

# Demand-side Indicators for Sustainable Holiday Travel: What consumers can tell us

Measuring Sustainability in Tourism – Opportunities and Limitations

Day 2, Workshop 5

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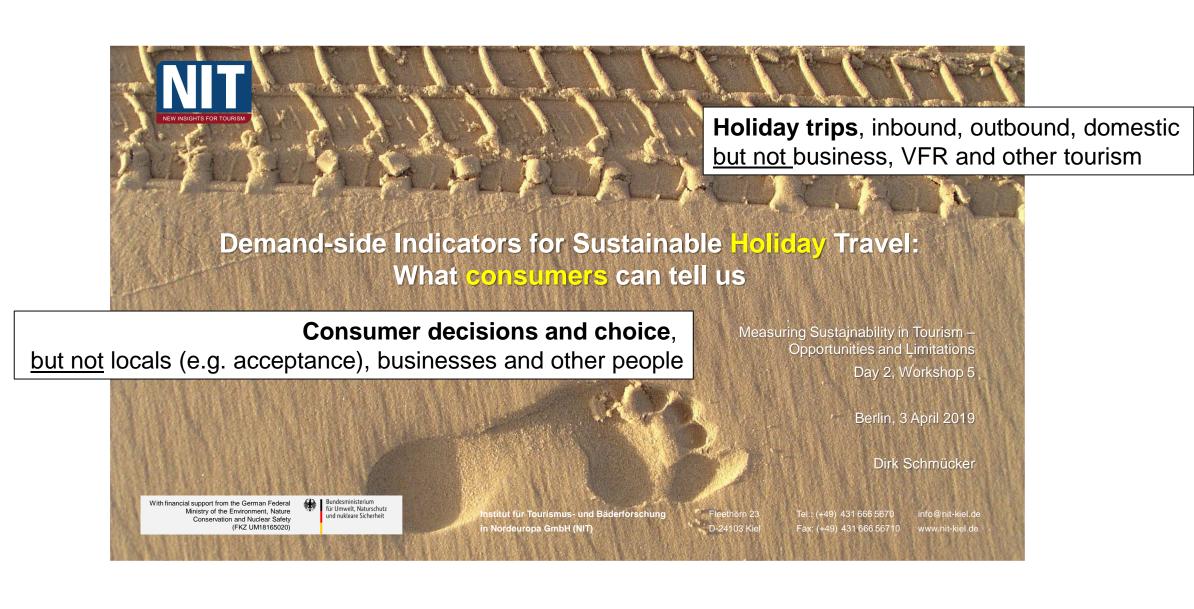


... because people in Europe care about sustainability:

59% think you should measure progress of a country based equally on social and environmental criteria and on economic criteria.

75% have a positive attitude towards environmentally friendly products even if they cost a bit more

Source: European Commission 2014, Special Eurobarometer 416, ATTITUDES OF EUROPEAN CITIZENS TOWARDS THE ENVIRONMENT



## Agenda



- What can we expect from demand-side research?
- Selected first results from a recent German study
- Implications and discussion

## **Supply side – demand side perspectives**





#### **Describe and explain**



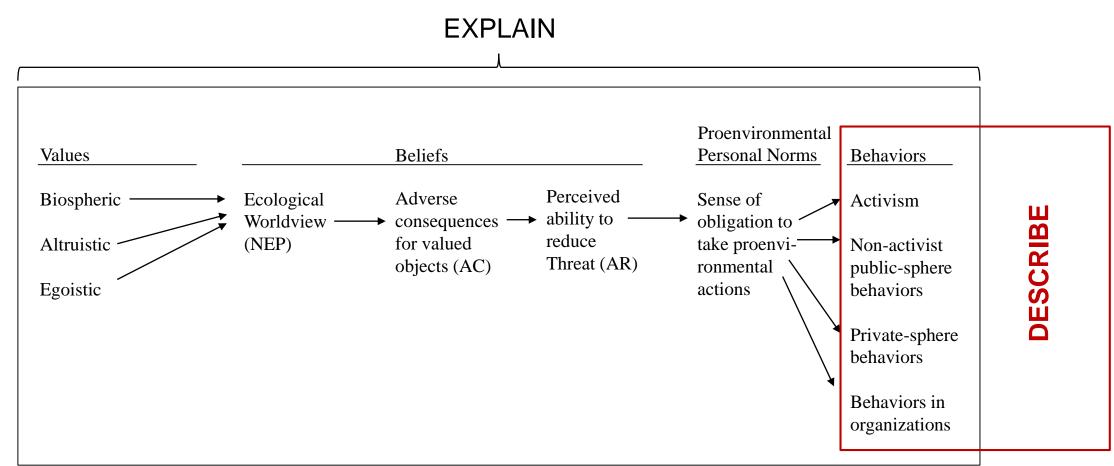


Figure from: Stern, Paul C. 2000. "New Environmental Theories: Toward a Coherent Theory of Environmentally Significant Behavior". *Journal of Social Issues* 56 (3): 407–24. https://doi.org/10.1111/0022-4537.00175.

