

Implementation of Carbon

SEEA Ecosystem Accounts

Jonathon Khoo*

Director, Centre of Environmental
and Satellite Accounts

Australian Bureau of Statistics
Informing Australia's important decisions

* Views my own and do not reflect ABS or Australian government policy.





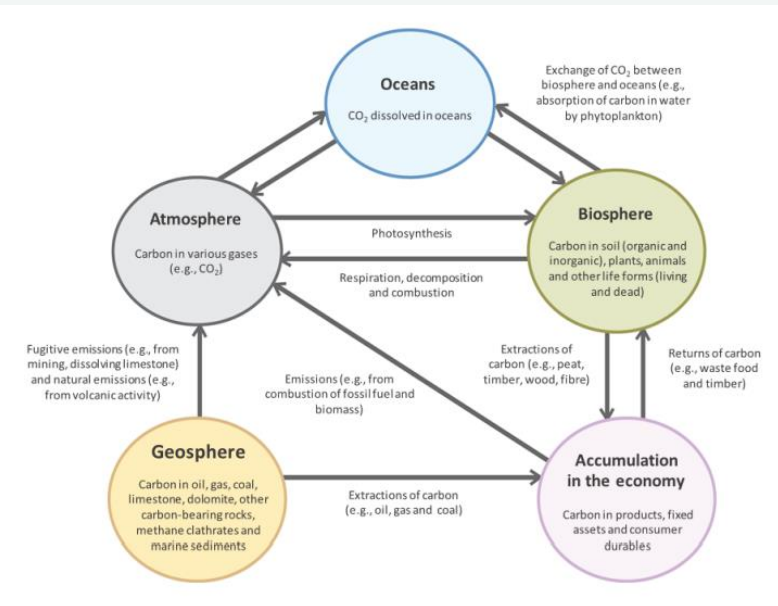
Introduction to session



- ▶ Background
- ▶ Implementation working group
- ▶ Reflections
- ▶ Discussion

- ▶ SEEA EA Implementation is around themes.
- ▶ Carbon is an area of strong policy interest and an important theme for SEEA implementation.
- ▶ Carbon appears in 2 key spots in SEEA EA.
 - As an ecosystem service (Chapter 6): Global climate regulation services measures the removal (sequestration) and retention (storage) of carbon
 - As a thematic account (Chapter 13): providing a comprehensive view of carbon emissions and impacts on climate change.

Carbon Cycle and Carbon Stock Account



	Geocarbon					Biocarbon			Carbon in the economy			Carbon in the oceans	Carbon in the atmosphere	Total	
	Oil	Gas	Coal	Limestone and marl	Other	Terrestrial	Freshwaters and saline wetlands	Marine	Inventories	Fixed assets, consumer durables	Waste	Total	Total	Total	
Opening stock															
Additions to stock															
Unmanaged expansion															
Managed expansion															
Discoveries															
Reclassifications															
Imports															
Reductions in stock															
Unmanaged contraction															
Managed contraction															
Reclassifications															
Exports															
Catastrophic losses															
Net carbon balance															
Closing Stock															

Implementation Working Group

- ▶ Working groups are proposed to support the implementation of each theme (including Carbon).
- ▶ Proposed objective of the working group are to:
 - 1. contribute to the advancement of guidance on the measurement of carbon accounts and global climate regulation service
 - 2. identifying best practices, models, data and tools, looking at both biophysical and monetary aspects.
- ▶ Broad membership encouraged, chair of group TBD
- ▶ Priorities and work programme to be established in line with membership.

- ▶ Opportunity post COP-26:
“(COP Member states) emphasizes the importance of protecting, conserving and restoring nature and ecosystems to achieve the Paris Agreement temperature goal, including through forests and other terrestrial and marine ecosystems acting as sinks and reservoirs of greenhouse gases and by protecting biodiversity, while ensuring social and environmental safeguards” (Para 38, Glasgow Climate Pact)
- ▶ Implementation provides an opportunity to strengthen linkages between SEEA EA and other reporting and policy uses
- ▶ Practical details that complements SEEA EA guidance for carbon

Discussion



- Focus of the carbon working group?
- Membership?
- Other reflections?

