



### **LIBECCIO**



# sustainabiLIty of tourism By Enhancing Cooperation and digital transfOrmation

D1.3.1 Up-scaled DMSS functional and technical requirements report





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### **Executive Summary**

This deliverable presents the functional and technical requirements for the up-scaled DMSS. It presents an analysis of data availability across all partners selected tourist destinations. Availability check was performed based on partner input for different geographical levels of administration and for all initially selected tourism indicators. Also, a survey was conducted for on-demand information collection from internet sources. Furthermore, a set of available data that will feed the new DMMS is defined. Finally, the defined dataset was evaluated against the requirements of the requested new services of DMSS targeted at tourism destination decision makers and policy makers, according to the work of Activity 1.1. The conceptual and module architecture of the DMSS is finally presented followed by its specifications mapped on the user's requirements.

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### 1.Introduction

The current feasibility study aims to form the functional specifications that describe the new services provided of the LIBECCIO's Destination Management Support System (DMSS) to the targeted users.

Towards this scope a methodology was followed starting from collecting the user requirements interviewing the potential users' groups, defining the desired new services, surveying about the availability of data and finalising the DMSS system architecture with its specifications. The detailed steps of the followed methodology are:

- After identifying the two target users groups, policy maker and decision makers, a survey was conducted defining their user requirements, in form of envisaged new services of DMSS. The survey was contacted through interviews and concluded to the two following reports:
  - Envisaged services for commercial planning, enhancing service quality, and executing targeted marketing actions, as defined in the preliminary report of Activity 1.1 "Preliminary identified DMSS commercial planning, service quality and marketing actions outputs/services."
  - Envisaged services for policy makers, as defined in the preliminary report of Activity 1.1 "Shaping the Future: Preliminary DMSS Outputs and Services Identified by Policy Makers."
- Each partner, hosting a pilot destination, thoroughly investigated the
  available data sources of tourist related information. The basis of this search was
  the capitalized Interreg ADRION Innoxenia TIDSS set of indicators. This task
  investigated the necessary data foundation for the envisaged DMSS and its novel
  provided services.
- A technical survey was performed related to the data that can be acquired on demand from sources on the web, either from tourist websites or platforms, or other informational web platforms. This survey led to two ways of data collection, a) web scraping utilizing specific custom web services and b) invocation of web services APIs from platforms that already provide them.
- The next step was **the analysis of the findings of the previous tasks** to determine the schema of the data that can be collected in the DMSS.
- Following was the evaluation of the available data against the requirements of the new envisaged services of DMSS as they have been described in the relevant reports of Activity 1.1 works.
- The last step was the extraction of the technical requirements and the system
  architecture for the up-scaled DMSS, based on the user requirements and
  functional specifications described in the previous step.

# 2. User Requirements towards new DMSS services

The up-scaled DMSS will offer project stakeholders new services to enhance their decision-making capabilities, towards promoting a more sustainable tourism model in their areas of interest. Two distinct groups of services will be offered, targeted at different groups of stakeholders: a) Policy Makers, mainly targeting the local public administration authorities, as well as policy makers at regional and national level, and b) The decision-makers within a tourist destination. In the following sections these new services are described, offering details on the service functionality, purpose and improvement actions envisaged.

### 2.1. New Services for policy makers

To support the development of the DMSS platform, qualitative interviews were conducted with key stakeholders from different sectors of the tourism industry, including public administrators, environmental managers, business owners, and researchers. These interviews provide insights into the needs, challenges, and recommendations of those directly involved in managing tourism in diverse contexts. The services identified during these interviews were subsequently shared with all project partners, ensuring collaborative validation and a thorough assessment of data availability at the local, regional, and national levels. This collaborative approach not only enhanced the relevance of the identified services but also ensured their practical applicability across different governance contexts.

In the following paragraphs, the findings from these interviews are presented, highlighting key themes such as the relevance of sustainability indicators, the need for valuable data, and the importance of user-friendly, locally adaptable tools. Interview findings are presented in the form of envisaged services, that are expected to enable the platform to address the complex realities faced by destinations across the region, where environmental fragility, economic dependence on tourism, and the impacts of global trends such as climate change require nuanced, flexible solutions.

# 2.1.1. Monitoring accessibility of tourist destinations via public transport and sustainable travel options

#### Purpose:

Accessibility is a foundational aspect of a sustainable tourism strategy. The DMSS platform's ability to monitor and summarise accessibility indicators—such as the proportion of destinations accessible via public transport or through walking—provides essential data for policymakers. This information enables them to **compare accessibility standards across similar destinations**, ensuring alignment with inclusive tourism goals. Additionally, collecting tourist feedback on accessibility informs policy adjustments to **improve visitor satisfaction and travel ease**. This data is crucial for identifying areas where transport systems may be lacking or where walking routes could be expanded to encourage eco-friendly travel.

#### **Improvement actions:**

**Destination-specific accessibility summaries**: create static web pages for each destination that offer a comprehensive summary of accessibility metrics, benchmarked against comparable locations. This enables swift comparisons and helps policymakers identify areas where accessibility could be enhanced.

**Implement mapping tools**: use interactive maps, powered by technologies like google transport API, to visually represent accessible routes, public transport options, and pedestrian pathways. This visual data assists policymakers in assessing congestion patterns and travel flow, directing improvements where they are most needed.

# 2.1.2. Supporting sustainable mobility and infrastructure for cycling and walking

#### Purpose:

A commitment to **sustainable mobility through cycling and walking** infrastructure not only enhances the visitor experience but also reduces environmental impacts. The DMSS platform's monitoring of cycling lanes, pedestrian routes, and bike parking facilities supports policymakers in evaluating infrastructure use. Data on sustainable mobility options provide valuable insights for **targeted investment in eco-friendly transport**, allowing destinations to accommodate an increase in visitors without compromising environmental integrity.

#### **Improvement actions:**

**Development of interactive maps**: incorporate visual maps that highlight cycling routes, pedestrian paths, and bike parking locations. This tool allows policymakers to evaluate infrastructure density and identify areas that could benefit from further development.

# 2.1.3. Assessing social sustainability: accessibility for disabled persons and families

#### Purpose:

In assessing social sustainability, the focus on **providing accessible facilities for disabled persons and families** highlights a destination's inclusivity. The DMSS platform's monitoring of accessible accommodations, public amenities, and satisfaction scores from these targeted groups provides a vital perspective on whether current services meet diverse visitor needs. Policymakers rely on this data to make informed decisions about facility upgrades, resource allocation, and service enhancements to ensure that tourism benefits everyone, including those with unique access needs.

#### **Improvement actions:**

**Dedicated accessibility summaries for destinations**: each destination can have a static web page summarising accessible facilities and accommodations, offering a benchmark for policymakers to assess social sustainability across different areas.

**Sentiment analysis for targeted feedback**: utilise sentiment analysis on reviews and feedback from disabled visitors and families. This analysis helps policymakers to

understand specific challenges and adjust policies or services to address them more effectively.

**User-friendly maps of accessible sites**: develop maps indicating accessible beaches, parks, and public facilities. Accessible digital mapping on the DMSS platform enables policymakers to visualise coverage and identify gaps in accessible infrastructure, guiding investment where necessary.

# 2.1.4. Monitoring energy and water consumption in accommodation facilities

#### Purpose:

Monitoring energy and water consumption is essential for **resource conservation and environmental sustainability** within the tourism sector. By collecting data on average energy and water use in accommodations, the DMSS platform provides policymakers with insights into **consumption patterns and potential areas for efficiency improvements**. These metrics are critical for establishing benchmarks and implementing policies that encourage the adoption of green technologies, thereby reducing the tourism sector's environmental footprint.

#### **Improvement actions:**

**Visual consumption dashboards**: develop visualisation tools within DMSS that display energy and water usage per accommodation, allowing longitudinal analysis. These dashboards offer policy-makers clear trends, supporting data-driven conservation strategies.

#### 2.1.5. Managing and monitoring waste separation

#### Purpose:

Effective waste management remains a critical element in promoting sustainable tourism. Policymakers benefit from data on waste separation practices and average waste volumes, which help in assessing the success of current waste management initiatives. The DMSS platform's ability to display waste data fosters transparency, informing visitors and locals alike of the destination's commitment to environmental responsibility. Accurate data on waste metrics guide policy adjustments and **enhance recycling and waste reduction strategies**.

#### <u>Improvement actions:</u>

**Public waste separation displays**: incorporate accessible data displays on waste separation within the DMSS portal, promoting transparency.

**Waste management reports**: provide regular updates on waste separation and recycling volumes to offer insights on progress. Policymakers can review these metrics to refine waste management policies and enhance resource allocation in response to seasonal changes.

# 2.1.6. Monitoring and managing the blue economy and marine resources

#### Purpose:

Monitoring marine resources and the blue economy is essential for coastal and marine-based destinations. The DMSS platform's tracking of water quality, conservation projects, and tourist satisfaction regarding marine experiences enables policymakers to make informed decisions on **marine preservation**. Data on water quality alerts, contamination events, and marine biodiversity inform strategies that protect these sensitive ecosystems, ensuring the **sustainable growth of the blue economy**.

#### **Improvement actions:**

**Tracking conservation projects**: include a conservation project tracker within dmss to monitor marine biodiversity initiatives and water quality indicators. This provides policymakers with up-to-date data on the health of marine ecosystems and supports targeted conservation funding.

**Water quality alerts**: develop a system for visualising water quality alerts seasonally, ensuring swift notification for policymakers and tourism operators. Immediate response to contamination events protects both visitors and marine life, reinforcing environmental stewardship.

# 2.1.7. Monitoring and managing the green tourism economy and mountain resources

#### **Purpose**

Monitoring mountain resources and fostering a green economy are critical for mountain-based destinations. The DMSS platform's capabilities in tracking snow and air quality, conservation projects, and tourist satisfaction with mountain experiences empower policymakers to make data-driven decisions for preserving these fragile ecosystems. By providing insights on snow alerts and contamination events, the platform supports strategies that safeguard sensitive environments while promoting the sustainable growth of the mountain economy.

#### **Improvement actions:**

**Incorporate a dedicated conservation project tracker** within the DMSS platform to monitor mountain biodiversity initiatives and key air quality indicators. This enhancement will provide policymakers with data on the health of mountain ecosystems, enabling better allocation of resources and targeted conservation funding.

**Develop a system to visualize air quality alerts** on a seasonal basis, offering swift notifications for policymakers and tourism operators. Rapid responses to contamination events will help protect visitors and the local ecosystem, reinforcing a commitment to environmental stewardship and sustainability.

# 2.1.8. Analysing tourist flows to prevent overcrowding and resource degradation

#### Purpose:

Understanding tourist flow within protected areas is crucial for **managing visitor density** and preventing ecological harm. The DMSS platform's data on visitor numbers and crowding frequency allows policymakers to regulate site access and optimise the distribution of visitors across locations. This analysis aids in implementing measures to prevent overcrowding and ensures a balanced approach to tourism, **maintaining the** destination's appeal without compromising natural resources.

#### **Improvement actions:**

**Visitor flow tracking**: utilise data track and display visitor density, allowing policymakers to assess and manage high-traffic areas effectively.

**Implement visitor caps for sensitive sites**: establish entry limits for protected areas based on data on daily visitor numbers, helping to preserve environmental quality. Limiting access during peak times can prevent overuse and ensure a high-quality experience for all visitors.

# 2.1.9. Measuring tourist satisfaction and loyalty with environmental practices

#### Purpose:

Visitor satisfaction with environmental practices reflects how well a destination aligns with sustainability expectations. By gauging sentiment regarding eco-friendly initiatives, such as recycling, energy-saving measures, and conservation efforts, policymakers can adjust strategies to match visitor expectations. The DMSS platform's sentiment analysis capabilities enable policymakers to proactively adapt their practices, fostering loyalty among eco-conscious visitors and enhancing the destination's environmental image.

#### **Improvement actions:**

**Sentiment analysis of visitor feedback**: use sentiment analysis tools within DMSS to track satisfaction with environmental practices. Policymakers can leverage this feedback to identify and address any negative perceptions, aligning practices with visitor preferences.

#### 2.1.10. Interregional Comparison of Sustainability Data

#### Purpose:

Interregional benchmarking of sustainability indicators allows policymakers to evaluate their destination's performance within a broader context. Comparing data on key metrics, such as waste management and resource conservation, highlights strengths and identifies improvement areas. This analysis supports data-driven policy adjustments,

ensuring that the destination maintains a competitive edge in sustainability while adopting best practices from high-performing regions.

**Improvement actions:** 

**Benchmark reports**: publish interregional comparisons of sustainability data to enable policymakers to assess their progress relative to similar destinations. These reports provide a framework for informed decision-making and highlight areas for future investment.

**Implement best practices from leading regions**: use findings from comparative analysis to adopt successful sustainability practices from top-performing destinations, optimising the destination's sustainability approach.

# 2.1.11. Measuring the Economic Impact of Sustainable Tourism Policies

#### Purpose:

Quantifying tourism's contribution to the local economy, including its role in employment and GDP, is essential for **demonstrating the value of sustainable tourism**. The DMSS platform's tracking of employment rates and tourism-related GDP provides policymakers with a clear picture of the sector's economic impact. These insights support policy initiatives that **balance economic growth with sustainable practices**, ensuring that tourism continues to benefit the local economy without compromising environmental or social integrity.

#### **Improvement actions:**

**Detailed economic data analysis:** provide comprehensive economic data on tourism's contribution to GDP and employment, with a focus on seasonal fluctuations. This enables policymakers to identify economic trends and prioritise investments that strengthen the tourism sector.

#### 2.2. New Services for decision makers

The Destination Management Support System (DMSS) platform will offer invaluable support to decision-makers within a tourist destination. It is expected to furnish comprehensive insights and tools essential for commercial planning, enhancing service quality, and executing targeted marketing actions. Below, the suggested key outputs and services provided by the DMSS platform for decision making stakeholders are detailed.

#### 2.2.1. Visitor Arrival Predictions:

Using current and historical visitor arrival data and current trends of booking and arrivals the platform can provide predictions on future visitor arrivals for the short and medium term. This information can help decision-makers prepare for fluctuations in demand and adjust marketing actions accordingly. This module can offer predictions in three different time intervals, namely short, medium, and long term.

#### Short term:

Periodicity: weekly

Data: weekly visitor arrivals, bookings, weather forecasts and events calendar

Suggested Data Source:

- ✓ Regional Ross 1000¹ (check-in data at accommodation) (IT)
- ✓ OTA scraping (Data collected during the online booking process)
- ✓ Meteo web sites

#### Purpose:

This module gives tourism stakeholders with decision-making capabilities the necessary information to prepare for future tourist demand fluctuations. Visitor arrival anticipation and demand forecast is important for tourist areas to sustain a high level of offered services and attractions. This module will also insights into the evaluation of the impact of weather conditions on tourist behavior, through **associating weather forecasts with arrival patterns**.

#### **Improvement Actions**

**Dynamic Pricing Actions**: Implement dynamic pricing actions that adjust pricing based on predicted visitor arrivals.

**Flexible Booking Policies**: Implement flexible booking policies that allow for easier cancellation or rescheduling in case of unfavorable weather conditions.

#### Medium term:

Periodicity: Monthly, Quarterly

Data: Monthly visitor arrivals, bookings, and events calendar; monthly weather historical data

#### Suggested Data Source:

- ✓ Summarized Regional Ross 1000 (IT)
- ✓ Summarized OTA scraping
- ✓ Regional/Central statistical institutes
- ✓ Tourism authorities
- ✓ Meteo authority
- ✓ Event organizers

#### Purpose:

The medium-term arrival prediction module aims to assist decision makers in their operational planning and marketing optimization actions. Operational planning refers to the ability to effectively prepare a tourism destination in terms of needed resources, adequate staffing levels and required infrastructure to cope with the expected visitor arrivals. Marketing optimization uses the predicted arrival patterns to allow for the better implementation of a marketing strategy and marketing funds allocation to maximize visitor engagement and the resulting revenue. This service also allows users to measure the impact of specific events in tourist behaviors by offering quantitative indices on

<sup>&</sup>lt;sup>1</sup> The ROS 1000 standard in presented in Appendix A.

arrival patterns and goes on to highlight **new opportunities for events that could be leveraged** by an area operators to attract new visitors through targeted marketing actions.

**Improvement Actions** 

**Dynamic Pricing Plans**: Implement dynamic pricing models that adjust pricing based on predicted visitor arrivals to optimize revenue during peak periods and attract visitors during off-peak times.

**Weather-Proof Attractions/Activities**: Diversify tourist offerings to include indoor or weather-proof activities to attract visitors regardless of weather conditions.

**Event Marketing Campaigns:** Develop targeted marketing campaigns promoting events to potential visitors through various channels such as social media, email newsletters, and travel websites.

**Targeted Marketing Campaigns:** Launch targeted marketing campaigns timed to coincide with expected peaks in visitor arrivals, promoting exclusive offers or events to maximize engagement.

**Capacity Management:** Optimize resource allocation and staffing levels based on predicted visitor numbers to ensure a seamless visitor experience and efficient operations.

**Collaboration with Partners**: Share arrival predictions with tourism stakeholders, such as accommodation providers and attractions, to facilitate collaborative planning and resource management.

Long term:

Periodicity: Yearly

Data: Yearly visitor arrivals, bookings, and events calendar; yearly weather historical data

Suggested Data Source:

- √ Yearly Summarized Regional Ross 1000 (IT)
- √ Yearly Summarized OTA Scraping
- ✓ Regional/Central statistical institutes
- √ Tourism authorities
- ✓ Meteo authority
- ✓ Event organizers

#### Purpose:

The long-term prediction module offers services that can assist an area in updating their tourism policies to better cope with the changing conditions of tourism demand. Identifying and analyzing long-term trends in tourist arrivals, such as seasonality, year-on-year growth rates, and changes in visitor demographics, can help decision-makers understand evolving market dynamics and adjust marketing strategies accordingly. Comparing long-term tourist flow data with competitor destinations or similar tourist attractions can help decision-makers assess their destination's

competitive position and identify areas for improvement in marketing strategies, product development, and visitor experiences. **Seasonal Campaign Planning** offers the opportunity to identify peak booking and arrival periods to adjust pricing, promotions, and staffing, thus maximizing revenue during peak periods and attracting visitors during offpeak periods. It aims to represent patterns of tourist booking and arrivals at different times of the year, accurately identifying peak and off-peak periods.

#### Improvement Actions

#### Dynamic pricing plans:

- Peak Periods: Implement dynamic pricing plans to capitalize on high demand during peak periods, adjusting prices based on demand levels and availability.
- Off-Peak Periods: Offer discounted rates or special promotions during off-peak periods to attract visitors and stimulate demand.

#### **Promotional Campaigns:**

- Peak Periods: Launch targeted marketing campaigns highlighting unique offerings or events during peak periods to attract visitors.
- Off-Peak Periods: Create special packages or deals to incentivize visits during offpeak periods, emphasizing value for money and unique experiences.

#### **Staffing Optimization:**

- Peak Periods: Ensure sufficient staffing levels and training to handle increased demand and provide excellent customer service.
- Off-Peak Periods: Adjust staffing levels based on anticipated lower demand, while providing training and incentives to maintain service quality.

#### **Enhanced Visitor Experience:**

- Peak Periods: Offer additional amenities or services to enhance the visitor experience during peak periods, such as guided tours, entertainment events, or extended operating hours.
- Off-Peak Periods: Focus on personalized experiences and attention to detail to create memorable visits for visitors during off-peak periods, potentially offering exclusive access or behind-the-scenes tours.

#### 2.2.2. Visitor segmentation analysis

Understanding the different needs and preferences of different visitor segments, such as demographics, travel preferences and interests, can help decision-makers to target specific audience segments more effectively and to customize service and tailor marketing campaigns offering planning in a targeted manner to ensure that offers and marketing efforts are in tune with each segment.

#### Medium, long-term:

Periodicity: Quarterly, Yearly

Data: Demographic data (age, gender, residence), psychographic data (interests, preferences)

Suggested Data Source:

- ✓ Summarized Regional Ross 1000 (IT)
- ✓ Summarized OTA scraping
- ✓ Online review and rating platforms scraping (TripAdvisor, Google Reviews)

#### Purpose:

Visitor segmentation analysis can help destination managers **understand their visitor needs and preferences** that can be highly diverse based on the visitor segment they belong to. By gaining insights into the potential visitor needs, decision makers can adjust their marketing efforts to target specific audience segments more effectively through **marketing customization**. The final added benefit of this new service is the possibility for operators to **customize their offered services and tailor their offers** to exactly cater for the specific preferences of their intended visitors, thus maximizing visitor engagement and revenue.

#### **Improvement Actions**

**Targeted Marketing Campaigns:** Develop marketing campaigns tailored to each visitor segment's preferences and interests.

**Service Customization**: Customize services and offerings to meet the unique needs of each visitor segment.

**Product Development**: Develop new products or experiences tailored to the preferences of specific visitor segments.

**Customer Experience Enhancement**: Improve the overall customer experience by addressing pain points and preferences identified through segmentation analysis.

**Promotional plans**: Design promotional plans targeting each segment with relevant offers and incentives.

#### 2.2.3. Visitor Feedback and Reviews

This service aims to help decision makers identify emerging issues or trends and take proactive measures to address them to ensure swift responses to visitor concerns and maintain a positive reputation. Users can also measure visitor satisfaction levels through surveys, feedback forms, and sentiment analysis of online reviews and social media mentions.

Medium, long-term:

Periodicity: Quarterly, Yearly

Data: Visitor Feedback and Reviews, Survey Responses, Sentiment Analysis of Online Reviews

Suggested Data Source:

- ✓ Feedback Forms and Surveys: Collected on-site or via email/post-visit communication.
- ✓ Online Reviews: Platforms such as TripAdvisor and Google Reviews

✓ Social Media Mentions: Monitoring social media platforms (e.g., Twitter, Facebook, Instagram) for mentions and comments related to the visitor experience

#### Purpose:

The **early identification of emerging issues or trends** that may impact visitor experience through monitoring visitor feedback and reviews is important for keeping destination visitor satisfaction at high levels. This module will offer decision makers a tool that will allow a **swift response to visitor concerns** through proactive measures that will promptly address them to maintain a positive reputation and enhance visitor satisfaction. The DMSS will also use surveys, feedback forms, and sentiment analysis of online reviews and social media mentions to **gauge visitor satisfaction levels**.

Improvement Actions

#### **Service Improvement:**

**Swift Issue Resolution**: Implement processes to address visitor concerns promptly and efficiently to enhance overall visitor satisfaction.

**Continuous Improvement**: Use feedback and reviews to identify areas for improvement in the services, facilities, or experiences offered to visitors.

#### **Marketing and Reputation Management:**

**Highlight Positive Feedback**: Showcase positive visitor feedback and reviews on marketing materials, websites, or social media channels to build trust and attract more visitors.

**Address Negative Feedback**: Respond promptly and professionally to negative reviews or feedback to demonstrate commitment to customer satisfaction and mitigate potential reputational damage.

#### **Customer Experience Enhancement:**

**Personalized Experiences**: Use insights from visitor feedback to tailor experiences and offers to meet the specific needs and preferences of different visitor segments.

**Continuous Engagement**: Engage with visitors through surveys, feedback forms, and social media to foster a sense of community and loyalty.

#### 2.2.4. Destination Feedback and Sentiment Analysis

This service involves facilitating a dialogue between residents and visitors to foster better relationships and mutual understanding. The application includes features such as survey creation and distribution, sentiment analysis of reviews and feedback, data visualization to represent sentiments and trends, and reporting functionalities for decision-makers' informed decisions.

Medium, long-term:

Periodicity: Quarterly, Yearly

Data: Feedback from surveys, reviews, and social media.

#### Suggested Data Source:

- ✓ Surveys conducted by the destination management organization
- ✓ Online review platforms (e.g., TripAdvisor, Google Reviews)
- ✓ Social media platforms (e.g., Twitter, Facebook).

#### Purpose:

The service will **provide insights to destination decision-makers** on how residents perceive tourists and their impact on the community. This will allow them to tailor their services accordingly to enhance the overall visitor experience without having a negative impact on residents. **Policy formulation support** is another important aspect of this offered service, as it will assist policymakers in formulating regulations and policies that balance the needs of residents and visitors and preserve the integrity of the destination while promoting sustainable tourism.

#### Improvement Actions

**Visitor Experience Enhancement**: Use feedback and sentiment analysis to identify areas of improvement in the visitor experience.

**Targeted Marketing Campaigns**: Utilize positive sentiment data to craft targeted marketing campaigns promoting the destination's strengths.

**Community Engagement Initiatives**: Implement community engagement initiatives based on resident feedback to foster better relationships with tourists.

**Policy Adjustments and Regulations**: Adjust regulations and policies based on sentiment analysis to balance resident and visitor needs.

### 3. Tourism Data

The Destination Management Support System (DMSS) platform aims to offer policy makers at regional and national levels, as well as decision making organizations and businesses of tourism destinations, with valid support in the form of insights, tools and analyses that will enable them to make informed decisions on the sustainable future of tourist destinations in their areas. To offer this invaluable input, the platform follows a data-driven approach, that analyzes a wealth of gathered data on the tourism destinations in question. The following sections of this report present the data required to enable the platform's full potential. The methodology followed considered as initial tourism data indices the set of data that was utilized by the TIDSS platform of the capitalized Interreg ADRION InnoXenia project (https://innoxenia.adrioninterreg.eu/).

### 3.1. Destination Overview (Yearly)

The first section of data presents a general overview of each destination, covering areas like popular tourist attractions, demographic and economic data. Area accessibility data is also required, in the form of information on establishments and modes of transport that a tourist can use to access the destination. Finally, environmental and weather data is included in this section to give a complete general perspective on the type of tourism the destination in question can attract and support. The following table presents the required data and the necessary coding of each indicator. This data is required annually.

Table 1 Destination Overview Indices

1.	DESTINATION OVERVIEW
	Destination Profile
1.1	Dominant habitats (place an X against all that apply)
	Urban
	Sand/shingle beach
	Moor/heathland:
	Farmland
	Forest/Woodland
	Alpine
	Scrubland
	Desert
	Wetland
1.2	Top five most popular tourist attractions (including environmental and cultural attractions).
1.3	Area
1.4	Population
1.5	Density
1.6	Gross Value-added Total
1.7	Gross Value added per capita
1.8	Total tourism expenditure over GDP
1.9	Number of Employees
1.10	* Of which, number of direct jobs in tourism

1.11	* Of which, number of women employed in tourism
1.12	Quality of life index
1.13	Criminality index
1.14	International Airports
1.15	♦ Number of daily flights
1.16	* Of which, charter flights
	* Of which, low-cost flights
1.14	Train Stations
1.15	♦ Number of daily stops
1.16	Coaches' stations
1.17	♦ Number of daily departures
1.18	Seaports
1.19	♦ Number of daily departures
1.21	Number of establishments accessible for people with disabilities
1.26	* Of which, number of accessible Airports
1.27	* Of which, number of accessible Train Stations
1.28	* Of which, number of accessible Coaches Stations
1.29	* Of which, number of accessible Seaports
1.30	Total EU Funds received
	* Of which, for tourism
	Sunshine hours
1.32	♦ Total
1.33	* Of which, in winter
1.34	* Of which, in summer
	Precipitation:
1.35	♦ Total
1.36	* Of which, in winter
1.37	* Of which, in summer
	Temperature:
1.38	♦ Average of maximum temperature
1.39	* Of which, in winter
1.40	* Of which, in summer
1.41	♦Average of minimum temperature
1.42	* Of which, in winter
1.43	* Of which, in summer
1.44	Number of environmental certifications
	Waste production
1.45	♦ Total
1.46	* Of which, from tourism sector
1.47	* Of which, from recycling
	Water consumption
1.48	♦ Total
1.49	* Of which, from tourism sector
	Energy consumption

1.50	♦ Total
1.51	* Of which, from tourism sector

### 3.2. Tourism Industry (Yearly)

The second data section refers to information on the tourism industry in the destination concerned. Data is required on the numbers of tourism-related establishments and their types, as well as their accessibility to people with disabilities. Types and numbers of accommodation establishments are another important part of this section. Finally, 5 indicators related to the area sustainability are included in the tourism industry data. Yearly data is required by partners to fill this section. The entire data section is presented in the following table.