#### **Gather information about consumers**





- Observe people
- Observe their **traces** (i.e. electronic signals)



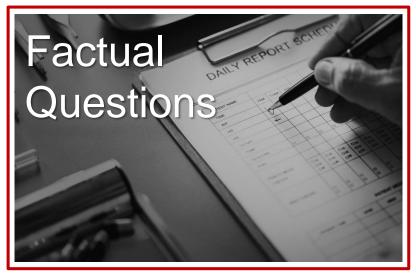
- In personal interviews, by phone or online
- Respondents must be willing and able to respond

#### **Basic question types**





- Questions try to gather information about attitudes, emotions and their feelings, opinions, ratings and preferences etc.
- Answers cannot be checked by some objective third – not even in principle



- Try to gather information about facts, e.g. travel behaviour
- Answers could be checked by some objective third – in principle

#### Potential flaws when asking people





- Questions try to gather information about attitudes, emotions and their feelings, opinions, ratings and prefreences etc.
- Facts cannot be checked by some objective third – not even in principle

Statistical sampling errors

Flawed sampling (systematic biases)

Flawed Q&A (people misunderstand, don't know, lie, or don't care)



- Try to gather information about facts
- Facts could be checked by some objective third – in principle



- "It is **not known how many** tourists display environmentally sustainable behaviour."
- "Estimates in this empirical study vary from 0% to 44%."
- "Responses are affected by **how tourists are asked** about their behaviour."
- "And by whether **the definition** of such behaviour includes intent."
- "More observational studies are urgently needed."

Juvan, Emil, and Sara Dolnicar. 2016. "Measuring environmentally sustainable tourist behaviour". *Annals of Tourism Research* 59 (July): 30–44. https://doi.org/10.1016/j.annals.2016.03.006.

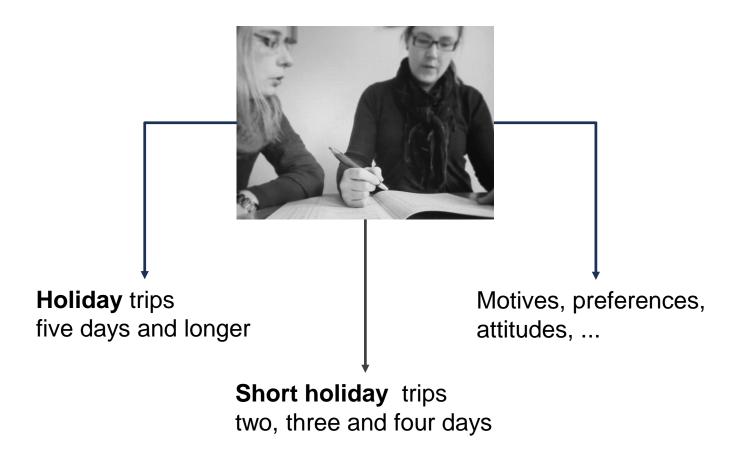
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#### **Data source: Reiseanalyse**

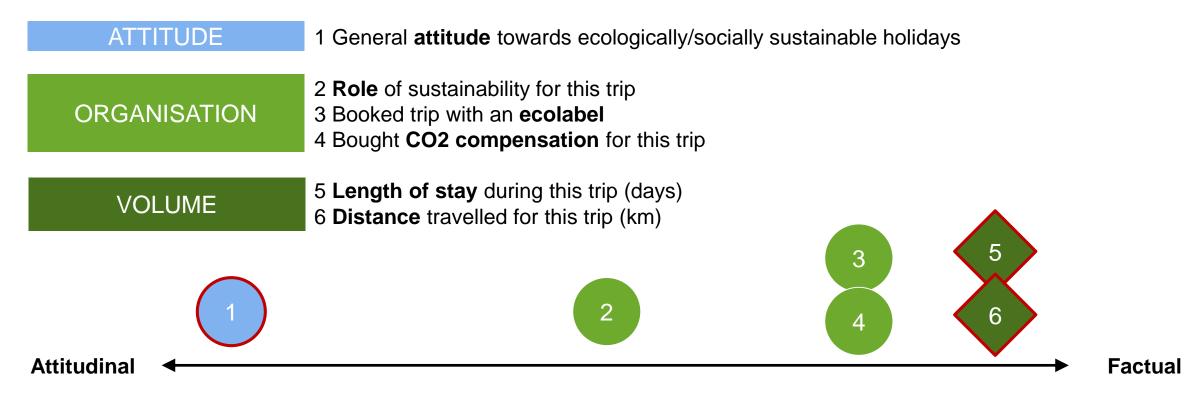




- ~ 8,000 face-to-face in-home interviews in January, representing German-speaking population in Germany, 14 years and older (70.5 m)
- 2 x 2,500 online interviews in May and November, representing German-speaking (online) population in Germany, 14-75 years (64.5 m)
- Started in 1970 (old FRG), extended to reunified Germany in 1991, extended to cover non-Germans in 2010
- Owner: FUR (Forschungsgemeinschaft Urlaub und Reisen e.V.)

