

// TOURISM - Carrying capacity methodology for tourism

Lessons for Sustainable Tourism in Malta

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Setting the frame or “Why should I bother in times like this?”

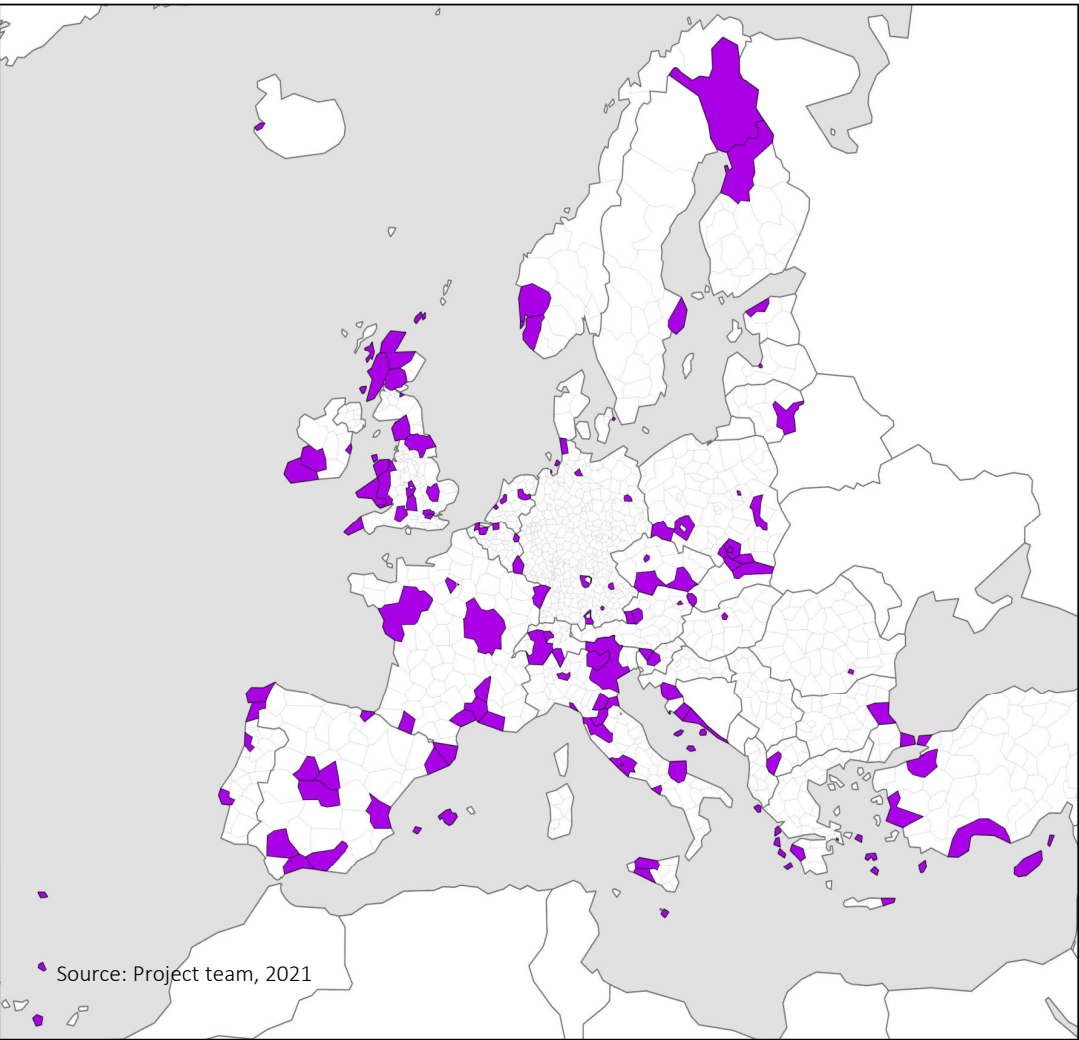
- All tourism destinations are at a cross road → path dependency as economic sector vs. facing the inconvenient truths (Covid19, climate change)
- Shedding some light on how tourism interacts with the region and society will gain importance → decisions are to be taken on the regional/ local level
- Steering tourism and regional development needs „evidence“ → tourism is an economic sector BUT is embedded in a territorial framework
- Sensitive points in the system „tourism and society/ environment“ need to be identified



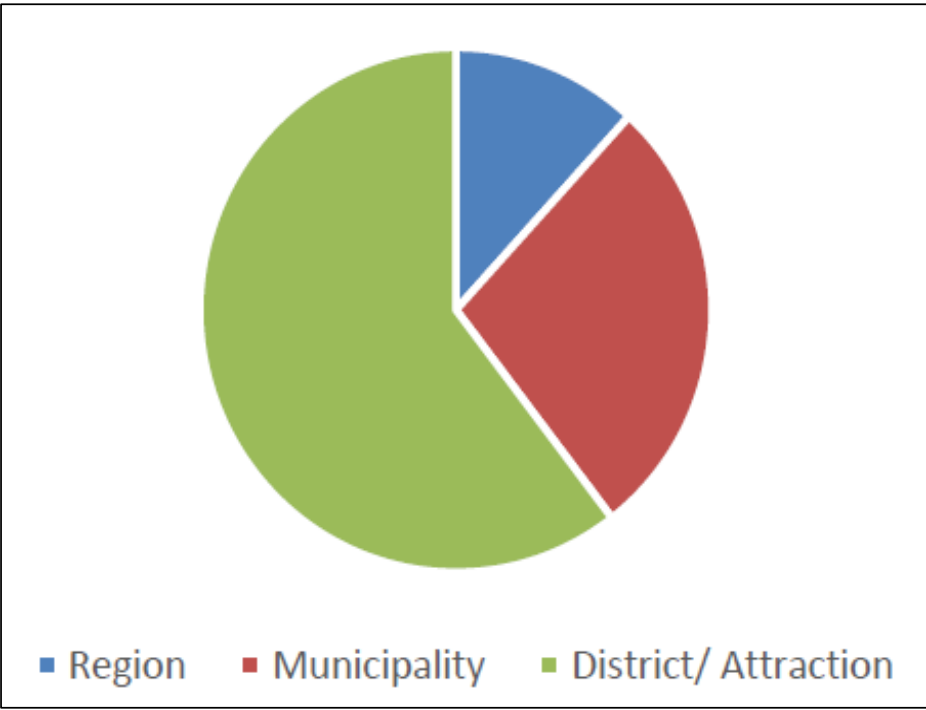
Our method helped there!



