Overview of Natural Capital Accounting
System of Environmental-Economic Accounts (SEEA)

Mark Eigenraam: Director, IDEEA

Gaborone Declaration for Sustainability in Africa, Regional Perspectives on Natural Capital Accounting
June 21 – 23 2016, Intercontinental Hotel, Nairobi, Kenya
SDGs and Gaborone Declaration

- End Poverty
- Sustainable Agriculture
- Healthy Lives
- Equitable Education
- Gender Equality
- Water
- Energy
- Sustainable Growth
- Innovation & Infrastructure
- Inequality
- Sustainable Cities
- SCP
- Climate Change
- Oceans
- Ecosystems
- Peace and Governance
- Partnership
## Distinct information requirements

.........but linked?

<table>
<thead>
<tr>
<th>Poverty</th>
<th>Environment</th>
<th>Economic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Location</td>
<td>Production and income</td>
<td>Income</td>
</tr>
<tr>
<td>People</td>
<td>Herd size and harvest area</td>
<td>Wealth</td>
</tr>
<tr>
<td>Demographics</td>
<td>Species and biodiversity</td>
<td>Finance and budgeting</td>
</tr>
<tr>
<td>Migration</td>
<td>Technology and machinery</td>
<td>Equity</td>
</tr>
<tr>
<td>Access to resources</td>
<td>Water use and irrigation</td>
<td>Taxation and incentives</td>
</tr>
<tr>
<td>Travel to natural resources</td>
<td>Fertilizer use</td>
<td>GDP</td>
</tr>
</tbody>
</table>

...
History
What is accounting?

- A record of transactions.....
  - Buy and sell goods and services
- A management tool...
  - To understand profit loss etc
  - Starting in 1496, with Pacioli Treaty on mathematics
- Merchants of Venice – trade records

- To understand where you are and how you got there!..... Recording

- Where to do wan to be in the future?.... Planning
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 SEEA Family (Accounting for NC)

SEEA Central Framework

System of Environmental-Economic Accounting 2012
Central Framework

SEEA Ecosystem Accounting

System of Environmental-Economic Accounting 2012
Experimental Ecosystem Accounting

SEEA Agriculture, Forestry & Fisheries

Towards a System of Environmental-Economic Accounting 2015
Agriculture, Forestry and Fisheries

SEEA Water

SEEA-Water
System of Environmental-Economic Accounting for Water
Policy Demand: International Context

- Agenda 21
- Rio+20 outcome document
- SDGs monitoring
- European legislation
- Gaborone Declaration
- Aichi targets
- Natural Capital Accounting (NCA)
- International initiatives
  - OECD’s Green Growth Strategy, WAVES, VANTAGE, UNEP-led Green Economy programme, CBD, TEEB
Role of accounting - **Integration**

**Silo Approach** → **Integrated Statistics**

- **Agency A**
  - Policy A
  - Info A
  - Data A

- **Agency B**
  - Policy B
  - Info B
  - Data B

- **Agency C**
  - Policy C
  - Info C
  - Data C

**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
Coverage of the SEEA

Physical flow accounting (Physical Supply & Use Tables)
  • Energy, water, emissions, waste

Accounting for environmental activities

Natural resource accounting
  • Stocks, natural growth, extraction and depletion

Land accounting
  • Changes in land use and land cover

Ecosystem accounting
Environmental Benefits: Common Property

- Forestry
- Fishing, tourism
- Agr. Accounts
- Ecosystem Accounts
- Wetland
- Fish Stocks
- Water Account
- Rice

Environmental-Economic Accounting

Rice

Tourism, Fishing,

Water

Forestry

Agr. Accounts
Global Coordination and Integration

SDGs (Countries)
Biodiversity (CBD)
Poverty (UN PEI)
Food & Fibre (FAO)
Desertification (UNCCD)
Planning National/Regional
Climate (UNFCCC)

SEEA CF, EEA
SEEA EEA
SEEA
SEEA CF, EEA
PEAF*
SEEA Agr. / Water
SDGs and Gaborone Declaration

Many goals – ‘one information system’
Thank You
Mark Eigenraam: Director, IDEEA

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SEEA Central Framework

SEEA Experimental Ecosystem Accounting