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Measuring and monitoring the sustainability of tourism at the regional level: Catalonia's tourism sustainability indicators project





Jordi Galter, M. Carme Saborit, Mercè Escrichs, Cristina Rovira

Catalonia launched the National Commitment for Responsible Tourism in 2023 to promote sustainable growth in the tourism sector. Due to the limited number of indicators at the regional level, the OECD and the EU have been supporting Catalonia and three other Spanish Autonomous Communities in developing a common set of sustainable tourism indicators. The project has reviewed existing frameworks to measure sustainability, and the piloting phase has allowed for the testing of the proposed set of indicators.

Catalonia's strategy: Commitment for Responsible Tourism

The future of tourism will be sustainable, or it won't be

A Commitment with 67 challenges and objectives

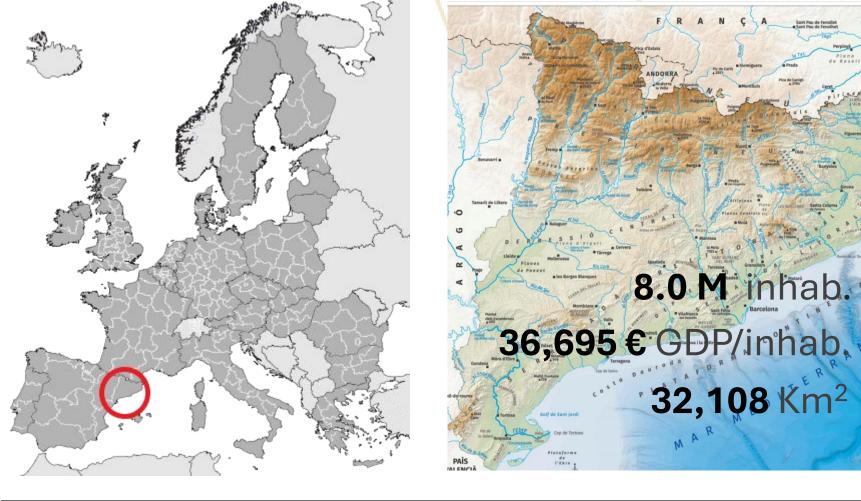


Environmentally sustainable tourism



Socially just tourism





Key Indicators 2023 26,1 Number of foreign visitors (milions) 20,8

32,108 Km²

Contribution of tourism to employment (%) Sources: Idescat, based on FRONTUR/EGATUR(INE), Labour Fource Survey

https://empresa.gencat.cat/web/.content/20_-_turisme/compromis_turisme_responsable/enllacos-destacats-article/Commitment_EN.pdf

TSI Project: towards a more sustainable and resilient tourism



Core indicators to measure the sustainability of tourism in the regions

% of Spain

| Dimension | Policy issue | Indicator | |
|----------------|--------------------------------|---|--|
| Governance | Sustainable tourism management | A.1 Sustainable tourism development strategy | |
| Economic | Benefits to the local economy | B.1 Tourism employment | |
| | | B.2 Tourism value-added | |
| | | B.3 Tourist expenditures | |
| | | B.4 Bed occupancy | |
| | Reduced seasonality | B.5 Tourism seasonality | |
| | Attraction of tourists | B.6 Tourist satisfaction | |
| | Reduced vulnerability | B.7 Market dependency | |
| | Digitalisation | B.8 Access to online bookings and ICT training | |
| Socio-cultural | Local community sentiment | C.1 Population under risk of tourism saturation | |
| | Equal opportunities in tourism | C.2 Gender equality | |
| | | C.3 Youth employment | |
| | | C.4 Job security | |
| | Accessibility in tourism | C.5 Accessibility in tourism | |
| Environmental | Climate change mitigation | D.1 Air travel greenhouse gas emissions | |
| | | D.2 Green mobility infrastructure | |
| | | D.3 Use of renewable energies | |
| | Sustainable business practices | D.4 Accommodation businesses with relevant and | |
| | | verified sustainability certification | |
| | Water management | D.5 Tourism water use | |
| | | D.6 Bathing-water quality | |
| | Protected areas management | D.7 Tourism pressure in protected areas | |
| | | D.8 Monitoring and information systems in natural parks | |

Example of a table with key compilation details: Tourism seasonality

| | Compilation information: B.5 Tourism seasonality | | |
|---------------------------------------|---|---------------|--|
| Metrics and units | B.5.1 Gini coefficient of monthly overnight stays | Between 0 - 1 | |
| | B.5.2 Share of the top 3 months in total annual nights spent in the region | % | |
| Formula | B.5.1 Where G is the value for the Gini index; M is the number of time periods in a year (12 for monthly data); f is an index for time period (from 1 to 12); f is the number of monthly overnight stays. | | |
| | B.5.2 $\frac{Nights \text{ in all means of accommodation for the three}}{Annual total nights in all means of accommodation}$ | | |
| Data sources | INE – Occupancy surveys: Hotels, Campsites, Holiday Dwellings, Rural Tourism Accomodation, Youth Hostels https://www.ine.es/dyngs/INEbase/en/categoria.htm?c=Estadistica_P&cid=1254735570703 | | |
| Target direction | B.5.1: Negative. Ranging from 1 (perfect inequality) to 0 (perfect equality). B.5.2: Negative. The lower the share, the better the overall distribution. | | |
| Frequency and recommended granularity | Annually (with monthly data); Municipal (selected municipalities, 'puntos turisticos'), Regional | | |
| Benchmarking and comparability | A.5.1: would need own calculations; EU Tourism Dashboard estimates coefficient of variation, which is slightly different; A.5.2: EUROSTAT Tourism statistics - seasonality at regional level throughout the EU: https://ec.europa.eu/eurostat/databrowser/view/tour_occ_nin2m/default/table?lang=en , SDG Monitoring report | | |

The graphics below provide some preliminary results of the compiled sustainability indicators for Catalonia, (2023* with respect to 2019)

