

DATA COLLECTION FOR SUSTAINABLE CULTURAL TOURISM

Experiences from SmartCulTour

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WHAT WE MEASURE AFFECTS WHAT WE DO; AND IF OUR MEASUREMENTS ARE FLAWED, DECISIONS MAY BE DISTORTED

Stiglitz, Sen & Fitoussi (2010)

Toerisme Vlaanderen en minister Demir over groeiend cruisetoerisme: 'Slechts een fractie van inkomsten, wel veel vervuiling'







10 favoriete aandelen van Trends Beleggen voor de tweede jaarhelft



A Het merk 'Average Rob': van online clown tot grootste internetfenomeen

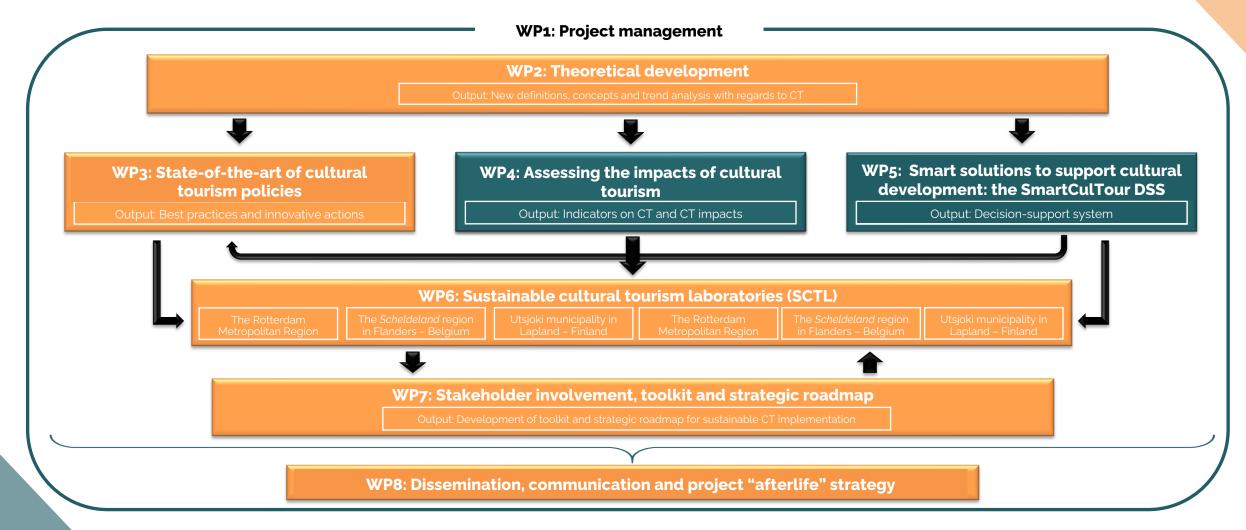


OPINIE 'Zo blijft uw beleggingsportefeuill e overeind in een berenmarkt'



A Bankiers die tegen de stroom in roeien: 'Adviesbeheer is private banking pur sang'

DATA WITHIN SMARTCULTOUR PROJECT









SmartCulTour Living Labs

Living Labs are real-life test and experimentation environments, where users and producers cocreate innovations, in a trusted, open ecosystem that enables business and societal innovation. Living Labs enable the co-creation of user-driven and human-centric research, development and innovation of technologies, product and services focused on wellbeing of people.

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Living Labs +50

Stakeholders involved 18

Tourism case studies











02 DIMENSIONS OF INDICATOR SELECTION



Indicators needed in order to (i) measure state and characteristics of the destinaton, and (ii) identify whether cultural tourism contributes to sustainability and resilience





03

PROPOSED INDICATORS: SUSTAINABILITY

ENVIRONMENTAL SUSTAINABILITY

Landscape and biodiversity protection, energy usage, water management, solid waste management, climate change, tourism development intensity, reducing transport impact, visitor perception, resident perception

SOCIAL SUSTAINABILITY

Perception of residents, tourism development intensity, inclusion/accessibility, community outlook (participation)

ECONOMIC SUSTAINABILITY

Tourism flow (volume and value) at destination, tourism enterprise(s) performance, sustainable tourism policy and planning, visitor perception

CULTURAL SUSTAINABILITY

Protecting and enhancing cultural heritage (assets), the intensity of cultural tourism development, perception of residents

No. of indicators: 46





PROPOSED INDICATORS: RESILIENCE

RESILIENCE TO WHAT?

