



Australian
National
University

Roadmap for production and use of forest accounts in New Zealand

Forest ecosystem services forum – integrating forest ecosystem services into decision making processes

8-9 May 2018

Te Papa, Wellington,
New Zealand



Australian
National
University

Michael Vardon
Fenner School
Australian National University
michael.vardon@anu.edu.au

Richard Yao
Scion
richard.yao@scionresearch.com



What has to happen?

- Establishment of working groups for themes
 - Climate change, land use planning, biodiversity, forest management, PES
- Identification and contact with significant stakeholders
Identification of data and access to data for accounts
- Specification of accounts (national, regional)
 - Land cover and land use
 - Ecosystem extent and condition
 - Ecosystem services
- Production of draft accounts
- Analysis and interpretation of accounts
- Information products
- Targeting of funding sources for mid to long term



Who will do it?

- Working groups
 - Individuals from agencies
- Agreement from agencies (and understanding by supervisors)
- Institutions that may support or share knowledge (e.g. UK Forest Commission, ANU, London Group, professional societies)



When will it be done?

- Working groups ASAP
- Draft experimental accounts by Nov 2018
 - Data sources and methods document
 - Draft analysis and interpretation
- Final experimental accounts by May 2019
 - Information products



Process of endorsement?

- If Scion leads the development of a roadmap, how can other become involved and could it be endorsed by other agencies
- How will accounts and related information products be endorsed/reviewed?

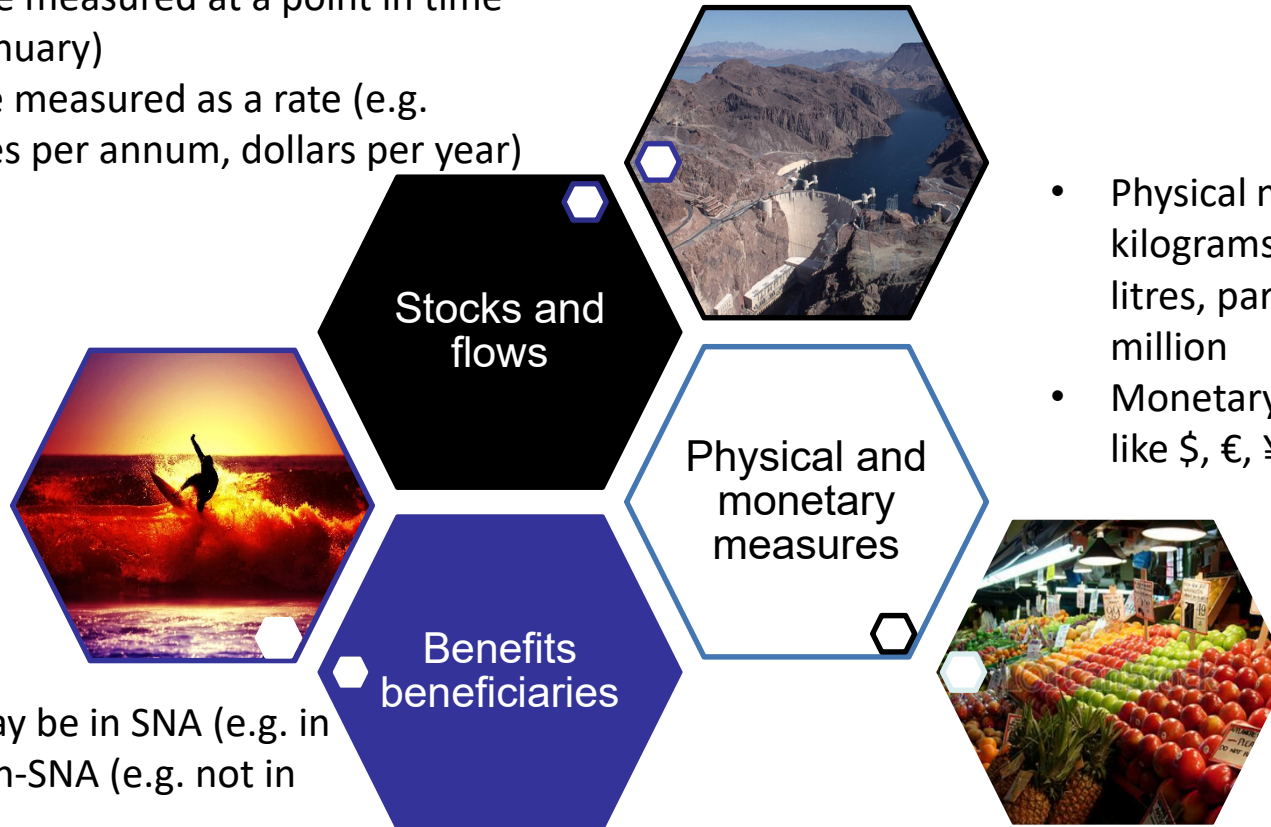


Revision



Three pairs of concepts for environmental accounting

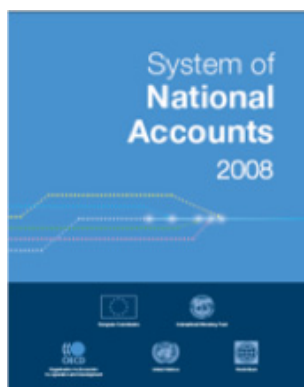
- Stocks are measured at a point in time (e.g. 1 January)
- Flows are measured as a rate (e.g. megalitres per annum, dollars per year)



- Physical measures like kilograms, hectares, litres, parts per million
- Monetary measure like \$, €, ¥, £, etc.