## Six demand side indicators for sustainable holiday travel

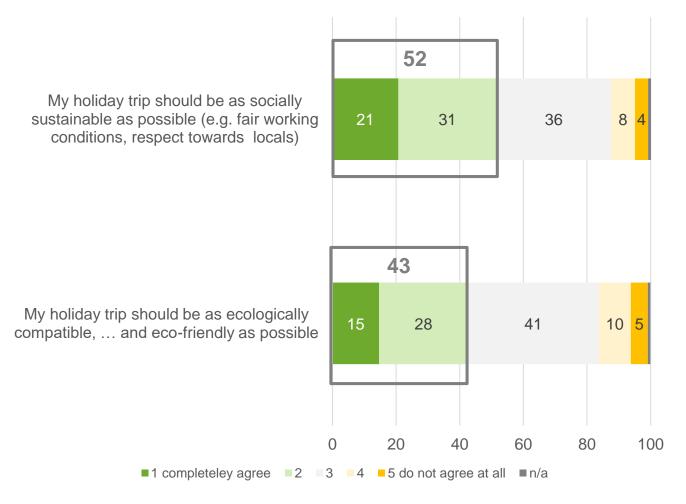


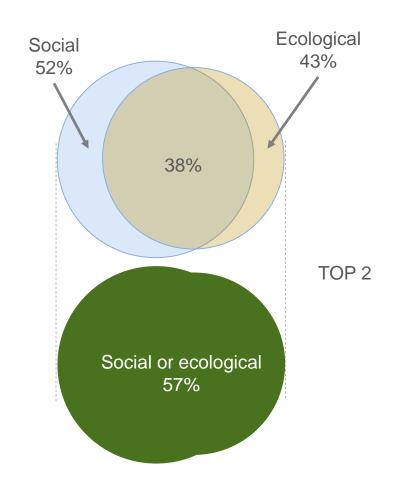




#### Attitude towards sustainability in holiday travel, 2019







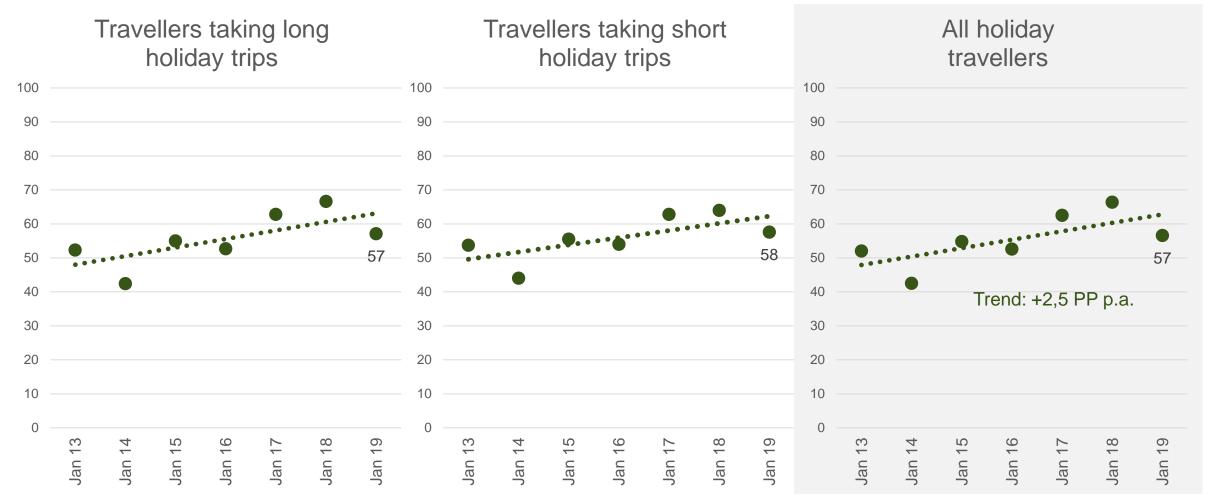
"If you think of holiday trips in general, regardless of a specific destination. How do you prefer to spend your holiday trips?"/"Wenn Sie einmal ganz allgemein an Urlaubsreisen denken – unabhängig von einem konkreten Reiseziel: Auf welche Weise gestalten Sie am liebsten Ihre Urlaubsreisen?" 2 from 7 items.

Base: Holidaymakers, German-speaking population in Germany 14 years and older,, RA 2019 face-to-face, Figures are given as percentage

## Positive attitude growing, 2013-2019





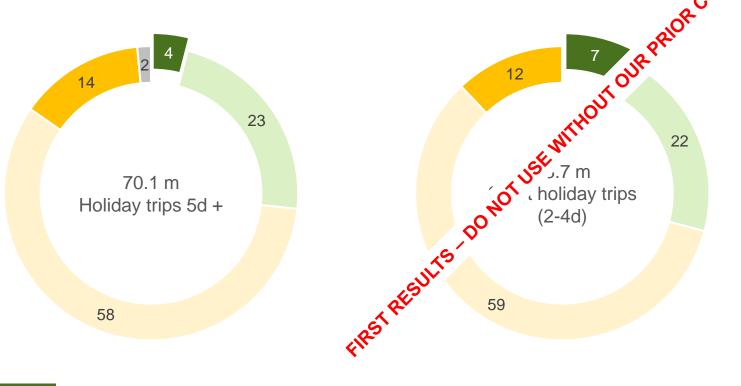


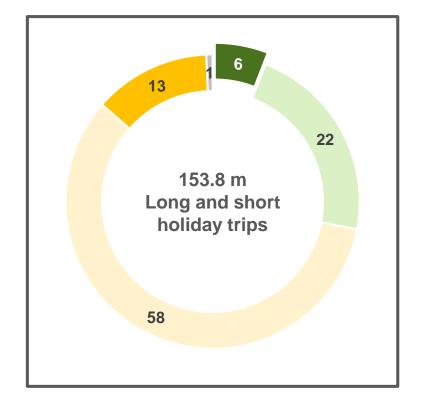
"If you think of holiday trips in general, regardless of a specific destination. How do you prefer to spend your holiday trips?"/"Wenn Sie einmal ganz allgemein an Urlaubsreisen denken – unabhängig von einem konkreten Reiseziel: Auf welche Weise gestalten Sie am liebsten Ihre Urlaubsreisen?", TOP 2 social or ecological sustainable

Base: Holidaymakers, German-speaking population in Germany 14 years and older, n=6,37, 58.6 Mio., RA 2019 face-to-face, Figures are given as percentage

