

Taking the bus, train or car?

Investigating the transport network and
travel satisfaction in Odsherred

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Integrated International Projectwork
MSc Geography & Geomatics
Odsherred/Roskilde (DK) – 6 to 14 May 2023



Research questions

How can insight in travel behaviour and appreciation be used to improve the transport network in Odsherred?

- What is the difference between the appreciation of the transport network connectivity by local residents and summer house owners?
- What are the most common issues identified in the transport network?
- What is the spatial pattern of the transport modes?
- What are the profiles among the respondents?

Methodology



STUDY AREA

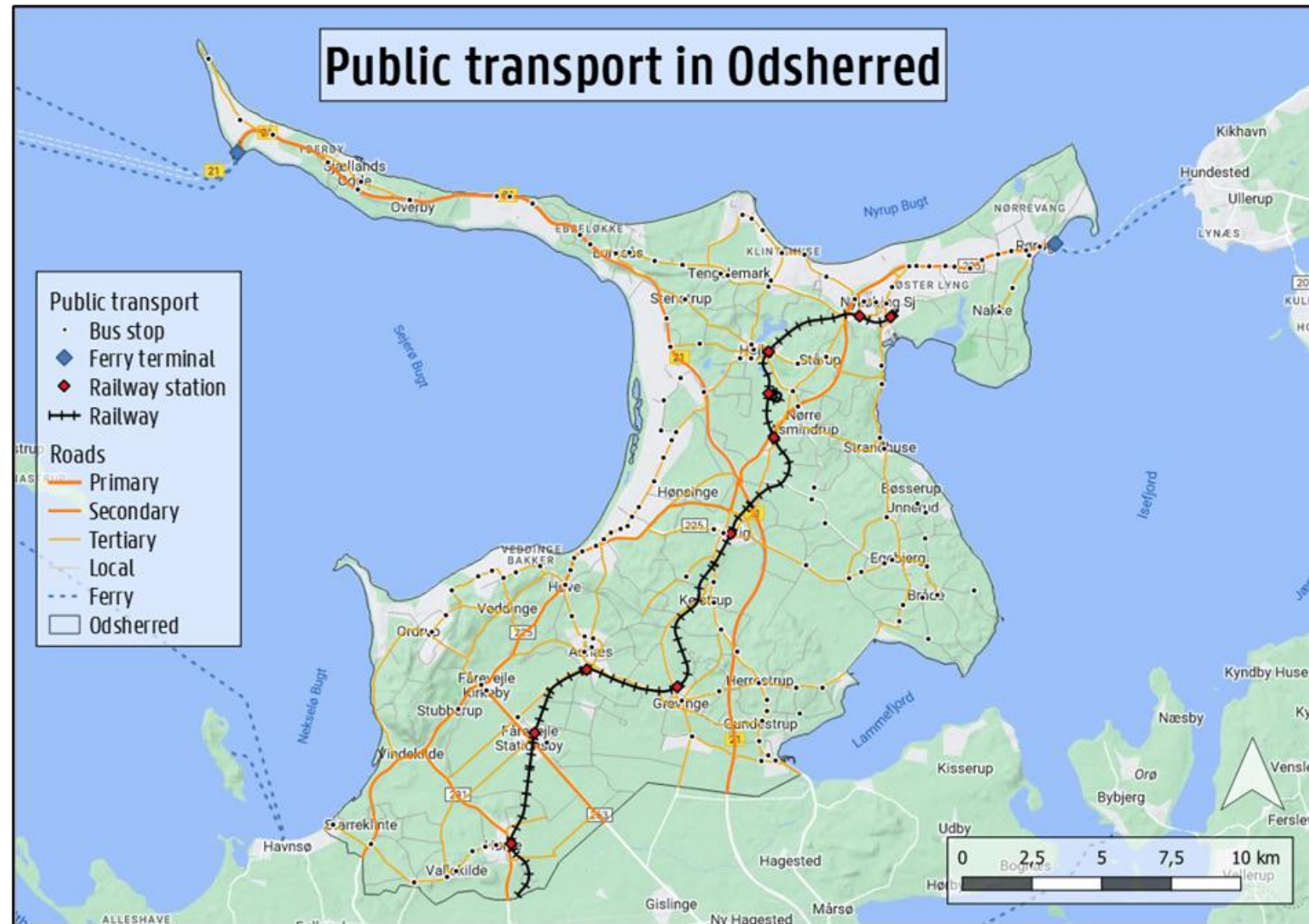


FIELD WORK



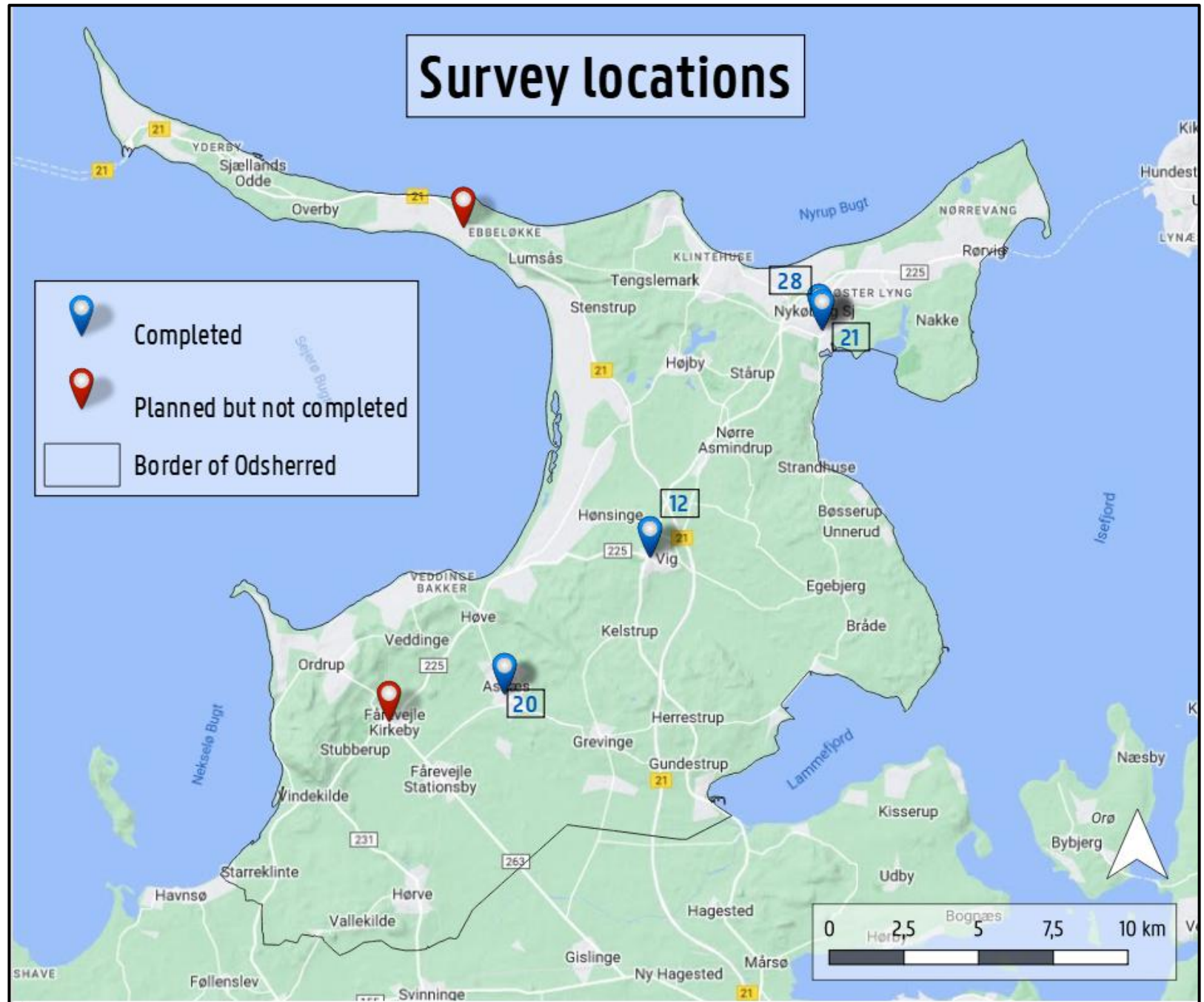
DATA

Study area





Field work




Data



- Data collection
 - Surveys (Qualtrics, 81 respondents)
 - Tuesday & Wednesday (9&10 May)
 - Traveltrack
- Data analysis
 - Descriptive overview
 - Heatmaps
 - Cluster analysis: discovering user profiles