Table 2 Tourism Industry Indices

2.	TOURISM INDUSTRY		
	Number of establishments		
2.1	♦ Total		
2.2	* Of which, Accommodation for visitors		
2.3	* Of which, Food and beverage serving activities		
2.4	* Of which, Passenger transportation		
2.5	* Of which, Travel agencies and other reservation		
	services activities		
2.6	* Of which, Convention bureau/congress facilities		
	services activities		
2.7	* Of which, Museums		
2.8	* Of which, Themes Parks		
2.9	* Of which, Archaeological sites		
2.10	* Of which, other tourism attractions		
2.11	* Of which, other tourism industries		
	Number of establishments accessible for people with disabilities		
2.12	♦ Total		
2.13	* Of which, Hotel and similar accommodations		
2.14	* Of which, Holiday and other short-stay accommodation		
2.15	* Of which, Camping grounds, recreational vehicle parks and trailer parks		
2.16	* Of which, Food and beverage serving activities		
2.17	* Of which, Museums		
2.18	* Of which, Themes Parks		
2.19	* Of which, Archaeological sites		
2.20	* Of which, other tourism attractions		
	Accommodation for visitors in hotels and similar establishments		
	Hotel and similar accommodations		
2.21	♦ Total		
2.22	* Of which seasonal		
2.23	♦ Number of rooms		
2.24	♦ Number of beds		

	Holiday and other short-stay accommodation
2.25	♦ Total
2.26	* Of which seasonal
2.27	♦ Number of rooms
2.28	♦ Number of beds
	Camping grounds, recreational vehicle parks and trailer parks
2.29	♦ Total
2.30	* Of which seasonal
2.31	♦ Number of rooms
2.32	♦ Number of beds
	Overall Satisfaction
2.33	♦Total
2.34	* Of which, domestic
2.35	* Of which, non-Domestic
	<u>Indicators</u>
2.36	Occupancy rate / rooms
2.37	Occupancy rate / beds
2.38	Average length of stay
2.39	Capacity ratio (beds per 1000 inhabitants)
2.40	Tourists / population

### 3.3. Tourism Flow (Monthly)

Tourism flow data is important for extracting information on seasonality aspects about the destination. Arrivals and overnights data is gathered and categorized based on tourist originating region, purpose of travel, mode of transport used and accommodation type. Expenditure and tourist satisfaction data are also required. Finally, indicators that show quality characteristics of arrivals are included in this data section. All data is gathered monthly, and the complete table is presented below.

Table 3 Tourism Flow Indices

3.	TOURISM FLOW
	Flow
3.1	♦ Total Arrivals
3.2	* Of which, domestic
3.3	♦ Overnight visitors (tourists)
3.4	* Of which, domestic
3.5	◆Daily visitors (no overnights)
3.6	* Of which, cruise passengers
	Arrivals by region
3.7	♦ Total Arrivals
3.8	* Of which from Africa
3.9	* Of which from Americas
3.10	* Of which from Asia
3.11	* Of which from Europe

3.12	* Of which, domestic
3.13	* Of which from Oceania
	Arrivals by main purpose
3.14	Total
3.15	♦ Personal
3.16	* Holidays, leisure, and recreation
3.17	* Other personal purposes
3.18	♦ Business and professional
	Arrivals by mode of transport
3.19	♦ Total
3.20	* Of which from by Air
3.21	* Of which from by Sea
3.22	* Of which from by Railway
3.23	* Of which from by Private car
3.24	* Of which from by Other not classified
	Accommodation
	Hotel and similar accommodations
3.25	♦ Arrivals
3.26	* Of which, domestic
3.27	♦ Overnights
3.28	* Of which, domestic
	Holiday and other short-stay accommodation
3.29	♦ Arrivals
3.30	* Of which, domestic
3.31	♦ Overnights
3.32	* Of which, domestic
	Camping grounds, recreational vehicle parks and trailer parks
3.33	♦ Arrivals
3.34	* Of which, domestic
3.35	♦ Overnights
3.36	* Of which, domestic
	Expenditure
3.37	Total
3.38	♦ Domestic
3.39	♦ non-domestic
	Overall Satisfaction
3.40	Total
3.41	♦ Domestic
3.42	♦ non-domestic
3.43	Intention to return
	<u>Indicators</u>
3.44	Average size of travel party
3.45	Average size of travel group
	Average length of stay

### 3.4. Web Data (Monthly)

The 4<sup>th</sup> data section deals with monthly web data, meaning data that can be accessed and gathered from several web platforms and is publicly available. Data gathering can be done utilizing different techniques like web scraping. Specifically, data pertaining establishments, user score and reviews from the most popular online hotel booking platforms are gathered in this section. The complete required set of data is shown in the following table.

Table 4 Web Data Indices

4.	WEB DATA
	Booking.com
4.1	♦Number of establishments
4.2	* Of which, hotel
4.3	* Of which, in apartments
4.4	♦ Average Score
4.5	* Of which, hotel
4.6	* Of which, in apartments
4.7	♦Number of reviews
4.8	* Of which, hotel
	* Of which, in apartments
4.9	Tripadvisor.com
4.10	♦Number of establishments
4.11	* Of which, hotel
4.12	* Of which, in apartments
4.13	♦ Food and beverage serving activities
4.14	♦ Museums
4.15	♦ Themes Parks
4.16	♦ Archaeological sites
4.17	♦Average Score
4.18	* Of which, hotel
4.19	* Of which, restaurants
4.20	* Of which, in apartments
4.21	* Of which, in Museum
4.22	* Of which, in Themes Park
4.23	* Of which, in Archaeological sites
4.24	♦Number of reviews
4.25	* Of which, hotel
4.26	* Of which, restaurants
4.27	* Of which, in apartments
4.28	* Of which, in Museum
4.29	* Of which, in Themes Park
4.30	* Of which, in Archaeological sites

4.31	AirB&B.com
4.32	♦Number of establishments
4.33	* Of which, sharing rooms
4.33	* Of which, full apartments
4.34	♦Number of reviews
4.35	* Of which, sharing rooms
4.36	* Of which, full apartments

# 3.5. European Tourism Indicator System Selection (Yearly)

This section is related to data on sustainable tourism performance. The data indices used here come from the established European Tourism Indicator System (ETIS) that represents a common methodology framework for measuring the sustainable management of destinations and monitoring their performance and progress over time. 32 of the total 67 indicators in the ETIS system were selected for use, and they are presented in the table below. They are related to destination management, economic value, social, cultural, and environmental impact of tourism in the destination.

Table 5 ETIS Selection Indices

5.	ETIS
	Destination management
5.1	◆ Tourism enterprises/establishments in the destination using a voluntary certification/labelling for environmental/quality/sustainability and/or Corporate Social Responsibility measures
5.2	◆ Tourists that are satisfied with their overall experience in the destination
5.3	♦ Repeat/return visitors (within 5 years)
	Economic Value
5.4	♦ Number of tourist nights
5.5	♦ Number of same day visitors
5.6	◆ Relative contribution of tourism to the destination's economy (% GDP)
5.7	♦ Daily spending per overnight tourist
5.8	◆ Average length of stay of tourists (nights)
5.9	♦ Occupancy rate in commercial accommodation establishments per month and average for the year
5.10	◆ Direct tourism employment as percentage of total employment in the destination
5.11	♦ Local producer of food, drink, goods, and services
	Social and Cultural Impact
5.12	♦ Number of tourists per resident
5.13	◆Residents who are satisfied with tourism in the destination (per month/season)
5.14	♦ Number of beds available in commercial accommodation
5.15	♦ Number of second homes
5.16	♦ Percentage of men and women employed in the tourism sector

5.17	♦ Tourism enterprises where the general manager position is held by a woman
5.18	♦ Rooms in commercial accommodation establishments accessible for people with disabilities
5.19	♦ Commercial accommodation establishments participating in recognized accessibility information schemes
5.20	♦ Public transport that is accessible to people with disabilities and with specific access requirements
5.21	♦ Tourist attractions that are accessible to people with disabilities and/or participating in recognized accessibility information schemes
5.22	♦ Residents that are satisfied with the impacts of tourism on destination's identity
	Environmental Impact
5.23	♦ Tourists and same day visitors using different modes of transport to arrive at the destination
5.24	♦ Tourists and same day visitors using local/soft mobility/public transport services to get around the destination
5.25	♦ Tourism enterprises involved in climate change mitigation schemes— such as: CO2 offset, low energy systems, etc.—and "adaptation" responses and actions
5.26	♦ Waste production per tourist night compared to general population waste production per person
5.27	♦Tourism enterprises separating different types of waste
5.28	♦Water consumption per tourist night compared to general population water consumption per resident night
5.29	♦ Tourism enterprises taking actions to reduce water consumption
5.30	♦ Energy consumption per tourist night compared to general population energy consumption per resident night
5.31	♦ Tourism enterprises that take actions to reduce energy consumption
5.32	♦ Annual amount of energy consumed from renewable sources (Mwh) compared to overall energy consumption at destination level per year

### 3.6. Sustainability related data

The requirements indicated by the users' interviews, and especially policy makers, raised the necessity of the definition of new information that will for indicators which will refer to the sustainable tourism factors in the destinations. These indicators are listed in the following table.

Table 6: Sustainable related data

6	Sustainability related data				
6.1	Air quality alert				
6.2	Average duration of contamination events				
6.3	Average waste volume per visitor				
6.4	Energy Consumption				
6.5	Energy Consumption per Accomodation				
6.6	Fire alert				

6.7	Georeferenced data (GIS digital data) including accessible infrastructure (beaches, parks, and public facilities) and accommodations (coordinates, type of accessible facility).
6.8	Georeferenced data (GIS digital data) including cycling routes, pedestrian paths, and bike parking locations.
6.9	Marine water temperature
6.10	Number of active conservation projects
6.11	Percentage of separated waste
6.12	Recycling volumes
6.13	Snow alert
6.14	Tourist feedback on accessibility
6.15	Tourist satisfaction with enviromental practices
6.16	Water Consuption
6.17	Water Consuption per Accomodation
6.18	Water quality alert
6.19	Water quality indicators

### 4. Data Availability

#### 4.1. Manual Collected Data

To assess the availability of data for all partners regarding their selected tourist destinations, a preliminary availability check was conducted. The required indicators mentioned in chapter 1 and stemming from the experience of the capitalized InnoXenia project were delivered to all partners and their input on available or not data was requested. For each indicator, partners were required to access available data sources for each destination and respond whether data is available or not. Available data sources were documented for future reference. Finally, data availability was checked at different geographical levels, starting from the lowest level of municipality, and moving up to province (where applicable), region (where applicable) and country level. Answers recorded direct data availability, indirect availability for data that could be retrieved after calculations or processing of existing indicators or data that was completely unavailable.

Results from partner answers regarding each selected destination were processed and an indicator categorization based on data availability and geographical level was made. Indicators were grouped based on the number of destinations that had available data on them. The following tables and charts represent the results of this preliminary process. Indicator groups were selected according to the following list:

- 1. **Availability** (more than 5 partners recorded data availability)
- 2. Partial availability (3 or 4 partners recorded data availability)
- 3. **Reduced availability** (2 or less partners recorded data availability)
- 4. No availability (no partner recorded data availability)

The following tables present an overview of data availability for each geographical level in a color-coded format (light green for group 1, dark green for group 2, orange for group 3 and red for group 4).

1.	DESTINATION OVERVIEW	2.	MUNICIPAL LE TOURISM INDUSTRY		TOURISM FLOW	5.	ETIS
	Data Data		Data	٥.	Data	,	Data Data
	Destination Profile		Number of establishments		Flow		Destination management
1.1	Dominant habitats (place an X against all that apply)	2.1	♦ Total	3.1	♦ Total Arrivals	5.1	<ul> <li>Tourism enterprises/establishments in the destination using a voluntary certification/labelling for environmental/quality/sustainability and/or Corporate Social Responsability measures</li> </ul>
1.2	Top five most popular tourist attractions (including environmental and cultural attractions).	2.2	* of which, Accommodation for visitors	3.2	* of which, domestic	5.2	Tourists that are satisfied with their overall experience in the destination
1.3	Area	2.3	* of which, Food and beverage serving activities	3.3	◆ Overnight visitors (tourists)	5.3	Repeat/return visitors (within 5 years)
1.4	Population	2.4	* of which, Passenger transportation * of which, Travel agencies and other reservation	3.4	* of which, domestic		Economic Value
1.5	Density	2.5	services activities	3.5	◆Daily visitors (no overnights)	5.4	Number of tourist nights
1.6	Gross Value added Total	2.6	* of which, Convention bureau/congress facilities services activities	3.6	* of which, cruise passengers	5.5	♦ Number of same day visitors
1.7	Gross Value added per capita	2.7	* of which, Museums			5.6	Relative contribution of tourism to the destination's
1.8	Total tourism expenditure over GDP	2.8	* of which, Themes Parks	3.7	Arrivals by region  • Total Arrivals	5.7	economy (% GDP)  Daily spending per overnight tourist
1.9	Number of Employees	2.9	* of which, Archaeological sites	3.8	* of which from Africa	5.8	Average length of stay of tourists (nights)     Occupancy rate in commercial accommodation
1.10	* of which, number of direct job in tourism	2.10	* of which, Other tourism attractions	3.9	* of which from Americas	5.9	establishments per month and average for the year
1.11	* of which, number of women employed in tourism	2.11	* of which, Other tourism industries	3.10	* of which from Asia	5.10	Direct tourism employment as percentage of total employment in the destination
1.12	Quality of life index		Number of establishments accessible for people with	3.11	* of which from Europe	5.11	Local producer of food, drink, goods and services
1.13	Criminality index	2.12	disabilities ◆ Total	3.12	* of which, domestic		Social and Cultural Impact
	International Airports	2.13	* of which, Hotel and similar accommodations	3.13	* of which from Oceania	5.12	Number of tourists per residents     Residents who are satisfied with tourism in the destination
1.15	Number of daily flights	2.14	* of which, Holiday and other short-stay accommodation		Arrivals by main purpose	5.13	(per month/season)
1.16	* of which, charter flights	2.15	* of which, Camping grounds, recreational vehicle parks and trailer parks	3.14	Total	5.14	Number of beds available in commercial accomodation
	* of which, low cost flights	2.16	* of which, Food and beverage serving activities	3.15	♦ Personal	5.15	Number of second homes
1.14	Train Stations	2.17	* of which, Museums	3.16	* holidays, leisure and recreation	5.16	Percentage of men and women employed in the tourism sector
1.15	♦ Number of daily stops	2.18	* of which, Themes Parks	3.17	* other personal purposes	5.17	♦ Tourism enterprises where the general manager position is held by a woman
1.16	Coaches stations	2.19	* of which, Archaeological sites	3.18	Business and professional	5.18	<ul> <li>Rooms in commercial accommodation establishments</li> </ul>
1.10	Colores sales is		or when, a terateorogetti saco	5.10	V Diamess and processoral	5.10	accessible for people with disabilities
1.17	Number of daily departures	2.20	* of which, Other tourism attractions		Arrivals by mode of transport	5.19	Commercial accommodation establishments participating in recognised accessibility information schemes
1.18	Seaports		Accommodation for visitors in hotels and similar establishments	3.19	♦ Total	5.20	Public transport that is accessible to people with disabilities and with specific access requirements
1.19	♦ Number of daily departures		Hotel and similar accommodations	3.20	* of which from by Air	5.21	Tourist attractions that are accessible to people with disabilities and/or participating in recognised accessibility information schemes
1.21	Number of establishments accessible for people with		◆ Total	3.21	* of which from by Sea	5.22	• Residents that are satisfied with the impacts of tourism on
1.26	* of which, number of accessible Airports	2.22	* of which seasonal	3.22	* of which from by Railway		destination's identity  Environmental Impact
1.27	* of which, number of accessible Train Stations	2.23	Number of rooms	3.23	* of which from by Private car	5.23	Tourists and same day visitors using different modes of transport to arrive at the destination
1.28	* of which, number of accessible Coaches Stations	2 24	♦ Number of beds	3.24	* of which from by Other not classified	5 24	Tourists and same day visitors using local/soft mobility/public transport services to get around the
			- Manuel Grocus	J.2.	of which from by Other her cansalica		destination  • Tourism enterprises involved in climate change mitigation
1.29	* of which, number of accessible Seaports		Holiday and other short-stay accommodation		Accommodation	5.25	schemes—such as: CO2 offset, low energy systems, etc.—and "adaptation" responses and actions
1.30	Total EU Funds received		◆ Total			5.26	♦ Waste production per tourist night compared to general
	* of which, for tourism	2.26	* of which seasonal	3.25	Hotel and similar accommodations  • Arrivals	5.27	population waste production per person     Tourism enterprises separating different types of waste
	Sunshine hours	2.27	♦ Number of rooms	3.26	* of which, domestic	5.28	♦ Water consumption per tourist night compared to general
1.32	◆ Total	2.28	♦ Number of beds	3,27	Ovemights	5.29	population water consumption per resident night  Tourism enterprises taking actions to reduce water
							constinution
1.33	* of which, in winter		Camping grounds, recreational vehicle parks and trailer parks	3.28	* of which, domestic	5.30	Energy consumption per tourist night compared to general population energy consumption per resident night
1.34	* of which, in summer	2.29	♦ Total	L	Holiday and other short-stay accommodation	5.31	Tourism enterprises that take actions to reduce energy consumption
		2.30	* of which seasonal	3.29	♦ Arrivals	5.32	♦ Annual amount of energy consumed from renewable sources (Mwh) compared to overall energy consumption at
	Precipitation:						destination level per year
1.35	Total  Total  of which, in winter		♦ Number of rooms ♦ Number of beds	3.30	* of which, domestic  • Overnights	-	
1.37	* of which, in summer		Overall Satisfaction	3.32	* of which, domestic		
	Temperature:		♦Total		Camping grounds, recreational vehicle parks and trailer parks		
1.38	Average of maximum temperature     of which, in winter	2.34	* of which, domestic * of which, non Domestic	3.33 3.34	Arrivals     of which, domestic	-	
1.40	* of which, in summer				♦ Overnights		
1.42	Average of minimum temperature     of which, in winter	2.36	Indicators Occupancy rate / rooms		* of which, domestic Expenditure		
	* of which, in summer Number of environmental certifications	2.37	Occupancy rate / beds Average length of stay	3.37	Total  ◆ Domestic		
	Waste production	2.39	Capacity ratio (beds per 1000 inhabitants)		Non Domestic		
1.45	* Total     * of which, from tourism sector	2.40	Tourists / population		Overall Satisfaction Total	-	
	* of which, from recycling			3.41	♦ Domestic		
1.48	Water consumption  ◆ Total				♦ Non Domestic Intention to return		
1.49	* of which, from tourism sector Energy consumption				Indicators		
1.50	♦ Total			3.44	Average size of travel party		
	* of which, from tourism sector			3.45	Average size of travel group  Average length of stay	-	
				3.47	Average expenditure per day		

_	DESTINATION OVERVIEW	2	PROVING				ETIC	
1.	DESTINATION OVERVIEW  Data	2.	TOURISM INDUSTRY <u>Data</u>		TOURISM FLOW Data	э.	ETIS Data	
	Destination Profile		Number of establishments		Flow		Destination management	
1.1	Dominant habitats (place an X against all that apply)	2.1	♦ Total	3.1	♦ Total Arrivals	5.1	<ul> <li>Tourism enterprises/establishments in the destination using a vokultary certification/labelling for environmental/quality/sustainability and/or Corporate Social Responsability measures</li> </ul>	
1.2	Top five most popular tourist attractions (including environmental and cultural attractions).	2.2	* of which, Accommodation for visitors	3.2	* of which, domestic	5.2	Tourists that are satisfied with their overall experience in the destination	
1.3	Area	2.3	* of which, Food and beverage serving activities	3.3	♦ Overnight visitors (tourists)	5.3	Repeat/return visitors (within 5 years)	
1.4	Population	2.4	* of which, Passenger transportation	3.4	* of which, domestic		Economic Value	
1.5	Density	2.5	* of which, Travel agencies and other reservation services activities	3.5	Daily visitors (no overnights)	5.4	Number of tourist nights	
1.6	Gross Value added Total	2.6	* of which, Convention bureau/congress facilities services activities	3.6	* of which, cruise passengers	5.5	Number of same day visitors	
1.7	Gross Value added per capita	2.7	* of which, Museums		Arrivals by region	5.6	♦ Relative contribution of tourism to the destination's economy (% GDP)	
1.8	Total tourism expenditure over GDP	2.8	* of which, Themes Parks	3.7	♦ Total Arrivals	5.7	Daily spending per overnight tourist	
1.9	Number of Employees  * of which, number of direct job in tourism	2.10	* of which, Archaeological sites  * of which, Other tourism attractions	3.8	* of which from Africa  * of which from Americas	5.8	Average length of stay of tourists (nights)     Occupancy rate in commercial accommodation	
1.11	* of which, number of women employed in tourism	2.11	* of which, Other tourism industries	3.10	* of which from Asia	5.10	establishments per month and average for the year     Direct tourism employment as percentage of total	
		2.11	Number of establishments accessible for				employment in the destination	
1.12	Quality of life index Criminality index	2.12	people with disabilities  Total		* of which from Europe  * of which, domestic	5.11	Local producer of food, drink, goods and services  Social and Cultural Impact	
1.14	International Airports	2.13	* of which, Hotel and similar accommodations		* of which from Oceania	5.12	♦ Number of tourists per residents	
1.15	Number of daily flights	2.14	* of which, Holiday and other short-stay accommodation		Arrivals by main purpose	5.13	Residents who are satisfied with tourism in the destination (per month/season)	
1.16	* of which, charter flights	2.15	* of which, Camping grounds, recreational vehicle parks and trailer parks	3.14	Total	5.14	♦ Number of beds available in commercial accomodation	
	* of which, low cost flights	2.16	* of which, Food and beverage serving activities	3.15	♦ Personal	5.15	♦ Number of second homes	
1.14	Train Stations	2.17	* of which, Museums	3.16	* holidays, leisure and recreation	5.16	Percentage of men and women employed in the tourism sector	
1.15	♦ Number of daily stops	2.18	* of which, Themes Parks	3.17	* other personal purposes	5.17	Tourism enterprises where the general manager position is held by a woman	
1.16	Coaches stations	2.19	* of which, Archaeological sites	3.18	Business and professional	5.18	♦ Rooms in commercial accomodation establishments accessible for people with disabilities	
1.17	Number of daily departures	2.20	* of which. Other tourism attractions			5.19	♦ Commercial accommodation establishments participating	
1.17	▼ Number of daily departures	2.20	Accommodation for visitors in hotels and		Arrivals by mode of transport	3.19	in recognised accessibility information schemes	
1.18	Seaports		Accommodation for visitors in hotels and similar establishments	3.19	♦ Total	5.20	Public transport that is accessible to people with disabilities and with specific access requirements	
1.19	Number of daily departures			3.20	* of which from by Air		Tourist attractions that are accessible to people with disabilities and/or participating in recognised accessibility	
1.21	Number of establishments accessible for people with	2.21	Hotel and similar accommodations  • Total	3.21	* of which from by Sea	5.22	information schemes  • Residents that are satisfied with the impacts of tourism on	
1.26	* of which, number of accessible Airports	2.22	* of which seasonal		* of which from by Railway		destination's identity  Environmental Impact	
1.27	* of which, number of accessible Train Stations	2.23	♦ Number of rooms	3.23	* of which from by Private car	5.23	Tourists and same day visitors using different modes of transport to arrive at the destination	
1.28	* of which, number of accessible Coaches Stations	2.24	♦ Number of beds	3.24	* of which from by Other not classified	5.24	♦ Tourists and same day visitors using local/soft	
							Tourism enterprises involved in climate change mitigation	
1.29	* of which, number of accessible Seaports					5.25	schemes—such as: CO2 offset, low energy systems,	
			Holiday and other short-stay accommodation		Accommodation		etc.—and "adaptation" responses and actions  • Waste production per tourist night compared to general	
1.30	Total EU Funds received	2.25	♦ Total		Hotel and similar accommodations	5.26	population waste production per person	
	* of which, for tourism	2.26	* of which seasonal	3.25	♦ Arrivals	5.27	Tourism enterprises separating different types of waste	
	Sunshine hours	2.27	• Number of rooms	3.26	* of which, domestic	5.28	Water consumption per tourist night compared to general population water consumption per resident night	
1.32	◆ Total	2.28	♦ Number of beds	3.27	♦ Overnights	5.29	Tourism enterprises taking actions to reduce water	
							Energy consumption per tourist night compared to general	
1.33	* of which, in winter		Camping grounds, recreational vehicle parks and trailer parks	5.28	* of which, domestic	5.30	population energy consumption per resident night	
1.34	* of which, in summer	2.29	♦ Total		Holiday and other short-stay accommodation	5.31	Tourism enterprises that take actions to reduce energy consumption	
		2.30	* of which seasonal	3.29	♦ Arrivals	5.32	Annual amount of energy consumed from renewable sources (Mwh) compared to overall energy consumption at	
1.35	Precipitation:  • Total		♦ Number of rooms	3.30	* of which, domestic		destination level per year	
1.36	* of which, in winter * of which, in summer	2.32	Number of beds Overall Satisfaction	3.31	Overnights  of which, domestic			
	Temperature:		◆Total		Camping grounds, recreational vehicle parks and trailer parks			
1.38	♦ Average of maximum temperature	2.34	* of which, domestic	3.33	♦ Arrivals			
1.40	* of which, in winter * of which, in summer	2.35	* of which, non Domestic	3.35	* of which, domestic  ◆ Overnights			
	Average of minimum temperature  of which, in winter	2.36	Indicators Occupancy rate / rooms		* of which, domestic Expenditure			
1.43		2.37	Occupancy rate / beds Average length of stay	3.37	Total  ◆ Domestic			
	Waste production  • Total	2.39	Capacity ratio (beds per 1000 inhabitants) Tourists / population	3.39	♦ Non Domestic Overall Satisfaction			
1.46	* of which, from tourism sector	2.40	гольот роривной	3.40	Total			
	* of which, from recycling Water consumption			3.42	♦ Domestic  ♦ Non Domestic			
1.48	Total     of which, from tourism sector				Intention to return			
	Energy consumption  Total			3.44	Indicators Average size of travel party			
1.51	* of which, from tourism sector	-		3.45	Average size of travel group Average length of stay			
					Average expenditure per day			