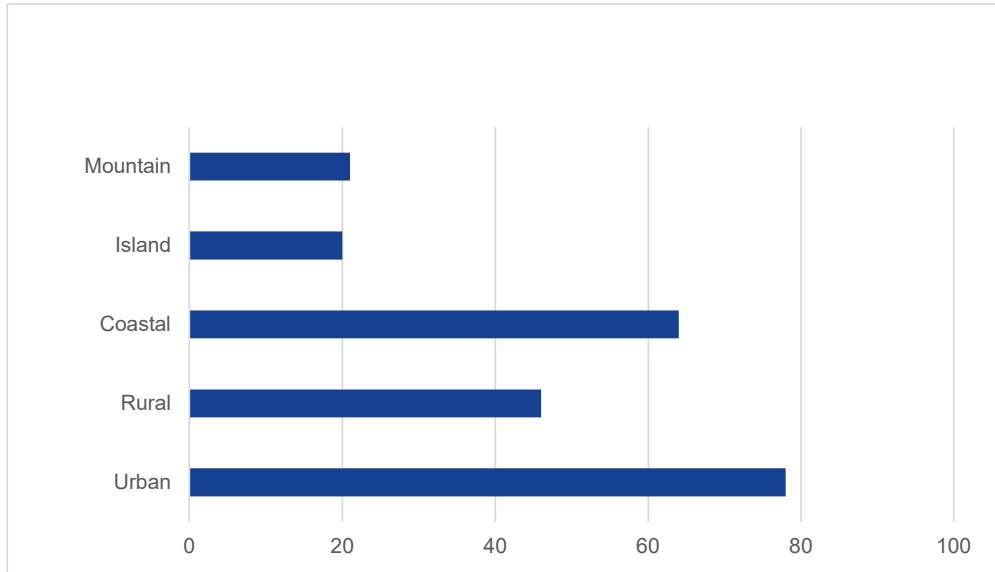
Inventory of overtourism/ unsustainable tourism hot spots