## Role of sustainability for this trip







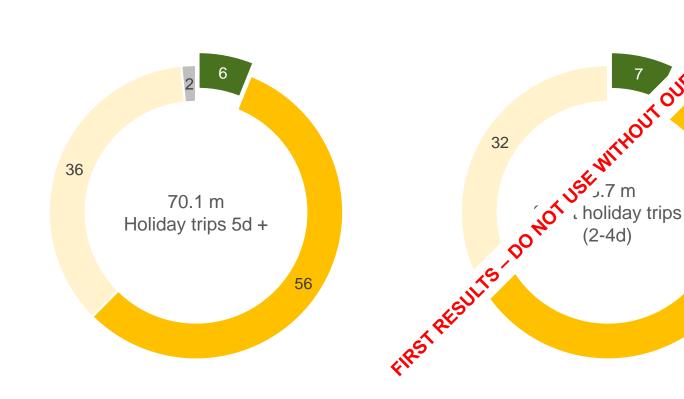
Sustainability decided between products that were equivalent
Sustainability was one aspect, besides others
Sustainability was of no importance for this trip
Sustainability is generally not of interest to me
n/a

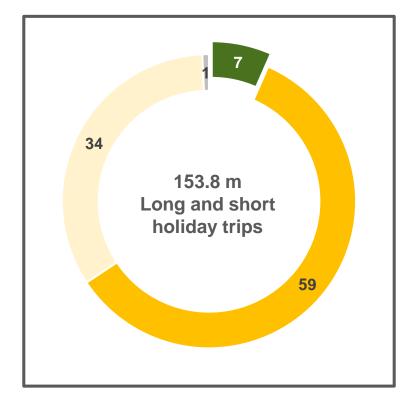
"Thinking back to your last holiday trip: Which of the following statemens applies?"/"Wenn Sie einmal an diese Urlaubsreise nach zurückdenken: Welche der folgenden Aussagen trifft zu?;

Holiday trips 5d+, without trips of accompanying children, Base: Holidaymakers, German-speaking population in Germany 14 years and older, RA 2019 face-to-face; Short holiday trips 2-4d (1st, 2nd and 3rd trip in a half-year), without trips of accompanying children, Base: German-speaking population in Germany 14-75 years, RA 11/2018 online, Figures are given as percentage

#### Use of ecolabels





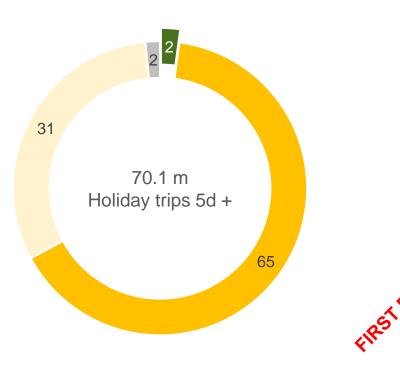


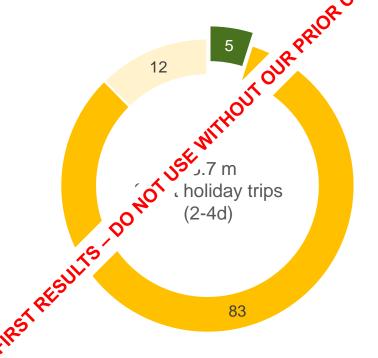


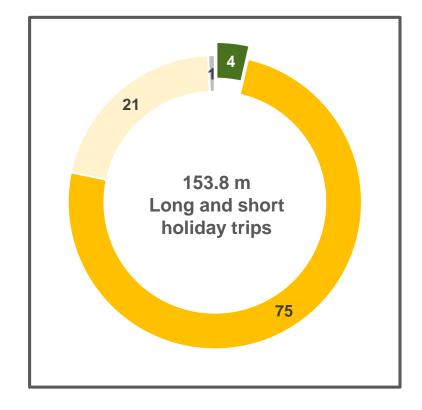
"Did the accommodation or the tour operator have an ecolabel or some specific sustainability mark?"/"Hatten die Unterkunft oder der Reiseveranstalter bei dieser Urlaubsreise ein besonderes Umweltzeichen (Ökolabel, etc.) oder eine besondere Nachhaltigkeitskennzeichnung?"; Holiday trips 5d+, without trips of accompanying children, Base: Holidaymakers, German-speaking population in Germany 14 years and older, RA 2019 face-to-face; Short holiday trips 2-4d (1st, 2nd and 3rd trip in a half-year), without trips of accompanying children, Base: German-speaking population in Germany 14-75 years, RA 11/2018 online, Figures are given as percentage

