

Physical Flow Accounting Framework



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Australian Government
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SUTs and the SEEA 2012



- SEEA 2012 broadens the scope of SUTs beyond that measured by the SNA
- SEEA 2012 also supports SUT measured in both physical terms (i.e. tonnes, joules etc.) and monetary terms (\$)

Basic (SNA) Supply and Use Table

Industries

Households

Government

Accumulation

Rest of
the world

Total

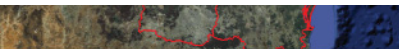
Supply table

Products	Output				Imports	Total supply
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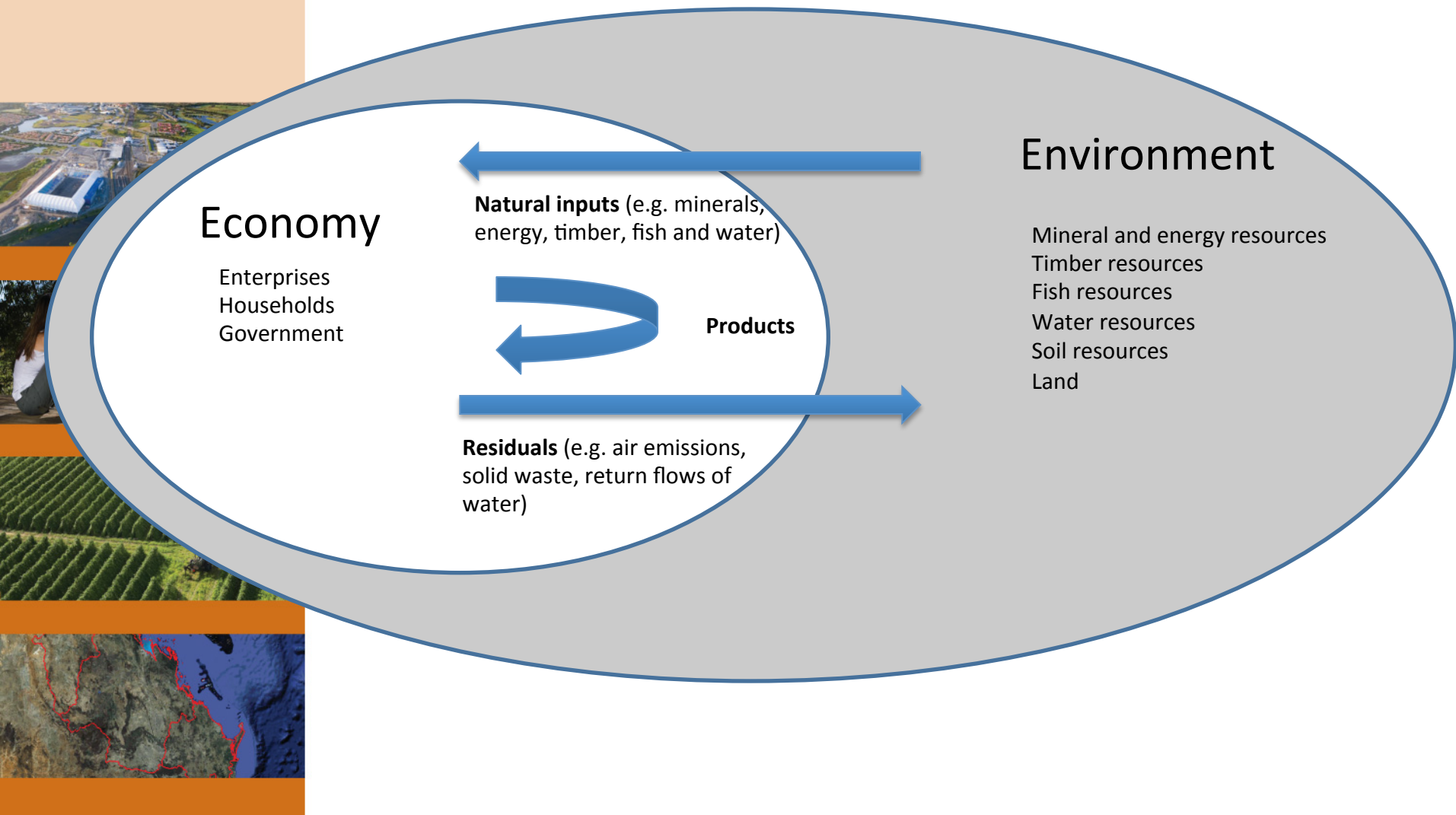
Use table

Products	Intermediate consumption	Household final consumption expenditure	Government final consumption expenditure	Gross capital formation (incl. changes in inventories)	Exports	Total use
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Value added



Product Flows in the SEEA





	Industries	Households	Accumulation	Rest of the world	Environment	Total	
Supply table							
Natural inputs					Flows from the environment	Total supply of natural inputs	
Products	Output			Imports		Total supply of products	
Residuals						Total supply of residuals	
Use table							
Natural inputs	Extraction of natural inputs					Total use of natural inputs	
Products	Intermediate consumption	Household final consumption	Gross capital formation	Exports		Total use of products	
Residuals						Total use of residuals	



	Industries	Households	Accumulation	Rest of the world	Environment	Total
Supply table						
Natural inputs					Flows from the environment	Total supply of natural inputs
Products	Output			Imports		Total supply of products
Residuals	Residuals generated by industry	Residuals generated by final household consumption	Residuals from scrapping and demolition of produced assets			Total supply of residuals
Use table						
Natural inputs	Extraction of natural inputs					Total use of natural inputs
Products	Intermediate consumption	Household final consumption	Gross capital formation	Exports		Total use of products
Residuals	Collection & treatment of waste and other residuals	Accumulation of waste in controlled landfill sites		Residual flows direct to environment		Total use of residuals




Physical Flow Accounting workshop

- Aims:
 - Physical flow accounting framework
 - Definition and classification
 - Principles of physical flow accounting
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- Demonstrated in a Water Accounting context
 - 4610.0 - Water Account, Australia




Making every drop count: Water Accounting Workshop



Getting started!!



