

TOWARDS MEASURING THE SUSTAINABILITY OF TOURISM

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TOGETHER FOR EU TOURISM

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Do we know what we want to measure?

⇒ Need for an internationally agreed conceptual framework





All Regions | 5 Mar 2024





UN Adopts a New Global Standard to Measure the Sustainability of Tourism

A groundbreaking statistical framework, developed under the leadership of UN Tourism, has been adopted by all 193 UN member states.

The Statistical Framework for Measuring the Sustainability of Tourism (MST) thus becomes the internationally agreed reference framework for measuring the economic, social and environmental aspects of tourism

The adoption by the UN Statistical Commission at its 55th session (27 February - 1 March 2024) marks a historical milestone towards harnessing the full potential of the sector, providing a solution to the pressing need for a harmonized methodology to effectively assess the sustainability of tourism

"Tourism is a powerful force for positive change when managed responsibly and sustainably," says Zurab Pololikashvili. UN Tourism Secretary General. "The adoption of the Statistical Framework for Measuring the Sustainability of Tourism marks a paradigm shift, going beyond GDP by enabling the measurement of what matters most to people and planet." Statistical Framework for Measuring the Sustainability of Tourism (SF-MST)

- Prepared by UNWTO (2017-2023)
- Multidisciplinary effort, led by a global Expert Group (incl. EC)
- Recently adopted by the UN Statistical Commission
- conceptual framework, laying down internationally agreed principles, concepts and definitions
- list of operational, measurable indicators

⇒ EU Tourism Dashboard (1)



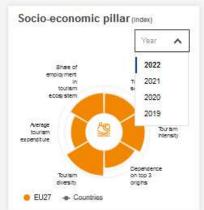






Overview of indicators per policy pillar





The **EU Tourism Dashboard** is an **online knowledge portal** characterising European tourism destinations in relation to three pillars: **green** and **digital transition**, and **socio- economic resilience**.

- 30+ indicators / descriptors, updated annually
- EU27 + CH, IS, NO, at national and regional level
- Web-interface
- Developed jointly by DG GROW and the EC's Joint Research Centre (JRC), in consultation with Member States (TAC)
- Largely built on official statistics (Eurostat) but enhanced with additional (big) data sources & modelling.

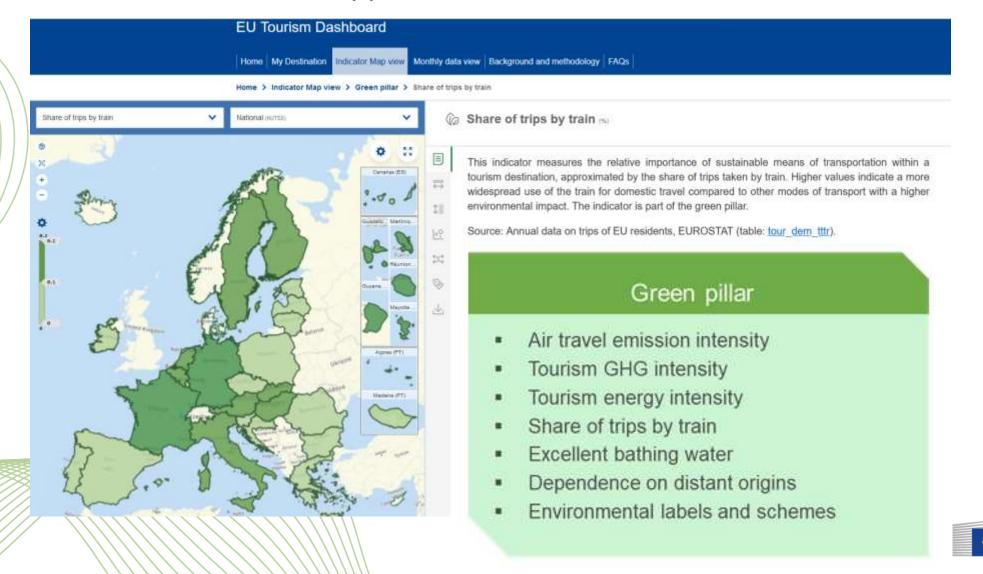
https://tourism-dashboard.ec.europa.eu/



European

Sustainability indicators: initiatives at the EC

⇒ EU Tourism Dashboard (2)



⇒ EU Tourism Dashboard (3)

Green pillar

- Air travel emission intensity
- Tourism GHG intensity
- Tourism energy intensity
- Share of trips by train
- Excellent bathing water
- Dependence on distant origins
- Environmental labels and schemes

Digital pillar

- E-commerce sales
- Enterprises using social media
- Personnel training on digital skills
- Enterprises seeking ICT specialists
- Internet speed at tourism destinations
- Accommodations listed online

