Overview of the SEEA and its application

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Information needs for sustainable development
Sustainable development initiatives

• 2030 Sustainable Development Agenda

• Inter-agency Expert Group on the Sustainable Development Goals

• International initiatives
  
    > OECD’s Green Growth Strategy, WAVES, VANTAGE, UNEP-led Green Economy programme, CBD Aichi Targets, TEEB
Sustainable development: Integration

• The economy impacts the environment and the environment impacts the economy

• Need to understand these inter-linkages and incorporate them into policy design
Environmental policy must consider a number of different natural systems which are interconnected

- E.g. Water-Energy-Food-Climate Change nexus

- Policy should recognize synergies and trade-offs between these different systems
Statistics for Sustainable Development

• Sustainable Development Policy should:
  > Take an integrated approach: Policy should be based on a better understanding of interactions and tradeoffs between the different realms of sustainability
  > Be based on evidence: Policy should, to the greatest extent possible, be informed by rigorously established evidence

• To achieve this, an information system is needed to support policy analysis and decisions, which provides integrated information on:
  > The multiple issues relevant to sustainable development
  > The interconnections between these issues
Silo Approach → Integrated Statistics

Accounts to integrate statistics:

- Linking policy needs and statistics
- Understanding the institutional arrangements
- Integrated statistical production process/chain and services
- Consistency between basic data, accounts and tables and indicators

SEEA
Silo Approach ➔ Integrated Statistics
The SEEA: responding to information needs
The System of Environmental Economic Accounting (SEEA)

- An internationally agreed statistical framework to **measure the environment and its interactions with economy**

- The **SEEA Central Framework** was adopted as an **international statistical standard** by the UN Statistical Commission in 2012

- The **SEEA Experimental Ecosystem Accounts** complement the Central Framework and represent international efforts toward **coherent ecosystem accounting**
The SNA and SEEA: Systems of integrated information
Policy Quadrants and the SEEA

I. Improving access to services and resources
II. Managing supply and demand and reducing impacts
III. Improving the state of the ecosystems
IV. Mitigating and adapting to extreme events
Integration of environmental-economic information

- The SEEA provides a tool for the effective integration of environmental economic data

- This integration can take a number of forms:
  
  > Presentation of different information using common format and classifications
  
  > Presentation of descriptive statistics and indicators on pressure, state, response
  
  > Construction of analytical models for environmental-economic analysis
Integrated environmental and socio-economic data for policy

- Enable analysis of the impact of economic policies on the environment and vice versa
- Identify the socio-economic drivers, pressures, impacts and responses affecting the environment
- Provide a quantitative basis for policy design, including:
  - Productivity analysis
  - Natural resource management
- Support greater precision for environmental regulations and resource management strategies
- Provides indicators that express the relationships between the environment and the economy
Integrated data for policy—an example

Energy policy

• Energy supply and use tables in monetary and physical terms provide information on, among others,
  > Energy dependency
  > Industry reliance on particular sources of energy
  > Profile of energy products supplied and used

• Useful for evidence based policies on energy to better meet the needs of the economy in a more efficient manner

• Integrated nature allows for links to be made with other sectors
SEEA has been adopted by many international policy initiatives

**International Policy Frameworks:**
- European Union: Beyond GDP
- Aichi Target 2 (CBD)
- OECD: Green Growth Strategy
- WAVES (World Bank)
- SCP (UNEP); Water (GEMI); Sustainable Tourism (WTO)....

**Underlying Statistical Framework:**
SNA and SEEA (Central Framework and EEA)

Country participation in and reporting to international initiatives
Sustainable Development Goals and SEEA

The SEEA is an important statistical framework for monitoring the SDGs in an integrated way.
SEEA based SDG Indicators

Using the SEEA to calculate SDG indicators can result in higher quality indicators in terms of:

• **Policy Relevance and Utility:** Presentation of highly relevant environmental-economic information;
  - Aggregates and indicators as headline numbers to frame discussions
  - Descriptive statistics offering a richer understanding of policy issues
  - Coherent Data for environmental-economic modelling

• **Analytical Soundness:** A vehicle for harmonization of environment statistics to ensure methodological coherence of

• **Measurability and Practicality:** A vehicle to achieve an integrated production process for indicators by consolidating data collection and compilation
Integrated Architecture for SDGs

Architecture of integrated global and national monitoring requires methodological consistency across themes and levels of monitoring.

The SEEA should be the methodological basis for:

1. The integration of environmental economic indicators for the SDGs.
2. The disaggregation of aggregate ‘global indicators’ to inform national policy
Indicators based on Standards

- Higher quality
- International comparability
- Comprehensive basis for (dis)aggregation

Statistical Standards

- Aligned Definitions and Classifications
- Improved capacity to compare and/or combine statistics from different sectors
- Basis for coherent and comprehensive data sets

Frameworks to coherently integrate information:
Implementation Tools

- Implementation Strategy
- Implementation Guide and Diagnostic Tool
- Technical Notes and Core Tables
- Compilation Guidelines
  - Water
  - More being developed…
- SEEA Training
  - Current online and in-person phase
  - In-depth modules being further developed
THANK YOU
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