Spatial level where overtourism occurs

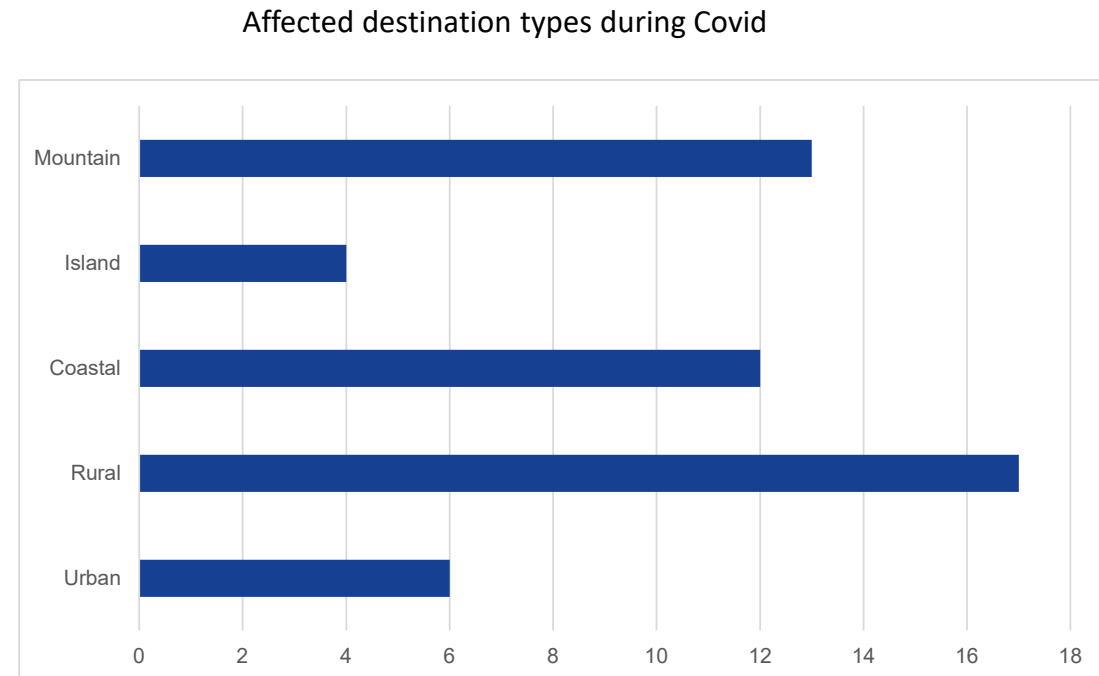


Inventory of overtourism/ unsustainable tourism per type of destination



Affected destination types before Covid

Source: Project team, 2021

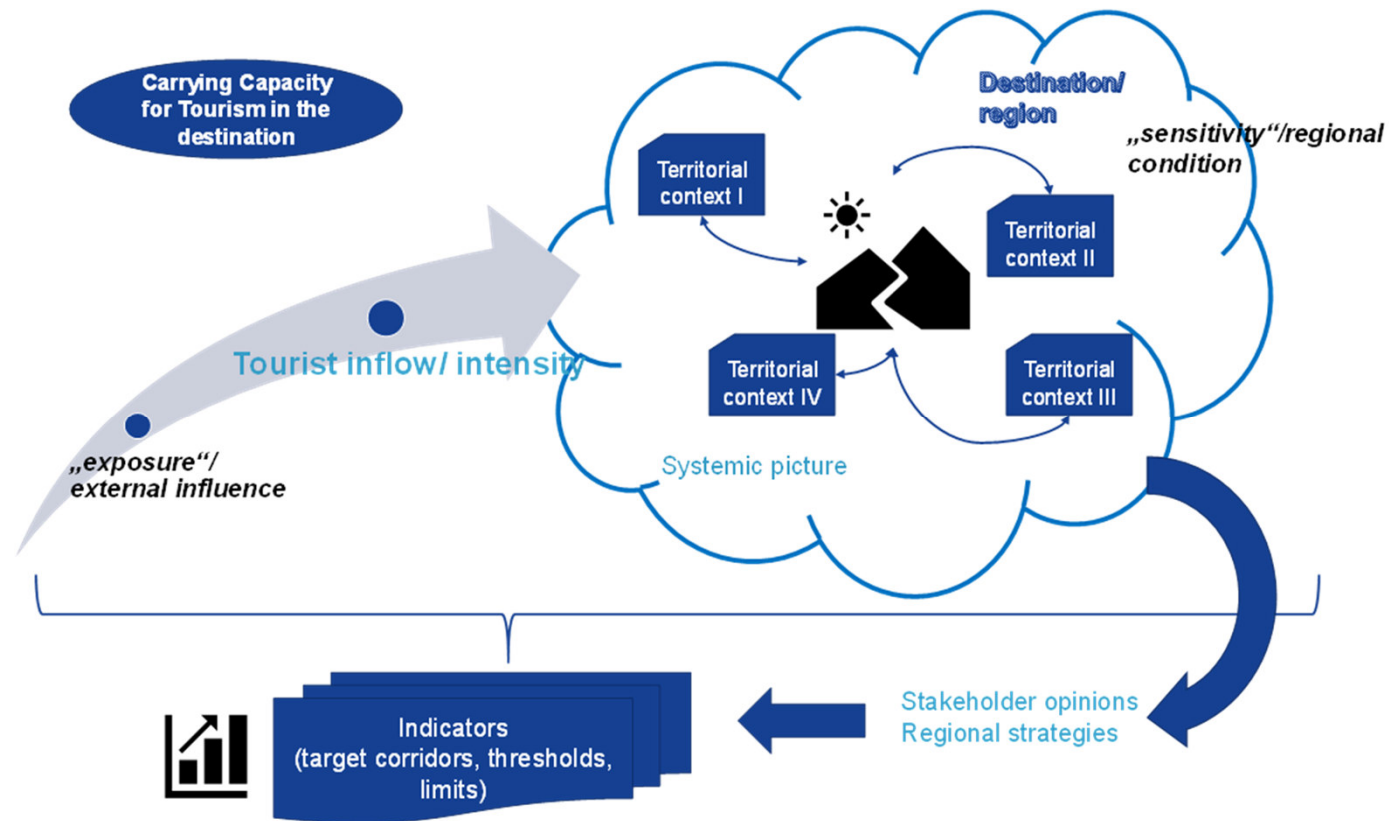




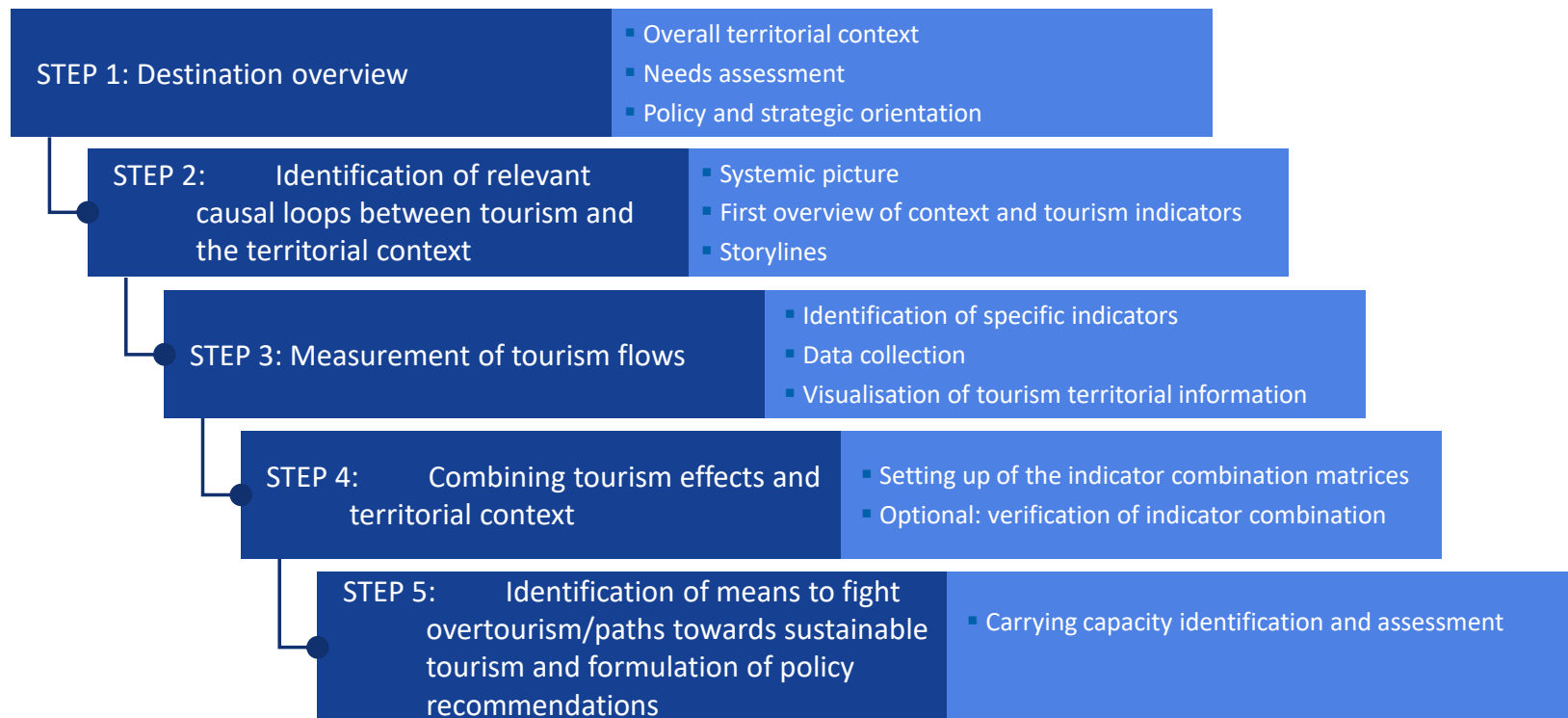
ESPON Tourism – The method



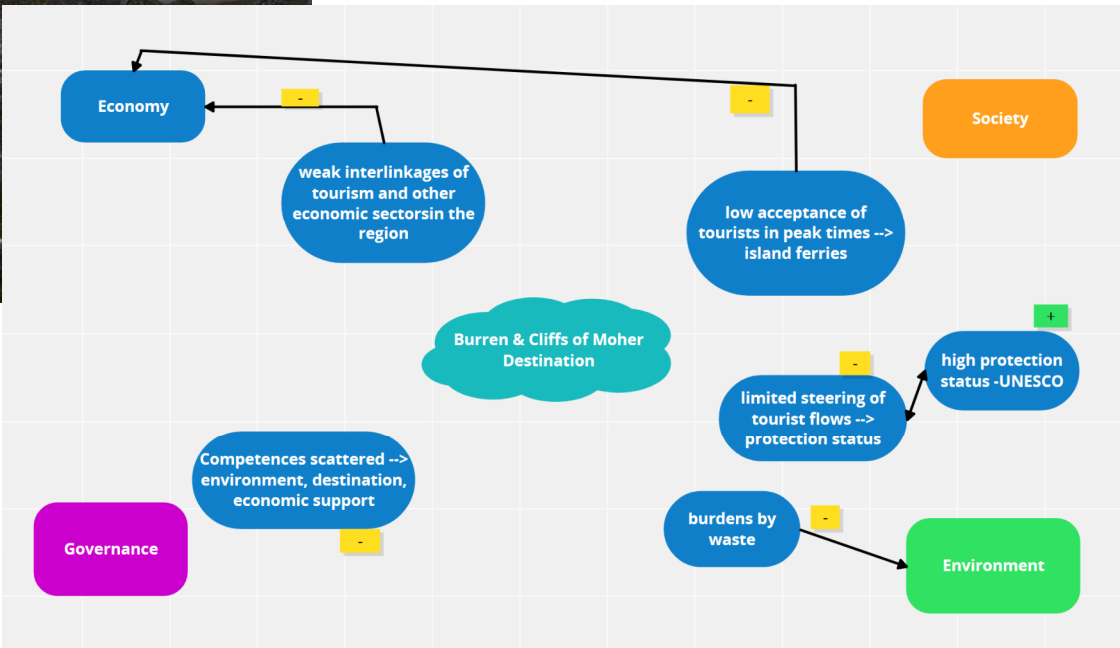
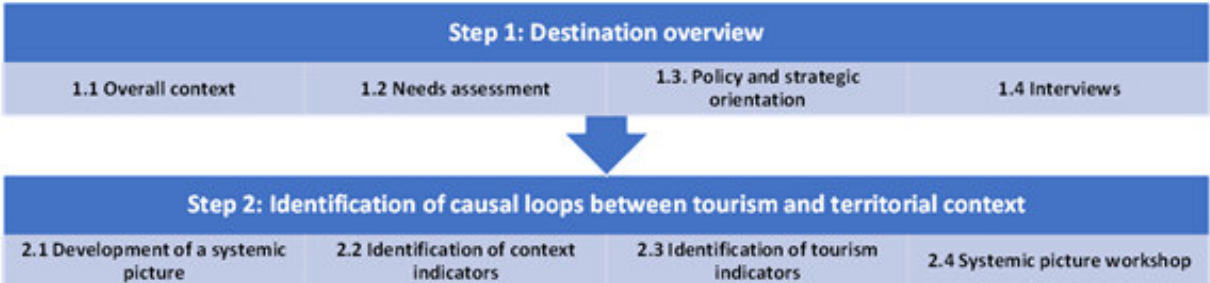
Background to the carrying capacity methodology



Introduction to the methodology



Steps 1 and 2 – our workshop today



Tourism Flows

Step 3: Measurement of tourism flows