Socio-economic pillar

- Tourism intensity
- Tourism seasonality
- Dependence on top 3 countries of origin
- Tourism diversity
- Average tourism expenditure
- Economic contribution of tourism

Tourism descriptors (demand & supply)

- Nights-spent
- Arrivals
- Tourism capacity
- Occupancy rate
- Average duration of stay

- Tourism density
- Dominant tourism typology
- Share of foreign tourists
- Progress of tourism recovery

- · Presence of blue flags
- UNFSCO sites
- Share of protected/designated land
- High nature-based tourism opportunities





⇒ Eurostat tourism statistics

Key aspects

- Approach
 - Build on existing indicator systems, build on existing data and frameworks
 - Stepwise work: first indicator set of 'low hanging fruits' based on existing harmonised (official) statistics; then gradually expanding contents and/or granularity
 - First indicator set to be seen as a kick-off, with known shortcomings (bias in terms of dimensions covered)
 - Interoperability with the EU Tourism Dashboard (through intensive collaboration with the JRC)
 - Aligned as much as possible to the SF-MST, but focusing on a concrete, operational set of indicators that should work for all EU countries (by relying on available harmonised data)



⇒ Eurostat tourism statistics

Key aspects

Sustainability of tourism >> environmental dimension:

1. Economy

- → e.g. Tourism direct gross value added in basic prices [% of total gross value added in the economy] (*)
- → e.g. Travel balance (Balance of Payments travel item credit minus debit, or receipts minus expenditure) [euro]
- \rightarrow e.g. Nights spent by visitors from the top3 foreign markets in tourist acc. est. [% of total nights spent] (*)
- → e.g. Survival rate in year t of enterprises in selected tourism industries, newly born in year t-5 [%]

2. Labour market

- → e.g. Female workers in selected tourism industries [% of employment in selected tourism industries]
- → e.g. Gross hourly earnings in selected tourism industries [euro]
- → e.g. Job vacancy rate in accommodation and food services [euro]

(*): already included in the EU Tourism Dashboard



⇒ Eurostat tourism statistics

Key aspects

Sustainability of tourism >> environmental dimension:

3. Social and cultural impact

- → e.g. Participation in tourism by residents [number of tourists as % of the total population (aged 15+)]
- → e.g. Tourism intensity Nights spent in rented accommodation per inhabitant [number] (*)

4. Environment

- → e.g. Trips by train as main means of transport [% of total number of trips] (*)
- → e.g. Coastal bathing waters classified as excellent or good quality [% of all coastal bathing waters] (*)

5. Digitalisation

- → e.g. Ratio of annual increase in nights spent in short-term rentals booked via online accommodation platforms and
 annual increase in total nights spent in tourist acc. establishments [ratio]
- → e.g. Value of e-commerce sales in selected tourism industries [% of turnover] (*)



⇒ Eurostat tourism statistics

Key aspects

- Challenges (linked to using existing European statistics)
 - Representativeness: possibly skewed picture due to imbalanced coverage of the dimensions
 - Bias or under-estimation due to low coverage of same-day visitors or tourist staying at non-rented accommodation (or non-registered, non-observed rented accommodation)
 - Sectoral (NACE), geographical (NUTS, LAU) and temporal granularity
 - Lack of 'subjective' indicators (locals' attitudes towards tourism, satisfaction of tourists)
 - Limitations should be clearly communicated to users
- Timetable
 - Work-in-progress in the course of **2024**





⇒ Eurostat environmental statistics

Statistics of environmental impacts with possible relevance for tourism

- Emissions of greenhouse gases
- Energy use (with breakdowns by type of energy product)
- Waste generation
- Air pollution
- solution available broken down by economic activity
- but very tricky to identify the "tourism part" within an economic activity
- ➡ Holy Grail: linking TSA and SEEA ?

[Tourism Satellite Accounts and System of Environmental Economic Accounting]





⇒ Eurostat environmental statistics

Environmental accounts

- Air emissions accounts by NACE activities
 - Economy broken down into 64 NACE categories plus households e.g.
 - Accommodation and food service activities
 - Air transport but including freight and business travel
 - Transport activities by households but including commuting
- Air emissions accounts related to road transport (CO2, PM, NOx, NMVOC)





⇒ Eurostat environmental statistics

Other environmental statistics

Physical energy flow accounts

 Supply and use of 37 energy products – economy broken down into 64 NACE activities plus households

Carbon footprint

• CO2 footprint of final consumption by households – economy broken down into 64 NACE activities

Waste generation

Generation of waste – economy broken down into 9 NACE activities plus households

Water use

Water use by economical sector - economy broken down into 10 NACE activities plus households