Definition of disturbance or shock and the indicator for shock (environmental, economic, social, political)

RESILIENCE OF WHAT?

Definition of the unit of the analysis and indicator (country, region/NUTS level, destination/Living lab area, LAU)

RESILIENCE OVER WHAT PERIOD?

Time scale of the analysis (year, period, etc.)

No. of indicators: 14





PROPOSED INDICATORS: CULTURAL TOURISM



Cultural education, education in tourism management

INCLUSION & PARTICIPATION

Visitors (cultural attractions, events and museums), participatory processes, social cohesion

No. of indicators: 45







O4 DATA COLLECTION PROCESS

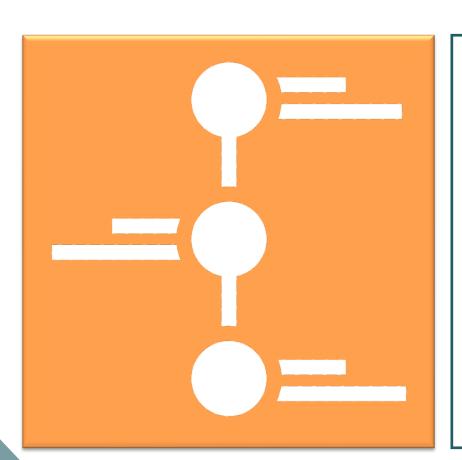


- Quantitative and qualitative data obtained from the official statistics on LAU and NUTS-2 level
- The qualitative LAU-level data regarding policies and strategic documents required an in-depth analysis by each partner
- Data for several LL/LAU indicators have been obtained via resident surveys and webscraping (TripAdvisor)





O4 DATA COLLECTION PROCESS



- Partners were expected to collect data for each LAU between 2007 and 2019 (initally), except for resident and visitor data that refer to just one baseline year
- Since the last global economic/financial crisis started in 2007, this year was chosen as the starting point of the analysis (for the resilience analysis)
- Decision was made to omit the indicators with less than 60% of the observations → from 105 to 49 indicators

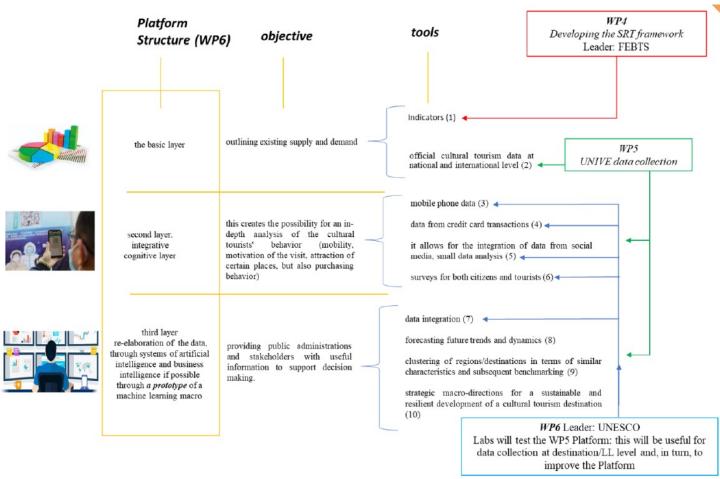






GOALS OF SMARTCULTOUR DATA VISUALIZATION

- Implementation of a DSS to allow a systematic exploitation of indicators as well as the use of additional unofficial data sources and big data
- Objective of the DSS (i.e. SmartCulTour Platform) was to create additional information to support living lab innovations