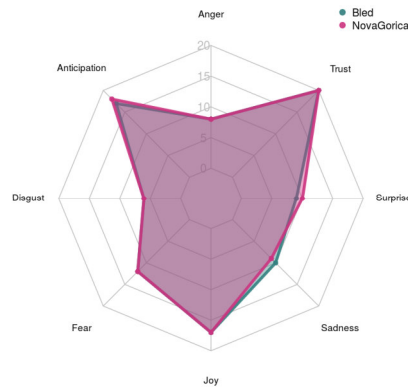
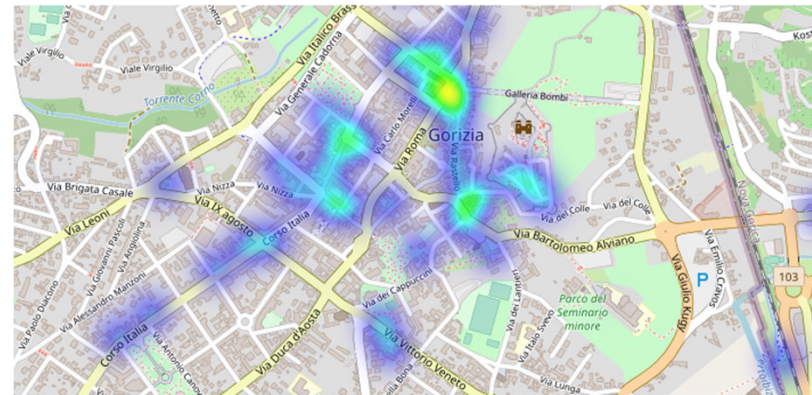
3.1 Data collection

3.2 Tourist flow estimation

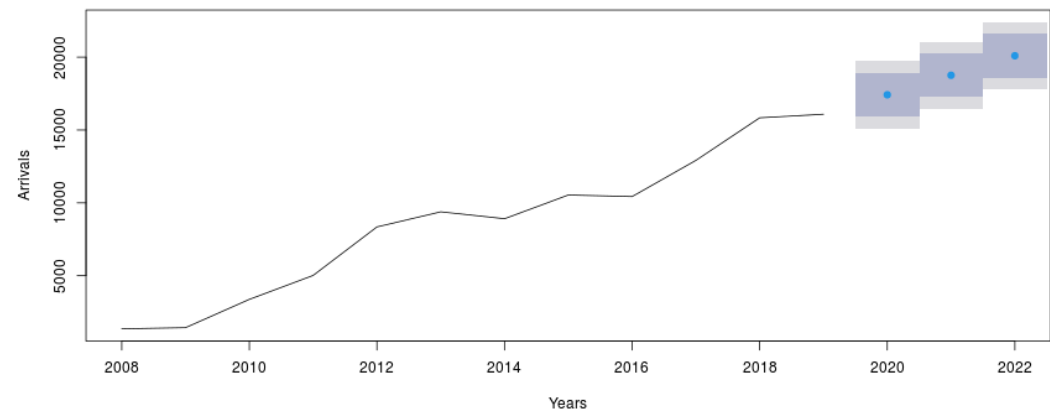
3.3 Tourist flow prediction



- Based on the indicators identified by the destination stakeholders (Step 2)
- Challenges: data availability and accessibility
- Solution: data collection of publicly available statistical data and purchase of big data
- Big data in the dashboard: Instagram data (e.g., sentiment, frequency, etc.) and POIs (points of interest) based on Open Street Map data