TRAVELTRACK

 Overview


 My routes

 My map

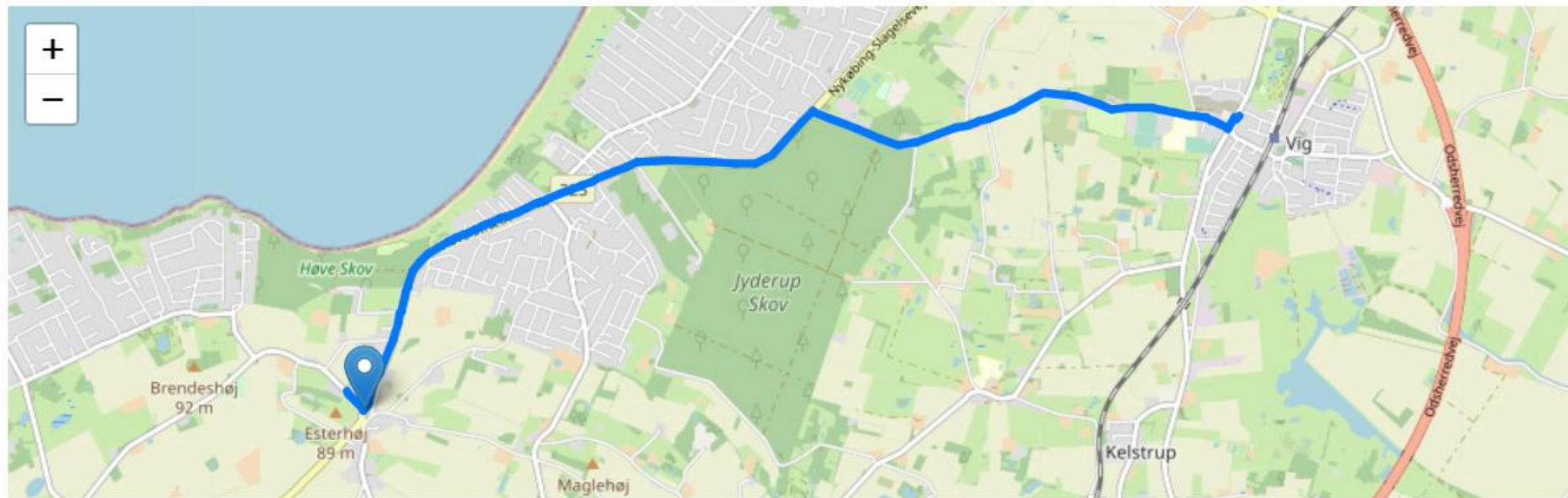
 Results

 Messages

 User settings

 Zone settings

zone: Odsherred ▼



How satisfied are you with this stopover (in terms of connections, safety,...)?