#### **Use of CO2 compensation**







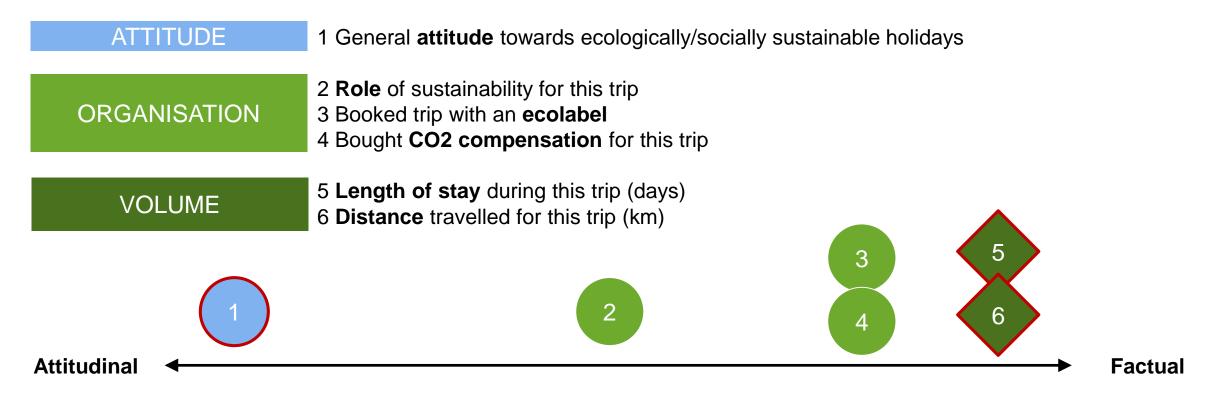




"Did you buy a CO2 compensation for transport or sojourn during this trip (e.g. Atmosfair, myClimate)?"/"Haben Sie bei dieser Urlaubsreise eine CO2-Kompensation für An- und Abreise oder Aufenthalt getätigt (z. B. bei Atmosfair, MyClimate)?"; Holiday trips 5d+, without trips of accompanying children, Base: Holidaymakers, German-speaking population in Germany 14 years and older, RA 2019 *face-to-face*; Short holiday trips 2-4d (1st, 2nd and 3rd trip in a half-year), without trips of accompanying children, Base: German-speaking population in Germany 14-75 years, RA 11/2018 *online*, Figures are given as percentage

## Six demand side indicators for sustainable holiday travel



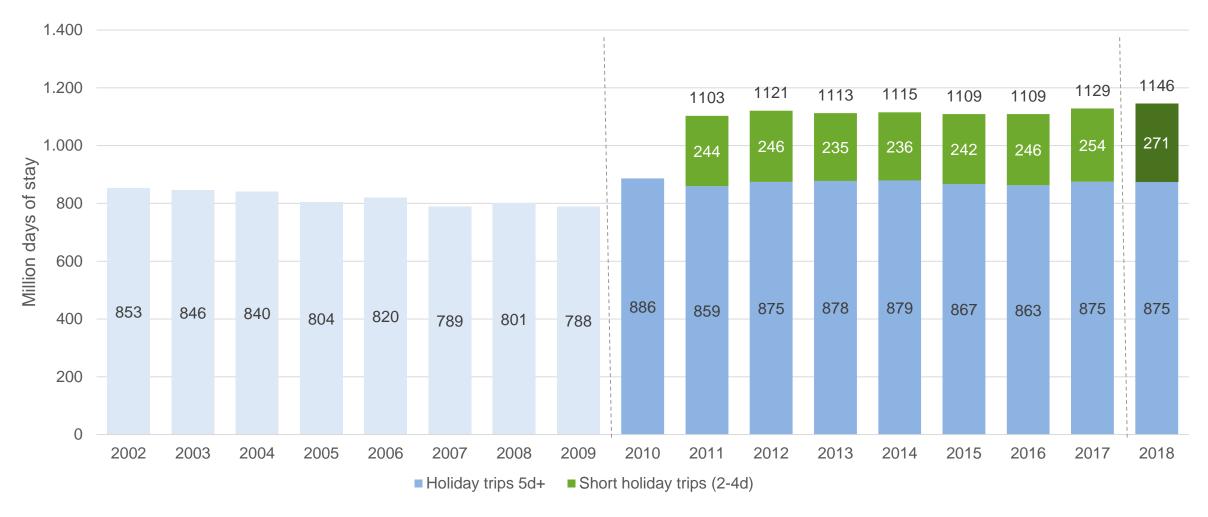




## Million days of stay on holiday trips, 2002/2011 up until 2018





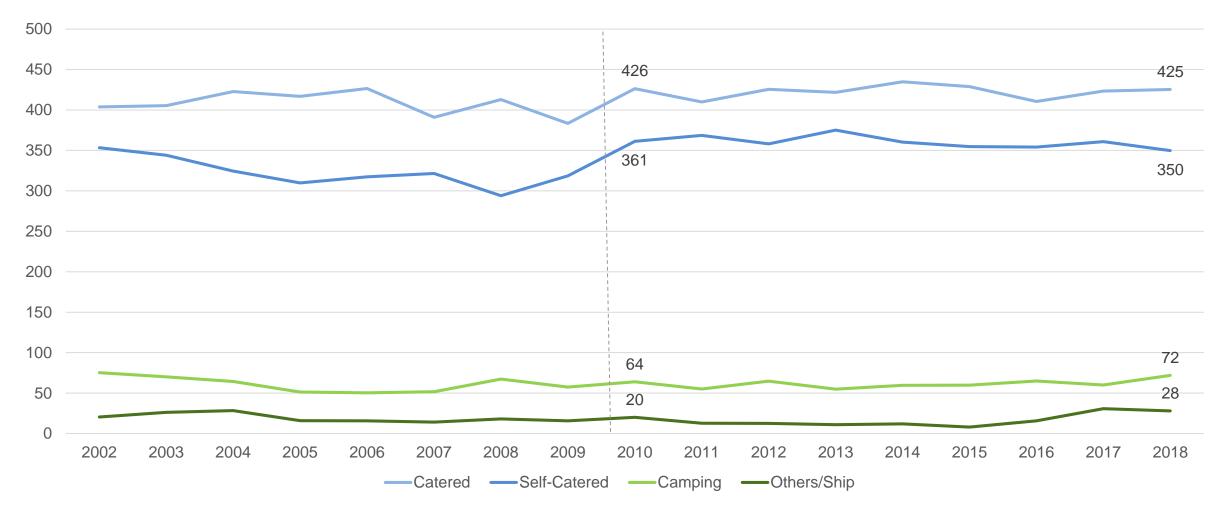


Holiday trips 5d+, without trip of accompanying children, Base: German-speaking population in Germany, 14 years and older, up to 2010: Germans only, RA 2003-2019 face-to-face
Short holiday trips 2-4d (1st, 2nd and 3rd trip in the half-year), without trips of accompaniying children. Base: German-speaking population in Germany, 14-75 years, up to 2017: 14-70 years, RA 2012-2019 online

