

Link between Environmental Accounts and the Tourism Satellite Account

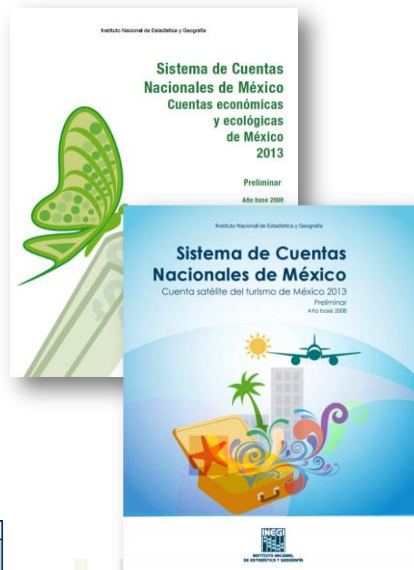
Presented by:

Raúl Figueroa Díaz



Satellite Accounts of Mexico

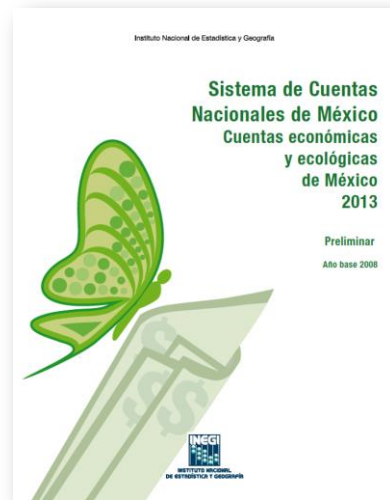
- NPI
- Housing
- Health
- Culture
- Unpaid domestic work
- Tourism**
- Environment**



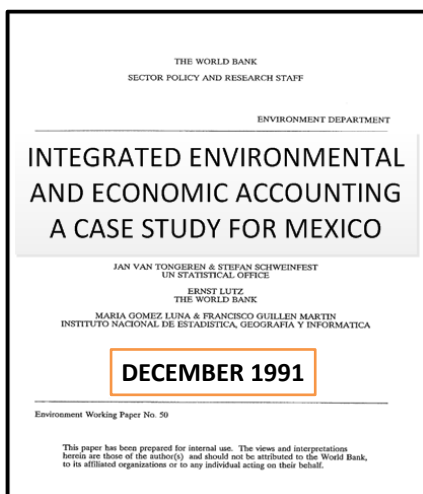
Environmental Accounts of Mexico

Objective

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

SCEEM: Coverage



Negative impact

Depletion:

- Forest resources
- Water resources (groundwater)
- Underground assets

Degradation:

- Air
- Water bodies
- Soil



Positive impact

Environmental Protection

Expenditure:

- Public sector

Mexico Tourism Satellite Account (TSA-Mexico)

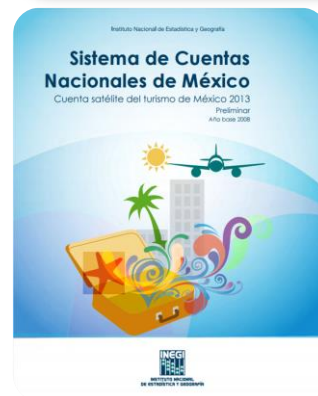
- It measures the production activities related with tourism, considering the next concepts:

- Visitor
- Usual environment
- Purpose of the trip

- It generates indicators to transmit:

- Economic importance of tourism
- Tourism consumption composition:
 - Domestic
 - Inbound
 - Outbound

Objective and Criteria



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

SEEA-Mexico	TSA-Mexico
Groundwater	Water use in touristic activities (hotels, restaurants, etc.)
Waste water	Water contamination by touristic activities (hotels, restaurants, etc.)
Air emmisions	Flight operations (air transportation) Bus stations (land passenger transportation)
Soil degradation	Touristic use of urban soil
Residues	Solid waste generation by visitors

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)

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para todos...*

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