- Water ‘users’ are institutional units that use water i.e. households, agriculture etc. (but the ‘environment’ is not a ‘water user’)



- ISIC = International Standard Industry Classification. However, in the workshop exercises a descriptive title is also provided for each industry...



Making every drop count: Water Accounting Workshop

Getting started, continued...

- Water can be obtained through:

‘abstraction’ – i.e. extracted from the environment; or
‘received water’ i.e. from other economic units
- Water may be abstracted for:

‘own use’; or
‘distribution’ i.e. it is extracted for the purpose of supplying to another unit



Making every drop count: Water Accounting Workshop

Getting started, continued...

- Water ‘from the environment’ i.e. from a river etc. rather than from an institutional unit
- Water ‘within the economy’ i.e. water involving transactions between institutional units e.g. a water supplier sells water to an agricultural unit.



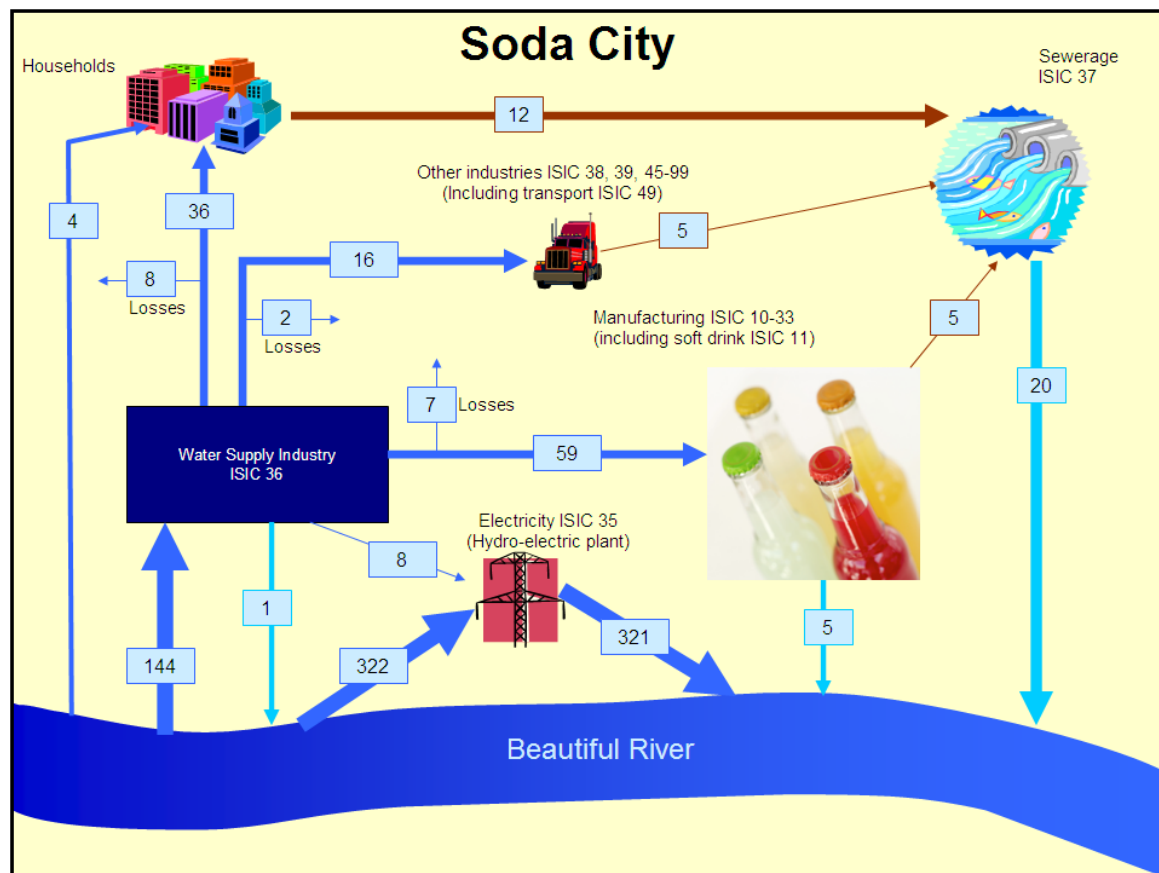
Making every drop count: Water Accounting Workshop

Getting started, continued...

- **Water consumption defined:**
‘the water that is evaporated, transpired or incorporated into products’
- **Water ‘use’ is water received by an institutional unit**



Case study: The Republic of Blue – Soda City



The Republic of Blue – Northville