## Million days of stay, by type of accommodation (holiday trips 5d+ only)







Holiday trips 5d+, without trip of accompanying children, Base: German-speaking population in Germany, 14 years and older, up to 2010: Germans only, RA 2003-2019 face-to-face

## Distance travelled (bn. Km, one-way), 2002/2011 up to 2018

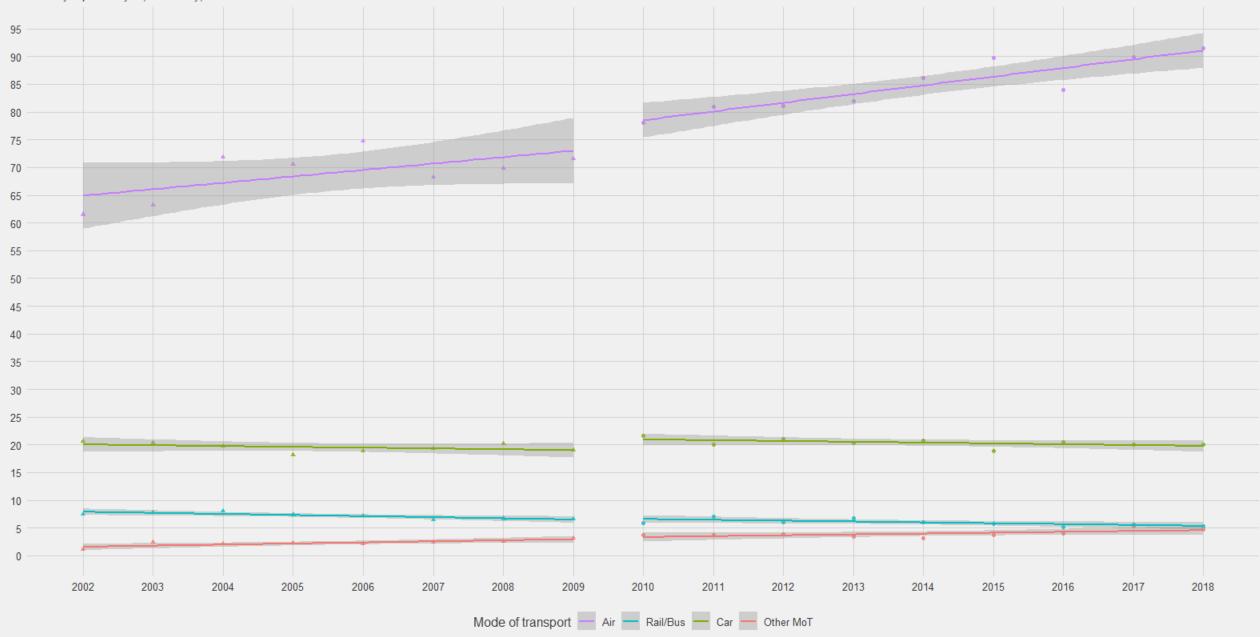