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1.	DESTINATION OVERVIEW	2.	TOURISM INDUSTRY	L LE	/EL TOURISM FLOW	5.	ETIS
	Data _	<u> </u>	<u>Data</u>	٥.	<u>Data</u>	Ė	<u>Data</u>
	Destination Profile		Number of establishments		Flow		Destination management  Tourism enterprises/establishments in the destination
1.1	Dominant habitats (place an X against all that apply)	2.1	♦ Total	3.1	♦ Total Arrivals	5.1	using a voluntary certification/labelling for environmental/quality/sustainability and/or Corporate Social Responsability measures
1.2	Top five most popular tourist attractions (including environmental and cultural attractions).	2.2	* of which, Accommodation for visitors	3.2	* of which, domestic	5.2	♦ Tourists that are satisfied with their overall experience in the destination
1.3	Area	2.3	* of which, Food and beverage serving activities	3.3	♦ Overnight visitors (tourists)	5.3	Repeat/return visitors (within 5 years)
1.4	Population	2.4	* of which, Passenger transportation	3.4	* of which, domestic		Economic Value
1.5	Density	2.5	* of which, Travel agencies and other reservation services activities	3.5	◆Daily visitors (no overnights)	5.4	Number of tourist nights
1.6	Gross Value added Total	2.6	* of which, Convention bureau/congress facilities services activities	3.6	* of which, cruise passengers	5.5	Number of same day visitors
1.7	Gross Value added per capita	2.7	* of which, Museums		Amirole by perion	5.6	Relative contribution of tourism to the destination's economy (% GDP)
1.8	Total tourism expenditure over GDP	2.8	* of which, Themes Parks	3.7	Arrivals by region  ◆ Total Arrivals	5.7	◆ Daily spending per overnight tourist
1.9	Number of Employees	2.9	* of which, Archaeological sites	3.8	* of which from Africa	5.8	Average length of stay of tourists (nights)
1.10	* of which, number of direct job in tourism		* of which, Other tourism attractions	3.9	* of which from Americas	5.9	Occupancy rate in commercial accommodation establishments per month and average for the year     Direct tourism employment as percentage of total
1.11	* of which, number of women employed in tourism	2.11	* of which, Other tourism industries  Number of establishments accessible for people	3.10	* of which from Asia	5.10	employment in the destination
1.12	Quality of life index		with disabilities	3.11	* of which from Europe	5.11	1 10
1.13	Criminality index	2.12	♦ Total	3.12	* of which, domestic	- 10	Social and Cultural Impact
	International Airports	2.13	* of which, Hotel and similar accommodations  * of which, Holiday and other short-stay	3.13	* of which from Oceania		<ul> <li>Number of tourists per residents</li> <li>Residents who are satisfied with tourism in the destination</li> </ul>
1.15	Number of daily flights	2.14	accommodation	L	Arrivals by main purpose	5.13	(per month/season)
1.16	* of which, charter flights	2.15	* of which, Camping grounds, recreational vehicle parks and trailer parks	3.14	Total	5.14	Number of beds available in commercial accomodation
	* of which, low cost flights	2.16		3.15	♦ Personal	5.15	Number of second homes
1.14	Train Stations	2.17	* of which, Museums	3.16	* holidays, leisure and recreation	5.16	Percentage of men and women employed in the tourism
				+			sector  Tourism enterprises where the general manager position
1.13	♦ Number of daily stops	2.18	* of which, Themes Parks	3.17	* other personal purposes	5.17	is held by a woman
1.16	Coaches stations	2.19	* of which, Archaeological sites	3.18	Business and professional	5.18	Rooms in commercial accommodation establishments accessible for people with disabilities
1.17	Number of daily departures	2.20	* of which, Other tourism attractions		Animals Income of the Comment	5.19	Commercial accommodation establishments participating in recognised accessibility information schemes
		М			Arrivals by mode of transport		Public transport that is accessible to people with
1.18	Seaports		Accommodation for visitors in hotels and similar establishments		◆ Total	5.20	disabilities and with specific access requirements  Tourist attractions that are accessible to people with
1.19	Number of daily departures	l	Hotel and similar accommodations	3.20	* of which from by Air	5.21	disabilities and/or participating in recognised accessibility information schemes
1.21	Number of establishments accessible for people with disabilities	2.21	♦ Total	3.21	* of which from by Sea	5.22	<ul> <li>Residents that are satisfied with the impacts of tourism on destination's identity</li> </ul>
1.26			* of which seasonal		* of which from by Railway	_	Environmental Impact
	* of which, number of accessible Airports	2.22		3.22	* of which from by Railway		
1.27	of which, number of accessible Airports     of which, number of accessible Train Stations	2.22	♦ Number of rooms	3.22	* of which from by Private car	5.23	Tourists and same day visitors using different modes of transport to arrive at the destination
1.27						5.25	Tourists and same day visitors using different modes of
1.28	* of which, number of accessible Train Stations	2.24	Number of rooms     Number of beds		of which from by Private car     of which from by Other not classified	5.25	Tourists and same day visitors using different modes of transport to arrive at the destination     Tourists and same day visitors using local/soft mobility/public transport services to get around the
1.28	of which, number of accessible Train Stations     of which, number of accessible Coaches Stations     of which, number of accessible Scaports	2.24	Number of rooms     Number of beds     Holiday and other short-stay accommodation		of which from by Private car     of which from by Other not classified  Accommodation	5.24	Tourist and some day visions using different modes of tunsport to arrive at the destiration Tourists and same day visions using local/soft mobility public transport services to get around the destination Tourism enterprises involved in climate change mitigation schemes—such as: CO2 offset, low energy systems, etc.—and "adaptation" responses and actions Waste production per tourist night compared to general
1.28	of which, number of accessible Train Stations     of which, number of accessible Coaches Stations     of which, number of accessible Scaports  Total EU Funds received	2.24	Number of rooms  Number of beds  Holiday and other short-stay accommodation  Total	3.24	of which from by Private car  of which from by Other not classified  Accommodation  Hotel and similar accommodations	5.24 5.25 5.26	Tourist and some day visitors using different modes of tumsport to arrive at the destiration Tourists and same day visitors using local/soft mobility public transport services to get around the dostination Tourism enterprises involved in climate change mitigation schemes—such as: CO2 offset, low energy systems, etc.—and "adaptation" responses and actions  Waste production per tourist night compared to general apopulation waste production per person.
1.28	of which, number of accessible Train Stations     of which, number of accessible Coaches Stations     of which, number of accessible Scaports	2.24	Number of rooms     Number of beds     Holiday and other short-stay accommodation	3.24	of which from by Private car     of which from by Other not classified  Accommodation	5.24 5.25 5.26	Tourists and some day visitors using different modes of transport to arrive at the destination Tourists and same day visitors using local/soft mobility public transport services to get around the destination Tourism enterprises involved in climate change mitigation schemes—such as: CO2 offset, low energy systems, etc.—and "adaptation" responses and actions Waste production per tourist night compared to general population waste production per person Tourism enterprises separating different types of waste
1.28	of which, number of accessible Train Stations of which, number of accessible Coaches Stations of which, number of accessible Scaports  Total EU Funds received of which, for tourism	2.24 2.25 2.26	Number of rooms  Number of beds  Holiday and other short-stay accommodation  Total	3.24	of which from by Private car  of which from by Other not classified  Accommodation  Hotel and similar accommodations	5.24 5.25 5.26	Tourist and some day visitors using different modes of tumsport to arrive at the destiration Tourists and same day visitors using local/soft mobility public transport services to get around the dostination Tourism enterprises involved in climate change mitigation schemes—such as: CO2 offset, low energy systems, etc.—and "adaptation" responses and actions  Waste production per tourist night compared to general apopulation waste production per person.
1.28	of which, number of accessible Train Stations     of which, number of accessible Coaches Stations     of which, number of accessible Scaports  Total EU Funds received	2.24 2.25 2.26 2.27	Number of rooms  Number of beds  Holiday and other short-stay accommodation  Total  of which seasonal  Number of rooms	3.24 3.25 3.26	* of which from by Private car  * of which from by Other not classified  Accommodation  Hotel and similar accommodations  * Arrivals  * of which, domestic	5.24 5.25 5.26	Tourists and some day visitors using different modes of transport to arrive at the destination     Tourists and same day visitors using healtsoil mobility public transport services to get around the destination     Tourism enterprises involved in climate change mitigation schemes—such as: CO2 offset, low energy systems, etc.—and "adaptation" responses and actions     Waste production per tourist night compared to general population waste production per person     Tourism enterprises separating different types of waste     Water consumption per tourist night compared to general population waster consumption per teacher tight.  Water consumption per tourist night compared to general population water consumption per resident night.  Tourism enterprises taking actions to reduce water
1.29	* of which, number of accessible Train Stations  * of which, number of accessible Coaches Stations  * of which, number of accessible Scaports  Total EU Funds received  * of which, for tourism  Sunshine hours  * Total	2.24 2.25 2.26 2.27	Number of rooms  Number of beds  Holiday and other short-stay accommodation  Total  of which seasonal	3.24 3.25 3.26	* of which from by Private car  * of which from by Other not classified  Accommodation  Hotel and similar accommodations  • Arrivals	5.24 5.25 5.26 5.27 5.28 5.29	Tourists and some day-visitors using different modes of transport to arrive at the destiration     Tourists and same day visitors using local/soft mobility public transport services to get around the destination     Tourism enterprises involved in climate change mitigation schemes—such as: CO2 offset, low energy systems, etc.—and "adaptation" responses and actions     Whate production per tourist night compared to general population waste production per person     Tourism enterprises separating different types of waste     Water consumption per tourist night compared to general population waste consumption per tourist night compared to general population water consumption per tourist night compared to general population water consumption per tourist night compared to general population water consumption per tourist night compared to general population water consumption per tourist night compared to general population water consumption per tourist night compared to general population water consumption per tourist night compared to general population water consumption per tourist night compared to general population water consumption.
1.29	of which, number of accessible Train Stations of which, number of accessible Coaches Stations of which, number of accessible Scaports  Total EU Funds received of which, for tourism  Sunshine hours	2.24 2.25 2.26 2.27 2.28	Number of beds  Number of beds  Holiday and other short-stay accommodation  Total  of which seasonal  Number of rooms  Number of beds  Camping grounds, recreational vehicle parks and	3.24 3.25 3.26 3.27	* of which from by Private car  * of which from by Other not classified  Accommodation  Hotel and similar accommodations  * Arrivals  * of which, domestic	5.24 5.25 5.26 5.27 5.28 5.29	Tourists and same day visitors using different modes of transport to arrive at the destination     Tourists and same day visitors using healtsoil mobility/public transport services to get around the destination     Tourism enterprises involved in climate change mitigation schemes—such as: CO2 offict, low energy systems, etc.—and "adaptation" responses and actions     Waste production per tourist night compared to general nonpilation waste production per person     Tourism enterprises separating different types of waste     Water consumption per tourist night compared to general population waste production per person     Tourism enterprises separating different types of waste     Water consumption per tourist night compared to general population water consumption per resident night.     Tourism enterprises taking actions to reduce water consumption.
1.28 1.29 1.30	* of which, number of accessible Train Stations  * of which, number of accessible Coaches Stations  * of which, number of accessible Scaports  Total EU Funds received  * of which, for tourism  Sunshine hours  * Total	2.24 2.25 2.26 2.27 2.28	Number of bods  Number of beds  Holiday and other short-stay accommodation Total  of which seasonal  Number of rooms  Number of beds	3.24 3.25 3.26 3.27	of which from by Private car  of which from by Other not classified  Accommodation  Hotel and similar accommodations Arrivals  of which, domestic  Overnigits  of which, domestic  Holiday and other short-stay	5.24 5.25 5.26 5.27 5.28 5.29	Tourist and same day visitors using different modes of transport to arrive at the destination     Tourists and same day visitors using bealfoolt mobility public transport services to get around the destination     Tourism enterprises involved in climate change mitigation schemes—such as: CO2 offset, low energy systems, etc.—and "adaptation" responses and actions     Waste production per tourist night compared to general population waste production per person     Tourism enterprises separating different types of waste     Water consumption per tourist night compared to general oppulation water consumption per resident night     Tourism enterprises taking actions to reduce water consumption     Energy consumption per tourist night compared to general oppulation water consumption per resident night.     Tourism enterprises taking actions to reduce water consumption per person to general oppulation energy consumption per resident night.     Tourism enterprises that take actions to reduce energy
1.28 1.29 1.30	of which, number of accessible Train Stations of which, number of accessible Coaches Stations of which, number of accessible Seaports  Total EU Funds received of which, for fourism  Sunshine hours Total  of which, in winter	2.24 2.25 2.26 2.27 2.28	Number of bods  Number of beds  Holiday and other short-stay accommodation  Total  of which seasonal  Number of rooms  Number of bods  Camping grounds, recreational vehicle parks and trailer parks  Total	3.24 3.25 3.26 3.27 3.28	* of which from by Private car  * of which from by Other not classified  Accommodation  Hotel and similar accommodations  • Arrivals  * of which, domestic  • Overnights  * of which, domestic  Holiday and other short-stay accommodation	5.24 5.25 5.26 5.27 5.28 5.29 5.30	Tourist and same day visitors using different modes of transport to arrive at the destination     Tourists and same day visitors using healtsoil mobility public transport services to get around the destination     Tourism enterprises involved in climate change mitigation schemes—such as: CO2 offset, low energy systems, etc.—and "adaptation" responses and actions     Waster production per tourist night compared to general population waster production per person     Tourism enterprises separating different types of waste     Water consumption per tourist night compared to general population water consumption per resident night.     Tourism enterprises taking actions to reduce water consumption     Energy consumption per tourist night compared to general population energy consumption per resident night.     Tourism enterprises taking actions to reduce water consumption per new population series that the actions to reduce energy consumption per resident night.     Tourism enterprises that take actions to reduce energy consumption     Armaal amount of energy consumed from renewable
1.28 1.29 1.30 1.32 1.33	of which, number of accessible Train Stations of which, number of accessible Coaches Stations of which, number of accessible Seaports  Total EU Funds received of which, for fourism  Sunshine hours Total  of which, in winter	2.24 2.25 2.26 2.27 2.28	Number of rooms  Number of beds  Holiday and other short-stay accommodation Total  of which seasonal  Number of rooms  Number of beds  Camping grounds, recreational vehicle parks and trailer parks	3.24 3.25 3.26 3.27 3.28	of which from by Private car  of which from by Other not classified  Accommodation  Hotel and similar accommodations Arrivals  of which, domestic  Overnigits  of which, domestic  Holiday and other short-stay	5.24 5.25 5.26 5.27 5.28 5.29 5.30	Tourists and sume day visitors using different modes of transport to arrive at the destination     Tourists and same day visitors using localisoft mobility/public transport services to get around the destination     Tourists most considerable to the destination     Tourists most considerable to the destination     Tourists most considerable to the destination of the
1.28 1.29 1.30 1.32 1.33	* of which, number of accessible Train Stations  * of which, number of accessible Coaches Stations  * of which, number of accessible Scaports  Total EU Funds received  * of which, for tourism  Sunshine hours  * Total  * of which, in winter  * of which, in summer	2.24 2.25 2.26 2.27 2.28 2.29 2.30	Number of beds  Number of beds  Holiday and other short-stay accommodation  Total  of which seasonal  Number of rooms  Number of beds  Camping grounds, recreational vehicle parks and trailer parks  Total  of which seasonal  Number of rooms	3.24 3.25 3.26 3.27 3.28 3.29 3.30	* of which from by Private car  * of which from by Other not classified  Accommodation  Hotel and similar accommodations  • Arrivals  * of which, domestic  • Overnights  * of which, domestic  Holiday and other short-stay accommodation  • Arrivals  * of which, domestic	5.24 5.25 5.26 5.27 5.28 5.29 5.30	Tourists and some day winters using different modes of transport to arrive at the destination     Tourists and same day visitors using localisoil mobility/public transport services to get around the destination     Tourists meterprises involved in climate change mitigation schemes—such as: CO2 offset, low energy systems, etc.—and "adaptation" responses and actions     Waste production per fourist night compared to general oppulation waste production per person     Tourism enterprises separating different types of waste     Waster consumption per tourist night compared to general opulation waster consumption per resident night     Tourism enterprises taking actions to reduce water communition     Energy consumption per tourist night compared to general oppulation energy consumption per resident night     Tourism enterprises that take actions to reduce energy consumption     Tourism enterprises that take actions to reduce energy consumption     Tourism enterprises that take actions to reduce energy consumption     Tourism enterprises that take actions to reduce energy consumption     Armal amount of energy consumption per neewable sources (MWM) compared to overall energy consumption
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Table 10 Data availability at national level