0

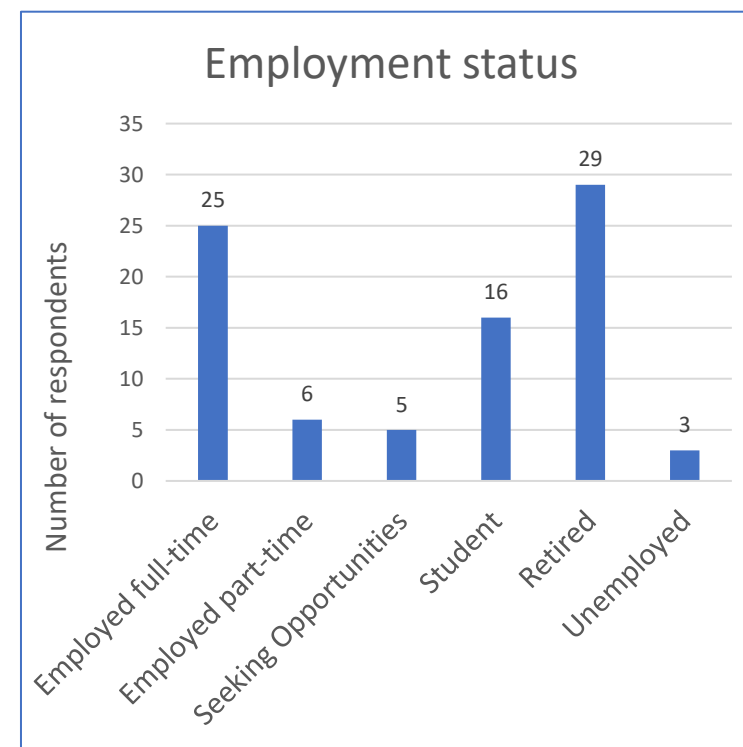
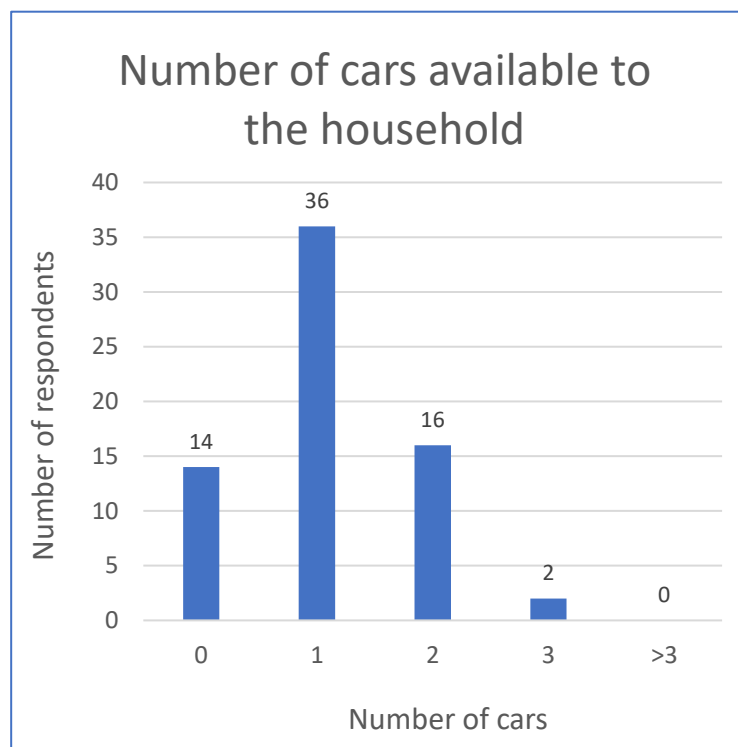
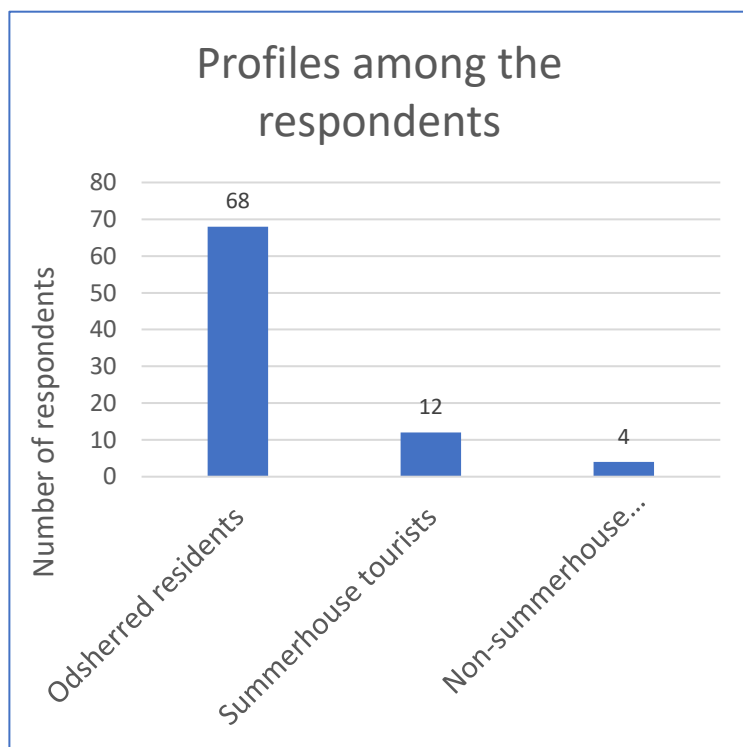
100