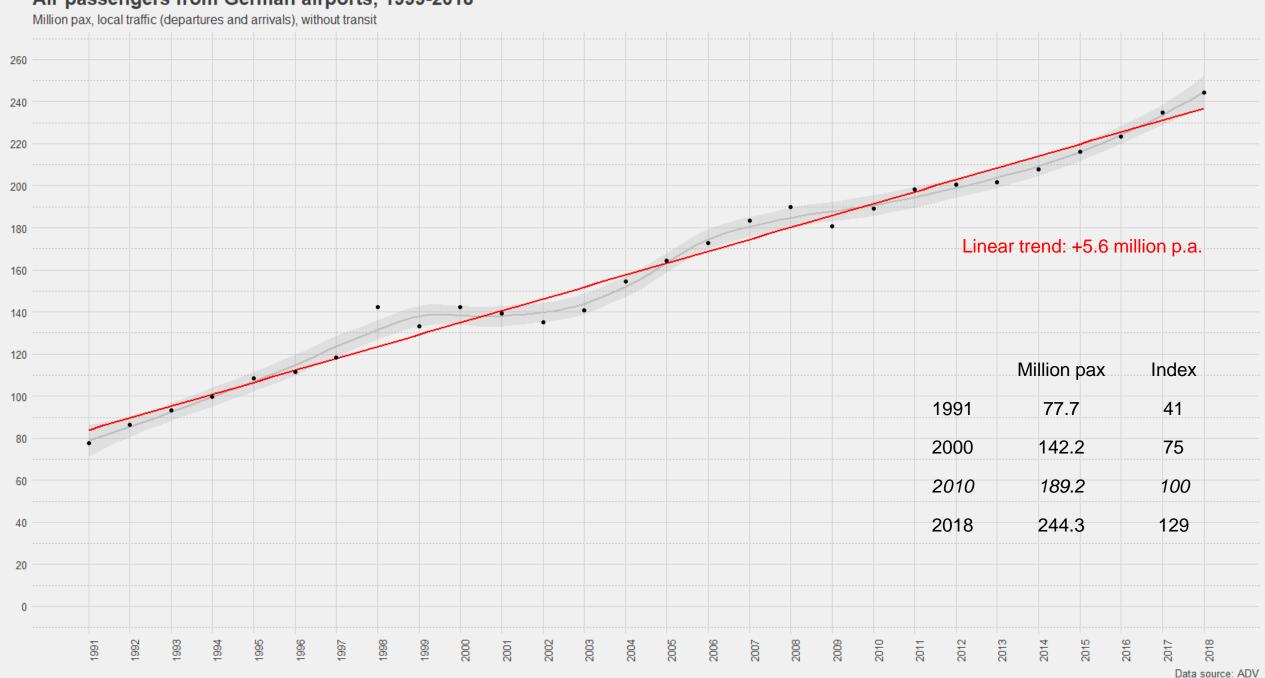


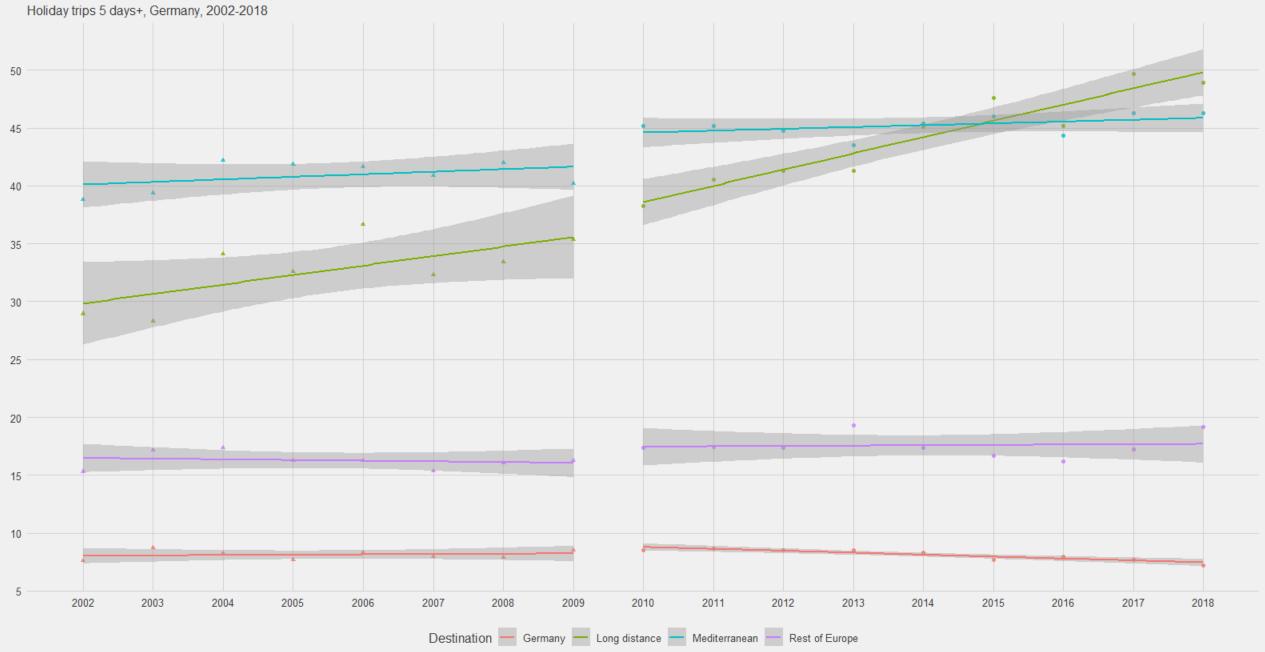
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Holiday trips 5 days+, Germany, 2002-2018



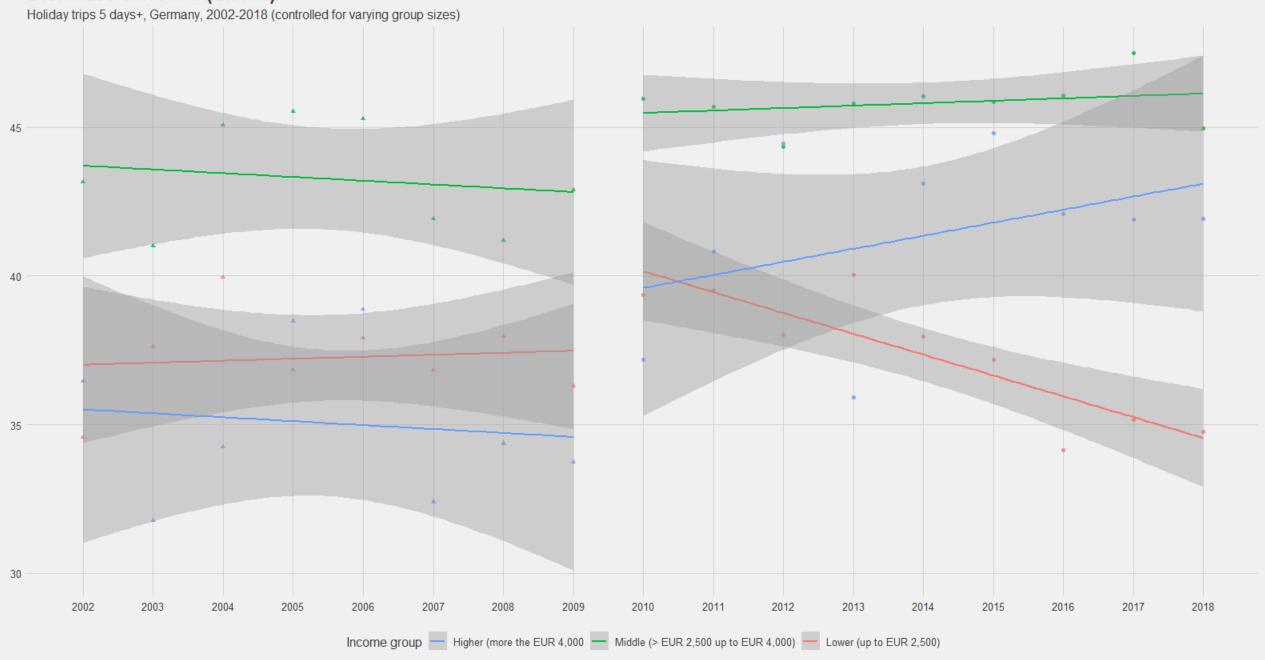
#### Air passengers from German airports, 1999-2018