Date the final profile   Part of the comment of the		т.		4110	NAL LEVEL	1-	Irano
Number of the third right on N part of the right   1	DESTINATION OVERVIEW	2.	TOURISM INDUSTRY	3.	TOURISM FLOW	5.	ETIS Data
Process   Proc		+		1			
Description of the part of t	Destination From:		rumber of establishments		2.00 (		
Fig. See most pepele worst ammonis (solving a company of the control of the control operation operation operation of the control operation op	Dominant babitate (place on V seninet all that apply)	2.1	▲ Total	2.1	A Total Arrivale	5.1	voluntary certification/labelling for
Top the control entrolision (minutes)   2	Donmant habitats (place an A against an that apply)	2.1	▼ Iotai	3.1	V Iotal Allivas	5.1	environmental/quality/sustainability and/or Corporate Social
Common control of the description   1	To Company the state of the first	$\vdash$		-			Responsability measures
April		2.2	* of which, Accommodation for visitors	3.2	* of which, domestic	5.2	
Common Name Andrew Common Name		2.3	* of which, Food and beverage serving activities	3.3	♦ Overnight visitors (tourists)	5.3	
Section Water should Total  2		2.4					Economic Value
Construction of the Construction of the Construction Processes   Construction of the	Density	2.5		3.5	Daily visitors (no overnights)	5.4	♦ Number of tourist nights
Control price of the control of the	•	<del>-</del>					-
Common	Gross Value added Total	2.6		3.6	* of which, cruise passengers	5.5	Number of same day visitors
Note of carbolycope 15 2 of orders, Antoninguistics of the company of the carbolycope 15 2 of orders, Antoninguistics 15 of or	Cross Volus added non conits	2.7				5.6	♦ Relative contribution of tourism to the destination's econo
Act of the American Control pick in Normal   1.5   1		2.7				5.0	
- of which control referred job in various  - of which, marker of forces complying in several part of the control of the contr		2.8		3.7		5.7	Daily spending per overnight tourist
A contact content of control in the common and part of the content in the content of the content		2.9		3.8		5.8	
Control of the face	* of which, number of direct job in tourism	2.10	* of which, Other tourism attractions	3.9	* of which from Americas	5.9	
Company parks	* of which number of woman applyand in tourism	2.11	* of which. Other touriem industries	3 10	* of which from Acia	5 10	<ul> <li>Direct tourism employment as percentage of total employ.</li> </ul>
Control   Cont	· or which, humber of women employed in tourism	2.11		3.10	· Of Which HOTH ASM	5.10	the destination
Committed April 19   20   20   20   20   20   20   20   2	Quality of life index			3.11	* of which from Europe	5.11	♦ Local producer of food, drink, goods and services
Simmer of daily departures  **Studies** Carlos (Sales Annexes of Sales Ann		2 12		3 12			
security light controlled by main purpose  **In the format by main		2.13		3.13		5.12	
** of back , charter fights		21.					Residents who are satisfied with tourism in the destination
Section   Process   Proc	▼ Number of daily liights	2.14	accommodation		Arrivals by main purpose	5.13	
Section   Process   Proc	* of which, charter flights	2.15	* of which, Camping grounds, recreational vehicle	3.14		5.14	Number of beds available in commercial accompodation
Time Statemer of day loops 218   **Collect Themse Plants 219   **Collect Statemer of All John		2	parks and trailer parks	2	. D		
Number of daily departures  Nomber of daily departures  Number of daily departures  Nu		2.16	* of which, Food and beverage serving activities	3.15	Personal     holidays laisure and page-stice		
Conclose stations   2.19   "effects, Anthronological airs   2.10   "effects   2.		2	· · · · · · · · · · · · · · · · · · ·		7 /	5.16	
Condens nations  210 * of which, Archaeological sizes  220 * of which, Other turns materies  Accommodation for visitors in botch and oline free turns of the commodation of the commodat	♦ Number of daily stops	2.18	* of which, Themes Parks	3.17	* other personal purposes	5.17	by a woman
*Number of faith/departures  *Include of faith/departures  *Number of faith/departures  *Include of faith/departures  *Number of faith/departures  *Include of faith/dep	Concluse stations	2.10	* of which Archaeological sites	3 10	A Rusiness and professional	5.10	♦ Rooms in commercial accomodation establishments access
Accommodation for visitors in blotch and similar extableshoweds  Number of daily departures  Number of daily depar	Coacnes stations	2.19	* of which, Archaeological sites	3.18	Business and professional	5.18	for people with disabilities
Accommodation for visions in borks and similar establishments with a few finals of the state of	♦ Number of daily departures	2.20	* of which, Other tourism attractions	ı		5.19	♦ Commercial accommodation establishments participating
* Number of Casabh General States   1,000   1   1   1   1   1   1   1   1   1	7 1	_	· ·	_			recognised accessibility information schemes
Number of daily departures  221 * Intal  222 * of which from by Sca  223 * of which from by Sca  224 * of which from by Sca  225 * of which from by Sca  226 * of which from by Sca  227 * of which from by Rathery  228 * of which from by Rathery  229 * of which from by Printer or  220 * of which from by Printer or  220 * of which from by Printer or  221 * of which from by Printer or  222 * of which from by Printer or  223 * of which from by Printer or  224 * of which from by Printer or  225 * of which from by Printer or  226 * of which from by Printer or  227 * of which from by Printer or  228 * Intel  229 * Intel  220 * Intel  220 * of which from by Other net classified  220 * of which from by Other net classified  221 * of which from by Other net classified  222 * of which from by Printer or  223 * Intel  224 * of which from by Printer or  225 * Intel  226 * Intel  227 * Of which from by Printer or  228 * Intel  229 * Intel  220 * Of which is marked  220 * Intel  221 * Intel  222 * Intel  223 * Intel  224 * Of which is marked  225 * Intel  226 * Of which is marked  227 * Number of focus  228 * Number of focus  229 * Number of focus  220 * Number of focus  220 * Number of focus  221 * Number of focus  222 * Number of focus  223 * Number of focus  224 * Number of focus  225 * Number of focus  226 * Number of focus  227 * Number of focus  228 * Number of focus  229 * Intel  220 * Of which is marked  220 * Number of focus  221 * Number of focus  222 * Number of focus  223 * Number of focus  224 * Number of focus  225 * Number of focus  226 * Number of focus  227 * Number of focus  228 * Number of focus  229 * Intel  220 * Of which is marked  221 * Of which is marked  222 * Number of focus  223 * Of which is marked  224 * Of which is marked  225 * Number of focus  226 * Of which is marked  227 * Of which is marked  228 * Of which is marked  229 * Of which is marked  220 * Of whi	Seaports			3.19	◆ Total	5.20	
Number of classy deputies   Company   Compan		•	similar establishments	_			
Number of establishments accounted for proved.  121   Total  222   *Total  223   *Of which from by Sea  224   *Of which from by Sea  225   *Of which from by Rahwy  226   *Of which from by Rahwy  227   *Of which from by Provided  228   *Of which from by Christopher Cancership Counter of Accounted From States  229   *Number of Peeds  220   *Total  221   *Of which from by Other not classified  222   *Of which from by Other not classified  223   *Of which from by Other not classified  224   *Of which from by Other not classified  225   *Of which from by Other not classified  226   *Of which from by Other not classified  227   *Of which from by Other not classified  228   *Total  229   *Total  220   *Of which from by Other not classified  220   *Of which from by Other not classified  220   *Of which from by Other not classified  221   *Of which from by Other not classified  222   *Of which from by Other not classified  223   *Of which from by Other not classified  224   *Of which from by Other not classified  225   *Of which from by Other not classified  226   *Of which from by Other not classified  227   *Of which from by Other not classified  228   *Of which from by Other not classified  229   *Of which from by Other not classified  220   *Of which from by Other not classified  221   *Of which from by Other not classified  222   *Of which from by Other not classified  223   *Of which from by Other not classified  224   *Of which from by Other not classified  225   *Of which from by Other not classified  226   *Of which from by Other not classified  227   *Of which from by Other not classified  228   *Of which from by Other not classified  229   *Of which from by Other not classified  220   *Of which from by Other not classified  220   *Of which from by Other not classified  221   *Of whic	♦ Number of daily departures			3.20	* of which from by Air	5.21	
such tituditities  of which, number of accessible Arports  222  of which seasonal  of which, number of accessible Train Stations  of which, number of accessible Train Stations  of which, number of accessible Couches Stations  of which, number of accessible Stations  of which stations  of which, number of accessible Station			Hotel and similar accommodations		-		
## of which, number of accessable Crackes Stations  ** of which, number of accessable Crackes Crackes Stations  ** of which, number of accessable Crackes Stations  ** of which, number of accessable Crackes Crackes Stations  ** of which, number of accessable Crackes Crackes Stations  ** of which, number of accessable Crackes Crackes Stations  ** of which, number of accessable Crackes Crackes Stations  ** of which, number of accessable Crackes Crackes Stations  ** of which, number of accessable Crackes Crackes Stations  ** of which, number of accessable Crackes Crackes Stations  ** of which, number of accessable Crackes Crackes Stations  ** of which, number of accessable Crackes Crackes Stations  ** of which, number of accessable Crackes		2.21	♦ Total	3.21	* of which from by Sea	5.22	
* of which, number of accessible Train Stations 223 * Number of Fooms 224 * Number of Secusible Coaches Stations 225 * Number of Secusible Coaches Stations 226 * Number of Secusible Coaches Stations 227 * Number of Secusible Coaches Stations 228 * Number of Secusible Coaches Stations 229 * Total  Total EU Funds received 220 * Total  Total EU Funds received 221 * Number of Secusible Coaches Stations 222 * Number of Secusible Coaches Stations 223 * Number of Secusible Coaches Stations 224 * Number of Secusible Coaches Stations 225 * Number of Secusible Coaches Stations 226 * Of which, number of accessible Scaports  Total EU Funds received 227 * Number of Secusible Coaches Stations 228 * Number of Secusible Coaches Stations 229 * Number of Secusible Coaches Stations 220 * Of which, secusions 221 * Number of Secusible Coaches Stations 222 * Number of Secusible Coaches Stations 223 * Number of Secusible Coaches Stations 224 * Number of Secusible Coaches Stations 225 * Number of Secusible Coaches Stations 226 * Of which, secusions 227 * Number of Secusible Coaches Stations 228 * Number of Secusible Coaches Stations 229 * Number of Secusible Coaches Stations 220 * Of which Secusions 221 * Number of Secusible Coaches Stations 222 * Number of Secusible Coaches Stations 223 * Of which Secusions 224 * Number of Secusible Coaches Stations 225 * Number of Secusible Coaches Stations 226 * Of which Secusions 227 * Number of Secusible Coaches Stations 228 * Number of Secusible Coaches Stations 229 * Total 220 * Of which Secusions 220 * Of which Secusions 221 * Number of Secusible Coaches Stations 222 * Number of Secusible Coaches Stations 223 * Of which Secusions 224 * Number of Secusible Coaches Stations 225 * Of which Secusions 226 * Secusible Coaches Stations 227 * Number of Secusible Coaches Stations 228 * Number of Secusible Coaches Stations 229 * Number of Secusible Coaches Stations 229 * Number of Secusible Coaches Stations 220 * Of which Secusions 221 * Number of Secusible Coaches Stations 2220 * Of which Secusions 223		2.22	* Colid	2 22	The second secon		
* of which, number of accessible Coaches Stations 224 * Number of bods 3.24 * of which from by Other not classified 525 to discussion of which, number of accessible Scaports 1 Holiday and other short-stay accommodation 526 to which from by Other not classified 526 to which from by		2.22		3.22			
* of which, number of accessible Couches Station*  * of which, number of accessible Seaports*  **Indiday and other short-stay accommodation*  Total EU Funds received*  **25 * Total*  **Total*  **T	* of which, number of accessible Train Stations	2.23	♦ Number of rooms	3.23	* of which from by Private car	5.23	to arrive at the destination
## of which, number of accessible Scaports    Holiday and other short-stay accommodation	* Solib and a Second L. Contra State	224	A Nicoland Charles	2.24	* Codil Control Odorov doi: Cd	e 24	♦ Tourists and same day visitors using local/soft mobility/pul
Formation   Holiday and other short-stay aecommodation   Accommodation   Acc	* of which, humber of accessible Coaches Stations	2.24	Number of beds	3.24	of which from by Other not classified	5.24	
Holiday and other short-stay accommodation   Accommodation   Accommodation   Total EU Funds received   225   Total   Total   325   A rivals   326   Total   327   Number of rooms   326   *Owinch, in winter   Camping grounds, recreational vehicle parks and frailer parks   328   *Owinch, in winter   229   *Total   231   Number of rooms   329   *A rivals   329   *A rivals   320   *Owinch, in winter   220   *Total   231   Number of rooms   320   *A rivals   320   *A rivals   320   *Owinch, in winter   220   *Total   321   Number of rooms   320   *A rivals   320   *A rival							
Total EU Funds received   225   * Total	* of which, number of accessible Seaports		Heliday and other short stay assammedation		Accommodation	5.25	
Foreign and present   2.26   * of which seasonal   3.25   * of which, domestic   5.28   * Number of room   3.26   * of which, in winter   2.28   Number of foods   3.27   * Overnights   5.29   * Foreign of the present of the parks and trailer parks   3.28   * of which, in winter   2.29   * Total   2.20   * of which is summer   2.20   * of which seasonal   3.29   * Arminal   5.27   * Overnights   5.29   * Total   5.20   * Total					Accommodation		
Sunshine hours 2.27 * Number of room 3.26 * of which, domeste 5.27 * Four enterprises separating different types of waste superational years of more particular special part of the parks and trailer parks and tr	Total EU Funds received	2.25	♦ Total		Hotel and similar accommodations	5.26	nonulation waste production per totals right compared to general
Sunshine hours 2.7    • Number of rooms 3.26    • Othich, in winter 2.8    • Number of beds 3.27    • Owhich, in summer 3.28    • Total 3.28    • Total 3.29    • Total 3.29    • Total 3.20    • Owhich, in summer 3.20    • Total 3.21    • Number of hods 3.21    • Owhich, in summer 3.20    • Owhich, in summer 3.20    • Total 3.21    • Number of hods 3.21    • Owhich, in summer 3.20    • Total 3.21    • Number of hooms 3.20    • Owhich, in summer 3.20    • Owhich, in summer 3.20    • Owhich, in summer 3.20    • Owhich, in winter 3.23    • Owhich, in winter 3.25    • Owhich, in winter 3.	* of which, for tourism	2.26	* of which seasonal	3.25		5.27	
Sunshine hours  • Total  2.28 • Number of beds  2.29 • Total  Camping grounds, recreational vehicle parks and trailer parks  • of which, in winter  2.29 • Total  Camping grounds, recreational vehicle parks and trailer parks  • of which, in summer  2.20 • Total  2.30 • Of which seasonal  2.31 • Number of frooms  2.32 • Armals  2.33 • Armals  2.34 • Armala armant of energy consumption per towist night compared to general consumption.  • Of which, in winter  2.30 • Of which seasonal  2.31 • Number of frooms  2.32 • Armals  2.33 • Armala armant of energy consumption at destrat level per year  2.34 • Of which, in summer  2.35 • Overnights  4. Average of maximum temperature  2.36 • Of which, in winter  2.37 • Of which, in winter  2.38 • Of which, in winter  2.39 • Of which, in winter  2.30 • Of which, in winter  2.31 • Of which, in winter  2.32 • Of which, in winter  2.33 • Overnights  2.34 • Of which, in winter  2.35 • Of which, in winter  2.36 • Of which, in winter  2.37 • Of which, in winter  2.38 • Of which, in winter  2.39 • Of which, in winter  2.30 • Of which, in winter  2.31 • Of which, in winter  2.32 • Of which, in winter  2.33 • Overnights  2.34 • Of which, in winter  2.35 • Overnights  2.35 • Overnights  2.36 • Of which, in winter  2.37 • Overnights  2.38 • Of which, in winter  2.39 • Of which, in winter  2.30 • Of which, in winter  2.31 • Overnights  2.32 • Of which, in winter  2.33 • Overnights  2.34 • Of which, in winter  2.35 • Overnights  2.35 • Overnights  2.36 • Overnights  2.37 • Overnights  2.38 • Overnights  2.38 • Overnights  2.39 • Overnights  2.30 • Overnights  2.30 • Overnights  2.30 • Overnights  2.31 • Overnights  2.32 • Overnights  2.33 • Overnights  2.34 • Overnights  2.35 • Overnights  2.36 • Overnights  2.37 • Overnights  2.38 • Overnights  2.39 • Overnights  2.30 • Overnights  2.		2 27		3 26	* of which domestic	5 28	
of which, in winter  Camping grounds, recreational vehicle parks and trailer parks  of which, in winter  229 * Total  Loliday and other short-stay accommodation  Loliday and other short-stay accommo	Sunshine hours	2.2/	· ····	5.20	or makit, domestic	0	
* of which, in winter  **of which, in winter  **of which, in summer  **Camping grounds, recreational vehicle parks and trailer parks  **of which, in summer  **229 * Total  **Total  **Of which, in summer  **Total  **Of which, in winter  **Of which, in summer  **Of which, in s	♦ Total	2.28	♦ Number of beds	3.27	♦ Overnights	5.29	♦ Tourism enterprises taking actions to reduce water consu
and trailer parks  of which, in summer  229 • Total  100 Holiday and other short-stay accommodation  100 Precipitation:  230 • of which seasonal  231 • Number of rooms  332 • Armials  333 • of which, in summer  233 • Number of rooms  334 • of which, in summer  235 • Orwhich, in summer  236 • Orwhich, in summer  237 • Orwhich, in summer  238 • Total  239 • Orwhich, in winter  230 • Total  231 • Orwhich, in summer  232 • Total  233 • Total  234 • Orwhich, in summer  235 • Total  236 • Orwhich, in summer  237 • Orwhich, in summer  238 • Orwhich, in summer  239 • Orwhich, in summer  230 • Orwhich, in summer  231 • Orwhich, in summer  232 • Orwhich, in summer  233 • Orwhich, in summer  234 • Orwhich, in summer  235 • Orwhich, in summer  236 • Orwhich, in summer  237 • Orwhich, in summer  238 • Orwhich, in summer  239 • Orwhich, in summer  240 • Orwhich, in summer  251 • Orwhich, in summer  252 • Orwhich, in summer  253 • Occupancy rate / bods  254 • Orwhich, in summer  255 • Occupancy rate / bods  256 • Occupancy rate / bods  257 • Orwhich, in summer  258 • Occupancy rate / bods  259 • Open rate / bods  250 • Open rate /		F		-			
* of which, in summer  2.30 * of which seasonal  2.30 * of which seasonal  2.31 * Number of frooms  3.29 * Arrivals  3.29 * Arrivals  3.20 * Arrivals  3.21 * Of which domestic  3.22 * Of which, in winter  3.23 * Number of pedas  3.24 * Of which domestic  3.25 * Of which, in summer  3.26 * Arrivals  3.27 * Of which, in winter  3.28 * Total  3.29 * Arrivals  3.20 * Of which, in winter  3.20 * Of which, in winter  3.21 * Of which, in winter  3.22 * Of which, in winter  3.23 * Of which, in winter  3.24 * Of which, in winter  3.25 * Of which, in winter  3.26 * Of which, in winter  3.27 * Of which, in winter  3.28 * Of which, in winter  3.29 * Of which, in winter  3.20 * Of which, in winter  3.21 * Of which, in winter  3.22 * Of which, in winter  3.23 * Of which, in winter  3.24 * Of which, in winter  3.25 * Of which, in winter  3.26 * Of which, in winter  3.27 * Of which, in winter  3.28 * Of which, in winter  3.29 * Of which, in winter  3.20 * Occupancy winter frooms  3.20 * Occupancy winter frooms  3.21 * Occupancy winter frooms  3.22 * Occupancy winter frooms  3.23 * Occupancy winter frooms  3.24 * Of which, in winter  3.25 * Occupancy winter frooms  3.26 * Of which, in winter  3.27 * Occupancy winter frooms  3.28 * Of which, in winter  3.29 * Occupancy winter frooms  3.20 * Occupancy winter frooms  3.20 * Occupancy winter frooms  3.21 * Occupancy winter frooms  3.22 * Occupancy winter frooms  3.23 * Occupancy winter frooms  3.24 * Occupancy winter frooms  3.25 * Occupancy winter frooms  3.26 * Occupancy winter frooms  3.27 * Occupancy winter frooms  3.28 * Occupancy winter frooms  3.29 * On Domestic  3.20 * Occupancy winter frooms  3.20 * Occupancy winter frooms  3.21 * Occupancy winter frooms  3.22 * Occupancy winter frooms  3.23 * Occupancy winter frooms  3.24 * Occupancy winter frooms  3.25 * Occupancy winter frooms  3.26 * Occupancy winter frooms  3.27 * Occupancy winter frooms  3.28 * Occupancy winter froom	* of which, in winter			3.28	* of which, domestic	5.30	
Freeigntation:  230  230  230  240  250  250  250  250  250  250  25		100		f			
Precipitation:	* of which, in summer	2.29	◆ Iotal	L	Holiday and other short-stay accommodation	5.31	consumption
Precipitation:							♦ Annual amount of energy consumed from renewable sour
■ Total			* of which seasonal	3.29	♦ Arrivals	5.32	
	Provide days	2.30					Jevel per year
sofwhich, in summer  233 * Total  Camping grounds, recreational vehicle parks and trailer parks  **Average of maximum temperature  234 * of which, non Domestic  335 * of which, non Domestic  336 * of which, in winter  337 * of which, in winter  338 * of which, in winter  339 * of which, in winter  340 * of which, in winter  350 * of which, in			A Number of rooms	3.20	* of which domestic		
Temperature:   2.33   *Total   Camping grounds, recreational vehicle parks and trainier parks   Camping grounds, recreational vehicle parks   Camping grounds, recreations   Camping grounds, recreation	♦ Total	2.31					
Temperature:	♦ Total  * of which, in winter	2.31	♦ Number of beds	3.31	♦ Overnights		
of of which, in winter         2.35         of which, in winter         3.35         Overnights           of which, in winter         1.36         Overlage of minimum temperature         Indicators         3.36         of which, in winter           0 of which, in winter         2.36         Overgancy rate / room         Expenditure           of which, in winter         2.37         Overgancy rate / room         Expenditure           which in winter         2.37         Overgancy rate / beds         3.31         Total           waste production         2.38         Average kength of stay         3.38         9 Domestic           waste production         2.30         Capacity roots (beds per 1000 rishbitants)         3.39         Non Domestic           w Total         2.40         Tourists / population         Overall Satisfaction         Overall Satisfaction           w Total         3.41         Domestic         Overall Satisfaction           w Total         3.42         Non Domestic           w Total         3.43         Non Domestic           w Total         3.43         Non Domestic           metrico to return         Intertion to return           w Total         3.43         Non Domestic           metrico to return         Intertion to ret	♦ Total  * of which, in winter	2.31	Number of beds     Overall Satisfaction	3.31	Overnights     of which, domestic     Camping grounds, recreational vehicle parks and		
**Ofwhich, in summer	Total  of which, in winter  of which, in summer  Temperature:	2.31	Number of beds Overall Satisfaction  Total	3.31	Overnights     of which, domestic     Camping grounds, recreational vehicle parks and trailer parks		
Average of miniman temperature	Total of which, in winter of which, in summer  Temperature: Average of maximum temperature	2.31	Number of beds Overall Satisfaction  Total  of which, domestic	3.31 3.32 3.33	Overnights of which, domestic Camping grounds, recreational vehicle parks and trailer parks Armak		
**Orbisch, in summer   2.36   Occupancy rate / room   Expenditure	Total  of which, in winter  of which, in summer  Temperature  Average of maximum temperature  of which, in winter	2.31	Number of beds Overall Satisfaction  Total  of which, domestic	3.31 3.32 3.33 3.34	Overnights of which, dornestic Camping grounds, recreational vehicle parks and trailer parks Arrivals of which, dornestic		
* of which, in summer   2.37   Occupancy rate / bods   3.37   Total	Total ich, in winter of which, in summer  Temperature: Average of maximum temperature of which, in winter of which, in summer	2.31 2.32 2.33 2.34 2.35	Number of beds Overall Satisfaction Float  of which, domestic  of which, non Domestic	3.31 3.32 3.33 3.34	Overnights of which, dornestic Camping grounds, recreational vehicle parks and trailer parks Arrivals of which, dornestic		
Waste production   2.30   Capacity ratio (beds per 1000 inhabitants)   3.39   Non Domestic	Total  of which, in winter  of which, in summer  Temperature:  Average of maximum temperature  of which, in winter  of which, in summer  Average of minimum temperature	2.31 2.32 2.33 2.34 2.35	Number of beds Overall Satisfaction Float  of which, domestic  of which, non Domestic	3.31 3.32 3.33 3.34	Overnights     of which, domestic Camping grounds, recreational vehicle parks and trailer parks     Armaia     of which, domestic     Overnights     of which, domestic		
Fotal   2.40   Tourists / population   Overall Satisfaction	Total  of visite, in winter  of which, in summer  Temperature:  Average of maximum temperature  of which, in winter  of which, in summer  Average of minimum temperature  of which, winter	2.31 2.32 2.33 2.34 2.35	Number of beds Overall Satisfaction  Fotal  of which, domestic  of which, non Domestic  Indicators  Indicators  Occupancy rate / rooms	3.31 3.32 3.33 3.34	Overnights of which downstic Camping grounds, recreational vehicle parks and trailer parks of which, downstic Overnights of of which, downstic Overnights of which, downstic Expenditure		
Forting   Section   Sect	Total  of Videk, in winter  of of which, in summer  Temperature:  A Average of maximum temperature  of of which, in summer  of which, in summer  A Average of minimum temperature  of of which, in summer  of which, in summer  Norther, of environmental certifications	2.31 2.32 2.33 2.34 2.35 2.36 2.37 2.38	Number of beds Overall Satisfaction  Flotal  of which, domestic  of which, non Domeste  Indicators Occupancy rate / rooms Occupancy rate / beds Average kengle of stay	3.31 3.32 3.33 3.34 3.35 3.36	Overnights of which downstic Camping grounds, recreational vehicle parks and trailer parks of which, downstic Overnights of of which, downstic Expenditure Total Domnstic Domnstic		
of which from recycling     Water consumption     Total     T	Total  of othick, in winter  of of whick, in summer  Temperature:  Average of maximum temperature  of whick, in winter  of whick, in summer  Average of minimum temperature  Average of minimum temperature  of othick, in winter  of of which, in summer  Number of environmental certifications  Waste production	2.31 2.32 2.33 2.34 2.35 2.36 2.37 2.38 2.39	Nimber of beds Overall Satisfaction  * of which, domestic  * of which, non Domestic  Indicators Occupancy rate / rooms Occupancy rate / beds Average length of stay Capacity ratis (beds per 1000 inhabitants)	3.31 3.32 3.33 3.34 3.35 3.36	Overhights     of which, domestic Camping grounds, recreational vehicle parks and trailer parks     Arminal     of which, domestic     Overnights     of which, domestic     Overnights     of which, domestic     Expenditure     Total     Obmestic     Obmestic		
Water consumption   3.42	Fotal     F	2.31 2.32 2.33 2.34 2.35 2.36 2.37 2.38 2.39	Nimber of beds Overall Satisfaction  * of which, domestic  * of which, non Domestic  Indicators Occupancy rate / rooms Occupancy rate / beds Average length of stay Capacity ratis (beds per 1000 inhabitants)	3.31 3.32 3.33 3.34 3.35 3.36 3.37 3.38 3.39	Overnights     of which, domestic Camping grounds, recreational vehicle parks and trailer parks     Armaia     of which, domestic     Overnights     of which, domestic     Overnights     Ownerstic     Ownerstic Owerstil Satisfaction		
Total   3.43 Intention to return	Total  of Nick, in winter  of which, in summer  Temperature:  Average of maximum temperature  of which, in winter  of which, in winter  of which, in summer  Average of minimum temperature  of which, in summer  Average of minimum temperature  of which, in summer  Number of emission uniter  of which, in summer  Waste production  of which, in four temperature  of which, in t	2.31 2.32 2.33 2.34 2.35 2.36 2.37 2.38 2.39	Nimber of beds Overall Satisfaction  * of which, domestic  * of which, non Domestic  Indicators Occupancy rate / rooms Occupancy rate / beds Average length of stay Capacity ratis (beds per 1000 inhabitants)	3.31 3.32 3.33 3.34 3.35 3.36 3.37 3.38 3.39	Overnights  of which, domestic  Camping grounds, recreational vehicle parks and trailer parks  of which, domestic  Overnights  of which, domestic  Overnights  of which, domestic  Expenditure  Total  Owen I Satis faction  Total  Total		
of which from twism sector     Energy consumption     Indicators     Indicators     Average size of fravel party     of which, from toursm sector     3.45 Average size of fravel group	Fotal     F	2.31 2.32 2.33 2.34 2.35 2.36 2.37 2.38 2.39	Nimber of beds Overall Satisfaction  * of which, domestic  * of which, non Domestic  Indicators Occupancy rate / rooms Occupancy rate / beds Average length of stay Capacity ratis (beds per 1000 inhabitants)	3.31 3.32 3.33 3.34 3.35 3.36 3.37 3.38 3.39	Overnights     Owhich, domestic Camping grounds, recreational vehicle parks and trailer parks     Arman     Owhich, domestic Overnights     Owhich, domestic Expenditure Total     Ownsetic Overnights     Owhich, domestic Overnights     Owhich, domestic Overnights     Ownights     Ownights     Ownights     Ownights     Ownights     Ownights Overnil Satisfaction Total Overnil Satisfaction Total		
Total     3.44 Average size of travel party     of which, from tourism sector     3.45 Average size of travel group	Fotal     F	2.31 2.32 2.33 2.34 2.35 2.36 2.37 2.38 2.39	Nimber of beds Overall Satisfaction  * of which, domestic  * of which, non Domestic  Indicators Occupancy rate / rooms Occupancy rate / beds Average length of stay Capacity ratis (beds per 1000 inhabitants)	3.31 3.32 3.33 3.34 3.35 3.36 3.39 3.40 3.41 3.42	Overnights  of which, domestic  Camping grounds, recreational vehicle parks and trailer parks  Armash  of which, domestic  Overnights  of which, domestic  Expenditure  Total  Overnights  Non Domestic  Overnights  Overnights  Overnights  Overnights  Overnights  Overnights  Overnights		
* of which, from tourism sector  3.45 Average size of travel group	Total  of Othich, in winter  of of which, in summer  Temperature:  Average of maximan temperature  of of which, in summer  of of which, in summer  Average of infinitum temperature  of othich, in summer  of of which, in summer  of of which, in summer  Total  of of which, in summer  Number of enviouncental certifications  Waste production  of othich, from tourism sector  of which, from tourism sector	2.31 2.32 2.33 2.34 2.35 2.36 2.37 2.38 2.39	Nimber of beds Overall Satisfaction  * of which, domestic  * of which, non Domestic  Indicators Occupancy rate / rooms Occupancy rate / beds Average length of stay Capacity ratis (beds per 1000 inhabitants)	3.31 3.32 3.33 3.34 3.35 3.36 3.39 3.40 3.41 3.42	Overnights  of which, domestic  Camping grounds, recreational vehicle parks and trailer parks  Armash  of which, domestic  Overnights  of which, domestic  Expenditure  Total  Overnights  Non Domestic  Overnights  Overnights  Overnights  Overnights  Overnights  Overnights  Overnights		
	Total  of Othich, in winter  of of which, in summer  Temperature:  Average of maximan temperature  of of which, in summer  of of which, in summer  Average of infinitum temperature  of othich, in summer  of of which, in summer  of of which, in summer  Total  of of which, in summer  Number of enviouncental certifications  Waste production  of othich, from tourism sector  of which, from tourism sector	2.31 2.32 2.33 2.34 2.35 2.36 2.37 2.38 2.39	Nimber of beds Overall Satisfaction  * of which, domestic  * of which, non Domestic  Indicators Occupancy rate / rooms Occupancy rate / beds Average length of stay Capacity ratis (beds per 1000 inhabitants)	3.31 3.32 3.33 3.34 3.35 3.36 3.39 3.40 3.41 3.42	Overnijds     of of which domestic Camping grounds, recreational vehicle parks and trailer parks O Armans     of of which, domestic O Vernijds     of of which, domestic Expenditure Total     Obermistic O Overnijd Satisfaction Total     Overnijds O Normatis O Overnijd Satisfaction Total O Domestic O New Bolomestic I Owen Bolomestic I Interior to return  O Non Domestic Interior to return		
	Total  of Othich, in winter  of of which, in summer  Temperature:  Average of maximan temperature  of of which, in summer  of of which, in summer  Average of infinitum temperature  of othich, in summer  of of which, in summer  of of which, in summer  Total  of of which, in summer  Number of enviouncental certifications  Waste production  of othich, from tourism sector  of which, from tourism sector	2.31 2.32 2.33 2.34 2.35 2.36 2.37 2.38 2.39	Nimber of beds Overall Satisfaction  * of which, domestic  * of which, non Domestic  Indicators Occupancy rate / rooms Occupancy rate / beds Average length of stay Capacity ratis (beds per 1000 inhabitants)	3.31 3.32 3.33 3.34 3.35 3.36 3.37 3.38 3.39 3.40 3.41 3.42 3.43	Overnights  of of which domestic  Camping grounds, recreational vehicle parks and trailer parks  of which domestic  Overnights  of which, domestic  Expenditure  Total  Owernights  Ower and Staffaction  Total  Ower and Staffaction  Total  Ower and Staffaction  Total  Indicators  Non Domestic  Non Domestic  Non Domestic  Indicators  Indicators  Indicators		

The following charts show availability percentages of the required tourism indicators, grouped by data section or by geographical level of administration.

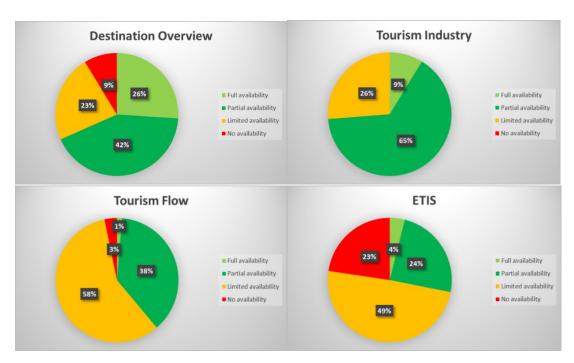


Figure 1 Data availability analysis based on data section

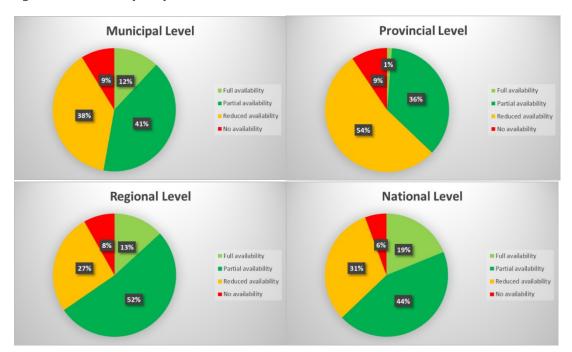


Figure 2 Data availability analysis based on geographical level

From the above charts it is obvious that Destination Overview and Tourism Industry sections have high data availability across most partner areas, while ETIS indicators have the lowest availability (28% full or partial availability). In terms of geographical area, the provincial level is the most problematic for data acquisition, while regional ana national levels appear to be quite high, with data availability (full and partial) well over 60%.

The following figures provide a more detailed view of available data per geographical administration level and data section. We observe a general increase in data availability as we move from local to national level across all data sections. The tourism industry

section is the only data category where there are no unavailable indices. ETIS indicators appear to be the least available, especially for local administration levels.

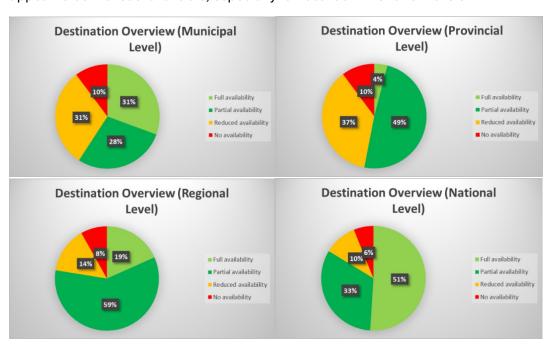


Figure 3 Destination overview data availability per geographical level



Figure 4 Tourism industry data availability per geographical level

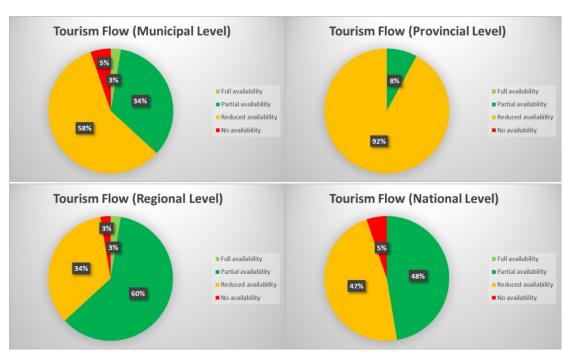


Figure 5 Tourism flow data availability per geographical level

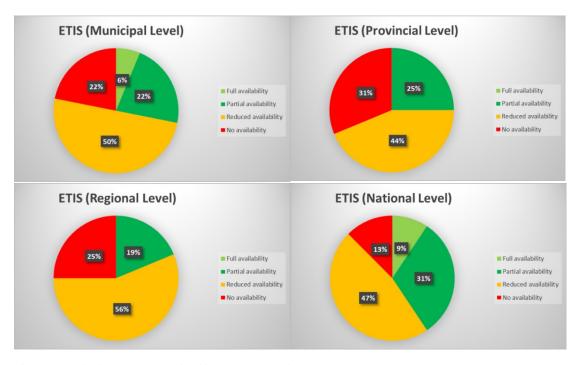


Figure 6 ETIS indicators data availability per geographical level

# 4.2. Web Data Availability

This chapter presents an overview of the availability of tourism related data that can be harvested online, using web scraping techniques. An introduction to cloud-based web scraping services is made, followed by a presentation of the selected web scraping platform that will be used for data retrieval. Further data related to meteorological conditions can also be retrieved using APIs. Preliminary testing of web scraping tools has led to an updated list of web data indices that are available for the up-scaled DMSS

platform. Finally, information on the pricing of web scraping tools required is presented in the last section of this chapter.

