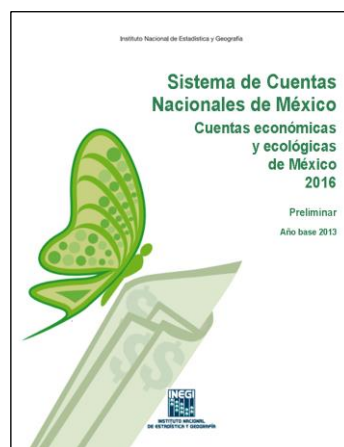


Some applications and a quick evaluation of the Statistical Framework

By: Raul Figueroa Diaz

Mexican satellite accounts

- Tourism
 - Tourism quarterly indicator
- Environmental
- Culture
 - Non-profit institutions
 - Unpaid Work of Households
 - Health
 - Housing



Quick filling of MST charts

Aim

Complete the MST charts quickly (in a **week**), in order to valuate the possibility that countries that have **Tourism, Environmental and Culture satellite accounts** will fill the charts proposed by the UNWTO for the measurement of Sustainable Tourism.



MST	Mexico	TIER	Development term	Scope
Hybrid chart - Economic dimension for tourism industries				
1. Income and costs				
Output	✓	I	Short term	Total
Gross value added	✓	I	Short term	Total
Compensation of employees ¹	✓	I	Short term	Total
Intermediate consumption	✓	I	Short term	Total
Total	✓	I	Short term	Total
Water		II	Middle term	

¹ It refers to compensation of employees.

MST	Mexico	TIER	Development term	Scope
Energy			Middle term	
Waste treatment			Middle term	
Expenditure on tourism characteristic products	✓		Short term	Total
2. Business demographics				
Total number of establishments	✓		Short term	Total
Small	✓		Short term	Total
Medium	✓		Short term	Total
Large	✓		Short term	Total

MST	Mexico	TIER	Development term	Scope
Locally owned			Long term	
Foreign owned			Long term	
Location – by tourism region				
			Long term	
3. Employment ¹				
Employment in tourism	✓		Short term	Total
Total (Jobs or employees)	✓		Short term	Total

¹ Full-time equivalent employment positions in tourism activities.

MST	Mexico	TIER	Development term	Scope
Male	✓	II	Middle term	
Female	✓	II	Middle term	
Part time		II	Middle term	
Full time		II	Middle term	
Employees	✓	I	Short term	
Self-employed		II	Middle term	
Age/experience		III	Long term	
Education/skill set		III	Long term	

MST	Mexico	TIER	Development term	Scope
4. Investment and infrastructure				
Gross fixed capital formation	✓	I	Short term	Total
Buildings	✓	I	Short term	Total
Equipment	✓	I	Short term	Total
Other	NA	NA	NA	NA
Capital stock		III	Long term	
Available capacity (accommodation)	✓	I	Short term	Total
Net financial position		III	Long term	

MST	Mexico	TIER	Development term	Scope
Hybrid chart - Environmental dimension for tourism industries				
1. Environmental flows				
Net water use ¹	✓		Middle term	Parcial
Own-account water abstraction ²	✓		Middle term	Parcial
Wastewater generated ³	✓		Middle term	Parcial
Net energy use			Middle term	
Use of energy from renewable resources			Middle term	
<p>¹ It refers to depletion of groundwater from the "industry".</p> <p>² It has been taken by reference the industry use.</p> <p>³ It refers to wastewater discharges from the "industry".</p>				

MST	Mexico	TIER	Development term	Scope
GHG emissions ¹	✓		Middle term	Parcial
Solid waste generation	✓		Short term	Parcial
2. Environmental assets				
Land				
Land use ²	✓		Middle term	Parcial
Land value	✓		Middle term	Parcial
<p>¹ Referred to criteria gases. This aggregate includes public car emissions, passenger trucks, aircraft operation and passenger terminals. Besides, there is available information about the emissions corresponding to the airport equipment and locomotives, which should be evaluated if they would be included in the process. The "Total industries" includes households.</p> <p>² It has been taken by reference the urban use.</p>				

MST	Mexico	TIER	Development term	Scope
Hybrid chart – Demand perspective				
Number of visitors				
Total	✓	II	Middle term	Parcial
By age		III	Long term	Parcial
Inbound arrivals		II	Middle term	
Number of overnights		II	Middle term	
Tourism expenditure				
Total	✓	I	Short term	Total

Note: Information related to inbound tourism.

