



MARCH 2023

Hotel Case Study

Business Cases for Data Science

Customer Segmentation



Our Team

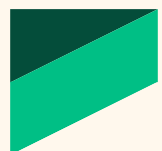
Lukas
Gross
20221363

Beatriz
Carmo
20220685

Tomás
Vicente
20221355

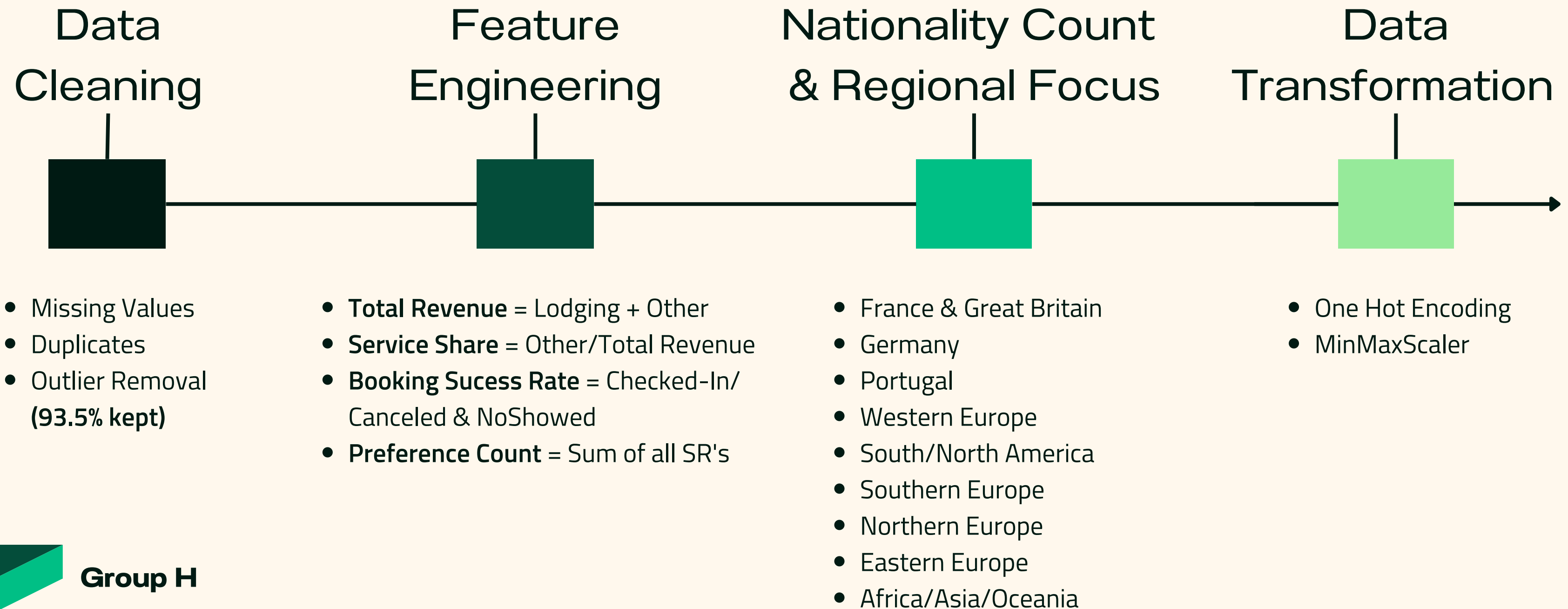
Karim
Miladi
20220720

Tomás
Domingos
20221370

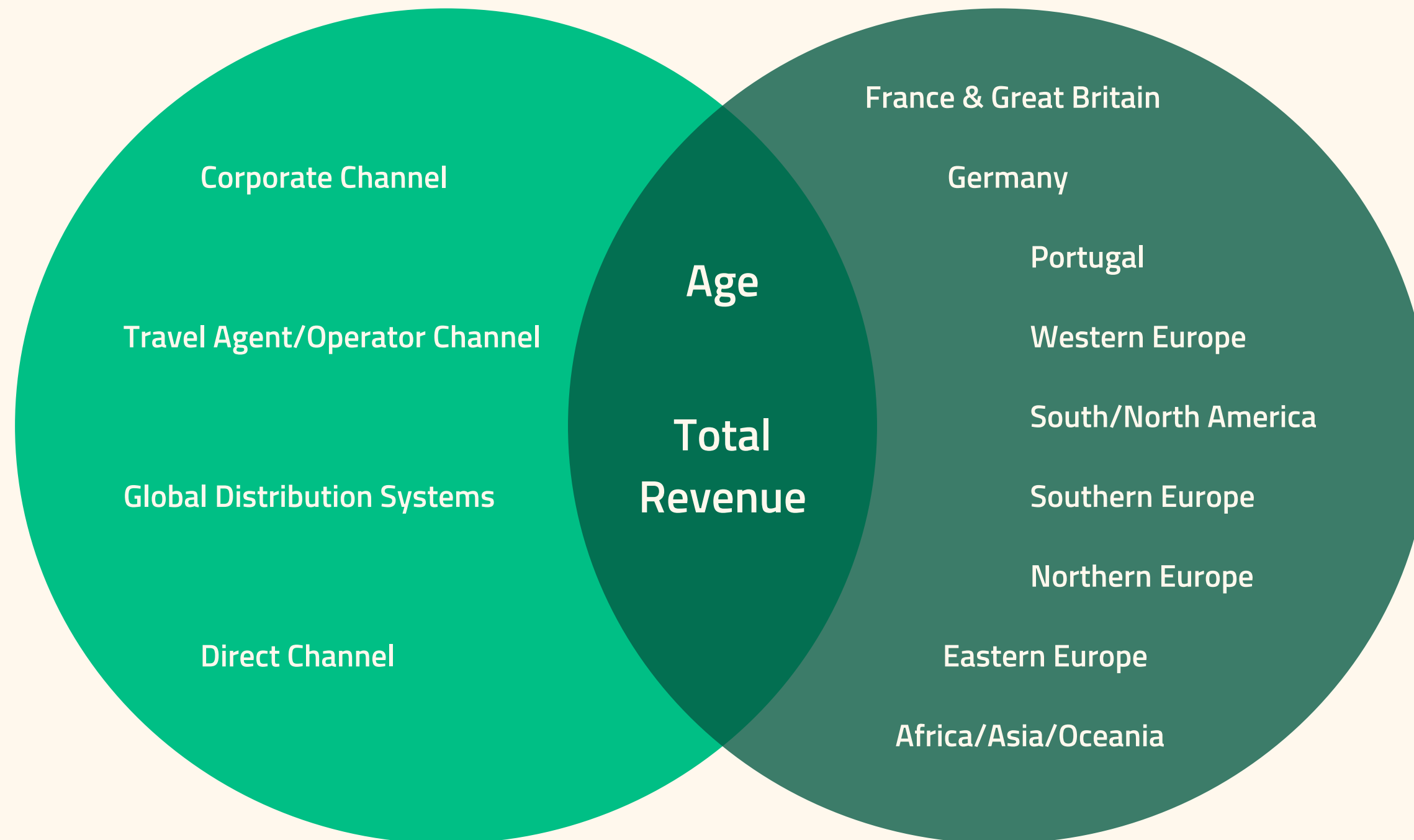


Group H

Data Preparation



Clustering Perspectives



Group H

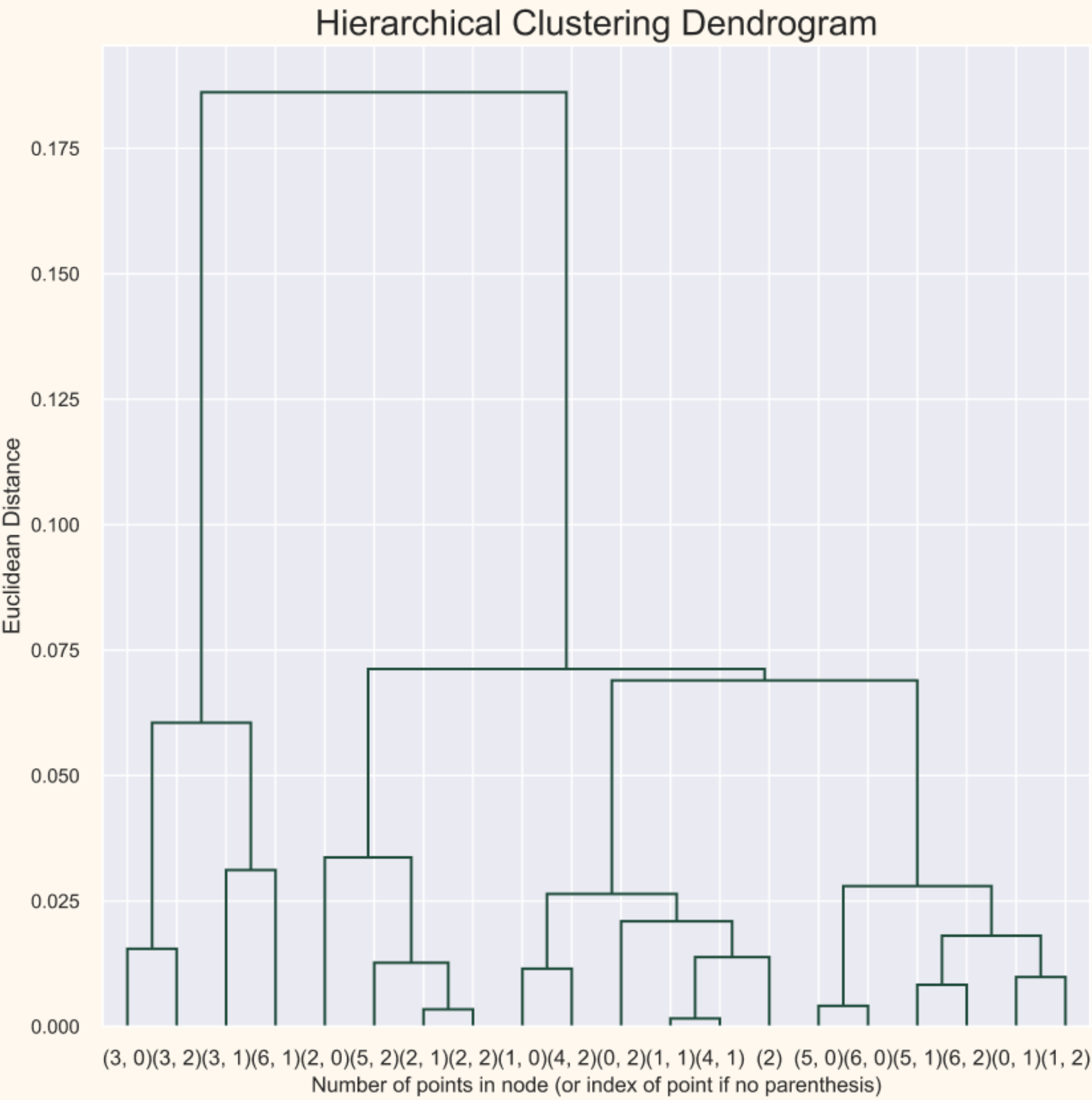
FUNNEL

GEO

Merged Clusters

Count:
5 Clusters

Method:
Hierarchical Clustering





Portuguese

-28%

Total Revenue

- Lowest Revenue Segment.
- Oldest customers from all segments.
- Considerable spending on Hotel Services.
- The Corporate Funnel is the most appropriate funnel for targeting.

French & British

+4%

Total Revenue

- Average revenue generated.
- Considerable spending on Hotel Services.
- Travel agencies and other operators are the most appropriate funnel for targeting.
- Direct funneling, could be explored.
- Suggestion: discount for booking on arrival, keeping higher margins, compared to referring 3rd parties..

Old Germans

-10%

Total Revenue

- Low revenue generated.
- Considerable spending on Hotel Services.
- Travel agencies and other operators are the most appropriate funnel for targeting.
- Direct funneling, could be explored.
- Suggestion: discount for booking on arrival, keeping higher margins, compared to referring 3rd parties.



High Value Americans

+21%

Total Revenue

- 68.67% higher revenue compared to the Portuguese segment.
- Due to an absolute majority of booking directly, no other channels should be considered.
- Marketing campaigns should be prioritized towards this cluster.

Event-based Groups

+11%

Total Revenue

- Significantly high Revenue, Persons, and Rooms Booked per Night.
- The segment with low regional differentiation, englobing Asian, African, Oceanic, and European clients.
- Due to the highest count of Direct channel usage, and high Lead Time, these users should be targeted directly much earlier seasonally then their previous stay.