Divača

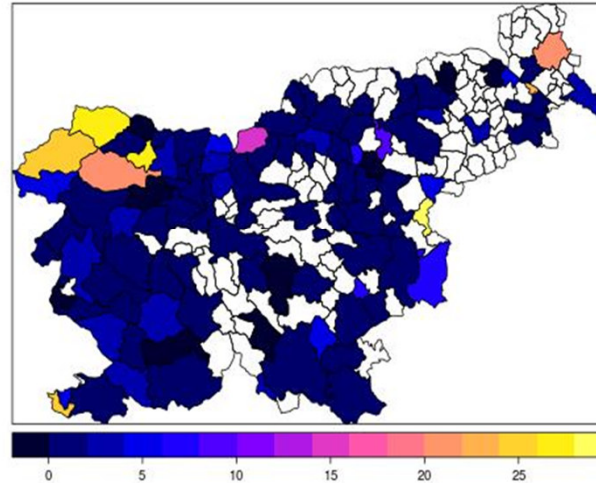


Sub-Step 3.2 – Tourist flow estimation:

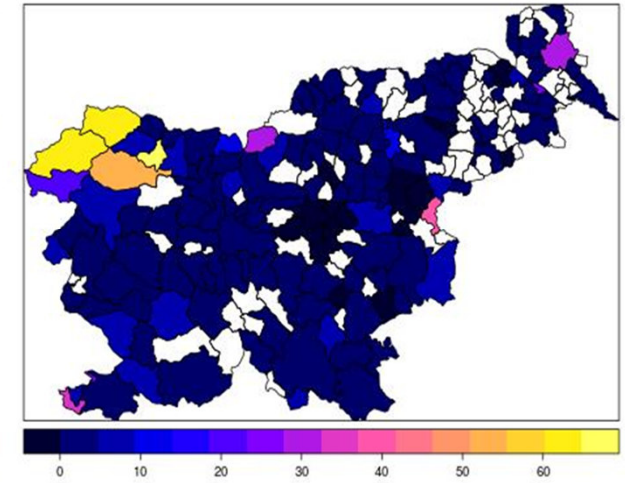
The tourist flow estimation can be based on a variety of available indicators in the database:

- Based on statistical data: arrivals, arrivals change, length of stay, seasonality tourism intensity.
- Based on big data: can be used to identify hotspots → e.g. Heatmaps

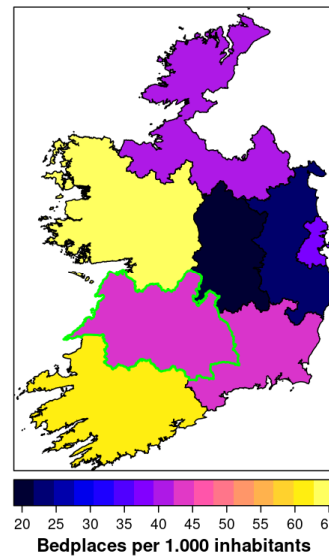
Tourism intensity 2008



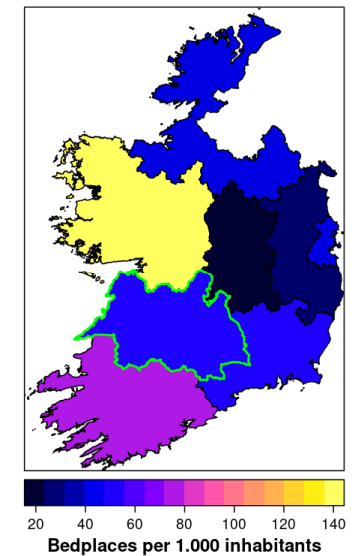
Tourism intensity 2019



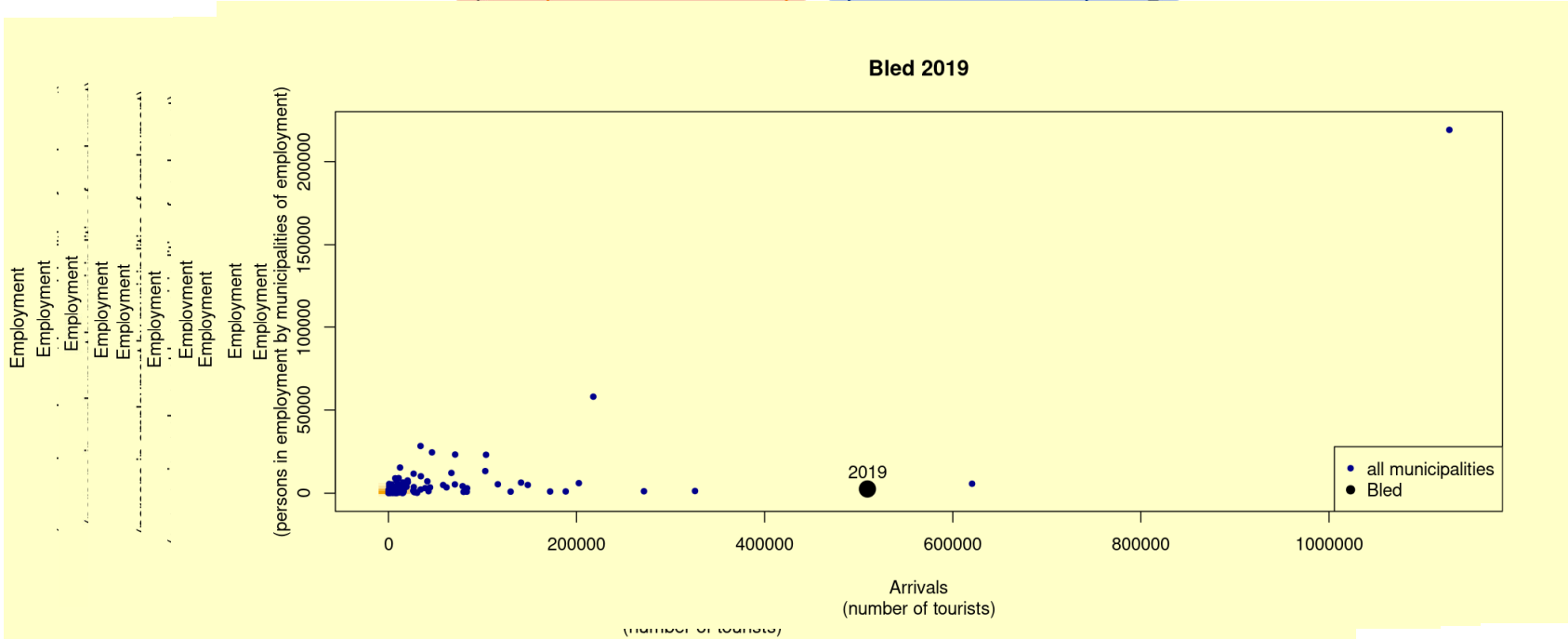
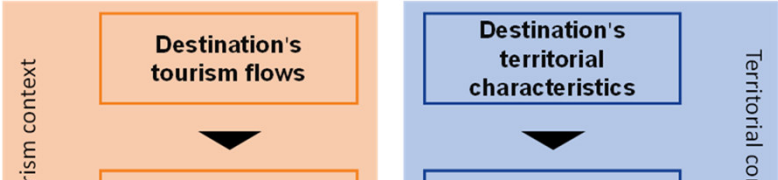
Bedplaces 2011