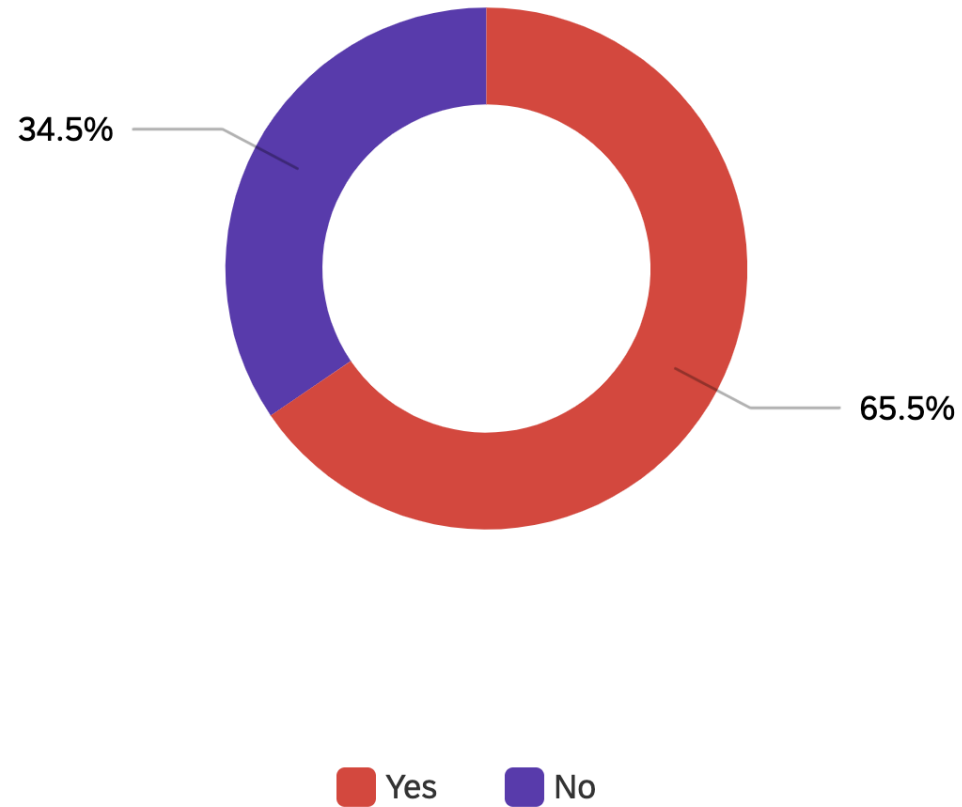
Briefly motivate this score.