Social group Upper social group (1-2) Middle social group (3-5) Lower social group (6-7)



## All indicators by income groups





	Income group	Lower (up to EUR 2,500)	Mir' EUR 2,500 - 4,000)	Higher (more than EUR 4.000)	Total
BASE	Million persons	32.5	24.2 34%	13.7	70.5
	Share (%)	46%	34%	20%	100%
VOLUME	Million holiday trips 5d+	2F_ 00	26.6	18.3	70.1
	Million short holiday trips 2-4d	you;	30.4	26.6	83.7
	Total: Million holiday trips	MITHOUT J1.9	57.0	44.9	153.8
	Share (%)	34%	37%	29%	100%
	Million days of stay	388.0	437.6	320.8	1,146.4
	Million days of stay  Share (%)	34%	38%	28%	100%
		46.1	56.9	54.1	157.1
	Share (%)  By airplane Share (%)  Share (%)	29%	36%	34%	100%
	By airplane	27.5	36.1	36.7	91.5
	Share (%)	27%	36%	37%	100%
ORGANI- SATION	Share of trips with CO2 compensatio. ported	4%	3%	3%	4%
	Share of trips with ecolabel reported	6%	7%	7%	7%
	Sustainability was decisive for this trip	7%	5%	5%	6%
ATTITUDE	Positive general attitude towards sustainability in holiday trave	55%	58%	56%	57%

## A new perspective on THE GAP





#### Conflict

Wanting two or more things that do not go together

#### Constraint

Financial, temporal, social, physical or other barriers prevent realisation





## All indicators by attitude groups (Holiday trips 5d+ only)





	Income group  Million persons  Share (%)  Million holiday trips 5d+  Share (%)  Million days of stay  Share (%)	Positive attitude	No positive attitude	Total
BASE	Million persons	39,2	31,3	70.5
	Share (%)	56%	44%	100%
VOLUME	Million holiday trips 5d+	40,2	29,9	70.1
	Share (%)	57%	43%	100%
	Million days of stay	497,4	377,7	875
	Share (%)	57%	43%	100%
	Distance travelled, one-we km	68,7	52,9	121.6
	Share (%)	56%	44%	100%
	Share (%)  By airplane	51,9	39,6	91.5
	Share (%)	<b>57%</b>	43%	100%
ORGANI- SATION	Share of tr, s with CO2 compensation reported	3%	1%	2%
	Share of trips with ecolabel reported	9%	2%	6%
	Sustainability was decisive for this trip	6%	2%	4%
	Sustainability was one aspect besides others	29%	15%	23%

Holiday trips 5d+ (without trips of accompanying children). Base: German-speaking population 14 years and older in Germany, RA 2019 face-to-face

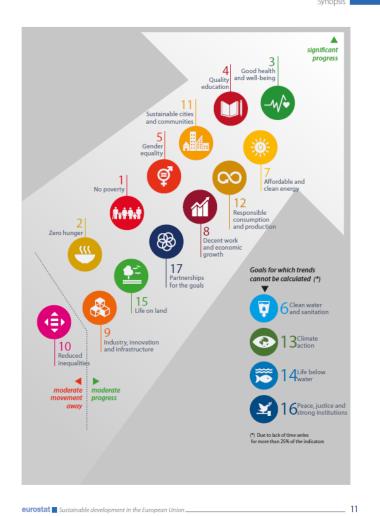
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#### **Demand side indicators and SDG**





Marine conservation

European citizens depend in many ways on the services that marine ecosystems provide, including fish and seafood, coastal protection, degradation of pollutants and climate regulation. In addition, the marine environment offers recreation and tourism opportunities. The European Commission and Member States have taken multiple steps to combat the loss of aquatic habitats and biodiversity, which poses a serious threat to human livelihoods, food security and climate stability (1). A crucial step in terms of the protection of habitats and biodiversity has

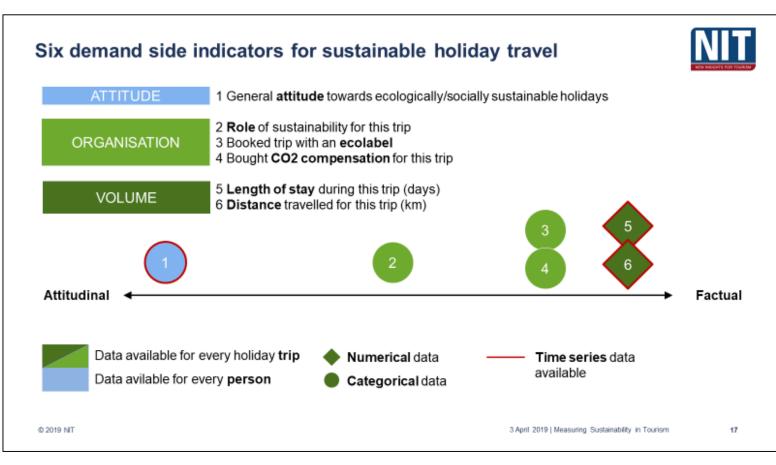
The word "tourism" appears exactly once in this 356 pages report

Taken from: Eurostat. 2018. "Sustainable development in the European Union". Luxembourg. https://ec.europa.eu/eurostat/documents/3217494/9237449/KS-01-18-656-EN-N.pdf/, p. 11, p. 261

#### **Guiding questions**



- Which experience do you have with demand-side indicators from your city, region, country, continent, industry?
- What could by advantages and disadvantages of demand-side indicators, compared to supply-side indicators?
- 3. Which demand-side indicators, if any, would you find **useful** for measuring sustainabilty in tourism? Under which **conditions**?





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