Bedplaces 2012



The concept of carrying capacity – or how to find a way towards sustainable tourism...



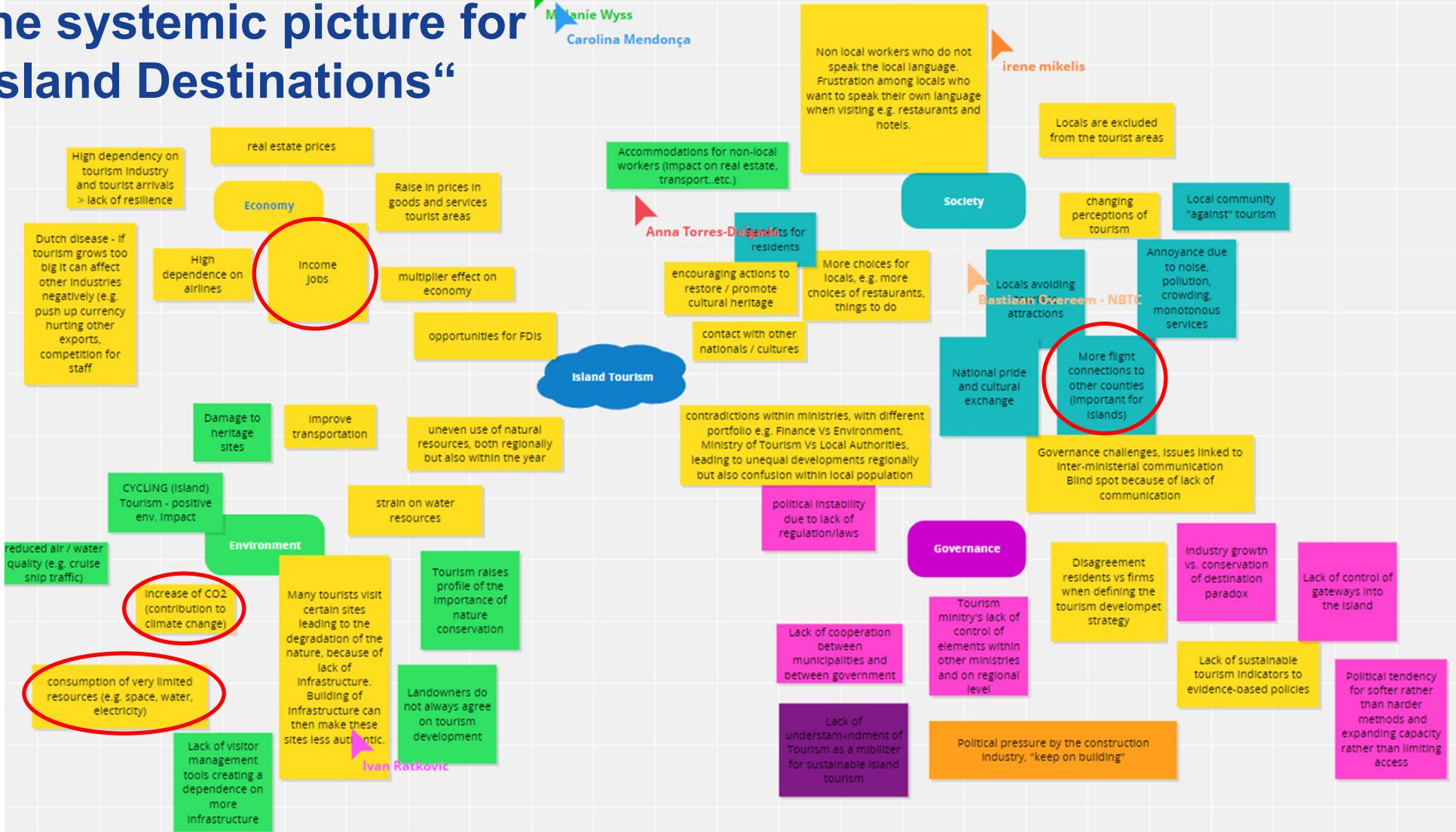
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Some findings for Malta