Save answers

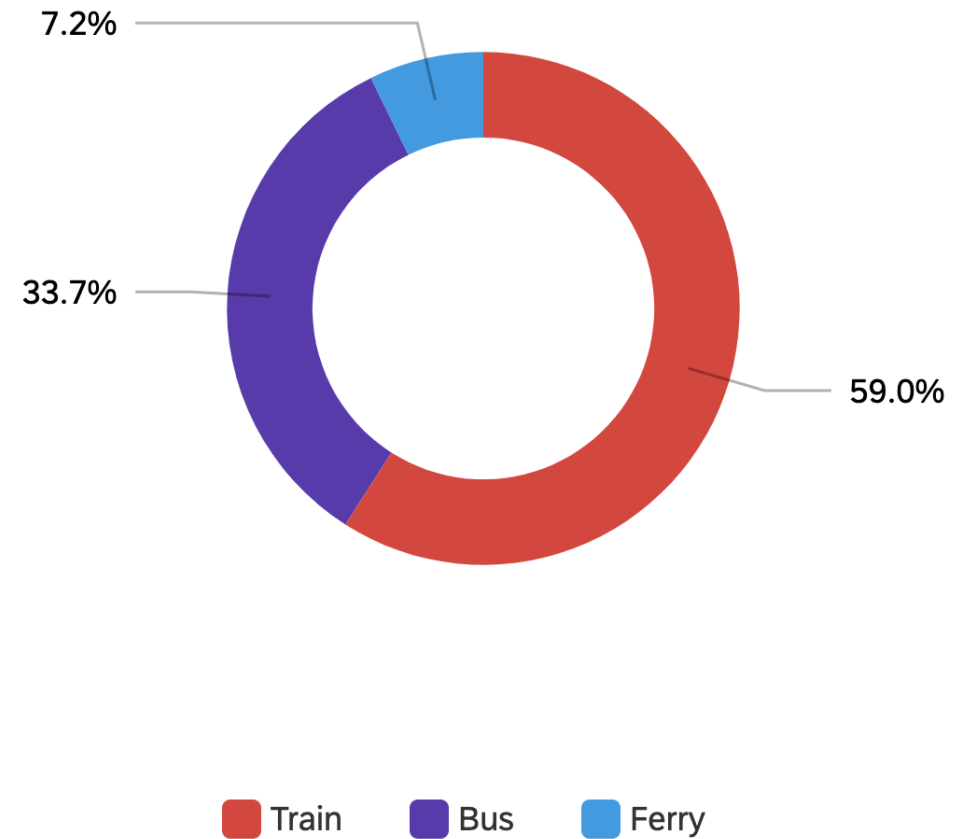
Descriptive overview



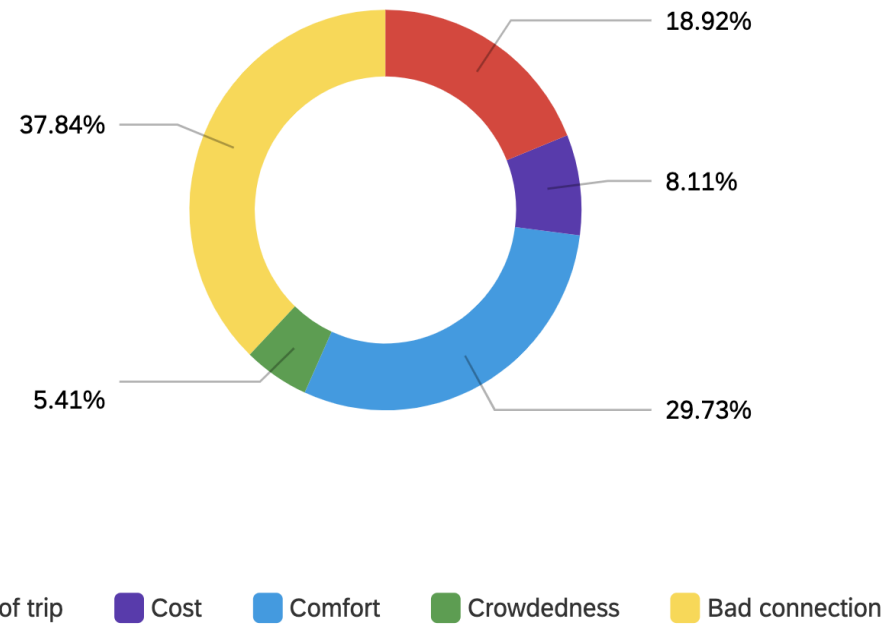
% OF THE RESPONDENTS THAT USE PUBLIC TRANSPORT