## 4.2.1. Web scraping using cloud services

A cloud-based web scraping platform offers numerous advantages over running scrapers on local machines or self-managed infrastructure, making it a preferred choice for many users. One of the primary benefits is scalability. These platforms are designed to handle large-scale scraping tasks effortlessly, whether extracting data from a few pages or millions across multiple websites. Resources like CPU, memory, and bandwidth are automatically scaled based on demand, allowing a focus on tasks without concerns about infrastructure limitations.

Another key advantage is the lack of infrastructure management. Cloud-based solutions eliminate the need to set up servers or maintain hardware. All aspects, from system updates to troubleshooting failures, are handled by the platform, freeing users from the complexities of server maintenance. This ease of use also extends to cost efficiency, as cloud services operate on a pay-as-you-go model, meaning payment is only required for the resources used. This flexibility avoids the upfront costs of purchasing hardware and prevents resource over-provisioning to manage potential usage spikes.

Reliability is another significant benefit. Cloud platforms offer fault tolerance and redundancy, ensuring scrapers can run 24/7 without interruptions, even in the event of hardware failures or unexpected traffic surges. The global reach of many cloud platforms also enhances performance, with data centers located worldwide allowing deployment of scrapers from different regions, bypassing geo-restrictions, and accessing localized content with ease, reducing latency and speeding up operations.

For tasks requiring automation, cloud platforms come with built-in scheduling and task automation. Scrapers can be set to run daily, weekly, or at any custom interval, making these platforms ideal for monitoring websites for changes, tracking prices, or collecting time-sensitive data without the need for manual intervention.

Collaboration is another benefit provided by cloud-based solutions. Teams can work together seamlessly by sharing access to scrapers and data in real-time. Since the data is stored in the cloud, it remains accessible from anywhere, facilitating smooth and efficient collaboration.

Cloud platforms often offer advanced tools and pre-built scrapers. Ready-made scrapers for common websites like Amazon, Google, or social media platforms can be accessed, eliminating the need to start from scratch. For more advanced needs, these platforms offer the flexibility to build custom scrapers tailored to specific requirements.

Compliance is another area where cloud platforms excel. Many include tools to ensure that scraping activities follow legal guidelines, such as adhering to a website's robots.txt file or managing rate limits to avoid detection and blocking. Additionally, these platforms provide secure data storage and processing, enabling efficient management of large volumes of data, including cleaning, structuring, and storing it in formats like CSV, JSON, or SQL databases directly in the cloud.

Built-in proxy management is another critical feature offered by cloud-based platforms. It helps avoid IP blocking by rotating proxies and distributing traffic across

different IP addresses. Some platforms even provide geo-specific proxies, allowing localized content to be scraped while bypassing geo-restrictions.

Security is also a significant advantage of cloud-based platforms. They often implement encryption for data in transit and at rest, ensuring the security of scraped data. Features like user authentication and access controls protect scrapers and data from unauthorized access.

Cloud platforms also excel in error handling. Many include automated retries, error logging, and real-time monitoring, ensuring immediate notification if a scraper encounters issues, such as CAPTCHA challenges or changes in the target website structure. This reduces downtime and keeps scrapers operational.

In summary, cloud-based web scraping platforms provide a scalable, cost-effective, and reliable solution for data extraction. By eliminating the need for infrastructure management, offering automated tools, ensuring robust security, and handling errors efficiently, these platforms streamline the entire web scraping process. Whether managing small-scale tasks or large-scale data extraction, cloud-based platforms simplify and enhance the scraping experience for organizations and individuals alike.

#### The Apify cloud platform

Apify (https://apify.com/) is a web scraping and automation platform that allows users to extract data from websites, process it, and automate web-based tasks. It provides tools for building, running, and managing web scrapers, bots, and other automation workflows. Some key features of Apify include:

- Web Scraping: Apify offers a powerful infrastructure for scraping data from websites. You can create custom scrapers (called Actors in Apify) that can navigate websites, extract data, and store it in structured formats like JSON or CSV.
- 2. **Pre-built Scrapers**: Apify has a marketplace with pre-built scrapers for popular websites (like Amazon, Instagram, and Google Maps), making it easy to collect data with minimal effort.
- 3. **Automation**: Apify can automate repetitive tasks, such as filling out forms, logging into accounts, or scheduling posts on social media platforms.
- Cloud Infrastructure: Apify platform runs in the cloud, so users do not need to manage their own servers. It handles scaling, scheduling, and error handling for scraping tasks.
- 5. **API Integration**: Apify provides an API that allows you to integrate scraping and automation workflows into your own applications.
- 6. **Customizable with JavaScript**: While Apify has no-code solutions, advanced users can write custom scrapers and automation scripts in JavaScript using its Actor SDK.

Overall, Apify is widely used for data extraction, monitoring competitors, lead generation, price tracking, and other tasks that involve interacting with web-based systems.

Apify Actors are serverless cloud programs designed to perform specific tasks on the Apify platform, such as web scraping, data extraction, or automation workflows. These actors can run scripts in various programming languages (like JavaScript, Python) and are highly customizable, allowing users to automate processes such as scraping websites, transforming data, interacting with APIs, or running complex automation jobs.

A single isolated Actor consists of source code and various settings. An Actor can be considered as a cloud app or service that runs on the Apify platform. The run of an Actor is not limited to the lifetime of a single HTTP transaction. It can run for as long as necessary, even forever.

Basically, Actors are programs packaged as Docker images, which accept a well-defined JSON input, perform an action, and optionally produce an output.

#### **Key Features of Apify Actors:**

- Task Automation: Actors can be programmed to automate almost any repetitive task, from web scraping to interacting with external APIs, managing workflows, or processing large datasets.
- 2. **Customizable**: Each actor is built with custom code, allowing flexibility to suit various use cases. They can be tailored to specific tasks like scraping dynamic websites, managing databases, or processing text.
- 3. **Scalability**: Actors run in the Apify cloud, enabling them to handle jobs of any scale, from simple one-time tasks to complex, large-scale data collection operations involving millions of pages.
- 4. **Scheduling**: Actors can be scheduled to run periodically, making them perfect for tasks that require continuous data monitoring or time-sensitive workflows, such as scraping real-time price changes or content updates.
- 5. **Input and Output**: Actors take inputs (such as URLs, API keys, or search parameters) and produce outputs (like data in JSON, CSV, or XML formats). They can be configured to store results in databases or cloud storage.
- 6. **Integrations**: Apify Actors can integrate with various third-party services like Google Sheets, Dropbox, or AWS, enabling seamless data flow between platforms and simplifying data processing and management.

The Apify platform allows for complete control through a REST API, which is detailed in the API Reference (https://docs.apify.com/api/v2). For users looking to access the Apify API using JavaScript/Node.js or Python, there are two official API clients:

- apify-client NPM package for JavaScript, compatible with both browser and server environments.
- apify-client PyPI package for Python.

While it is not mandatory to use these packages since the REST API is compatible with any HTTP client, the official API clients incorporate best practices, including exponential backoff and rate limiting.

Apify's pricing model for **Actors** (the custom web scrapers, bots, and automation scripts) is based on several factors, including resource usage, plan tiers, and additional usage beyond the plan's limits. The core of the pricing model revolves around **Actor compute units** (**CUs**), storage, and data transfer:

- **Compute Units**: The more resource-intensive an Actor or task is, the more CUs it will use.
- **Storage**: If the data extraction requires storing large volumes of data for extended periods, a need for upgrading the pricing plan or paying for extra storage might arise.
- **Data Transfer**: Scraping large websites with lots of data may require more bandwidth. Going beyond the plan's data transfer limit can incur extra costs.

Apify offers different subscription plans tailored to different levels of usage. Each plan includes a certain number of compute units, storage, and data transfer limits. Moreover, for users who exceed the limits of their plan, Apify offers a pay-as-you-go model, that allows you to purchase additional compute units as needed.

Three pricing models are offered for utilizing pre-built web scrapers, automation tools, or bots developed by third-party creators. These models include "Pay per result," "Pay per usage," and "Rental", as depicted in the following table. Each model caters to different use cases and pricing strategies depending on the type of Actor and how it is used.

Table 11	Comparison	of pricing n	nodels on .	Apify platform

Model	Pricing Basis	Best Use Cases	Advantages
Pay per Result	Data extracted	Specific quantities of data needed (e.g., product listings, reviews)	Predictable costs, only pay for useful data
Pay per Usage	Compute Units (CUs)	Complex tasks, large data sets, unpredictable data volumes	Flexible, scales with resource consumption
Rental	Time-based (daily, weekly, monthly)	Frequent or regular scraping/automation tasks	Fixed costs, ideal for ongoing projects

Here is a detailed breakdown of each model:

#### 1. Pay per Result

In this model, payment is based on the number of results or data points the Actor extracts or returns. The pricing depends on the amount of data the Actor collects rather than how long or how often the Actor runs.

- **How it works**: After running the Actor, you are charged for each piece of data or result extracted. For example, if you are using an Actor to scrape e-commerce product data, you may be charged for each product listing retrieved.
- Best for: Users who need specific quantities of data and want predictable pricing based on the number of results, such as those collecting product details, reviews, or business listings.

- Advantages: This model is beneficial when you only need to scrape a fixed amount of data, making costs easy to control since you only pay for the actual data received.
- **Example**: Scraping 1,000 listings from a real estate site may cost \$0.05 per listing, so you would pay \$50 for 1,000 results.

#### 2. Pay per Usage

This model charges based on the Actor's resource usage during its run, typically measured in **Compute Units (CUs).** The fee is for the actual amount of processing power the Actor consumes during the task, regardless of the results.

- **How it works**: You are billed based on how long the Actor runs, how many resources (CUs) it uses, or the amount of data it processes. Compute Unit consumption is tied to the complexity of the task, such as the size of the website being scraped or the amount of data being processed.
- **Best for**: Users with unpredictable or fluctuating workloads, such as those needing to scrape dynamic websites or handle large datasets where results are not the primary focus but rather the intensity of the task.
- Advantages: This model suits users with larger-scale operations where the amount of data retrieved may vary, and pricing is tied to resource consumption, providing more flexibility in complex tasks.
- **Example**: Running an Actor that scrapes a website for a few hours might use 3 Compute Units (CUs), and if each CU costs \$1, the total cost \$3 for the run.

#### 3. Rental

In the rental model, users essentially "rent" the Actor for a specific period (e.g., daily, weekly, or monthly) and can use it without limitations during that time. A flat fee is paid for access to the Actor during the rental period, regardless of how often or how much it is used. However, it must be noted that most of the actors that actors that are offered under this model require additional payment for the usage according to the second pricing model.

- How it works: A fixed fee is charged for a defined period, typically granting
  unlimited or extensive access to the Actor for the duration. The Actor can be run
  as many times as needed without worrying about per-run costs or resource
  usage.
- Best for: Users who have frequent or regular scraping tasks and prefer a
  predictable, all-inclusive cost structure. This model works well for companies
  that need to collect data consistently over time, such as daily monitoring or
  competitive intelligence scraping.
- **Advantages**: Predictable, fixed costs make budgeting easier, especially for businesses that rely on regular scraping or automation workflows.
- **Example**: Renting a social media scraper for \$100/month, allows to scrape posts or profiles multiple times during the month without additional charges.

## 4.2.2. Gathering data from web APIs

Web APIs are essential for developing effective decision support systems in the tourism industry, specifically for professionals managing operations and planning. By integrating weather forecasting APIs, tourism managers can access real-time weather data, which aids in making informed decisions about scheduling tours, staffing, and resource allocation. For example, if a severe weather alert is issued, managers can quickly adjust itineraries or inform clients, ensuring safety and enhancing customer satisfaction.

Furthermore, APIs that provide information about the areas of interest can be invaluable for tourism professionals. These APIs can offer data on visitor statistics, maintenance schedules, and cultural significance, enabling managers to assess demand and optimize marketing strategies. By combining insights from weather forecasts and further information, a platform can help tourism operators identify trends, allocate resources efficiently, and enhance overall operational effectiveness. This data-driven approach leads to more strategic decision-making and improved service delivery in the tourism sector.

#### Windy

Windy.com is a weather forecasting and visualization platform that provides users with detailed information about weather conditions worldwide. It features interactive maps displaying various meteorological data, including wind speed and direction, temperature, precipitation, and cloud cover. Users can customize the visualizations by selecting different layers and parameters to suit their needs.

Furthermore, Windy also provides three APIs for incorporating its data to third party applications: These APIs are:

- Point forecast API: Point forecast enables the user to obtain machine-readable data regarding the weather forecast for a specified set of coordinates (e.g.: temperature for 49.123 / 15.008 or wind for -18.321 / 20 at the altitude of 250h). Point forecast returns exclusively the most recent forecast values. It is not possible to retrieve historical forecasts with past data. The response always contains all specified parameters (e.g., temperature, pressure etc.) from a specified forecast model, along with the entire available forecast for the following days.
- Map forecast API: Map Forecast API is a simple-to-use library based on Leaflet<sup>2</sup> 1.4.x. It allows developers to use everything Leaflet or JavaScript offers, along with the Windy map visualizations used at Windy.com. The Map Forecast API lets developers customize Windy map visualizations with their own content and imagery for display on web pages and mobile devices. The Map Forecast API features layers, particles, legend, picker, and isolines, as well as basic controls and the map. Everything displayed can be chosen and modified using styles, controls and events, and various libraries.

<sup>&</sup>lt;sup>2</sup> https://leafletjs.com/

 Webcams API: Webcams API provides access to the largest repository of webcams worldwide. The webcams can be filtered based on criteria such as country, category, location, and more. Each webcam includes information about its location, preview images, timelapses, and more.

#### Wikimedia

The Wikimedia API is a set of APIs provided by the Wikimedia Foundation that allows developers to access and interact with the vast amount of content hosted on Wikimedia projects, such as Wikipedia, Wikimedia Commons, and Wiktionary.

The Wikimedia API has multiple endpoints, including:

- **Action API**: For retrieving and modifying content, as well as performing specific actions like search or upload.
- Query API: For retrieving specific data sets, such as page content, user contributions, and more.
- Sitemaps and feeds: For accessing structured data about pages and media.

These endpoints offer a plethora of features and functionalities. These are summarized and categorized in the following list:

- Content Retrieval: The API enables users to retrieve articles, images, and other
  media from Wikimedia projects. Developers can query specific pages, extract
  text, and access structured data.
- **Search Functionality**: The API includes search capabilities, allowing users to find articles, media files, and categories based on keywords or other criteria.
- **Metadata Access**: Developers can access metadata for articles, including page views, edit history, and contributor information, which can be useful for analytics and research purposes.
- **Edit and Contribution Tools**: The API supports editing capabilities, enabling authenticated users to contribute to Wikipedia and other projects programmatically. This includes creating, updating, and deleting content.
- **Structured Data**: The API provides access to structured data from Wikimedia Commons and Wikidata, making it easier for developers to incorporate detailed and interlinked information into their applications.
- Language Support: The Wikimedia API supports multiple languages, allowing users to retrieve content in various linguistic versions of articles.

It is important to note that the API has rate limits to ensure fair usage and prevent abuse. Developers must adhere to the Wikimedia Foundation usage policies when utilizing the API.

## 4.2.3. Web data availability for the Tourism section

Due to the nature of web scraping, queries that are confined in smaller geographical areas are more effective. This practically means that all the gathered data are at a city

level at most and need to be aggregated to acquire information at a regional or national level.

The following table depicts the available information that can be collected by scraping actors from the most popular platforms in the tourism section. The potential information that can be collected from the web extends to the initial TIDSS dataset. In the table below, the new information is highlighted with purple and with orange are the data that has been adapted to the current data schema of the web sites.

It must be noted that scraping information about prices or availability (whenever this is possible) mandates the specification of a specific period for booking. This requires normalization of prices and availability requests to pre-defined time periods that will provide valuable statistical information reducing retrieval task complexity and cost. Furthermore, these scraping tasks need to be run periodically to detect changes related to the establishments. The frequency of the runs depends on the nature of the information that must be retrieved (e.g.: the room availability changes constantly whereas the description of an establishment is scarcely updated).

Table 12 Available dataset from web scraping

* Of which, hotel  * Of which, in apartments  Description  * Of which, hotel  * Of which, in apartments  Adress  * Of which, hotel  * Of which, in apartments  Stars rating  * Of which, hotel  Average Score  * Of which, hotel  * Of which, in apartments  Number of reviews  * Of which, hotel  * Of which, in apartments  Category reviews  * Of which, in apartments  Price  * Of which, in apartments  Price  * Of which, hotel  * Of which, in apartments  Price  * Of which, in apartments  Availability	Booking.com
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Average Score  * Of which, hotel  * Of which, in apartments  • Number of reviews  * Of which, hotel  * Of which, in apartments  • Category reviews  • Of which, hotel  • Of which, in apartments  • Price  • Of which, hotel  • Of which, in apartments  • Price  • Of which, in apartments  • Availability	♦Stars rating
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* Of which, in apartments  Number of reviews  * Of which, hotel  * Of which, in apartments  Category reviews  * Of which, hotel  * Of which, in apartments  Price  * Of which, hotel  * Of which, in apartments  Availability	♦ Average Score
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Of which, hotel Of which, in apartments Availability	* Of which, in apartments
Of which, in apartments  Availability	♦Price
Availability	* Of which, hotel
	* Of which, in apartments
Of which, hotel	♦ Availability
	* Of which, hotel
Of which, in apartments	* Of which, in apartments

Tripadvisor.com
♦ Number of establishments
* Of which, hotel
* Of which, vacation rentals
♦ Food and beverage serving activities
♦ Attractions
♦ Contact details (address, telephone number)
* Of which, hotel
* Of which, restaurants
* Of which, in vacation rental
* Of which, in attractions
♦ Price level (in classes e.g., "cheap," "expensive")
* Of which, hotel
* Of which, restaurants
* Of which, in vacation rental
* Of which, in attractions
♦ Average Score
* Of which, hotel
* Of which, restaurants
* Of which, in vacation rental
* Of which, in attractions
♦Number of reviews
* Of which, hotel
* Of which, restaurants
* Of which, in vacation rental
* Of which, in attractions
♦ Ranking
* Of which, hotel
* Of which, restaurants
* Of which, in vacation rental
* Of which, in attractions
AirB&B.com
Number of establishments
* Of which, sharing rooms
* Of which, full apartments
Number of reviews
* Of which, sharing rooms
* Of which, full apartments
♦ Average Rating
* Of which, sharing rooms
* Of which, full apartments
♦ Description
* Of which, sharing rooms

* Of which, full apartments
♦Price
* Of which, sharing rooms
* Of which, full apartments
♦Location (coordinates)
* Of which, sharing rooms
* Of which, full apartments
Google Places
♦ Number of places
* Of which, hotels
* Of which, restaurants
* Of which, museums
* Of which, <u>other<sup>3</sup></u>
♦ Number of reviews
* Of which, hotels
* Of which, restaurants
* Of which, museums
* Of which, <u>other</u>
♦ Average Rating
* Of which, hotels
* Of which, restaurants
* Of which, museums
* Of which, <u>other</u>
♦ Contact details (address, telephone number)
* Of which, hotels
* Of which, restaurants
* Of which, museums
* Of which, <u>other</u>
♦Website
* Of which, hotels
* Of which, restaurants
* Of which, museums
* Of which, <u>other</u>
Windy.com (or another meteorological site)
♦ Weather forecast
* Temperature
* Humidity
* Wind
* Rain
♦Weather historical data
* Temperature

<sup>3</sup> complete list: <a href="https://developers.google.com/maps/documentation/places/web-service/supported\_types">https://developers.google.com/maps/documentation/places/web-service/supported\_types</a>

\* Humidity

\* Wind

\* Rain

Wikimedia

Demographics

\* Area

\* Population

\* Human Development Index (HDI)

\* Coordinates

\* Municipality

\* Gross domestic product (GDP)

# 4.3. Sustainability Data Availability

Following the same methodology as in 4.1, the availability of the additional to TIDSS information was estimated by a combined effort of all the partners that will lead a use-case in the pilots. For each of the geographical/administrative categorisation (local, regional, national), the availability of the data was examined in each pilot, forming a clustering of each data parameters to the four – color ranking. The results are depicted in the following tables.

Table 13: Additional data for sustainability availability in destination level

6	Sustainability related data
6.1	Air quality alert
6.2	Average duration of contamination events
6.3	Average waste volume per visitor
6.4	Energy Consumption
6.5	Energy Consumption per Accomodation
6.6	Fire alert
6.7	Georeferenced data (GIS digital data) including accessible infrastructure (beaches, parks, and public facilities) and accommodations (coordinates, type of accessible facility).
6.8	Georeferenced data (GIS digital data) including cycling routes, pedestrian paths, and bike parking locations.
6.9	Marine water temperature
6.10	Number of active conservation projects
6.11	Percentage of separated waste
6.12	Recycling volumes
6.13	Snow alert
6.14	Tourist feedback on accessibility
6.15	Tourist satisfaction with enviromental practices
6.16	Water Consuption
6.17	Water Consuption per Accomodation
6.18	Water quality alert
6.19	Water quality indicators

Table 14: Additional data for sustainability availability in regional level

6	Sustainability related data
6.1	Air quality alert
6.2	Average duration of contamination events
6.3	Average waste volume per visitor
6.4	Energy Consumption
6.5	Energy Consumption per Accomodation
6.6	Fire alert
6.7	Georeferenced data (GIS digital data) including accessible infrastructure
	(beaches, parks, and public facilities) and accommodations (coordinates, type of accessible facility).
6.8	Georeferenced data (GIS digital data) including cycling routes, pedestrian
0.0	paths, and bike parking locations.
6.9	Marine water temperature
6.10	Number of active conservation projects
6.11	Percentage of separated waste
6.12	Recycling volumes
6.13	Snow alert
6.14	Tourist feedback on accessibility
6.15	Tourist satisfaction with enviromental practices
6.16	Water Consuption
6.17	Water Consuption per Accomodation
6.18	Water quality alert
6.19	Water quality indicators

Table 15: Additional data for sustainability availability in national level

6	Sustainability related data
6.1	Air quality alert
6.2	Average duration of contamination events
6.3	Average waste volume per visitor
6.4	Energy Consumption
6.5	Energy Consumption per Accomodation
6.6	Fire alert
6.7	Georeferenced data (GIS digital data) including accessible infrastructure
	(beaches, parks, and public facilities) and accommodations (coordinates,
	type of accessible facility).
6.8	Georeferenced data (GIS digital data) including cycling routes, pedestrian
	paths, and bike parking locations.
6.9	Marine water temperature
6.10	Number of active conservation projects
6.11	Percentage of separated waste
6.12	Recycling volumes
6.13	Snow alert
6.14	Tourist feedback on accessibility

6.15	Tourist satisfaction with enviromental practices
6.16	Water Consuption
6.17	Water Consuption per Accomodation
6.18	Water quality alert
6.19	Water quality indicators

The data availability for monitoring accessibility is robust at both the local and regional levels. At the local level, comprehensive information is available on municipal transport systems and pedestrian infrastructure, allowing detailed analysis of specific urban areas. Similarly, at the regional level, data is accessible for larger geographical areas, offering insights into interconnectivity and transport standards across multiple municipalities. However, at the national level, the lack of integrated data presents a challenge, limiting the ability to perform broad, country-wide accessibility assessments.

Data availability for sustainable mobility is well-documented at the local level, with detailed records of municipal cycling and pedestrian pathways. This enables policymakers to evaluate the density and quality of infrastructure within specific communities. At the regional level, aggregated data helps assess broader trends and infrastructure gaps. However, at the national level, there is currently no centralized database, which hinders the capacity to evaluate sustainable mobility comprehensively across the country

For assessing social sustainability, data is widely available at the local level, particularly regarding accessible accommodations and public amenities. Municipalities often maintain detailed records, which serve as a critical resource for evaluating inclusivity within their boundaries. At the regional level, data aggregation offers a broader perspective on accessibility trends across multiple areas. However, at the national level, the absence of a centralized accessibility database limits the ability to perform overarching analyses and benchmark inclusivity across the country.

Energy and water consumption data is readily available at the local level, enabling targeted analysis of individual accommodations. This granular data is crucial for identifying opportunities for efficiency improvements. At the regional level, data aggregation provides insights into consumption patterns across broader areas, informing regional conservation strategies. Unfortunately, at the national level, data integration remains incomplete, which hampers the ability to develop nationwide conservation policies.

The availability of data on marine resources is strong at the local level, where municipalities often monitor specific conservation projects and water quality indicators. At the regional level, aggregated data helps track broader trends, such as biodiversity health and pollution levels across coastal areas. However, at the national level, integrated data on marine resources is not yet established, creating challenges for comprehensive marine management.

Data on mountain resources is well-documented at the local level, with municipalities tracking conservation efforts and ecosystem health. Regional data further enhances understanding by providing a broader view of trends and challenges in mountain areas. Unfortunately, at the national level, the lack of integrated data limits the ability to implement cohesive strategies for preserving mountain ecosystems.

Tourist flow data is available at the local level, with specific sites tracking visitor numbers and density. Regional aggregation helps identify broader patterns and supports the implementation of measures to distribute visitors more evenly. However, at the national level, the lack of a centralized tourist flow database hinders comprehensive planning and management.

Data for interregional comparisons is accessible at both the local and regional levels, allowing for meaningful benchmarking and the identification of areas for improvement. However, at the national level, the absence of centralized sustainability data limits the capacity to perform comprehensive analyses and adopt national-level best practices

The economic impact of tourism is well-documented at the local level, where municipalities often track tourism's contribution to employment and GDP. Regional data aggregation provides a broader perspective, helping to evaluate trends and identify areas for investment. However, at the national level, the lack of comprehensive data limits the ability to assess the full economic impact of sustainable tourism policies.

# 5. DMSS Data Model for the new services

#### 5.1. DMSS Available Data

Based on the preliminary data availability check, as described in this report, a tourism data indices screening is performed. Data indices with no or extremely low availability are excluded from the data entry system, as there is no potential for information harvesting from these indicators. Based on this approach, a new reduced set of data indices is selected for use with the statistical and machine learning tools that will be integrated in the platform. All data indices with no availability per geographical level have been removed. Since there is a different level of data availability across several indices between different partner territories, the DMSS platform will offer a selection of results to each partner, tailored to their available raw data. A subtotal of integrated services will be presented to partner areas with low data availability, whereas the full potential of the platform will be available for areas with more available indices.

