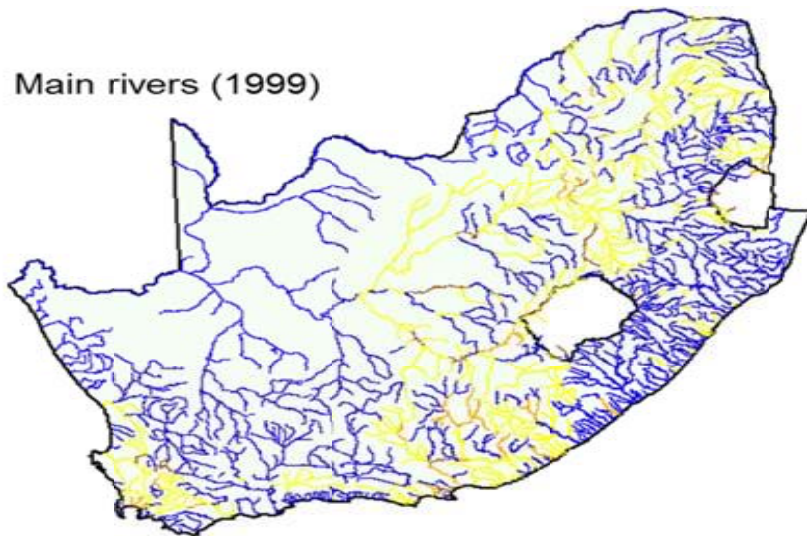
- Political support for the national plan varies in different countries. **Important to have a political champion**
- National plan serves as a basis for developing the work programme and **soliciting funding and capacity support** for the work
- **One steering committee** for overseeing different (international) initiatives allows better coordination and use of resources
- Links to the System of National Accounts and the **SEEA Central Framework** were often highlighted during the assessment
- Important to establish **data sharing mechanism** among different agencies. National statistics offices has a role to play on this



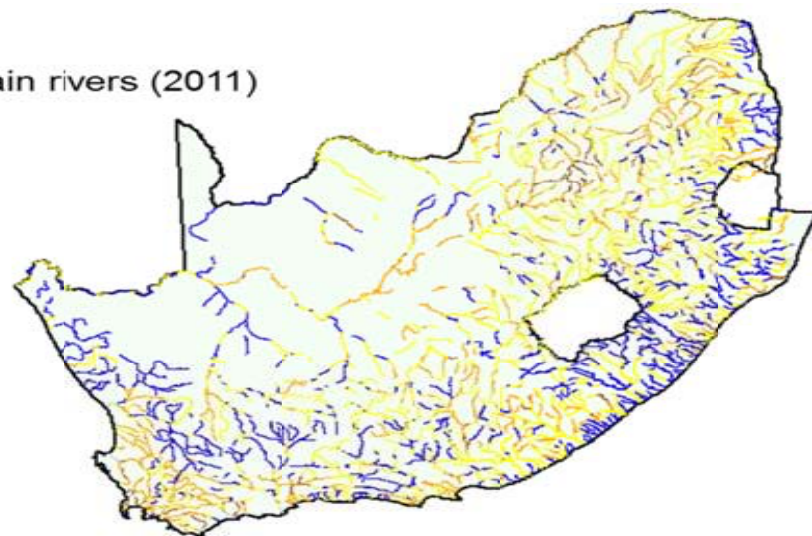
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National river ecosystem condition accounts (mapping)

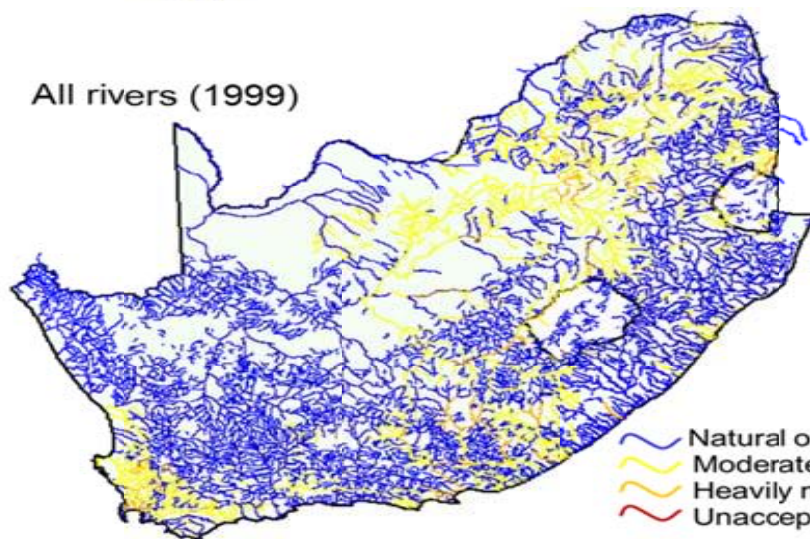
Main rivers (1999)



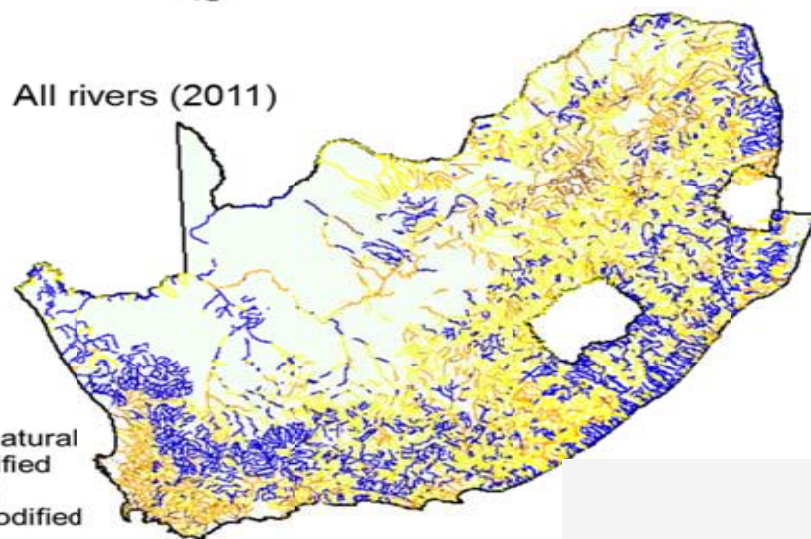
Main rivers (2011)



All rivers (1999)



All rivers (2011)



— Natural or near-natural
— Moderately modified
— Heavily modified
— Unacceptably modified



Observations

For fully integrated land, ecosystem asset and ecosystem services accounts, **several elements are required:**

- **Stable ecosystem units** based on ecosystem types that have been mapped and classified to reflect ecological characteristics related to composition, structure and function,



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- An understanding of how these ecosystem units link to ecosystem services (via their functional characteristics)
- An understanding of **how conversion** of each ecosystem unit (from natural to various semi-natural or substantially modified land cover classes) **impacts on its ability to provide ecosystem services.**



Next steps

- EC-funded project on full SEEA-EEA application kicked off in September 2016
- Brazil, India, China, South Africa, Mexico





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Thank YOU!



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