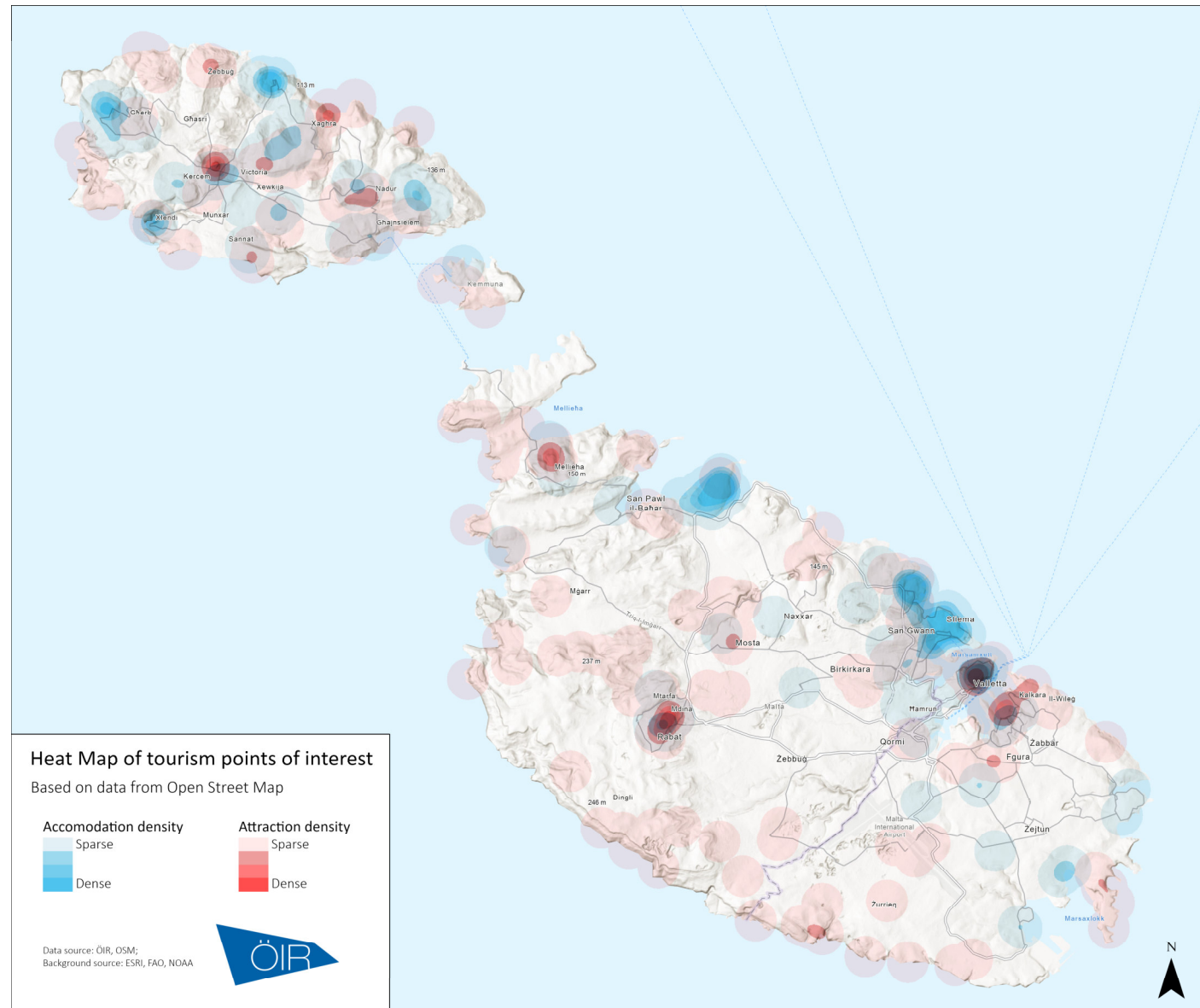
The systemic picture for „Island Destinations“