#### The complete data model is presented in detail in Appendix B.

## 5.2. Mapping indices to new DMSS services

The up-scaled DMSS platform will serve users with new features via modules that can offer predictive capabilities and present valuable insights that can help decision makers operate in a data-driven, informed way. The new DMSS services are targeted at two different stakeholder groups: policy makers involved in tourism industry governance and decision-makers regarding their commercial planning, service quality and marketing actions. The platform modules will offer the following services to policy makers:

- Monitoring accessibility of tourist destinations via public transport and sustainable travel options
- Supporting sustainable mobility and infrastructure for cycling and walking
- Assessing social sustainability: accessibility for disabled persons and families
- Monitoring energy and water consumption in accommodation facilities
- Managing and monitoring waste separation
- Monitoring and managing the blue economy and marine resources
- Analyzing tourist flows to prevent overcrowding and resource degradation
- Measuring tourist satisfaction and loyalty with environmental practices
- Interregional Comparison of Sustainability Data
- Measuring the Economic Impact of Sustainable Tourism Policies

The DMSS will offer the following services to decision makers to assist them in their commercial and marketing planning:

- Visitor arrival predictions
- Visitor segmentation analysis
- Visitor feedback and reviews
- Destination feedback and Sentiment analysis

To facilitate the further development of the up-scaled DMSS platform, a grouping of the selected tourism data indices is performed. All data indicators are grouped into 4 data

pools that are related to the new modules mentioned above. This grouping aims to organize data into groups that can be analyzed together in a structured manner and provide the required information for the users. This grouping of data is presented in the following sections.

## 5.2.1. Data related to new services for policy makers

The following table presents the dataset from the set of available indicators that will facilitate the analysis required for the policy maker services of the enhanced DMSS.

Table 16 Policy maker services dataset

POLICY MAKER SERVICES DATASET			
	1.	DESTINATION OVERVIEW	
	1.14	International Airports	
	1.18	Seaports	
Manianing an activities of	1.21	Number of establishments accessible for	
Monitoring accessibility of tourist destinations via		people with disabilities	
public transport and	1.26	* Of which, number of accessible Airports	
sustainable travel options	1.27	* Of which, number of accessible Train	
		Stations	
	1.28	* Of which, number of accessible Coaches	
		Stations	
	1.29	* Of which, number of accessible Seaports	
	5.	ETIS	
	5.23	Tourists and same day visitors using different	
Supporting sustainable		modes of transport to arrive at the	
mobility and infrastructure		destination	
for cycling and walking	5.24	Tourists and same day visitors using	
		local/soft mobility/public transport services to get around the destination	
	1.	DESTINATION OVERVIEW	
	1.21	Number of establishments accessible for	
	1.21	Number of establishments <u>accessible for</u> <u>people with disabilities</u>	
	1.21 1.26	Number of establishments accessible for people with disabilities  * Of which, number of accessible Airports	
	1.21	Number of establishments accessible for people with disabilities  * Of which, number of accessible Airports  * Of which, number of accessible Train	
	1.21 1.26	Number of establishments accessible for people with disabilities  * Of which, number of accessible Airports  * Of which, number of accessible Train Stations	
	1.21 1.26 1.27	Number of establishments accessible for people with disabilities  * Of which, number of accessible Airports  * Of which, number of accessible Train	
Assessing social	1.21 1.26 1.27	Number of establishments accessible for people with disabilities  * Of which, number of accessible Airports  * Of which, number of accessible Train Stations  * Of which, number of accessible Coaches	
sustainability: accessibility	1.21 1.26 1.27 1.28	Number of establishments accessible for people with disabilities  * Of which, number of accessible Airports  * Of which, number of accessible Train Stations  * Of which, number of accessible Coaches Stations	
sustainability: accessibility for disabled persons and	1.21 1.26 1.27 1.28 1.29	Number of establishments accessible for people with disabilities  * Of which, number of accessible Airports  * Of which, number of accessible Train Stations  * Of which, number of accessible Coaches Stations  * Of which, number of accessible Seaports	
sustainability: accessibility	1.21 1.26 1.27 1.28 1.29	Number of establishments accessible for people with disabilities  * Of which, number of accessible Airports  * Of which, number of accessible Train Stations  * Of which, number of accessible Coaches Stations  * Of which, number of accessible Seaports  TOURISM INDUSTRY	
sustainability: accessibility for disabled persons and	1.21 1.26 1.27 1.28 1.29	Number of establishments accessible for people with disabilities  * Of which, number of accessible Airports  * Of which, number of accessible Train Stations  * Of which, number of accessible Coaches Stations  * Of which, number of accessible Seaports  TOURISM INDUSTRY  Number of establishments accessible for	
sustainability: accessibility for disabled persons and	1.21 1.26 1.27 1.28 1.29 2.	Number of establishments accessible for people with disabilities  * Of which, number of accessible Airports  * Of which, number of accessible Train Stations  * Of which, number of accessible Coaches Stations  * Of which, number of accessible Seaports  TOURISM INDUSTRY  Number of establishments accessible for people with disabilities	
sustainability: accessibility for disabled persons and	1.21 1.26 1.27 1.28 1.29 2.	Number of establishments accessible for people with disabilities  * Of which, number of accessible Airports  * Of which, number of accessible Train Stations  * Of which, number of accessible Coaches Stations  * Of which, number of accessible Seaports  * Of which, number of accessible Seaports  * TOURISM INDUSTRY  Number of establishments accessible for people with disabilities  Total  * Of which, Hotel and similar accommodations	
sustainability: accessibility for disabled persons and	1.21 1.26 1.27 1.28 1.29 2.	Number of establishments accessible for people with disabilities  * Of which, number of accessible Airports  * Of which, number of accessible Train Stations  * Of which, number of accessible Coaches Stations  * Of which, number of accessible Seaports  TOURISM INDUSTRY  Number of establishments accessible for people with disabilities  Total  * Of which, Hotel and similar accommodations  * Of which, Holiday and other short-stay	
sustainability: accessibility for disabled persons and	1.21 1.26 1.27 1.28 1.29 2. 2.12 2.13	Number of establishments accessible for people with disabilities  * Of which, number of accessible Airports  * Of which, number of accessible Train Stations  * Of which, number of accessible Coaches Stations  * Of which, number of accessible Seaports  * Of which, number of accessible Seaports  * Of which, number of accessible For people with disabilities  Total  * Of which, Hotel and similar accommodations  * Of which, Holiday and other short-stay accommodation	
sustainability: accessibility for disabled persons and	1.21 1.26 1.27 1.28 1.29 2.	Number of establishments accessible for people with disabilities  * Of which, number of accessible Airports  * Of which, number of accessible Train Stations  * Of which, number of accessible Coaches Stations  * Of which, number of accessible Seaports  TOURISM INDUSTRY  Number of establishments accessible for people with disabilities  Total  * Of which, Hotel and similar accommodations  * Of which, Holiday and other short-stay	

	0.40	+ Of which Food and become a coming
	2.16	* Of which, Food and beverage serving
	2.17	activities  * Of which, Museums
		•
	2.18	* Of which, Themes Parks
	2.19	* Of which, Archaeological sites
	2.20	* Of which, other tourism attractions
	5.	ETIS
	5.2	Tourists that are satisfied with their overall
		experience in the destination
	5.13	Residents who are satisfied with tourism in
		the destination (per month/season)
	5.20	Public transport that is accessible to people
		with disabilities and with specific access
		requirements
	1.	DESTINATION OVERVIEW
		Water consumption
	1.48	♦ Total
		Energy consumption
	1.50	♦ Total
	2.	TOURISM INDUSTRY
		Accommodation for visitors in hotels and
		similar establishments
		Hotel and similar accommodations
	2.21	♦ Total
	5.	ETIS
	1 5 25	i Tourism enternises involved in climate
Monitoring energy and	5.25	Tourism enterprises involved in climate change mitigation schemes—such as: CO2
Monitoring energy and water consumption in	5.25	change mitigation schemes—such as: CO2
	5.25	change mitigation schemes—such as: CO2 offset, low energy systems, etc.—and
water consumption in	5.25	change mitigation schemes—such as: CO2 offset, low energy systems, etc.—and "adaptation" responses and actions
water consumption in accommodation facilities		change mitigation schemes—such as: CO2 offset, low energy systems, etc.—and
water consumption in accommodation facilities		change mitigation schemes—such as: CO2 offset, low energy systems, etc.—and "adaptation" responses and actions Water consumption per tourist night
water consumption in accommodation facilities		change mitigation schemes—such as: CO2 offset, low energy systems, etc.—and "adaptation" responses and actions Water consumption per tourist night compared to general population water
water consumption in accommodation facilities	5.28	change mitigation schemes—such as: CO2 offset, low energy systems, etc.—and "adaptation" responses and actions Water consumption per tourist night compared to general population water consumption per resident night Tourism enterprises taking actions to reduce water consumption
water consumption in accommodation facilities	5.28	change mitigation schemes—such as: CO2 offset, low energy systems, etc.—and "adaptation" responses and actions  Water consumption per tourist night compared to general population water consumption per resident night  Tourism enterprises taking actions to reduce water consumption  Energy consumption per tourist night
water consumption in accommodation facilities	5.28	change mitigation schemes—such as: CO2 offset, low energy systems, etc.—and "adaptation" responses and actions Water consumption per tourist night compared to general population water consumption per resident night Tourism enterprises taking actions to reduce water consumption Energy consumption per tourist night compared to general population energy
water consumption in accommodation facilities	5.28 5.29 5.30	change mitigation schemes—such as: CO2 offset, low energy systems, etc.—and "adaptation" responses and actions Water consumption per tourist night compared to general population water consumption per resident night Tourism enterprises taking actions to reduce water consumption Energy consumption per tourist night compared to general population energy consumption per resident night
water consumption in accommodation facilities	5.28	change mitigation schemes—such as: CO2 offset, low energy systems, etc.—and "adaptation" responses and actions  Water consumption per tourist night compared to general population water consumption per resident night  Tourism enterprises taking actions to reduce water consumption  Energy consumption per tourist night compared to general population energy consumption per resident night  Tourism enterprises that take actions to
water consumption in accommodation facilities	5.28 5.29 5.30 5.31	change mitigation schemes—such as: CO2 offset, low energy systems, etc.—and "adaptation" responses and actions  Water consumption per tourist night compared to general population water consumption per resident night  Tourism enterprises taking actions to reduce water consumption  Energy consumption per tourist night compared to general population energy consumption per resident night  Tourism enterprises that take actions to reduce energy consumption
water consumption in accommodation facilities	5.28 5.29 5.30	change mitigation schemes—such as: CO2 offset, low energy systems, etc.—and "adaptation" responses and actions Water consumption per tourist night compared to general population water consumption per resident night Tourism enterprises taking actions to reduce water consumption Energy consumption per tourist night compared to general population energy consumption per resident night Tourism enterprises that take actions to reduce energy consumption Annual amount of energy consumed from
water consumption in accommodation facilities	5.28 5.29 5.30 5.31	change mitigation schemes—such as: CO2 offset, low energy systems, etc.—and "adaptation" responses and actions Water consumption per tourist night compared to general population water consumption per resident night Tourism enterprises taking actions to reduce water consumption Energy consumption per tourist night compared to general population energy consumption per resident night Tourism enterprises that take actions to reduce energy consumption Annual amount of energy consumed from renewable sources (Mwh) compared to
water consumption in accommodation facilities	5.28 5.29 5.30 5.31	change mitigation schemes—such as: CO2 offset, low energy systems, etc.—and "adaptation" responses and actions  Water consumption per tourist night compared to general population water consumption per resident night  Tourism enterprises taking actions to reduce water consumption  Energy consumption per tourist night compared to general population energy consumption per resident night  Tourism enterprises that take actions to reduce energy consumption  Annual amount of energy consumed from renewable sources (Mwh) compared to overall energy consumption at destination
water consumption in accommodation facilities	5.28 5.29 5.30 5.31	change mitigation schemes—such as: CO2 offset, low energy systems, etc.—and "adaptation" responses and actions  Water consumption per tourist night compared to general population water consumption per resident night  Tourism enterprises taking actions to reduce water consumption  Energy consumption per tourist night compared to general population energy consumption per resident night  Tourism enterprises that take actions to reduce energy consumption  Annual amount of energy consumed from renewable sources (Mwh) compared to overall energy consumption at destination level per year
water consumption in accommodation facilities	5.28 5.29 5.30 5.31	change mitigation schemes—such as: CO2 offset, low energy systems, etc.—and "adaptation" responses and actions  Water consumption per tourist night compared to general population water consumption per resident night  Tourism enterprises taking actions to reduce water consumption  Energy consumption per tourist night compared to general population energy consumption per resident night  Tourism enterprises that take actions to reduce energy consumption  Annual amount of energy consumed from renewable sources (Mwh) compared to overall energy consumption at destination level per year  DESTINATION OVERVIEW
water consumption in accommodation facilities and sources of energy	5.28 5.29 5.30 5.31 5.32	change mitigation schemes—such as: CO2 offset, low energy systems, etc.—and "adaptation" responses and actions  Water consumption per tourist night compared to general population water consumption per resident night  Tourism enterprises taking actions to reduce water consumption  Energy consumption per tourist night compared to general population energy consumption per resident night  Tourism enterprises that take actions to reduce energy consumption  Annual amount of energy consumed from renewable sources (Mwh) compared to overall energy consumption at destination level per year  DESTINATION OVERVIEW  Waste production
water consumption in accommodation facilities and sources of energy  Managing and monitoring	5.28 5.29 5.30 5.31 5.32	change mitigation schemes—such as: CO2 offset, low energy systems, etc.—and "adaptation" responses and actions  Water consumption per tourist night compared to general population water consumption per resident night  Tourism enterprises taking actions to reduce water consumption Energy consumption per tourist night compared to general population energy consumption per resident night  Tourism enterprises that take actions to reduce energy consumption  Annual amount of energy consumed from renewable sources (Mwh) compared to overall energy consumption at destination level per year  DESTINATION OVERVIEW  Waste production  ♠ Total
water consumption in accommodation facilities and sources of energy	5.28 5.29 5.30 5.31 5.32	change mitigation schemes—such as: CO2 offset, low energy systems, etc.—and "adaptation" responses and actions  Water consumption per tourist night compared to general population water consumption per resident night  Tourism enterprises taking actions to reduce water consumption  Energy consumption per tourist night compared to general population energy consumption per resident night  Tourism enterprises that take actions to reduce energy consumption  Annual amount of energy consumed from renewable sources (Mwh) compared to overall energy consumption at destination level per year  DESTINATION OVERVIEW  Waste production

		Number of establishments	
	2.1	Total	
		Number of establishments accessible for people with disabilities	
	2.13	* Of which, Hotel and similar	
		accommodations	
	5.	ETIS	
	5.26	Waste production per tourist night compared to general population waste production per person	
	5.27	Tourism enterprises separating different types of waste	
Monitoring and managing	2.	TOURISM INDUSTRY	
the Blue Economy and		Number of establishments	
marine resources	2.11	* Of which, other tourism industries	
	2.	TOURISM INDUSTRY	
		Number of establishments	
Analyzing tourist flows to prevent overcrowding and resource degradation	2.11	* Of which, other tourism industries	
	2.40	Tourists / population	
resource degradation	5.	ETIS	
	5.12	Number of tourists per resident	
Measuring tourist	5.	ETIS	
satisfaction and loyalty	5.2	Tourists that are satisfied with their overall experience in the destination	
	1.	DESTINATION OVERVIEW	
Interregional comparison	1.6	Gross Value-added Total	
of sustainability data	1.7	Gross Value added per capita	
	1.8	Total tourism expenditure over GDP	
	1.	DESTINATION OVERVIEW	
Measuring the economic	1.9	Number of Employees	
impact of sustainable	1.10	* Of which, number of direct jobs in tourism	
tourism policies	1.11	* Of which, number of women employed in tourism	

## 5.2.2. Data related to new services for decision makers

## Data related to visitor arrival predictions

Visitor arrival predictions module aims to utilize existing arrival data, trends, calendar events, weather data, bookings data, occupancy and accommodation capacity data and quality characteristics like tourist satisfaction to predict visitor arrival fluctuations in short-, medium- and long-term seasonality increments. The following selection of tourism indices has been made, coupled with web data, to enable accurate predictions on visitor arrivals.

Table 17 Visitor arrival prediction dataset

#### **VISITOR ARRIVAL PREDICTION DATASET**

1.	DESTINATION OVERVIEW	2.	TOURISM INDUSTRY
	Destination Profile		Number of establishments
1.14	International Airports	2.1	♦ Total
1.15	♦ Number of daily flights	2.2	* Of which, Accommodation for visitors
1.16	* Of which, charter flights	2.3	* Of which, Food and beverage serving activities
	* Of which, low-cost flights	2.4	* Of which, Passenger transportation
1.14	Train Stations	2.5	* Of which, Travel agencies and other reservation services activities
1.15	♦ Number of daily stops	2.6	* Of which, Convention bureau/congress facilities services activities
1.16	Coaches' stations	2.7	* Of which, Museums
1.17	♦ Number of daily departures	2.8	* Of which, Themes Parks
1.18	Seaports	2.9	* Of which, Archaeological sites
1.19	♦ Number of daily departures	2.10	* Of which, other tourism attractions
1.21	Number of establishments accessible for people with disabilities	2.11	* Of which, other tourism industries
1.26	* Of which, number of accessible Airports		Number of establishments accessible for people with disabilities
1.27	* Of which, number of accessible Train Stations	2.12	◆ Total
1.28	* Of which, number of accessible Coaches Stations	2.13	* Of which, Hotel and similar accommodations
1.29	* Of which, number of accessible Seaports	2.14	* Of which, Holiday and other short-stay accommodation
	Sunshine hours	2.15	* Of which, Camping grounds, recreational vehicle parks and trailer parks
1.32	♦ Total	2.16	* Of which, Food and beverage serving activities
1.33	* Of which, in winter	2.17	* Of which, Museums
1.34	* Of which, in summer	2.18	* Of which, Themes Parks
	Precipitation:	2.19	* Of which, Archaeological sites
1.35	♦ Total	2.20	* Of which, other tourism attractions
1.36	* Of which, in winter		Accommodation for visitors in hotels and similar establishments
1.37	* Of which, in summer		Hotel and similar accommodations
	Temperature:	2.21	♦ Total
1.38	♦ Average of maximum temperature	2.22	* Of which seasonal

1.39	* Of which, in winter	2.23	♦ Number of rooms
1.40	* Of which, in summer	2.24	♦ Number of beds
1.41	◆Average of minimum temperature		Holiday and other short-stay accommodation
1.42	* Of which, in winter	2.25	♦ Total
1.43	* Of which, in summer	2.26	* Of which seasonal
		2.27	♦ Number of rooms
		2.28	♦ Number of beds
			Camping grounds, recreational vehicle parks and trailer parks
		2.29	♦ Total
		2.30	* Of which seasonal
		2.31	♦ Number of rooms
		2.32	♦ Number of beds
			Overall Satisfaction
		2.33	♦Total
		2.34	* Of which, domestic
		2.35	* Of which, non-Domestic
			Indicators
		2.36	Occupancy rate / rooms
		2.37	Occupancy rate / beds
		2.38	Average length of stay
		2.39	Capacity ratio (beds per 1000 inhabitants)
		2.40	Tourists / population
3.	TOURISM FLOW	4.	Web Data
	Flow		Booking.com
3.1	♦ Total Arrivals		♦ Number of establishments
3.2	* Of which, domestic		* Of which, hotel
3.3	♦ Overnight visitors (tourists)		* Of which, in apartments
3.4	* Of which, domestic		♦ Stars rating
3.5	◆Daily visitors (no overnights)		* Of which, hotel

3.6	* Of which, cruise passengers	♦ Average Score
	Arrivals by region	* Of which, hotel
3.7	♦ Total Arrivals	* Of which, in apartments
3.8	* Of which from Africa	♦Price
3.9	* Of which from Americas	* Of which, hotel
3.10	* Of which from Asia	* Of which, in apartments
3.11	* Of which from Europe	♦Availability
3.12	* Of which, domestic	* Of which, hotel
3.13	* Of which from Oceania	* Of which, in apartments
	Arrivals by main purpose	Tripadvisor.com
3.14	Total	♦ Number of establishments
3.15	♦ Personal	* Of which, hotel
3.16	* Holidays, leisure, and recreation	* Of which, vacation rentals
3.17	* Other personal purposes	♦ Food and beverage serving activities
3.18	♦ Business and professional	♦ Attractions
	Arrivals by mode of transport	♦ Price level (in classes e.g., "cheap," "expensive")
3.19	♦ Total	* Of which, hotel
3.20	* Of which from by Air	* Of which, restaurants
3.21	* Of which from by Sea	* Of which, in vacation rental
3.22	* Of which from by Railway	* Of which, in attractions
3.23	* Of which from by Private car	♦ Average Score
3.24	* Of which from by Other not classified	* Of which, hotel
	Accommodation	* Of which, restaurants
	Hotel and similar accommodations	* Of which, in vacation rental
3.25	♦ Arrivals	* Of which, in attractions
3.26	* Of which, domestic	AirB&B.com
3.27	♦ Overnights	♦Number of establishments
3.28	* Of which, domestic	* Of which, sharing rooms

	Holiday and other short- stay accommodation	* Of which, full apartments
3.29	♦ Arrivals	◆Average Rating
3.30	* Of which, domestic	* Of which, sharing rooms
3.31	♦ Overnights	* Of which, full apartments
3.32	* Of which, domestic	♦Price
	Camping grounds, recreational vehicle parks and trailer parks	* Of which, sharing rooms
3.33	♦ Arrivals	* Of which, full apartments
3.34	* Of which, domestic	♦ Number of places
3.35	♦ Overnights	* Of which, hotels
3.36	* Of which, domestic	* Of which, restaurants
	Overall Satisfaction	* Of which, museums
3.40	Total	* Of which, other
3.41	♦ Domestic	◆Average Rating
3.42	♦ non-domestic	* Of which, hotels
3.43	Intention to return	* Of which, restaurants
		* Of which, museums
		* Of which, other
5.	ETIS	
	Destination management	
5.2	♦ Tourists that are satisfied with their overall experience in the destination	
	Economic Value	
5.4	♦ Number of tourist nights	
5.5	♦ Number of same day visitors	
5.7	◆ Daily spending per overnight tourist	
5.8	♦ Average length of stay of tourists (nights)	
5.9	♦ Occupancy rate in commercial accommodation establishments per month and average for the year	

5.11	♦ Local producer of food, drink, goods, and services	
	Social and Cultural Impact	
5.14	♦ Number of beds available in commercial accommodation	
5.18	♦ Rooms in commercial accommodation establishments accessible for people with disabilities	
5.20	♦ Public transport that is accessible to people with disabilities and with specific access requirements	
5.21	♦ Tourist attractions that are accessible to people with disabilities and/or participating in recognized accessibility information schemes	

## Data related to visitor segmentation analysis

Visitor segmentation analysis refers to the understanding of specific needs of different groups of visitors to each destination and answering to these needs through specific service deployment and targeted marketing actions, as well as specific infrastructure improvement. Visitor demographic data, satisfaction indices and quality characteristics of tourist groups, together with web data that can highlight tourist preferences compose the following selected dataset.

Table 18 Visitor segmentation analysis dataset

	VISITOR SEGMENTATION ANALYSIS DATASET				
1.	DESTINATION OVERVIEW	2.	TOURISM INDUSTRY		
	Destination Profile		Number of establishments		
1.1	Dominant habitats (place an X against all that apply)	2.1	♦ Total		
1.2	Top five most popular tourist attractions (including environmental and cultural attractions).	2.2	* Of which, Accommodation for visitors		
1.12	Quality of life index	2.3	* Of which, Food and beverage serving activities		
1.13	Criminality index	2.4	* Of which, Passenger transportation		
		2.5	* Of which, Travel agencies and other reservation services activities		

	* Of which Convention
2.6	* Of which, Convention bureau/congress facilities services activities
2.7	* Of which, Museums
2.8	* Of which, Themes Parks
2.9	* Of which, Archaeological sites
2.10	* Of which, other tourism attractions
2.11	* Of which, other tourism industries
	Number of establishments accessible for people with disabilities
2.12	♦ Total
2.13	* Of which, Hotel and similar accommodations
2.14	* Of which, Holiday and other short- stay accommodation
2.15	* Of which, Camping grounds, recreational vehicle parks and trailer parks
2.16	* Of which, Food and beverage serving activities
2.17	* Of which, Museums
2.18	* Of which, Themes Parks
2.19	* Of which, Archaeological sites
2.20	* Of which, other tourism attractions
	Accommodation for visitors in hotels and similar establishments
	Hotel and similar
	accommodations
2.21	♦ Total
2.22	* Of which seasonal
2.23	♦ Number of rooms
2.24	♦ Number of beds
	Holiday and other short-stay accommodation
2.25	♦ Total
2.26	* Of which seasonal
2.27	♦ Number of rooms

		2.28	♦ Number of beds
			Camping grounds, recreational vehicle parks and trailer parks
		2.29	♦ Total
		2.30	* Of which seasonal
		2.31	♦ Number of rooms
		2.32	♦ Number of beds
			Overall Satisfaction
		2.33	♦Total
		2.34	* Of which, domestic
		2.35	* Of which, non-Domestic
			Indicators
		2.36	Occupancy rate / rooms
		2.37	Occupancy rate / beds
		2.38	Average length of stay
		2.39	Capacity ratio (beds per 1000 inhabitants)
		2.40	Tourists / population
3.	TOURISM FLOW	4.	Web Data
	Flow		Booking.com
3.1	♦ Total Arrivals		◆ Description
3.2	* Of which, domestic		* Of which, hotel
3.3	♦ Overnight visitors (tourists)		* Of which, in apartments
3.4	* Of which, domestic		♦Stars rating
3.5	♦Daily visitors (no overnights)		* Of which, hotel
3.6	* Of which, cruise passengers		♦ Average Score
	Arrivals by region		* Of which, hotel
3.7	♦ Total Arrivals		* Of which, in apartments
		1	◆Category reviews
3.8	* Of which from Africa		
3.8	* Of which from Africa     * Of which from Americas		* Of which, hotel

3.11	* Of which from Europe	♦Price
3.12	* Of which, domestic	* Of which, hotel
3.13	* Of which from Oceania	* Of which, in apartments
	Arrivals by main purpose	Tripadvisor.com
3.14	Total	♦ Food and beverage serving activities
3.15	♦ Personal	◆ Attractions
3.16	* Holidays, leisure, and recreation	◆Price level (in classes e.g., "cheap," "expensive")
3.17	* Other personal purposes	* Of which, hotel
3.18	♦ Business and professional	* Of which, restaurants
	Arrivals by mode of transport	* Of which, in vacation rental
3.19	♦ Total	* Of which, in attractions
3.20	* Of which from by Air	◆Average Score
3.21	* Of which from by Sea	* Of which, hotel
3.22	* Of which from by Railway	* Of which, restaurants
3.23	* Of which from by Private car	* Of which, in vacation rental
3.24	* Of which from by Other not classified	* Of which, in attractions
	Accommodation	AirB&B.com
	Hotel and similar accommodations	◆Average Rating
3.25	♦ Arrivals	* Of which, sharing rooms
3.26	* Of which, domestic	* Of which, full apartments
3.27	♦ Overnights	◆ Description
3.28	* Of which, domestic	* Of which, sharing rooms
	Holiday and other short-stay accommodation	* Of which, full apartments
3.29	♦ Arrivals	♦Price
3.30	* Of which, domestic	* Of which, sharing rooms
3.31	♦ Overnights	* Of which, full apartments
3.32	* Of which, domestic	Google Places
	Camping grounds, recreational vehicle parks and trailer parks	◆Average Rating

3.33	♦ Arrivals	* Of which, hotels
3.34	* Of which, domestic	* Of which, restaurants
3.35	♦ Overnights	* Of which, museums
3.36	* Of which, domestic	* Of which, other
	Expenditure	
3.37	Total	
3.38	♦ Domestic	
3.39	♦ non-domestic	
	Overall Satisfaction	
3.40	Total	
3.41	♦ Domestic	
3.42	♦ non-domestic	
3.43	Intention to return	
	Indicators	
3.45	Average size of travel group	
3.46	Average length of stay	
5.	ETIS	
	Destination management	
5.1	◆ Tourism enterprises/establishments in the destination using a voluntary certification/labelling for environmental/quality/sustainabi lity and/or Corporate Social Responsibility measures	
5.2	♦ Tourists that are satisfied with their overall experience in the destination	
	Economic Value	
5.4	♦ Number of tourist nights	
5.5	♦ Number of same day visitors	
5.6	♦ Daily spending per overnight tourist	
5.7	♦ Average length of stay of	

5.8	♦ Local producer of food, drink, goods, and services	
5.9	Social and Cultural Impact	
5.10	◆ Number of tourists per residents	
5.11	◆ Number of beds available in commercial accommodation	
	♦ Rooms in commercial accommodation establishments accessible for people with disabilities	
5.12	◆ Commercial accommodation establishments participating in recognized accessibility information schemes	
5.13	◆ Public transport that is accessible to people with disabilities and with specific access requirements	
5.14	◆ Tourist attractions that are accessible to people with disabilities and/or participating in recognized accessibility information schemes	
5.15	<b>Environmental Impact</b>	
5.16	◆ Tourism enterprises involved in climate change mitigation schemes—such as: CO2 offset, low energy systems, etc.—and "adaptation" responses and actions	
5.17	◆Tourism enterprises separating different types of waste	
5.18	◆ Tourism enterprises taking actions to reduce water consumption	
5.19	◆ Tourism enterprises that take actions to reduce energy consumption	
5.20	◆ Annual amount of energy consumed from renewable sources (Mwh) compared to overall energy consumption at destination level per year	

## Data related to visitor feedback and reviews

Visitor feedback and its subsequent analysis is critical for maintaining a high level of satisfaction and therefore a high return rate and new visitor rate for any tourist

destination. Analysis of satisfaction-related indicators and online data like reviews and destination scoring leads to the following dataset for this module.

