Link between Environmental Accounts and the Tourism Satellite Account

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Satellite Accounts of Mexico

• NPI
• Housing
• Health
• Culture
• Unpaid domestic work
  • Tourism
  • Environment
To measure the “negative” and “positive” impact of the economic activities on the environment, linking it with the main macroeconomic variables (SNA-Mexico), obtaining the Gross Domestic Product Environmentally Adjusted (GDP-Green).

First case study

EXPERTS FROM UNITED NATIONS AND WORLD BANK:
- Jan Van Tongeren
- Stefan Schweinfest
- Ernst Lutz

NOWADAYS:
- Published regularly
- Actualization to the year 2014, in November of the current year
- Types of users: tourist, farmer, and miner
Depletion:
- Forest resources
- Water resources (groundwater)
- Underground assets

Degradation:
- Air
- Water bodies
- Soil

Environmental Protection Expenditure:
- Public sector

Mexico Tourism Satellite Account (TSA-Mexico)

- It measures the production activities related with tourism, considering the next concepts:
  - Visitor
  - Usual environment
  - Purpose of the trip

- It generates indicators to transmit:
  - Economic importance of tourism
  - Tourism consumption composition:
    - Domestic
    - Inbound
    - Outbound
TSA-Mexico: Classification

• Characteristic activities
  - Accommodation (Hotels, bungalows)
  - Air transport
  - Tourism transport (by land, by water, among others)
  - Travel agencies and tours operators

• Connected activities
  - Restaurants
  - Foreign exchange offices and exchange centers
  - Recreation services
  - Local transport services

TOWARDS A CORRELATION
### Correlation identifications

<table>
<thead>
<tr>
<th>SEEA-Mexico</th>
<th>TSA-Mexico</th>
</tr>
</thead>
<tbody>
<tr>
<td>Groundwater</td>
<td>Water use in touristic activities (hotels, restaurants, etc.)</td>
</tr>
<tr>
<td>Waste water</td>
<td>Water contamination by touristic activities (hotels, restaurants, etc.)</td>
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<tr>
<td>Air emissions</td>
<td>Flight operations (air transportation) Bus stations (land passenger transportation)</td>
</tr>
<tr>
<td>Soil degradation</td>
<td>Touristic use of urban soil</td>
</tr>
<tr>
<td>Residues</td>
<td>Solid waste generation by visitors</td>
</tr>
</tbody>
</table>

### Proposal: touristic GDP environmentally adjusted

\[
\text{TGDPe} = \text{TGDP} - \text{TCEDDT}
\]

Where:

- **TGDPe**: Touristic GDP environmentally adjusted
- **TGDP**: Touristic GDP
- **TCEDDT**: Total Costs for Environmental Depletion and Degradation generated by Touristic activities
Challenges

- Identification of touristic activities for each of the SCEEM variables
- Disaggregation of information in physical and monetary units
- Definition of information to use
- Linking with the measurement of ecosystem services (cultural services)

Porque proporcionamos información para todos...

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