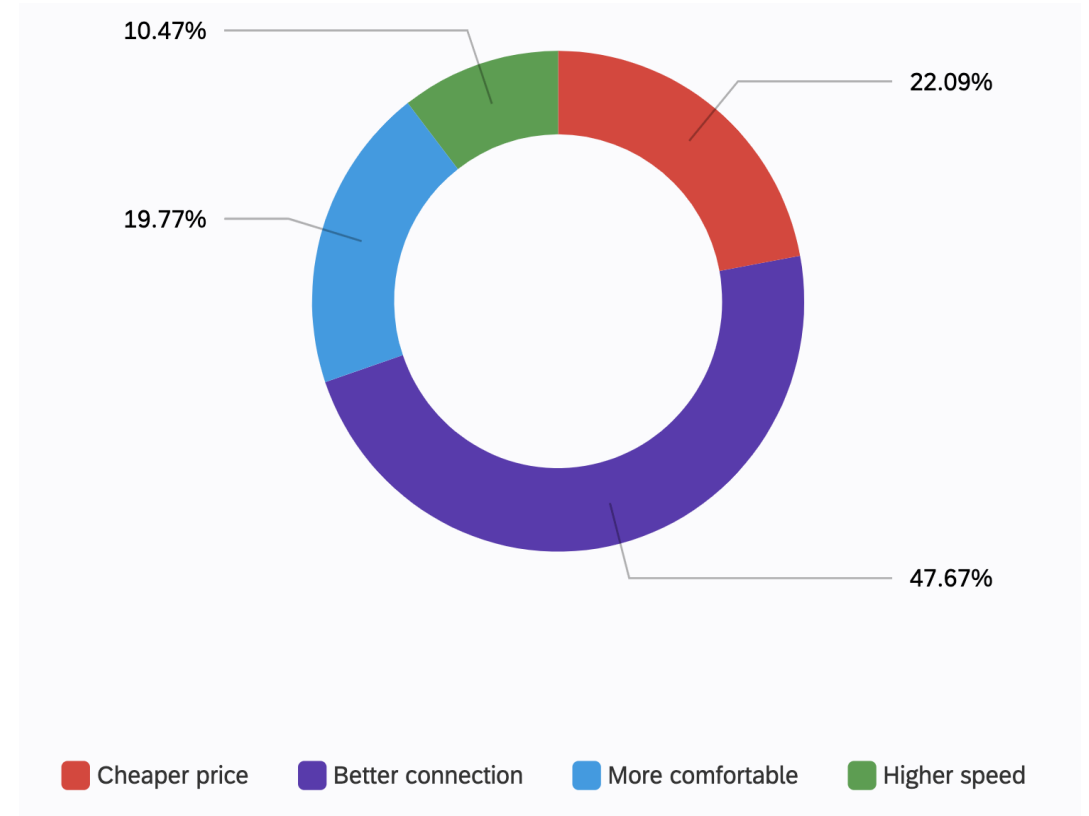
MOST POPULAR TYPES OF PUBLIC TRANSPORT



PROBLEMS



CRUCIAL FACTORS



Heatmap of the used roads in Odsherred



0 5 10 15 20 km



Split heatmaps

BIKE



CAR