Table 19 Visitor feedback and reviews dataset

VISITOR FEEDBACK AND REVIEWS DATASET				
1.	DESTINATION OVERVIEW	2.	TOURISM INDUSTRY	
	Destination Profile		Number of establishments	
			Overall Satisfaction	
		2.33	♦Total	
		2.34	* Of which, domestic	
		2.35	* Of which, non-Domestic	
3.	TOURISM FLOW	4.	WEB DATA	
	Flow		Booking.com	
	Overall Satisfaction		♦ Average Score	
3.4 0	Total		* Of which, hotel	
3.4 1	♦ Domestic		* Of which, in apartments	
3.4 2	♦ non-domestic		♦ Number of reviews	
3.4 3	Intention to return		* Of which, hotel	
			* Of which, in apartments	
			♦ Category reviews	
			* Of which, hotel	
			* Of which, in apartments	
			Tripadvisor.com	
			◆Average Score	
			* Of which, hotel	
			* Of which, restaurants	
			* Of which, in vacation rental	
			* Of which, in attractions	
			♦Number of reviews	
			* Of which, hotel	

		* Of which, restaurants
		* Of which, in vacation rental
		* Of which, in attractions
		♦Ranking
		* Of which, hotel
		* Of which, restaurants
		* Of which, in vacation rental
		* Of which, in attractions
		AirB&B.com
		♦Number of reviews
		* Of which, sharing rooms
		* Of which, full apartments
		◆Average Rating
		* Of which, sharing rooms
		* Of which, full apartments
		Google Places
		♦Number of reviews
		* Of which, hotels
		* Of which, restaurants
		* Of which, museums
		* Of which, other
		♦ Average Rating
		* Of which, hotels
		* Of which, restaurants
		* Of which, museums
		* Of which, other
5.	ETIS	
	Destination management	
5.2	♦ Tourists that are satisfied with their overall experience in the destination	
	<del></del>	

## Data related to destination feedback and sentiment analysis

This final module aims to utilize web data from online sources like reviews and feedback channels for destinations to extract information on the sentiment of visitors for a particular destination and the quality of services offered. The dataset from the previous section (Table 19) can also be utilized as a complementary source of useful information for visitor satisfaction on a particular destination.

# 6. DMSS proposed architecture and technical specifications

## 6.1. Concept

The DMSS system needs to provide comprehensive data processing and analytics pipeline designed to integrate multiple components for data ingestion, processing, storage and visualization. Figure 7 illustrates the conceptual design of the proposed system. At the top, users interact with the system through a Visual Analytics GUI, powered by Grafana, which provides a graphical interface for data exploration, analysis and visualization.

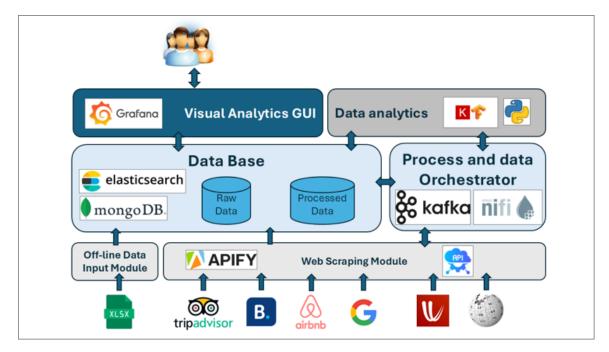


Figure 7 Concept

The core system comprises several interconnected components. First, the **Visual Analytics GUI** serves as the primary interaction point for users, offering insights derived from the data. Complementing this is the Data Analytics module, leveraging tools like Keras and Python to perform machine learning, statistical analysis and other computational processes.

**Data management** is centralized in the Database layer, which is divided into two parts: raw data storage and processed data storage. This ensures a clear separation between unprocessed input and cleaned, transformed, or analyzed datasets. The database uses Elasticsearch and MongoDB for efficient indexing and data management.

The **Process and Data Orchestrator** forms the backbone of the system, potentially utilizing tools like Kafka and NiFi. Kafka facilitates distributed messaging across the data pipeline, while NiFi manages workflows and orchestrates data transfer among components.

Data collection and input occur at the bottom of the architecture. An **offline data input module** supports external file uploads, such as XLSX spreadsheets or uploading data

manually using web forms. Simultaneously, the system incorporates a **web scraping module**, powered by Apify, which gathers data from various online platforms, including TripAdvisor, Booking.com, Airbnb, Google, Windy and Wikipedia. Additionally, the system supports API integration for seamless data exchange and further enrichment.

The flow of data begins with collection from raw sources, such as web scraping, APIs, or offline inputs. It then moves through the Process and Data Orchestrator, which processes and routes the data to the appropriate database. From there, the processed data becomes accessible to the Visual Analytics GUI and is also utilized for advanced analytics in the Data Analytics module. This integrated system ensures a scalable, user-friendly pipeline for collecting, processing and analyzing diverse data sets.

## 6.2. Modular architecture

The system is designed for collecting, processing, analyzing and presenting large volumes of data from various sources (APIs, web scraping and manual inputs). It employs a modular approach, with distinct components for each task:

- **Data Collection:** The system gathers data from external APIs (via API harvesting actors), web scraping (via Apify actors) and manual input (via forms-based UI).
- **Data Storage:** Raw data is stored centrally, where it is processed and transformed into analyzed data for further use.
- Data Analysis: The system processes the raw data through statistical methods or machine learning techniques to generate insights.
- **Data Presentation:** These insights are presented to users via Grafana dashboards, allowing them to visualize and interact with the results.
- Orchestration: The orchestrator ensures smooth data flow and processing, managing task scheduling and data dependencies and ensuring components work in tandem.

The architecture depicted in the diagram below emphasizes modularity and scalability, allowing the system to handle multiple data sources and processes while keeping each component focused on its role.

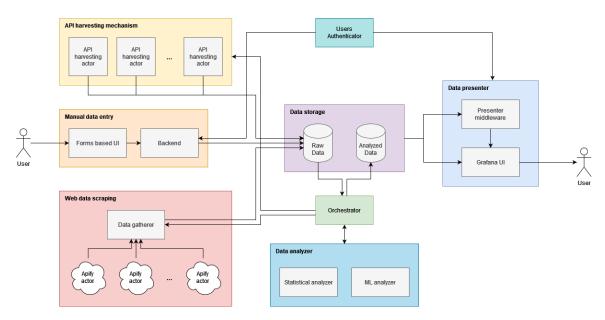


Figure 8 Modular architecture

At the top left is the "API Harvesting Mechanism", which focuses on gathering data from external APIs. Each "API harvesting actor" operates independently, pulling data from various APIs that may provide structured information such as financial metrics or social media trends. These actors are modular, allowing the system to scale as more APIs are added. The data harvested by these actors is sent to the "Data Storage" for further processing while the "Orchestrator" is responsible for scheduling when the data will be retrieved.

Beneath the API harvesting mechanism is the "Manual Data Entry" module. This component allows users to manually input data through a "Forms-based UI", which is connected to a "Backend" that processes the input. The backend handles data validation, transformation and storage preparation, ensuring that the data is properly structured before moving it into the system. The user input flows into the "Raw Data" storage, where it awaits further analysis or processing. Access to the manual data entry interface is controlled by the "User Authentication" system, ensuring only authorized users can submit data.

Directly below the manual entry module, the "Web Data Scraping" component automates the process of gathering data from websites. This module consists of a "Data Gatherer" that coordinates multiple "Apify actors". Each Apify actor is a scraping script that pulls data from various web pages, consolidating the information for use in the system. The collected data is passed back to the "Data Gatherer", which organizes it for storage. The scraped data, like the API and manual inputs, flows into the "Raw Data" store for further processing.

At the center of the diagram is the "Data Storage" module, which is split into two main sections: "Raw Data" and "Analyzed Data". The "Raw Data" store holds the original, unprocessed information collected from the APIs, web scraping and manual entry. Once the data has been processed and analyzed, it is stored in the "Analyzed Data" section, which contains structured and refined information ready for presentation to the end users. This way the raw data might be reprocessed as new insights or analyses are applied.

The system's data processing is handled by the "Data Analyzer", located at the bottom center of the diagram. This component is responsible for transforming raw data into actionable insights. It has two key submodules: the "Statistical Analyzer" and the "Machine Learning (ML) Analyzer". The "Statistical Analyzer" handles traditional statistical techniques such as calculating averages, medians, or regression analysis. Meanwhile, the "ML Analyzer" applies more advanced techniques like predictive modeling, clustering, or classification to uncover deeper patterns in the data. The output from both analyzers is stored in the "Analyzed Data" store for later use.

Coordinating the flow of data between these components is the "Orchestrator", which acts as the system's central controller. The orchestrator ensures that data is processed at the correct times, moves between modules as needed and that workloads are balanced across different components. It is crucial for maintaining the system's flow, directing raw data to the analyzers and returning processed data to the storage. Additionally, it manages error handling, ensuring data collection or analysis processes are retried or adjusted if something goes wrong, such as an API failure.

Once the data has been processed and stored, the "Data Presenter" module is responsible for displaying it to users. The "Presenter Middleware" prepares the data for display, transforming it into the required format for user-facing interfaces. The processed data is then presented to users through a "Grafana UI", a powerful tool for visualizing data in dynamic dashboards. The Grafana UI allows users to view and interact with the analyzed data, providing a rich, user-friendly experience through graphs, charts, or tables. Like the manual data entry system, access to the Grafana UI is controlled through the "User Authentication" system to prevent unauthorized users from accessing the data.

User interaction with the system happens at two main points: manual data entry and data presentation. Users input data via the "Forms-based UI", which is then processed and stored. Later, users can view the results of the data analysis through the "Grafana UI", where they can explore the insights generated by the system's statistical and machine learning analyzers.

In summary, this architecture is designed to handle diverse data sources (APIs, web scraping and manual input), process them through both traditional and advanced analytical methods and present the results to users clearly and interactively. The "Orchestrator" ensures seamless communication between the components, managing the data flow and coordinating the system's operations. The "Data Storage" serves as the central repository for both raw and processed data, while the "Data Presenter" delivers insights to the users in a visually compelling way. By breaking down each function into modular components, the system is highly scalable, adaptable, and efficient in handling a variety of data-related tasks.

### 6.2.1. API Harvesting Mechanism

The API harvesting mechanism is a crucial component for gathering structured data from external systems. It employs multiple **API harvesting actors**, each configured to connect to and extract data from specific APIs. These actors enable seamless integration with various data sources, ensuring that data can be ingested in a standardized format for further processing.

This mechanism is highly scalable, as new API actors can be added to accommodate additional data sources as needed. It is particularly useful for accessing real-time or regularly updated data, such as weather, financial metrics, or user behaviour data from third-party systems.

Requirement	Specifications				
API Integration	Connect to and extract data from external APIs				
Data Transformation	Convert API responses into system-compatible formats				
Scalability	Allow the addition of new APIs with minimal reconfiguration				
Monitoring	Track API performance and log errors				

## 6.2.2. Manual Data Entry

The manual data entry module allows users to input data that may not be available through automated means. It includes a **forms-based UI** where users can submit structured data directly into the system. This data is then sent to the backend, where it undergoes validation and integration into the pipeline.

This component is particularly valuable in scenarios where small-scale or highly customized data is required, such as specific survey results, unique business metrics, or temporary datasets. By connecting seamlessly with other system components, it ensures that user-submitted data can be processed alongside other sources without requiring manual intervention.

Requirement	Specifications
Form Submission	Allow users to input and submit data via the UI
Input Validation	Validate data before submission to ensure accuracy and completeness
Error Handling	Notify users of input errors and provide corrective feedback
Backend Integration	Send validated data to the backend for storage and processing

# 6.2.3. Web Data Scraping

The web data scraping module automates the collection of unstructured or semistructured data from online platforms. It is powered by a **data gatherer**, which employs multiple scraping actors, each specialized to extract information from targeted websites. For example, these actors might gather reviews from TripAdvisor, lodging data from Airbnb etc.

This component plays a vital role in obtaining data that is not available through APIs or traditional methods. The system is designed to handle dynamic and diverse websites, using scraping tools like Apify to navigate and extract data effectively. This module enables the system to harness large amounts of web-based data for integration into the pipeline.

Requirement	Specifications					
Data Gathering	Extract data from targeted websites					
Automation	Schedule and automate scraping tasks					
Data Cleaning	Remove irrelevant or redundant data from scraped results					
Error Handling	Handle website changes (e.g., DOM structure) gracefully					

#### 6.2.4. Orchestrator

The orchestrator is the backbone of the system, managing the flow of data across various components. It acts as a central hub, routing data from input modules (e.g., API harvesting, manual entry, web scraping) to storage and processing layers. Tools like **Kafka** handle distributed messaging, ensuring that data flows are efficient and scalable, while **NiFi** manages workflows and data pipelines.

The orchestrator is crucial for maintaining the system's modularity and flexibility. It enables real-time processing, batch workflows and seamless integration of new components. By centralizing control, the orchestrator ensures that data is processed in an organized and efficient manner.

Requirement	Specifications					
Data Routing	Manage the flow of data between components					
Workflow Orchestration	Automate and schedule workflows					
Fault Tolerance	Retry and re-route failed processes					
Scalability	Handle increasing data volumes without performance degradation					

## 6.2.5. Data Storage

The data storage module provides a structured repository for all incoming data, divided into two categories: **raw data** and **analyzed data**. Raw data serves as a primary archive, preserving the original form of the collected information. This is particularly useful for auditing, debugging, or re-processing the data at a later stage.

Analyzed data, on the other hand, is the result of cleaning, transformation and processing. This data is indexed and managed using tools like **Elasticsearch** and **MongoDB**, ensuring quick retrieval and efficient storage management. By separating raw and processed data, the system maintains data integrity while supporting multiple stages of analytics.

Requirement	Specifications				
Data Storage	Store raw and processed data				
Data Retrieval	Enable quick access and querying of stored data				
Data Indexing	Index data for efficient retrieval				
Backup and Recovery	Ensure data is backed up and recoverable				

# 6.2.6. Data Analyzer

The data analyzer module processes stored data to generate insights. It comprises two key components: a **statistical analyzer** for traditional descriptive and inferential analysis and an **ML analyzer** for advanced machine learning tasks. The statistical analyzer identifies trends, correlations and key metrics, while the ML analyzer performs tasks such as clustering, classification and predictive modeling.

This module uses tools like **Python** and **Keras** for flexible and scalable analysis, catering to both structured and unstructured data. By supporting diverse analytical techniques, the data analyzer enables the system to address a wide range of business and research needs.

Requirement	Specifications				
Statistical Analysis	Perform descriptive and inferential analytics				
ML Analysis	Train and deploy machine learning models				
<b>Custom Algorithms</b>	Support user-defined analytics workflows				
Model Integration	Save and deploy models for future use				

#### 6.2.7. Data Presenter

The data presenter module prepares data for visualization by employing **presenter middleware**. It ensures that the processed data is compatible with the Visual Analytics GUI, translating raw analytics outputs into structured formats suitable for user consumption.

The Visual Analytics GUI, powered by **Grafana**, provides an interactive interface for users to explore and visualize processed data. It supports customizable dashboards, enabling users to track KPIs, visualize trends and drill down into specific datasets. Grafana's versatility ensures that users can tailor their experience to meet their unique requirements.

This GUI bridges the gap between raw data and actionable insights, presenting complex analytics in a user-friendly format. Its interactivity and flexibility make it accessible to both technical and non-technical users, fostering data-driven decision-making.

Requirement	Specifications						
Data Formatting	Convert raw analytics outputs into display-friendly formats						
Middleware Optimization	Ensure smooth integration between backend and frontend						
Data Validation	Validate data before presentation						
Error Handling	Log and resolve errors in data preparation						
Dashboard Creation	Allow users to create and customize dashboards						
Real-Time Visualization	Display live updates of data						
<b>Export Options</b>	Support exporting dashboards and charts						
Data Interaction	Enable users to users to filter and drill down into visualizations, input data, query datasets and view visualizations						
Dashboard Customization	Allow users to create, modify and save dashboards for specific needs						

### 6.2.8. User Authenticator

The user authenticator secures the system by verifying user credentials before granting access. It ensures that only authorized personnel can interact with sensitive data and system functionalities.

This component is essential for maintaining data privacy and security, particularly in multi-user environments. By integrating robust authentication protocols, it safeguards the system against unauthorized access.

Requirement	Specifications				
User Verification	Authenticate users before granting access				
Session Control	Manage active sessions securely				
Access Restrictions	Enforce role-based permissions				
Audit Logging	Record authentication attempts				

# 7. Appendixes

# 7.1. Appendix A: ROSS 1000

ROSS 1000 is the Italian management system at the national level for territorial analysis that monitors the trend of tourist demand and supply and observes the tourist under a magnifying glass, collecting their socio-demographic characteristics at the time of check-in.

### Interchange record

LENGTH	GUY	Field	Type Accommodated (16-17-18)  REQUIRED (YES, NO, BLANK)	Type Accommodated (19-20)  REQUIRED (YES, NO)	If >< IT, = EU
2	Numeric	Type Housed	YES	YES	23
10	Alphanumeric	Arrival date (dd/mm/yyyy)	YES	YES	
1	Numeric	Gender (1=male; 2=female)	YES	YES	
10	Alphanumeric	Date of birth dd / mm/yyyy)	YES	YES	
9	Numeric	State of birth code	YES	YES	
9	Numeric	Citizenship code	YES	YES	
9	Numeric	Municipality code of residence	YES (if IT)	YES (if IT)	
2	Alphanumeric	Initials province of residence	YES (if IT)	YES (if IT)	NUTS2 residence region
9	Numeric	State of residence code	YES	YES	
10	Alphanumeric	Departure date (dd/mm/yyyy)	YES (Mode 2)	YES (mode 2)	
30	Alphanumeric	Tourism type	YES	YES	
30	Alphanumeric	Means of Transport	YES	YES	
3	Numeric	Occupied rooms	YES	YES	total number of rooms
3	Numeric	Rooms available	YES	NO	number of rooms

4	Numeric	Available beds	YES	NO	number of beds
10	Alphanumeric	Position identification code	YES	YES	
1	Numeric	Mode (1=New; 2=Variation; 3=Deletion)	YES	YES	

Type Housed		
	16	Single Guest
	17	Householder
	18	Group Leader
	19	Family
	20	Group Member

# 7.2. Appendix B: DMSS Data Indices

This new set of indices is presented in the following tables. Selected web data is presented in section 4 of the following table.

Table 20 Reduced dataset for municipal level

	MUNICIPAL LEVEL								
1.	DESTINATION OVERVIEW	2.	TOURISM INDUSTRY	3.	TOURISM FLOW	4.	WEB DATA	5.	ETIS
	<u>Data</u>		<u>Data</u>		<u>Data</u>		Data		<u>Data</u>
	Destination Profile		Number of establishments		Flow		Booking.com		Destination management
1.1	Dominant habitats (place an X against all that apply)		<b>♦</b> Total	3.1	♦ Total Arrivals		♦Number of establishments	5.1	◆ Tourism enterprises/establishments in the destination using a voluntary certification/labelling for environmental/quality/sustainability and/or Corporate Social Responsibility measures
1.2	Top five most popular tourist attractions (including environmental and cultural attractions).		* Of which, Accommodation for visitors	3.2	* Of which, domestic		* Of which, hotel	5.2	♦ Tourists that are satisfied with their overall experience in the destination

	T		T		T	T		<del>,                                      </del>
			* Of which, Food and			* Of which, in		
1.3	Area	2.3		3.3	♦ Overnight visitors	apartments		
			activities		(tourists)			
						45		Economic Value
			* 06 1:1 5			◆ Description		
1.4	Population	2.4	* Of which, Passenger transportation	3.4	* Of which, domestic		5.4	♦ Number of tourist nights
			transportation					
						* Of which, hotel		
			* Of which, Travel			or which, hotel		
1.5	Density	2.5	agencies and other	3.5	♦Daily visitors (no		5.5	♦ Number of same day visitors
1.0	Donoity		reservation services	0.0	overnights)		0.0	Vivamber of same day visitors
			activities					
						* Of which, in		
			* Of which,			apartments		
	Crass Value		Convention		* Of which anvice			A Deletine contribution of the unique to the
1.6	Gross Value- added Total		bureau/congress	3.6	* Of which, cruise passengers		5.6	♦ Relative contribution of tourism to the destination's economy (% GDP)
	addod Total		facilities services		passongere			destination's economy (% ODI )
			activities					
						A A -l		
1.7	Gross Value added	2.7	* Of which, Museums			♦Adress	5.7	♦ Daily spending per overnight tourist
	per capita		, , , , , , , , , , , , , , , , , , , ,		Arrivals by region			busy spontant grown are trained
	Number of		* Of which, Themes			* Of which, hotel		
1.9	Employees	2.8	Parks	3.7	♦ Total Arrivals		5.8	♦ Average length of stay of tourists (nights)
	. ,					* Of which, in		
						apartments		
1 10	* Of which,	2 0	* Of which,	2.0	* Of which furne Africa	apartmente	F 0	♦ Occupancy rate in commercial
1.10	number of direct jobs in tourism	2.9	Archaeological sites	3.8	* Of which from Africa		5.9	accommodation establishments per month and average for the year
	,							and average for the year
	* 04					♦Stars rating		
	* Of which,		* Of which, other		* Of which from	<b>V</b> Stars rating		♦ Direct tourism employment as percentage
1.11	number of women	2.10	tourism attractions	3.9	Americas		5.10	of total employment in the destination
	tourism							
	0		* 06			* Of which, hotel		
1.12	Quality of life index	2.11	* Of which, other tourism industries	3.10	* Of which from Asia		5.11	♦ Local producer of food, drink, goods, and services
<u> </u>								301 11003
			Number of establishments		* Of which from	♦Average Score		
1.13	Criminality index		accessible for people	3.11	* Of which from Europe			
			with disabilities		1			Social and Cultural Impact
	International					* Of which, hotel		
1.14	Airports	2.12	♦ Total	3.12	* Of which, domestic		5.12	Number of tourists per residents
				<del>                                     </del>		* Of which, in		
	A Niconalisan at 1 11		* Of which, Hotel and		* Of which frage	* Of which, in apartments		A Decidents who are activities to the con-
1.15	<ul><li>Number of daily flights</li></ul>		similar	3.13	* Of which from Oceania		5.13	Residents who are satisfied with tourism in the destination (per month/season)
	Tubillo		accommodations		- Couring			and additional (por month)
						♦Number of reviews		
<b>l</b>	* Of which,		* Of which, Holiday					♦ Number of beds available in commercial
1.16	charter flights		and other short-stay accommodation		Arrivals by main		5.14	accommodation
			accommodation		purpose			
	•		•	-	•	•	-	

		1				* Of which bot-!	1	<del> </del>
1.14	Train Stations	2.15	* Of which, Camping grounds, recreational vehicle parks and trailer parks	3.14	Total	* Of which, hotel	5.15	◆ Number of second homes
1.15	♦ Number of daily stops	2.16	* Of which, Food and beverage serving activities	3.15	♦ Personal	* Of which, in apartments	5.16	♦ Percentage of men and women employed in the tourism sector
1.16	Coaches' stations	2.17	* Of which, Museums	3.16	* Holidays, leisure and recreation	♦Category reviews	5.17	◆ Tourism enterprises where the general manager position is held by a woman
1.17	♦ Number of daily departures	2.18	* Of which, Themes Parks	3.17	* Other personal purposes	* Of which, hotel	5.18	◆ Rooms in commercial accommodation establishments accessible for people with disabilities
1.18	Seaports	2.19	* Of which, Archaeological sites	o. I o	♦ Business and professional	* Of which, in apartments	5.20	◆ Public transport that is accessible to people with disabilities and with specific access requirements
1.19	♦ Number of daily departures	2.20	* Of which, other tourism attractions		Arrivals by mode of transport	♦Price	5.21	◆ Tourist attractions that are accessible to people with disabilities and/or participating in recognized accessibility information schemes
1.21	Number of establishments <u>accessible for</u> <u>people with</u> <u>disabilities</u>		Accommodation for visitors in hotels and similar establishments		• ♦ Total	* Of which, hotel		Environmental Impact
1.26	* Of which, number of accessible Airports		Hotel and similar accommodations	3.20	* Of which from by Air	* Of which, in apartments	5.23	♦ Tourists and same day visitors using different modes of transport to arrive at the destination
1.27	* Of which, number of accessible Train Stations	2.21	<b>♦</b> Total	3.21	* Of which from by Sea	◆Availability	5.25	◆ Tourism enterprises involved in climate change mitigation schemes—such as: CO2 offset, low energy systems, etc.—and "adaptation" responses and actions