Melanie Wyss
Carolina Mendonça

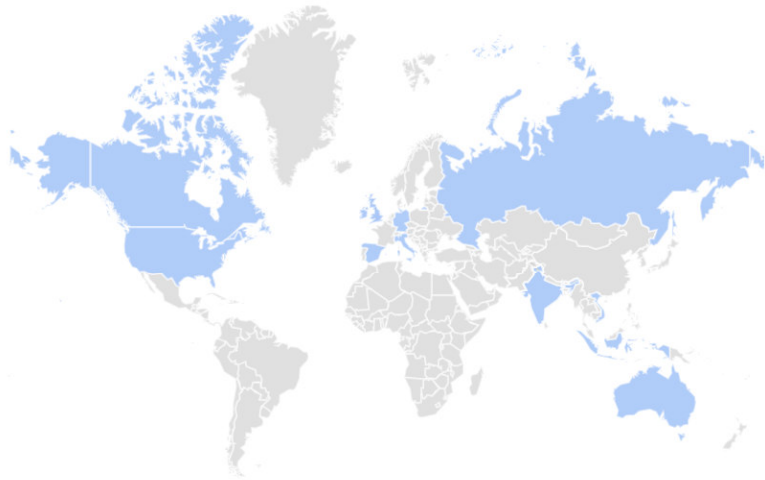


Tourism Intensity & Flows

Open Street Data heat map of Malta



Tourism Intensity/ Seasonality – „Holidays Malta“ – Google Trends

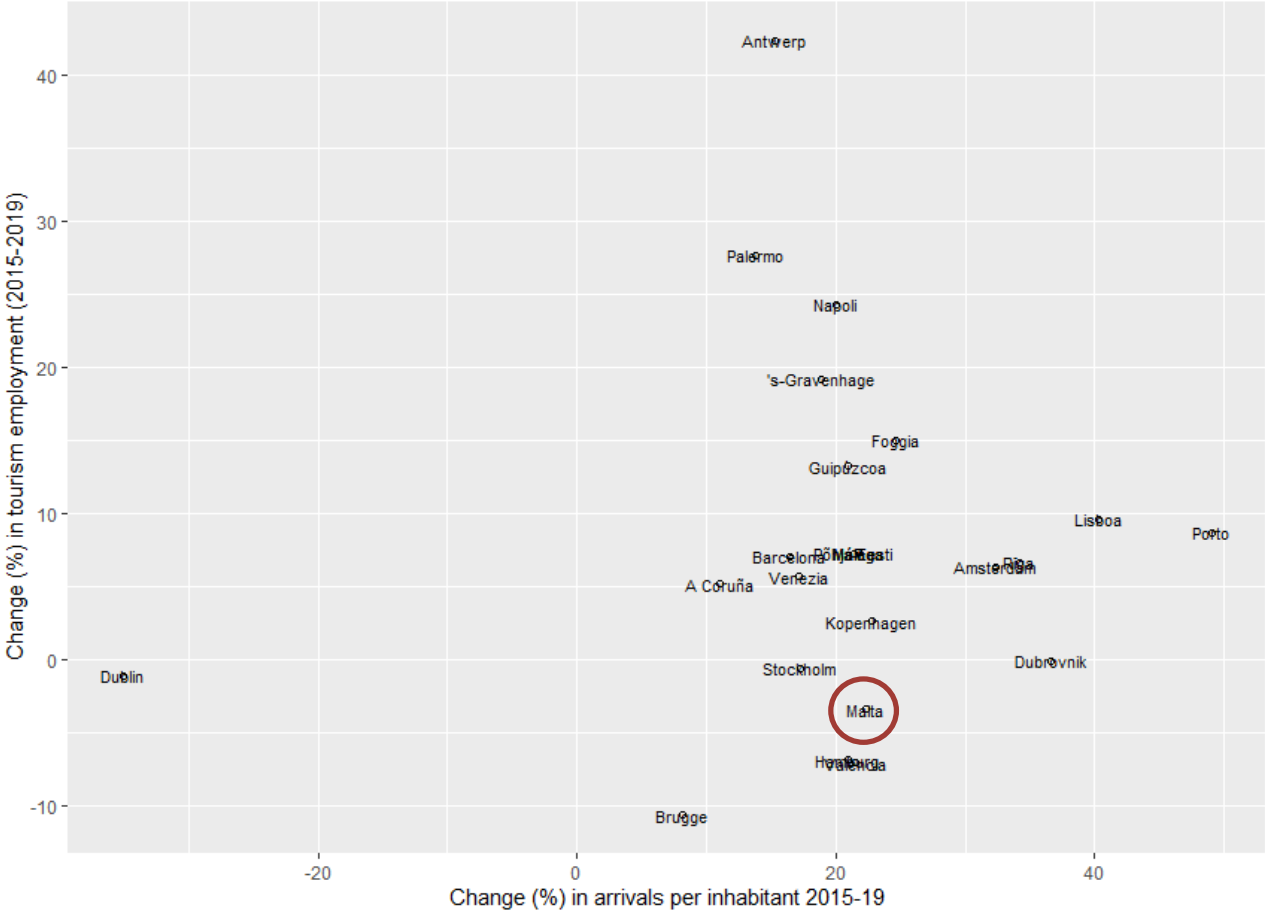


1	Malta	100	<div style="width: 100%;"></div>
2	Vereinigtes Königreich	4	<div style="width: 4%;"></div>
3	Irland	3	<div style="width: 3%;"></div>
4	St. Helena	2	<div style="width: 2%;"></div>
5	Vietnam	<1	<div style="width: 0.5%;"></div>

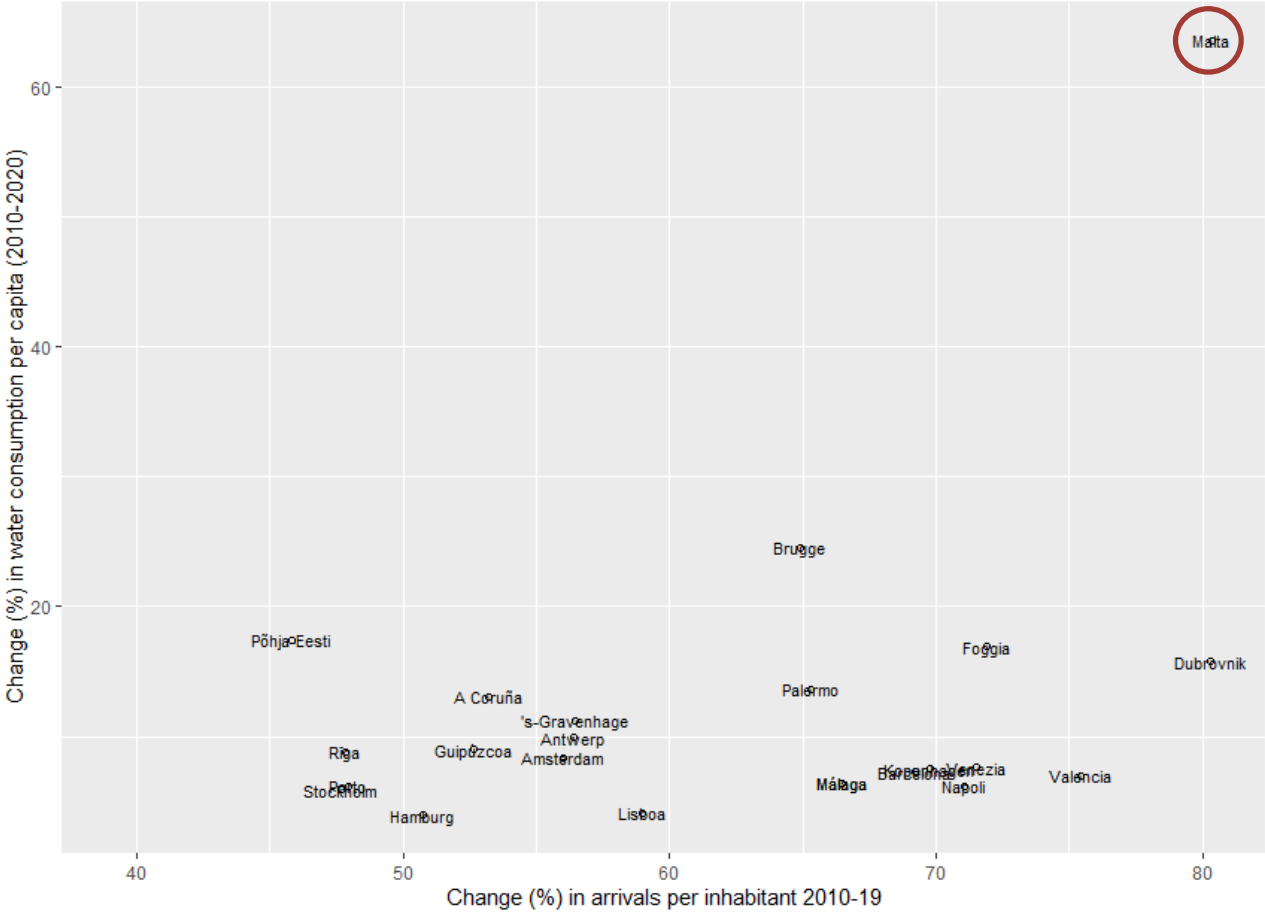
Regionen mit geringem Suchvolumen einschließen

< 1–5 von 14 Regionen werden angezeigt >

Carrying Capacity - Examples



Carrying Capacity - Examples



Conclusions

- Some first „quick and dirty“ evidence snippets corroborate Malta's sustainable tourism strategy
- However in order to better target solutions → more regional perspective is needed
- Whole ESPON Tourism process may lead to better results → proper regional needs assessment, better targeted evidence & regional solution package



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Thank You!

For further questions please contact:

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