

Big Data Enabling Tourism Competitiveness 8 March 2021

Final remarks
EUROSTAT

Outline of the presentation

Big data : reality check

Big data : some lessons learnt

Big data : some results in the EU

Big data: role in the revision of the legal framework



Reality check



What we are used to

- ⇒Preparing meals with one well-chosen ingredient. Meat or fish.
- ⇒ Producing statistics based on surveys. Households or businesses.







What we want

- ⇒A multi-coloured, multi-flavoured culinary feast
- ⇒An integrated system of traditional and modern sources & methods







Where to find it

⇒In the ocean

⇒... an ocean of data ... that tends to be a bit overcast







How to find it

- ⇒Keep digging (« Digging since 2010 »)
- ⇒... to discover that it's difficult to unveil / access what you found







Lessons learnt



... or main obstacles encountered

⇒New game rules

- ⇒ No longer full control from A to Z: NSIs become producer & customer
- No longer 1 NSIs versus many many data suppliers, but 1 NSIs (or more?) versus a handful of strong oligopolistic players (often international)
- ⇒New dimensions to data protection and statistical disclosure control
- ⇒ Key to success = multi-disciplinary approach

 (not only data people on both sides of the table, but also IT experts, lawyers, public policy teams, lawyers, investor relations teams, ...)

⇒Continuity

- In the case of data access via the back door:
 « Will you still scrape me tomorrow? » (one off vs. longer term?)
- ⇒In the case of data access via the *front door*: obtain privately held data on the basis of agreements or legislation?
- ⇒ If there are only a few players: big impact of a dropout (or even domino effect!)



⇒Impartiality

- ⇒ Data provider can also be the subject of the statistics that will be produced
- ⇒E.g. MNOs versus accommodation platforms
- ⇒ Need for robust validation and other sources to compare with

⇒Infrastructure & ressources

- ⇒ Data volumes can be huge (storage? processing?) → less = more?
- ⇒E.g. first batch of platforms data versus EDAMIS
- ⇒Work on new developments, but also continue business-as-usual



⇒Quality

- Existing quality frameworks can't be used
- ⇒But: there is **no such thing as « the ground truth » -** how we currently do things using 'traditional' sources and methods isn't perfect either





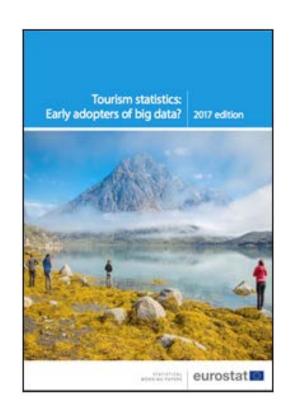


Results (?)



A decade of big data (attempts): results?

- ⇒Lots of experiments! (in all countries)
 - ⇒Experiments show that the data makes sense (and maybe more sense than some traditional sources?)
- ⇒Often « one off » :
 - ⇒Not (yet) leading to regular production,
 - ⇒Not (yet) sufficiently replicable or comparable
- → Tourism statistics remains a very interesting playground for big data





A decade of big data (attempts): results?

⇒Some examples

- ⇒ESSnet (cooperation between NSIs) work package on «innovative tourism statistics» (2018-2020) https://www.youtube.com/watch?v=XMm40HJyyzl
- ⇒ Joint Research Centre (JRC): «Territorial patterns of tourism intensity and seasonality in the EU» https://publications.jrc.ec.europa.eu/repository/handle/JRC117669
- ⇒ECFIN «Tourism in pandemic times: an analysis using real-time big data»

 https://ec.europa.eu/info/sites/info/files/autumn 20 forecast.pdf
 (p70-)





Big data as a katalysor for revising the legal framework



Big data in official tourism statistics?

- ⇒Revision of Regulation (EU) 692/2011 concerning European statistics on tourism
 - → Modernise the legal framework: new user needs, but also potential new sources & methods
 - ⇒**Hybrid system** of traditional and smart surveys, administrative data, big data sources
 - ⇒ **Dilemma**: innovative sources can only be embedded in a legal basis when feasible & ready; but might only be feasible & ready if given a 'legal push'.
 - ⇒ Task Force in 2021 to prepare the blueprint (incl. TSA), and to prepare a draft revised legal basis in 2022 or 2023



Thank you



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