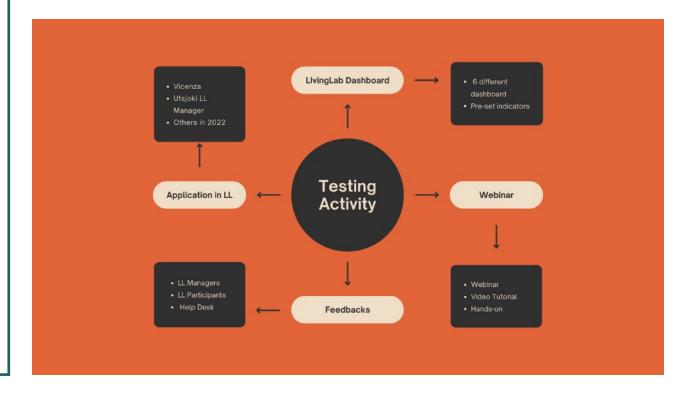




06 TESTING OF FIRST MOCK-UP DASHBOARD

- First DSS version tested with
 SmartCulTour LLs via webinar, video tutorial, train the trainer, questionnaire
- From analysis of feedback → Creation of guidelines and implementation of suggested improvements
- Final DSS divided into 3 parts:
 - i. Living Labs (Basic/Advanced)
 - ii. Regional/National Insights
 - iii. Living Labs (Premium)

http://www.smartcultour.eu/smartcultour-platform/







CONTENT: LIVING LABS (BASIC/ADVANCED)







CONTENT: REGIONAL/NATIONAL INSIGHTS



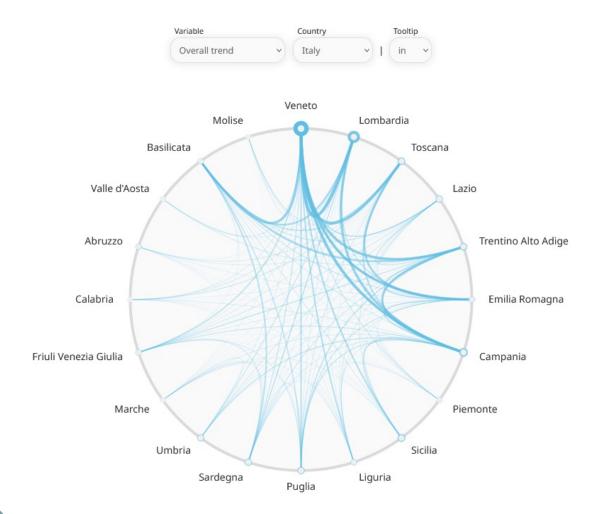
- Provides a regionalization for all EU NUTS-2 levels of the Travel & Tourism Competitiveness Index of the World Economic Forum
- EU regions can benchmark themselves with other regions or with the EU average





07

CONTENT: REGIONAL/NATIONAL INSIGHTS

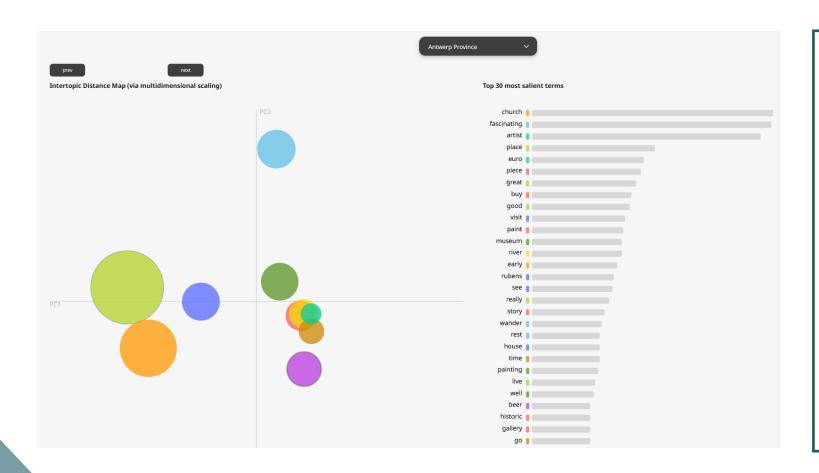


- A second regionalized visualization is the Tourism Flow contagion
- Analyses based on time series data and identifies the effects of regional tourism growth on other regions in a country
- Two trends analysed: overall trend in arrivals and seasonality





CONTENT: LIVING LABS (PREMIUM)