1.28	* Of which, number of accessible Coaches Stations	2.22	. * Of which seasonal	3.22	* Of which from by Railway	* Of which, hotel	5.27	◆Tourism enterprises separating different types of waste
1.29	* Of which, number of accessible Seaports	2.23	◆ Number of rooms	3.23	* Of which from by Private car	* Of which, in apartments	5.30	◆ Energy consumption per tourist night compared to general population energy consumption per resident night
	Sunshine hours	2.24	♦ Number of beds	3.24	* Of which from by Other not classified	Tripadvisor.com	5.31	♦ Tourism enterprises that take actions to reduce energy consumption
1.32	♦ Total		Holiday and other short-stay accommodation		Accommodation	◆Number of establishments	5.32	◆ Annual amount of energy consumed from renewable sources (Mwh) compared to overall energy consumption at destination level per year
1.33	* Of which, in winter	2.25	♦ Total		Hotel and similar accommodations	* Of which, hotel		
1.34	* Of which, in summer	2.26	* Of which seasonal	3.25	♦ Arrivals	* Of which, vacation rentals		
	Precipitation:	2.27	<b>♦</b> Number of rooms	3.26	* Of which, domestic	◆ Food and beverage serving activities		
1.35	♦ Total	2.28	Number of beds	3.27	♦ Overnights	♦ Attractions		
1.36	* Of which, in winter		Camping grounds, recreational vehicle parks and trailer	3.28	* Of which, domestic	◆Contact details (address, telephone number)		

Holiday and other

3.30 \* Of which, domestic

3.32 \* Of which, domestic

short-stay accommodation

3.29 ♦ Arrivals

3.31 ♦ Overnights

\* Of which, hotel

\* Of which,

restaurants

\* Of which, in

vacation rental

\* Of which, in

♦Price level (in classes e.g.,

attractions

"cheap,"

"expensive")

parks

2.30 \* Of which seasonal

2.31 Number of rooms

2.32 ♦ Number of beds

Overall Satisfaction

2.29 ♦ Total

\* Of which, in

Temperature:

♦ Average of

temperature

\* Of which, in

Of which, in

maximum

winter

summer

summer

1.37

1.38

1.39

1.40

						* Of which, hotel
1.41	◆Average of minimum temperature	2.33	♦Total		Camping grounds, recreational vehicle parks and trailer parks	
1.42	* Of which, in winter	2.34	* Of which, domestic	3.33	♦ Arrivals	* Of which, restaurants
1.43	* Of which, in summer	2.35	* Of which, non- Domestic	3.34	* Of which, domestic	* Of which, in vacation rental
1.44	Number of environmental certifications			3.35	◆ Overnights	* Of which, in attractions
	Waste production		Indicators	3.36	* Of which, domestic	◆Average Score
1.45	♦ Total	2.36	Occupancy rate / rooms		Expenditure	* Of which, hotel
1.46	* Of which, from tourism sector	2.37	Occupancy rate / beds			* Of which, restaurants
1.47	* Of which, from recycling	2.38	Average length of stay	3.38	♦ Domestic	* Of which, in vacation rental
	Water	2.39	Capacity ratio (beds per 1000 inhabitants)			* Of which, in attractions
	consumption				Overall Satisfaction	♦Number of
1.48	♦ Total	2.40	Tourists / population	3.40	Total	reviews
1.49	* Of which, from tourism sector		l	3.41	◆ Domestic	* Of which, hotel
	Energy consumption			3.42	♦ non-domestic	* Of which, restaurants
1.50	♦ Total			3.43	Intention to return	* Of which, in vacation rental
		1				* Of which, in attractions
					Indicators	♦Ranking
				3.44	Average size of travel party	* Of which, hotel
				3.45	Average size of travel group	* Of which, restaurants
				3.46	Average length of stay	* Of which, in vacation rental
						* Of which, in attractions
						AirB&B.com

♦Number of
establishments
* Of which, sharing rooms
* Of which, full apartments
♦Number of reviews
* Of which, sharing rooms
* Of which, full apartments
◆Average Rating
* Of which, sharing rooms
* Of which, full apartments
◆ Description
* Of which, sharing rooms
* Of which, full apartments
♦Price
* Of which, sharing rooms
* Of which, full apartments
◆Location (coordinates)
* Of which, sharing rooms
* Of which, full apartments
Google Places
♦Number of places
* Of which, hotels
* Of which, restaurants
* Of which, museums
 •

* Of which, other <sup>4</sup>
♦Number of
reviews
* Of which, hotels
* Of which,
restaurants
* Of which,
museums
* Of which, other
♦ Average Rating
* Of which, hotels
* Of which,
restaurants
* Of which,
museums
* Of which, other
♦ Contact details
(address,
telephone
number)
* Of which, hotels
* Of which,
restaurants
* Of which,
museums
* Of which, other
♦Website
* Of which, hotels
* Of which,
restaurants
* Of which,
museums
* Of which, other
Windy.com (or
another meteorological
site)
♦Weather forecast
* Temperature
* Humidity
<u> </u>

<sup>4</sup> complete list: <a href="https://developers.google.com/maps/documentation/places/web-service/supported\_types">https://developers.google.com/maps/documentation/places/web-service/supported\_types</a>

* Wind
* Rain
♦Weather
historical data
* Temperature
* Humidity
* Wind
* Rain
Wikimedia
A.D
◆Demographics
* Area
* Area
* Area  * Population
* Area  * Population  * Human
* Area  * Population  * Human Development Index
* Area  * Population  * Human Development Index (HDI)
* Area  * Population  * Human Development Index (HDI)  * Coordinates
* Area  * Population  * Human Development Index (HDI)  * Coordinates  * Municipality

Table 21 Reduced dataset for provincial level

		PROVINCIAL LEVEL						
1.	DESTINATION OVERVIEW	2.	TOURISM INDUSTRY	3.	TOURISM FLOW	5.	ETIS	
	<u>Data</u>		<u>Data</u>		<u>Data</u>		<u>Data</u>	
	Destination Profile		Number of establishments		Flow		Destination management	
1.1	Dominant habitats (place an X against all that apply)	2.1	<b>♦</b> Total	3.1	♦ Total Arrivals	5.1	◆ Tourism enterprises/establishments in the destination using a voluntary certification/labelling for environmental/quality/sustainability and/or Corporate Social Responsibility measures	
1.2	Top five most popular tourist attractions (including environmental and cultural attractions).	2.2	* Of which, Accommodation for visitors	3.2	* Of which, domestic	5.2	♦ Tourists that are satisfied with their overall experience in the destination	

1.3	Area	2.3	* Of which, Food and beverage serving activities	3.3	◆ Overnight visitors (tourists)	5.3	♦ Repeat/return visitors (within 5 years)
1.4	Population	2.4	* Of which, Passenger transportation	3.4	* Of which, domestic		Economic Value
1.5	Density	2.5	* Of which, Travel agencies and other reservation services activities	3.5	◆Daily visitors (no overnights)	5.4	♦ Number of tourist nights
1.6	Gross Value- added Total	2.6	* Of which, Convention bureau/congress facilities services activities	3.6	* Of which, cruise passengers	5.5	♦ Number of same day visitors
1.7	Gross Value added per capita	2.7	* Of which, Museums		Arrivals by region	5.6	♦ Relative contribution of tourism to the destination's economy (% GDP)
1.9	Number of Employees	2.8	* Of which, Themes Parks	3.7	♦ Total Arrivals	5.7	◆ Daily spending per overnight tourist
1.10	* Of which, number of direct jobs in tourism	2.9	* Of which, Archaeological sites	3.8	* Of which from Africa	5.8	◆ Average length of stay of tourists (nights)
1.11	* Of which, number of women employed in tourism	2.10	* Of which, other tourism attractions	3.9	* Of which from Americas	5.9	Occupancy rate in commercial accommodation establishments per month and average for the year
1.12	Quality of life index	2.11	* Of which, other tourism industries	3.10	* Of which from Asia	5.10	♦ Direct tourism employment as percentage of total employment in the destination
1.13	Criminality index		Number of establishments accessible for people with disabilities	3.11	* Of which from Europe	5.11	♦ Local producer of food, drink, goods, and services
1.14	International Airports	2.12	♦ Total	3.12	* Of which, domestic		Social and Cultural Impact
1.15	♦ Number of daily flights	2.13	* Of which, Hotel and similar accommodations	3.13	* Of which from Oceania	5.12	♦ Number of tourists per residents
1.16	* Of which, charter flights	2.14	* Of which, Holiday and other short-stay accommodation		Arrivals by main purpose	5.13	◆Residents who are satisfied with tourism in the destination (per month/season)

	* Of which, low-cost flights	2.15	* Of which, Camping grounds, recreational vehicle parks and trailer parks	3.14	Total	5.14	♦ Number of beds available in commercial accommodation
1.14	Train Stations	2.16	* Of which, Food and beverage serving activities	3.15	♦ Personal	5.15	♦ Number of second homes
1.15	♦ Number of daily stops	2.17	* Of which, Museums	3.16	* Holidays, leisure, and recreation	5.16	♦ Percentage of men and women employed in the tourism sector
1.16	Coaches' stations	2.18	* Of which, Themes Parks	3.17	* Other personal purposes	5.17	♦ Tourism enterprises where the general manager position is held by a woman
1.17	♦ Number of daily departures	2.19	* Of which, Archaeological sites	3.18	♦ Business and professional	5.18	♦ Rooms in commercial accommodation establishments accessible for people with disabilities
1.18	Seaports	2.20	* Of which, other tourism attractions		Arrivals by mode of transport	5.20	♦ Public transport that is accessible to people with disabilities and with specific access requirements
1.19	♦ Number of daily departures		Accommodation for visitors in hotels and similar establishments	3.19	♦ Total	5.22	♦ Residents that are satisfied with the impacts of tourism on destination's identity
1.21	Number of establishments accessible for people with disabilities		Hotel and similar accommodations	3.20	* Of which from by Air		Environmental Impact
1.26	* Of which, number of accessible Airports	2.21	♦ Total	3.21	* Of which from by Sea	5.23	◆ Tourists and same day visitors using different modes of transport to arrive at the destination
1.27	* Of which, number of accessible Train Stations	2.22	* Of which seasonal	3.22	* Of which from by Railway	5.24	◆ Tourists and same day visitors using local/soft mobility/public transport services to get around the destination
1.28	* Of which, number of accessible Coaches Stations	2.23	♦ Number of rooms	3.23	* Of which from by Private car		
1.29	* Of which, number of	2.24	♦ Number of beds	3.24	* Of which from by Other not classified		

	accessible Seaports				
1.30	Total EU Funds received		Holiday and other short-stay accommodation		Accommodation
	Sunshine hours	2.26	* Of which seasonal	3.25	♦ Arrivals
1.32	♦ Total	2.27	♦ Number of rooms	3.26	* Of which, domestic
1.33	* Of which, in winter	2.28	♦ Number of beds	3.27	♦ Overnights
1.34	* Of which, in summer		Camping grounds, recreational vehicle parks and trailer parks	3.28	* Of which, domestic
	Precipitation:	2.29	♦ Total		Holiday and other short-stay accommodation
1.35	♦ Total	2.30	* Of which seasonal	3.29	♦ Arrivals
1.36	* Of which, in winter	2.31	♦ Number of rooms	3.30	* Of which, domestic
1.37	* Of which, in summer	2.32	♦ Number of beds	3.31	♦ Overnights
	Temperature:		Overall Satisfaction	3.32	* Of which, domestic
1.38	◆ Average of maximum temperature	2.33	♦Total		Camping grounds, recreational vehicle parks and trailer parks
1.39	* Of which, in winter	2.34	* Of which, domestic	3.33	♦ Arrivals
1.40	* Of which, in summer	2.35	* Of which, non- Domestic	3.34	* Of which, domestic
1.41	◆Average of minimum temperature			3.35	♦ Overnights
1.42	* Of which, in winter		Indicators	3.36	* Of which, domestic
1.43	* Of which, in summer	2.36	Occupancy rate / rooms		Expenditure
1.44	Number of environmental certifications	2.37	Occupancy rate / beds	3.37	Total
	Waste production	2.38	Average length of stay	3.38	◆ Domestic

1.45	♦ Total	2.39	Capacity ratio (beds per 1000 inhabitants)	3.39	♦ non-domestic
1.46	* Of which, from tourism sector	2.40	Tourists / population		Overall Satisfaction
1.47	* Of which, from recycling			3.40	Total
	Water consumption			3.41	♦ Domestic
1.48	♦ Total			3.42	♦ non-domestic
	Energy consumption			3.43	Intention to return
1.50	♦ Total				
		_			Indicators
				3.44	Average size of travel party
				3.45	Average size of travel group
				3.46	Average length of stay
				3.47	Average expenditure per day

Table 22 Reduced dataset for regional level

	REGIONAL LEVEL									
1.	DESTINATION OVERVIEW	2.	TOURISM INDUSTRY	3.	TOURISM FLOW	5.	ETIS			
	<u>Data</u>		<u>Data</u>		<u>Data</u>		<u>Data</u>			
	Destination Profile		Number of establishments		Flow		Destination management			
1.1	Dominant habitats (place an X against all that apply)	2.1	<b>♦</b> Total	3.1	♦ Total Arrivals	5.1	◆ Tourism enterprises/establishment s in the destination using a voluntary certification/labelling for environmental/quality/sust ainability and/or Corporate Social Responsibility measures			
1.2	Top five most popular tourist attractions (including environmental	2.2	* Of which, Accommodation for visitors	3.2	* Of which, domestic	5.2	◆ Tourists that are satisfied with their overall experience in the destination			

	and cultural attractions).						
1.3	Area	2.3	* Of which, Food and beverage serving activities	3.3	♦ Overnight visitors (tourists)		Economic Value
1.4	Population	2.4	* Of which, Passenger transportation	3.4	* Of which, domestic	5.4	♦ Number of tourist nights
1.5	Density	2.5	* Of which, Travel agencies and other reservation services activities	ncies and other arvation services 3.5 Daily visitors (no overnights) 5.5		5.5	♦ Number of same day visitors
1.6	Gross Value- added Total	2.6	* Of which, Convention bureau/congress facilities services activities	* Of which cruise		5.6	♦ Relative contribution of tourism to the destination's economy (% GDP)
1.7	Gross Value added per capita	2.7	* Of which, Museums		Arrivals by region	5.7	♦ Daily spending per overnight tourist
1.8	Total tourism expenditure over GDP	2.8	* Of which, Themes Parks	3.7	♦ Total Arrivals	5.8	♦ Average length of stay of tourists (nights)
1.9	Number of Employees	2.9	* Of which, Archaeological sites	3.8	* Of which from Africa	5.9	♦ Occupancy rate in commercial accommodation establishments per month and average for the year
1.10	* Of which, number of direct jobs in tourism	2.10	* Of which, other tourism attractions	3.9	* Of which from Americas	5.10	♦ Direct tourism employment as percentage of total employment in the destination
1.11	* Of which, number of women employed in tourism	2.11	* Of which, other tourism industries	3.10	* Of which from Asia	5.11	♦ Local producer of food, drink, goods, and services
1.12	Quality of life index		Number of establishments accessible for people with disabilities	3.11	* Of which from Europe		Social and Cultural Impact
1.13	Criminality index	2.12	♦ Total	3.12	* Of which, domestic	5.12	♦ Number of tourists per residents
1.14	International Airports	2.13	* Of which, Hotel and similar accommodations	3.13	* Of which from Oceania	5.13	◆Residents who are satisfied with tourism in the destination (per month/season)

1.15	Number of daily flights	2.14	* Of which, Holiday and other short-stay accommodation		Arrivals by main purpose	5.14	♦ Number of beds available in commercial accommodation
1.16	* Of which, charter flights	2.15	* Of which, Camping grounds, recreational vehicle parks and trailer parks	3.14	Total	5.15	♦ Number of second homes
	* Of which, low-cost flights	2.16	* Of which, Food and beverage serving activities	3.15	♦ Personal	5.16	◆ Percentage of men and women employed in the tourism sector
1.14	Train Stations	2.17	* Of which, Museums	3.16	* Holidays, leisure, and recreation	5.17	◆ Tourism enterprises where the general manager position is held by a woman
1.15	♦ Number of daily stops	2.18	* Of which, Themes Parks	3.17	* Other personal purposes	5.18	♦ Rooms in commercial accommodation establishments accessible for people with disabilities
1.16	Coaches' stations	2.19	* Of which, Archaeological sites	3.18	♦ Business and professional	5.20	◆ Public transport that is accessible to people with disabilities and with specific access requirements
1.17	♦ Number of daily departures	2.20	* Of which, other tourism attractions		Arrivals by mode of transport	5.22	♦ Residents that are satisfied with the impacts of tourism on destination's identity
1.18	Seaports		Accommodation for visitors in hotels and similar establishments	3.19	♦ Total		Environmental Impact
1.19	♦ Number of daily departures		Hotel and similar accommodations	3.20	* Of which from by Air	5.25	◆ Tourism enterprises involved in climate change mitigation schemes—such as: CO2 offset, low energy systems, etc.—and "adaptation" responses and actions
1.21	Number of establishments accessible for people with disabilities	2.21	♦ Total	3.21	* Of which from by Sea	5.27	◆Tourism enterprises separating different types of waste
1.26	* Of which, number of accessible Airports	2.22	* Of which seasonal	3.22	* Of which from by Railway	5.30	◆ Energy consumption per tourist night compared to general population energy consumption per resident night

1	* Of which,	Ī			l	Ī
1.27	number of accessible Train Stations	2.23	♦ Number of rooms	3.23	* Of which from by Private car	5.31
1.28	* Of which, number of accessible Coaches Stations	2.24	♦ Number of beds	3.24	* Of which from by Other not classified	5.32
1.29	* Of which, number of accessible Seaports		Holiday and other short-stay accommodation		Accommodation	
1.30	Total EU Funds received	2.25	♦ Total		Hotel and similar accommodation s	
	Sunshine hours	2.26	* Of which seasonal	3.25	♦ Arrivals	
1.32	♦ Total	2.27	♦ Number of rooms	3.26	* Of which, domestic	
1.33	* Of which, in winter	2.28	♦ Number of beds	3.27	◆ Overnights	
1.34	* Of which, in summer		Camping grounds, recreational vehicle parks and trailer parks	3.28	* Of which, domestic	
	Precipitation:	2.29	♦ Total		Holiday and other short-stay accommodation	
1.35	♦ Total	2.30	* Of which seasonal	3.29	♦ Arrivals	
1.36	* Of which, in winter	2.31	♦ Number of rooms	3.30	* Of which, domestic	
1.37	* Of which, in summer	2.32	♦ Number of beds	3.31	◆ Overnights	
	Temperature:		Overall Satisfaction	3.32	* Of which, domestic	
1.38	◆ Average of maximum temperature	2.33	♦Total		Camping grounds, recreational vehicle parks and trailer parks	
1.39	* Of which, in winter	2.34	* Of which, domestic	3.33	♦ Arrivals	
1.40	* Of which, in summer	2.35	* Of which, non- Domestic	3.34	* Of which, domestic	
1.41	◆Average of minimum temperature			3.35	◆ Overnights	

♦ Tourism enterprises that take actions to reduce energy consumption

♦ Annual amount of energy consumed from renewable sources (Mwh) compared

destination level per year

to overall energy consumption at

1.42	* Of which, in winter		Indicators	3.36	* Of which, domestic
1.43	* Of which, in summer	2.36	Occupancy rate / rooms		Expenditure
1.44	Number of environmental certifications	2.37	Occupancy rate / beds	3.37	Total
	Waste production	2.38	Average length of stay	3.38	♦ Domestic
1.45	♦ Total	2.39	Capacity ratio (beds per 1000 inhabitants)	3.39	♦ non-domestic
1.47	* Of which, from recycling	2.40	Tourists / population		Overall Satisfaction
	Water			3.40	Total
1.48	consumption  ♦ Total	-		3.41	♦ Domestic
	Energy consumption	-		3.42	♦ non-domestic
1.50	♦ Total			3.43	Intention to return
		_			
					Indicators
				3.45	Average size of travel group
				3.46	Average length of stay
				3.47	Average expenditure per day

Table 23 Reduced dataset for national level

	NATIONAL LEVEL									
1.	DESTINATION OVERVIEW	2.	TOURISM INDUSTRY	3.	TOURISM FLOW	5.	ETIS			
	<u>Data</u>		<u>Data</u>		<u>Data</u>		<u>Data</u>			
	Destination Profile		Number of establishments		Flow		Destination management			
1.1	Dominant habitats (place an X against all that apply)	2.1	<b>♦</b> Total	3.1	♦ Total Arrivals	5.1	◆ Tourism enterprises/establishments in the destination using a voluntary certification/labelling for environmental/quality/sustai nability and/or Corporate Social Responsibility measures			

1.2	Top five most popular tourist attractions (including environmental and cultural attractions).	2.2	* Of which, Accommodation for visitors	3.2	* Of which, domestic	5.2	◆ Tourists that are satisfied with their overall experience in the destination
1.3	Area	2.3	* Of which, Food and beverage serving activities	3.3	♦ Overnight visitors (tourists)		Economic Value
1.4	Population	2.4	* Of which, Passenger transportation	3.4	* Of which, domestic	5.4	♦ Number of tourist nights
1.5	Density	2.5	* Of which, Travel agencies and other reservation services activities	3.5	◆Daily visitors (no overnights)	5.5	♦ Number of same day visitors
1.6	Gross Value- added Total	2.6	* Of which, Convention bureau/congress facilities services activities	3.6	* Of which, cruise passengers	5.6	♦ Relative contribution of tourism to the destination's economy (% GDP)
1.7	Gross Value added per capita	2.7	* Of which, Museums		Arrivals by region	5.7	♦ Daily spending per overnight tourist
1.8	Total tourism expenditure over GDP	2.8	* Of which, Themes Parks	3.7	♦ Total Arrivals	5.8	◆ Average length of stay of tourists (nights)
1.9	Number of Employees	2.9	* Of which, Archaeological sites	3.8	* Of which from Africa	5.9	◆ Occupancy rate in commercial accommodation establishments per month and average for the year
1.10	* Of which, number of direct jobs in tourism	2.1	* Of which, other tourism attractions	3.9	* Of which from Americas	5.10	◆ Direct tourism employment as percentage of total employment in the destination
1.11	* Of which, number of women employed in tourism	2.1 1	* Of which, other tourism industries	3.1 0	* Of which from Asia	5.11	♦ Local producer of food, drink, goods, and services
1.12	Quality of life index		Number of establishments accessible for people with disabilities	3.1 1	* Of which from Europe		Social and Cultural Impact
1.13	Criminality index	2.1 2	♦ Total	3.1 2	* Of which, domestic	5.12	♦ Number of tourists per residents

1.14	International Airports	2.1 3	* Of which, Hotel and similar accommodations	3.1 3	* Of which from Oceania	5.13	◆Residents who are satisfied with tourism in the destination (per month/season)
1.15	Number of daily flights	2.1 4	* Of which, Holiday and other short-stay accommodation		Arrivals by main purpose	5.14	♦ Number of beds available in commercial accommodation
1.16	* Of which, charter flights	2.1 5	* Of which, Camping grounds, recreational vehicle parks and trailer parks	3.1 4	Total	5.15	♦ Number of second homes
	* Of which, low-cost flights	2.1 6	* Of which, Food and beverage serving activities	3.1 5	♦ Personal	5.16	◆ Percentage of men and women employed in the tourism sector
1.14	Train Stations	2.1 7	* Of which, Museums	3.1 6	* Holidays, leisure, and recreation	5.17	◆ Tourism enterprises where the general manager position is held by a woman
1.15	♦ Number of daily stops	2.1 8	* Of which, Themes Parks	3.1 7	* Other personal purposes	5.18	◆ Rooms in commercial accommodation establishments accessible for people with disabilities
1.16	Coaches' stations	2.1 9	* Of which, Archaeological sites	3.1 8	♦ Business and professional	5.19	♦ Commercial accommodation establishments participating in recognized accessibility information schemes
1.17	♦ Number of daily departures	2.2	* Of which, other tourism attractions		Arrivals by mode of transport	5.20	◆ Public transport that is accessible to people with disabilities and with specific access requirements
1.18	Seaports		Accommodation for visitors in hotels and similar establishments	3.1 9	♦ Total	5.21	◆ Tourist attractions that are accessible to people with disabilities and/or participating in recognized accessibility information schemes
1.19	♦ Number of daily departures		Hotel and similar accommodation s	3.2 0	* Of which from by Air	5.22	♦ Residents that are satisfied with the impacts of tourism on destination's identity
1.21	Number of establishment s accessible for people with disabilities	2.2	♦ Total	3.2	* Of which from by Sea		Environmental Impact

1.26	* Of which, number of accessible Airports	2.2	* Of which seasonal	3.2	* Of which from by Railway	5.25	♦ Tourism enterprises involved in climate change mitigation schemes—such as: CO2 offset, low energy systems, etc.—and "adaptation" responses and actions
1.27	* Of which, number of accessible Train Stations	2.2	♦ Number of rooms	3.2 3	* Of which from by Private car	5.26	♦ Waste production per tourist night compared to general population waste production per person
1.28	* Of which, number of accessible Coaches Stations	2.2 4	♦ Number of beds	3.2 4	* Of which from by Other not classified	5.27	◆Tourism enterprises separating different types of waste
1.29	* Of which, number of accessible Seaports		Holiday and other short-stay accommodation		Accommodation	5.29	♦ Tourism enterprises taking actions to reduce water consumption
1.30	Total EU Funds received	2.2	♦ Total		Hotel and similar accommodations	5.30	◆ Energy consumption per tourist night compared to general population energy consumption per resident night
	Sunshine hours	2.2	* Of which seasonal	3.2 5	♦ Arrivals	5.31	♦ Tourism enterprises that take actions to reduce energy consumption
1.32	<b>♦</b> Total	2.2	♦ Number of rooms	3.2 6	* Of which, domestic	5.32	♦ Annual amount of energy consumed from renewable sources (Mwh) compared to overall energy consumption at destination level per year
1.33	* Of which, in winter	2.2 8	♦ Number of beds	3.2 7	♦ Overnights		
1.34	* Of which, in summer		Camping grounds, recreational vehicle parks and trailer parks	3.2 8	* Of which, domestic		
	Precipitation:	2.2 9	♦ Total		Holiday and other short-stay accommodation		

3.2

3.3

3.3

9

0

♦ Arrivals

♦ Overnights

\* Of which, domestic

2.3

2.3

2.3

0

1

2

1.35

1.36

1.37

**♦** Total

winter

summer

\* Of which, in

\* Of which, in

\* Of which

♦ Number of

♦ Number of beds

seasonal

rooms

	Temperature:		Overall Satisfaction	3.3	* Of which, domestic
1.38	♦ Average of maximum temperature	2.3	♦Total		Camping grounds, recreational vehicle parks and trailer parks
1.39	* Of which, in winter	2.3 4	* Of which, domestic	3.3	♦ Arrivals
1.40	* Of which, in summer	2.3 5	* Of which, non- Domestic	3.3 4	* Of which, domestic
1.41	◆Average of minimum temperature			3.3 5	◆ Overnights
1.42	* Of which, in winter		Indicators	3.3 6	* Of which, domestic
1.43	* Of which, in summer	2.3 6	Occupancy rate / rooms		Expenditure
1.44	Number of environmental certifications	2.3 7	Occupancy rate / beds	3.3 7	Total
	Waste production	2.3 8	Average length of stay	3.3 8	♦ Domestic
1.45	♦ Total	2.3 9	Capacity ratio (beds per 1000 inhabitants)	3.3 9	♦ non-domestic
1.46	* Of which, from tourism sector	2.4 0	Tourists / population		Overall Satisfaction
1.47	* Of which, from recycling			3.4 0	Total
	Water consumption			3.4 1	◆ Domestic
1.48	♦ Total			3.4 2	♦ non-domestic
	Energy consumption			3.4	Intention to return
1.50	♦ Total	]			
				3.4	Indicators  Average size of travel
				5	group
				3.4 6	Average length of stay