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Integrating information with SEEA

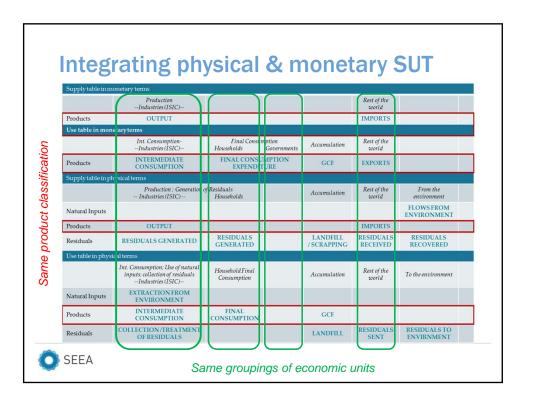
- A primary motivation for SEEA-CF is effective integration of environmental and economic data
- Various SEEA-CF accounts capture different types of information
- Need to understand how the information in these accounts link together into one integrated system of information
- A key strength of the SEEA is the consistent application of accounting rules, principles and boundaries in the organization of physical and monetary information

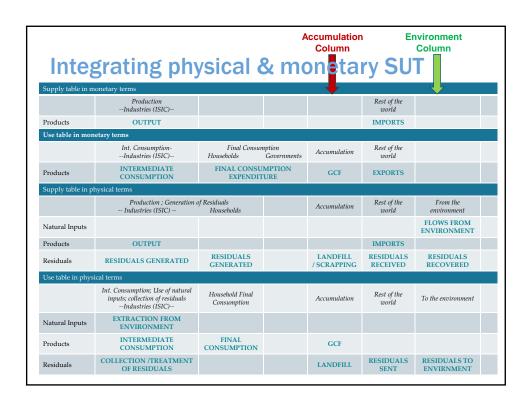


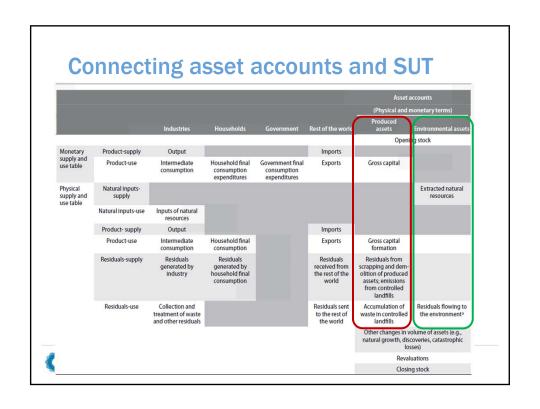
Four key areas of integration

- Linking flows of goods and services in physical and monetary terms
- 2. Linking changes in the stock of environmental assets with use of extracted natural resources as inputs to economic production, consumption and accumulation.
- 3. Connecting the measures of production, consumption and accumulation in monetary terms and measures of flows of income between sectors
- 4. Identifying specific economic activities undertaken for environmental protection or resource management purposes





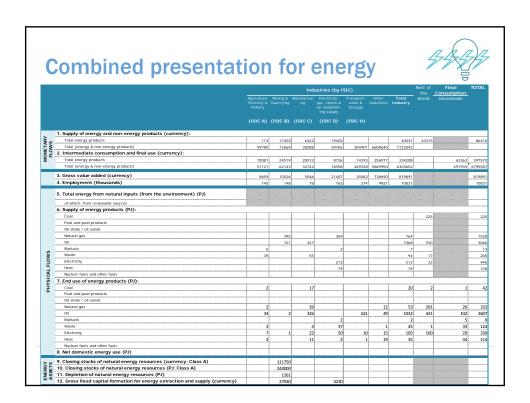




Technical Notes

- Set of seven technical notes on specific modules
 - > EGSS, EPEA, MFA, Air Emissions, Water, Energy and Forest
- Core accounts: simplified version of the SEEA CF tables a minimum set
- Combined presentation tables: Key information in one table for dissemination and calculation of indicators
- Compilation guidance





Exercise on the combined presentation for water

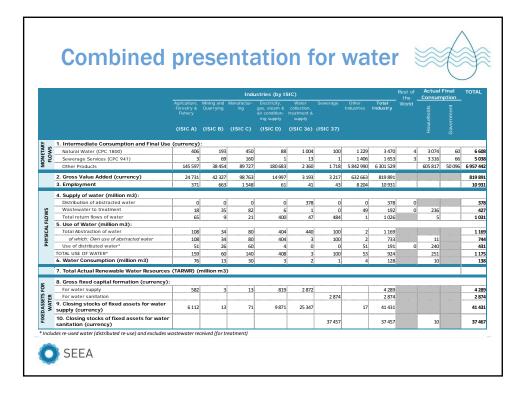


Goal 6-Targets and indicators

Indicator 6.3 By 2030, improve water quality by reducing 6.3.1 Proportion of wastewater safely pollution, eliminating dumping and minimizing treated release of hazardous chemicals and materials, halving the proportion of untreated wastewater 6.3.2 Proportion of bodies of water with and substantially increasing recycling and safe good ambient water quality reuse globally 6.4 By 2030, substantially increase water-use 6.4.1 Change in water-use efficiency over efficiency across all sectors and ensure sustainable withdrawals and supply of freshwater to address water scarcity and 6.4.2 Level of water stress: freshwater substantially reduce the number of people withdrawal as a proportion of available suffering from water scarcity freshwater resources



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Group work questions

Environmental accountants should not only compile the accounts, they should also be able to present the data to users:

- Please assess the core table for water. Evaluate the main information that can be derived from the table
- Work in a group and discuss:
 - > What are the most important messages you deduce from this data?
 - Indicator 6.3.1—In practical terms, the numerator is the amount of wastewater treated while the denominator is the total return flows. How can this be calculated from the information we have?
 - > Indicator 6.4.1—How can the accounts be used to calculate this indicator? What would be the value added of time-series data?



Indicator 6.3.1

• "Proportion of wastewater safely treated"

$$Indicator~6.3.1 = \frac{Total~return~flows~after~treatment}{Total~wastewater~sent~to~sewerage~industry}$$

- Numerator and denominator come from the combined presentation
 - > Numerator is wastewater sent to treatment = 427
 - > Denominator is total return flow =1031
- Indicator value is 0.415
- Can be done by industry



Indicator 6.4.1

• "Change in water-use efficiency over time"

$$Indicator \ 6.4.1 \ (productivity) = \frac{value \ of \ economic \ output}{total \ water \ use}$$

- > Numerator comes from national accounts (gross value added) but included in combined presentation
- Denominator comes from combined presentation: total use of water by each sector of the economy (including reused water)
- Importance of timeseries

	ISIC A	ISIC B	ISIC C	ISIC D	ISIC 36	ISIC 37		Total Industry
Gross Value Added	24,731	42,327	98,763	14,997	3,193	3,217	632,663	819,891
Water Use	159	60	140	408	3	100	53	924
Water productivity	155	704	704	37	1,030	32	11,848	887



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