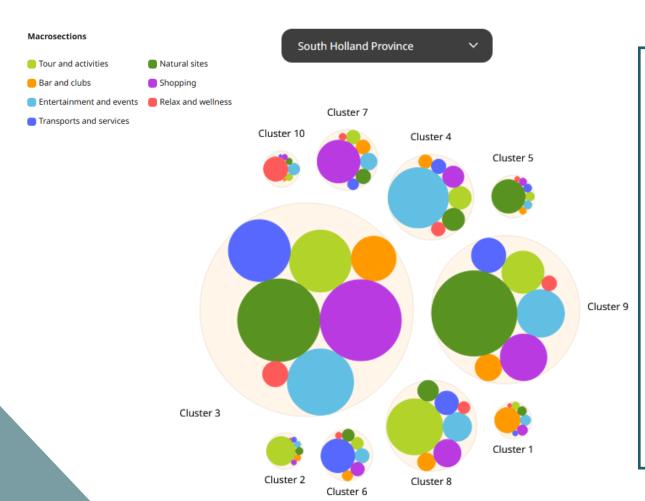


- Intertopic clustering links review topics together on destination level
- Based on 5-year scraped data on NUTS-2 level, reviewing museums, buildings, sights, natural attractions, guided tours, shopping, transportation, ...
- Output represents
 clusters of words that are
 used more often together





CONTENT: LIVING LABS (PREMIUM)



- Data clustering links interests together on reviewer-level (i.e. looking across all reviewed attractions in the destiation by a user)
- Based on scraped data on NUTS-2 level
- Identifies links in reviewed attractions (by subtopics) per reviewer to create typologies of visitors
- Size of cluster indicative of magnitute of groups in total

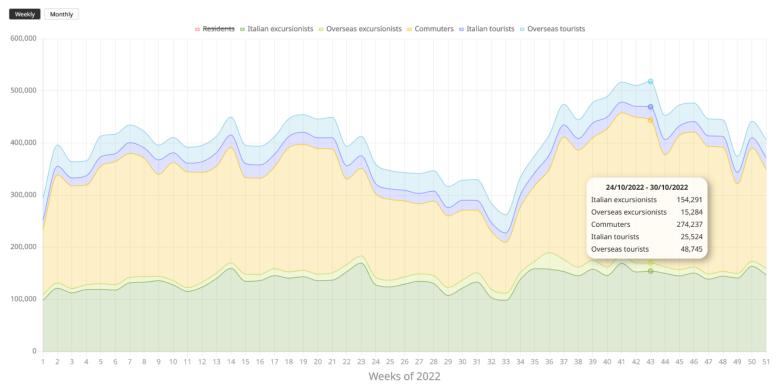




CONTENT: LIVING LABS (PREMIUM)



«Tourist presence» refers to the number of tourists visiting Vicenza in the given months of 2022. The data is organized and grouped into six distinct travellers/residents categories for analysis.



- Telco Tourist Trends
 Visualizer only adopted for
 Vicenza (as use case)
- Indications of relative size of overnight/day tourists, excursionists, and commuters
- Indicates origins of market (locally for excursionists, nationally for day tourists, and nationally + internationally for overnight tourists)







08 CONCLUSIONS ON DATA STRATEGIES

- Evident **lack of LAU level data** for many relevant indicators → these data are vital when studying sustainability and resilience at destination level
- Methodological **inconsistencies accross countries and time periods** \rightarrow need for common framework on indicators, definitions, concepts and units of measurement
- Need for clear **responsibilities on data collection**. And when integrating local stakeholders, how to keep quality assurances?
- Lack of long time-series data diminishes the ability to apply sophisticated data analysis
- Data without interpretation has little effect → need to actively engage with data together with stakeholders
- Future outlook (e.g. scenario analysis, cause-effect modeling, digital twins) potentially more important than historical data, yet data usually only available with significant lags







You're saying it's a falsehood. And they're giving — Sean Spicer, our press secretary, gave alternative facts to that



Kellyanne Conway (2017)



Onderdag 5 september 2019, 13:05 CEST

Bezoekerscijfers breken records: toerisme in Gent blijft stijgen



De zomermaanden juli en augustus hebben weer bijzonder veel bezoekers naar Gent gelokt. Het Gravensteen en de Sint-Baafskathedraal werden nooit eerder zo druk bezocht. De cijfers bevestigen de gekende trend: Gent staat steeds meer op de radar als citytrip-bestemming.

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DEEL DIT BERICHT





