MST	Mexico	TIER	Development term	Scope
Passenger transport	✓	I	Short term	Total
Personal	✓	I	Short term	Total
Business/professional	✓	I	Short term	Parcial
Visitor satisfaction		III	Long term	
Attendance at events, sites and cultural assets				
By type of event, site, asset		III	Long term	

Note: Information related to inbound tourism.

MST	Mexico	TIER	Development term	Scope
Hybrid chart - Spatial perspective				
Land cover	✓		Short term	Total
Forest	✓		Short term	Total
Agricultural land	✓		Short term	Total
Urbana areas	✓		Short term	Total
Surface water	✓		Short term	Total
Beach / Coastal areas	✓		Short term	Total
Other areas	✓		Short term	Total
Total	✓		Short term	Total

MST	Mexico	TIER	Development term	Scope
Ecosystem condition			Long term	
Tourism establishments			Long term	
Employment			Long term	
Number of visitors (domestic and inbound)			Long term	
Resident population			Long term	

MST	Mexico	TIER	Development term	Scope
Stylised asset account for representative animal species (number of animals)				
Opening stock	✓	II	Middle term	Parcial
Additions to stock		III	Long term	
Reductions in stock				
Natural losses		III	Long term	
Poaching	✓	II	Middle term	Parcial

Source: Environmental Ministry. National System of Environmental Information and Natural Resources (SNIARN by its Spanish acronym).
Federal Attorney for Environmental Protection (PROFEPA by its Spanish acronym).

MST	Mexico	TIER	Development term	Scope
Other reductions	✓	II	Middle term	Parcial
Net change in stock	✓	II	Middle term	Parcial
Closing stock	✓	II	Middle term	Parcial
Opening stock		III	Long term	
Closing stock		III	Long term	

Source: Environmental Ministry. National System of Environmental Information and Natural Resources (SNIARN by its Spanish acronym).
Federal Attorney for Environmental Protection (PROFEPA by its Spanish acronym).
Work report. Several years.

MST	Mexico	TIER	Development term	Scope
Tourism land account				
Builed areas / artificial areas	✓	I	Short term	Parcial
Crops (herbaceous, woody, others)	✓	I	Short term	Parcial
Meadow	✓	I	Short term	Parcial
Areas covered with trees	✓	I	Short term	Parcial
Mangroves		II	Middle term	
Areas covered with bushes	✓	I	Short term	Parcial

Source: INEGI. Letters of Land Use and Vegetation. Series III & V. Information in hectares for years 2002 and 2011. Ecosystem accounting preliminary results.

MST	Mexico	TIER	Development term	Scope
Shrubs and other vegetations, aquatic and regularly flooded (includes wetlands)	✓	I	Short term	Parcial
Scarcely natural and vegetable areas	✓	I	Short term	Parcial
Barren land		II	Middle term	
Snow and permanent glaciers	NA	NA	NA	NA
Indoor water bodies	✓	I	Short term	Parcial
Coastal bodies of water and intertidal areas	✓	I	Short term	Parcial

Source: INEGI. Letters of Land Use and Vegetation. Series III & V. Information in hectares for years 2002 and 2011. Ecosystem accounting preliminary results.

MST chart considerations

Six of 11 proposed paintings were filled, partially.

It is important to specify in the tables when reference is made to domestic and / or receptive visitors.

Specify what is the unit of measure in the combined tables, since it is not uniform within a single item.

Develop a Technical Guide for the filling of tables for the MTS (similar to the Technical Guide of the SEEA-EEA, which indicates:

- Development of the tables from the SEEA-CF, TSA and the Culture Satellite Account.
- Option to occupy multiples of the base unit considering that there may be very large amounts (pesos - thousands of pesos)

MST chart considerations

Approve tourism industries in all the tables.

Develop a glossary to support the filling of the tables.

Determine a basic version of the tables and an expanded version..

Knowledge of MST tables and variables is a motivation to investigate new measurement proposals that are feasible to perform.



Thanks for your attention!

Knowing Mexico

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