- Benefits may be in SNA (e.g. in GDP) or non-SNA (e.g. not in GDP)
- Beneficiaries are people of groupings of people (e.g. farmers, government, miners)





System of National Accounts

- Monetary measures
- Asset and production boundaries set by economics
- Production defined as being capable of being sold in markets
- Assets defined as being owned and capable of being used for economic gain



SEEA Central Framework

- Physical quantity measures added to monetary measures
- Asset boundary expanded
- Assets no longer have to be owned or capable of being used for economic gain

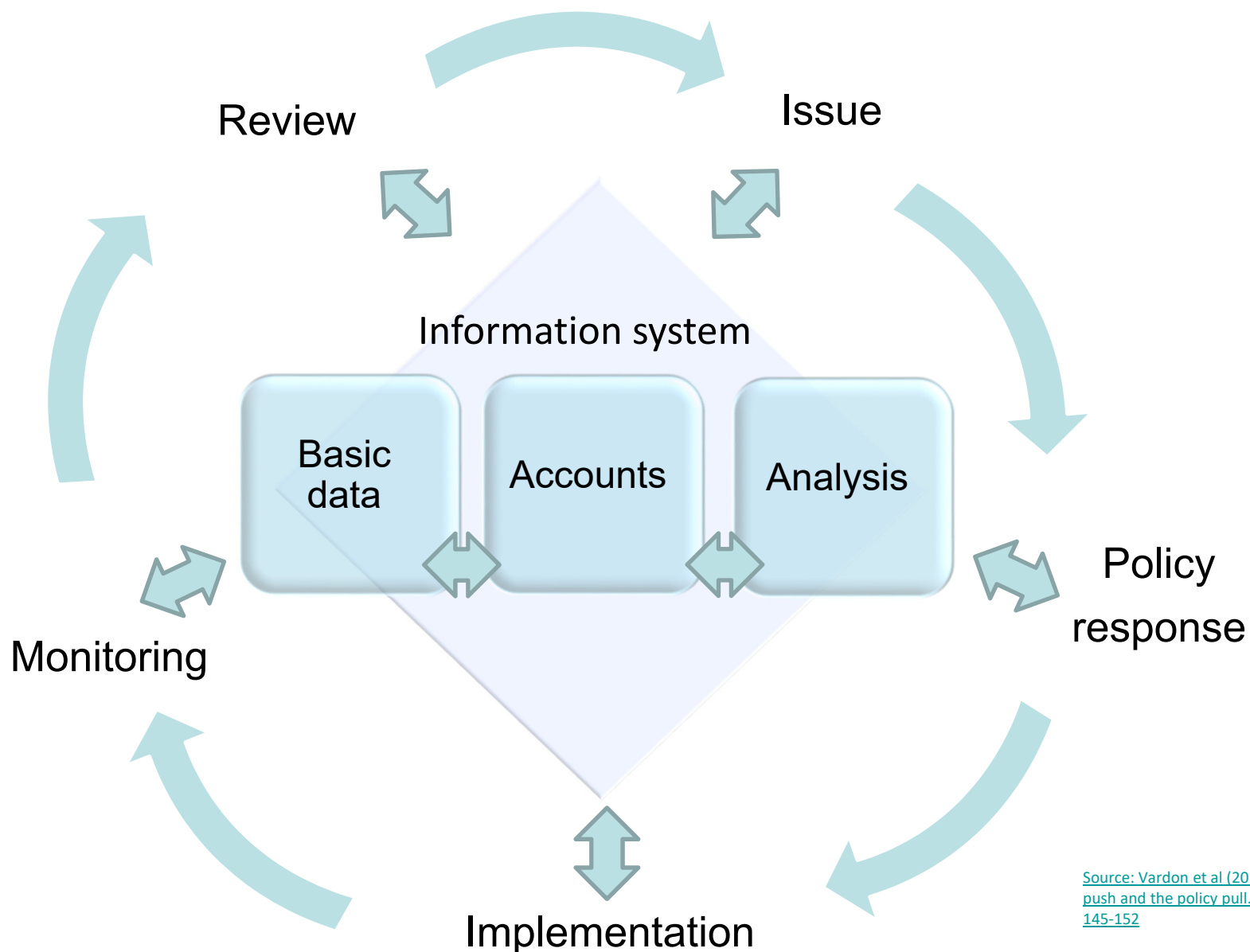


SEEA Experimental Ecosystem

- Physical quality (or condition) measures added
- Production boundary extended
- Production from ecosystems recognized and does not need to be sold in markets



The place of accounting in the information system and policy process



Source: Vardon et al (2016). The accounting push and the policy pull. *Ecol. Econ.* 124: 145-152



Issues identified at the FES forum discussions

- Forest management
- Climate change
- Land use planning (includes urban)
- Living Standards Framework
- Biodiversity management
- Payment for ecosystem services
 - Appropriate accounts for each issue will be identified
 - Draft roadmap will be circulated to all for comments



Thank you and good luck

- Good luck