

13th Global Forum on Tourism Statistics Modeling economic monitoring systems of tourism impacts at the sub-national level

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Agenda

Background of the research

• GSTC and ETIS experience

Theoretical framework

• Stakeholder theory, Economic Indicator systems and Tourism Satellite Account approach

The aim of the research

- Which model can provide an appropriate design for a decision-making process that focuses on collecting and correlating fundamental tourism economic data at the local level?
- Which economic indicators are fundamental for monitoring and managing the economic impacts of tourism at the sub-national level?

A local tourism economic model

• Destination perspective

The case study

• Visit South Sardinia

#VisitSouthSardinia



From GSTC to ETIS

KEY ROLE of <u>stakeholders</u>

Lack of ECONOMIC DATA:

- tourism daily spending
- contribution to GDP

Tourism economic impact in the TSA approach

- The Tourism Satellite Account (TSA) (IRTS 2008*, TSA: RMF 2008*) and is the culmination of research on measuring tourism's direct economic contribution to a national economy and for outlining a path for estimating the indirect and induced economic effects of tourism.
- The first Italian TSA (published in 2012) has been realized by a working group composed by members of Istat, Bank of Italy, University of Messina, CISET and the National Tourism Observatory.
- The first Italian TSA would represent a prototype which aims to reconcile internal tourism consumption with domestic supply based on data produced by official sources.

TSA: RMF 2008*: United Nations (2010) Tourism Satellite Account: Recommended Methodological Framework 2008 (TSA: RMF 2008)

IRTS 2008*: United Nations (2010) International Recommendation for Tourism Statistics 2008 (IRTS 2008)

The first Italian National Satellite Accounts

(Source: Istat 2012, «Statistiche Report, Anno 2010»)



The first Italian National Satellite Accounts

(Source: Istat 2012, «Statistiche Report, Anno 2010»)

ndustrie turistiche e altre industrie	Produzione turistica	Valore aggiunto turistico
Industrie turistiche	108.462	63.654
Alloggi per visitatori	53.651	37.610
Alberghi	32.865	18.827
Seconde case	20.786	18.783
Ristorazione	14.787	7.393
Trasporto ferroviario	5.675	3.630
Frasporto su strada	4.300	2.818
Trasporto marittimo	2.076	960
Trasporto aereo	6.496	1.245
Noleggio attrezzature per trasporto	604	290
genzie di viaggio, tour operator e altri servizi di prenotazione	6.036	1.591
Servizi culturali	1.100	681
Sport e ricreazione	2.733	1.065
Commercio dettaglio beni caratteristici tipici del Paese	11.003	6.372
Altre industrie	42.715	19.179
TOTALE	151.177	82.833

Italian Tourism Direct Output and Direct Gross Value Added breakdown by category

VALORE AGGIUNTO DEL TURISMO (VAT) PER BRANCA DI ATTIVITÀ ECONOMICA. Anno 2010, composizione percentuale



From ITSA to sub-regional tourism evaluation: the drawbacks of a «top-down» approach

- Italian TSA is far from complete:
 - ✓ it only considers the direct effect of tourism consumption omitting the indirect and induced impacts;
 - ✓ it does not mention the effect of tourism impact on employment.
- Italian official statistical sources do not systematically collect economic data disaggregated at the municipal level.
- Information on tourism demand collected through the two official sample surveys "Holidays in Italy and abroad" (Istat) and "International Tourism of Italy" (Bank of Italy) cannot be used to estimate the peculiarities that characterize tourism in each sub-regional destination.



Relevant Stakeholders	Economic Activities: Production-Supply Consumption-Demand		Economic Impacts:
	Supply	Demand	
Private sector	Revenues	External costs	Private added value (direct and indirect effects)
Public sector	Tourism revenues	External costs for tourism services	Public Added Value
<u>Community</u>	Salaries	Induced demand	Social Value
<u>Tourists</u>		Tourist demand	Tourist Demand Value

Relevant Stakeholders	Economic Indicators	Methods/Sources
Private Sector	Contribution of Tourism to GDP (WTO- GSTC-ETIS)	Company search, i.e. Amadeus Tourist Survey
	% of Tourism enterprises actively taking steps to source local sustainable and fair trade goods and services (ETIS)	Enterprise Survey
	Occupancy Rate Average price RevPAR (WTO- GSTC-ETIS)	Province Database Tourism Enterprises Consortia/ Associations Survey
	Number of second homes per 100 homes (ETIS)	Municipality Survey

Relevant Stakeholders	Economic Indicators	Methods/Sources
Public Sector	Annual expenditures on tourism (% of total tourism revenue) Tourism revenue: Second homes taxation, eco-taxes, user-fees, transfers from public administrations, funding and donations (WTO)	Municipality Survey

Relevant Stakeholders	Economic Indicators	Methods/Sources
<u>Community</u>	Direct tourism employment/total employment (ETIS- WTO)	Labour Agency Survey
	Average tourism wage/average wage in community (WTO)	Company search, i.e. Amadeus

Relevant Stakeholders	Economic Indicators	Methods/Sources
<u>Tourists</u>	Daily Spending per tourist Average length of stay Tourist nights (ETIS-GSTC-WTO)	Survey Province Database

Visit South Sardinia Tourism Monitoring Ongoing project implementation and first results





First step: Tourism typical activitieseconomic evaluation

	Employed Persons (units)	Mean* share of Employed Persons (%)
All	33974	100%
Tourism Activities	6831	40,22%
		Mean* share of
	Aggregated Wages	Aggregated Wages
	(thousand Euros)	(%)
All	806058	100%
Tourism Activities	173975	40,46%
		Mean* share of Gross
	Gross Value Added	Value Added (%)
All	1718092	100%
Tourism Activities	282076	37,88%

*The mean is calculated giving to each municipality's share the same weight.

Source: Own calculation based on "Aida database of Bureau van Dijck" which contains firm-level information about companies located in Italy.

Visit South Sardinia Tourism Activities breakdown by Industry (NACE Rev. 2)



Second step: official accommodations tourism indicators and evaluation of registered tourism volume





The survey sampling

The sampling is the Time Location Sampling (Kalsbeek, 2003)

sampling people at locations where they may be found

suitable for hard-to-reach populations, e.g. unobserved tourists.

The specific TLS for tourism surveys (De Cantis et al. 2010) is a two-stage stratified sampling design:

•the first-stage units are constituted by the combination of places, days and hours;

•the second-stage units are constituted by the Italian (not resident) and foreign tourists at the end of their vacation period in the municipalities.

Third step: official tourism expenditure sample survey

In the sample survey:

-the questionnaire is inspired by ETIS Toolkit Sample Visitor Survey

-the sampling plane is made using the Time Location Sampling approach and the sample size is determined using the official data from different statistical sources (Banca d'Italia, ISTAT, arrivals of tourist in Visit South Sardinia).

	Inbound Tourists	Domestic Tourists
May	45	74
June	73	136
July	90	117
August	89	123
September	87	81
Total	384	531

Visit South Sardinia survey sampling

Next steps

- Implementation of the sample survey in the municipalities and calculation of the final – demand direct effect coefficients for each category of item purchased
- Use of suitable administrative sources to cover the lack of information on the ignored component of the demand side (e.g. household census, garbage production, traffic, second houses registers, etc.) and sample survey of the non official final demand
- Involvement of the four consortia that represent the private sector to determine the destination RevPAR as a measure of destination enterprise performance
- Public sector collection of revenues (e.g. eco-taxes and user fees) and public costs (e.g. seaside cleaning and bathing lifeguard service) in tourism