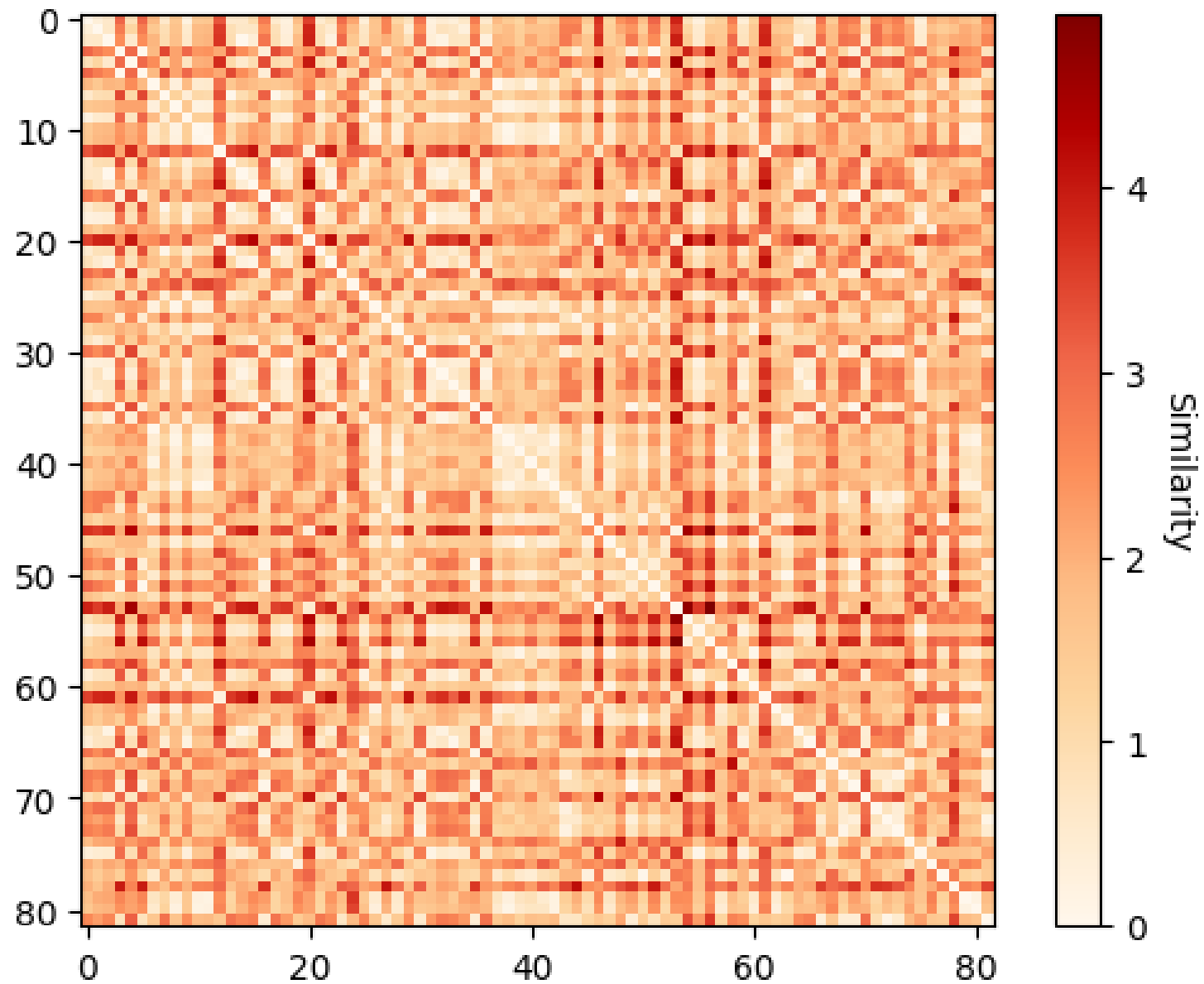
FOOT



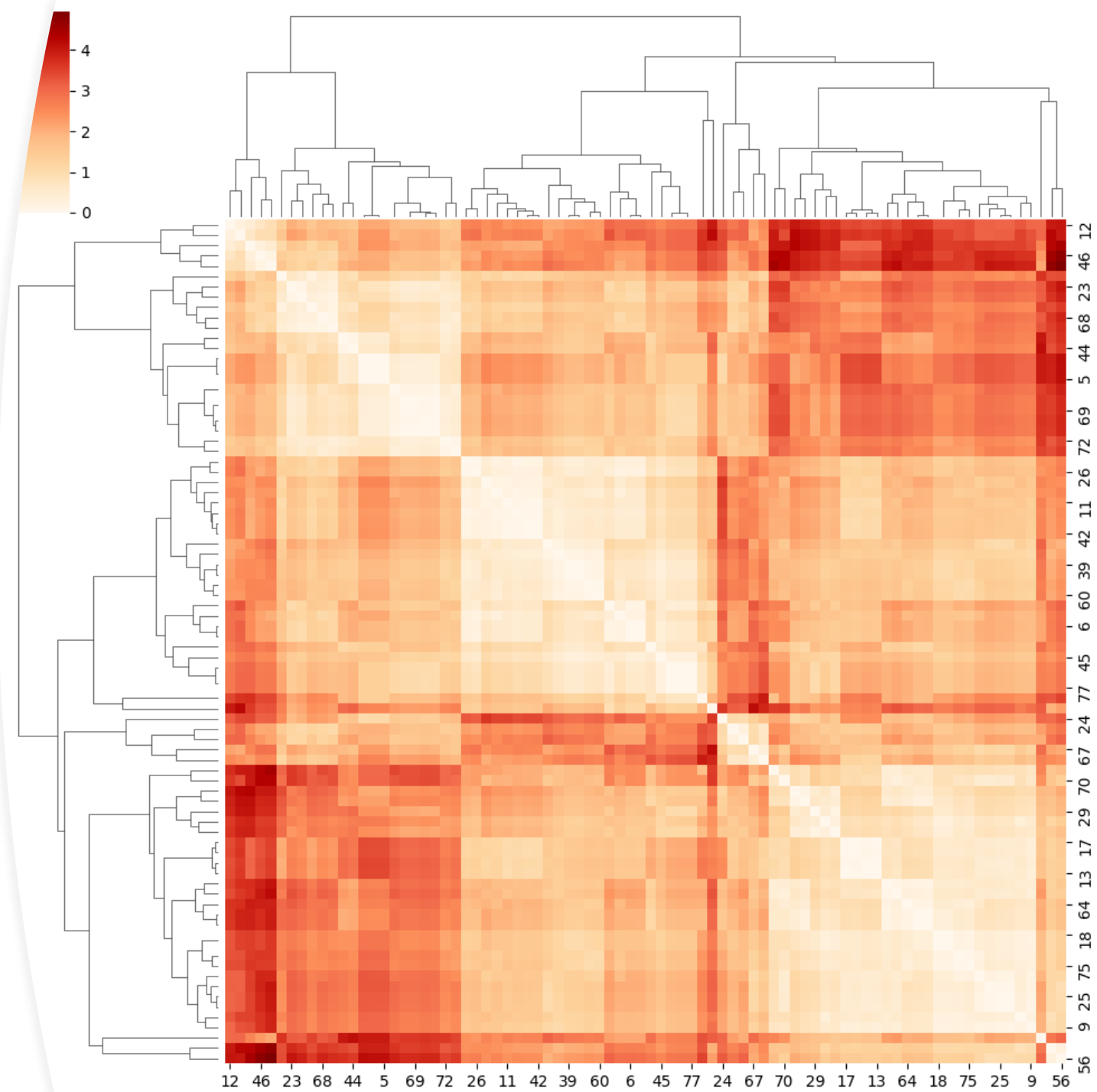
Cluster analysis:
discovering user
profiles

'What are the profiles among the respondents?'

Similarity matrix

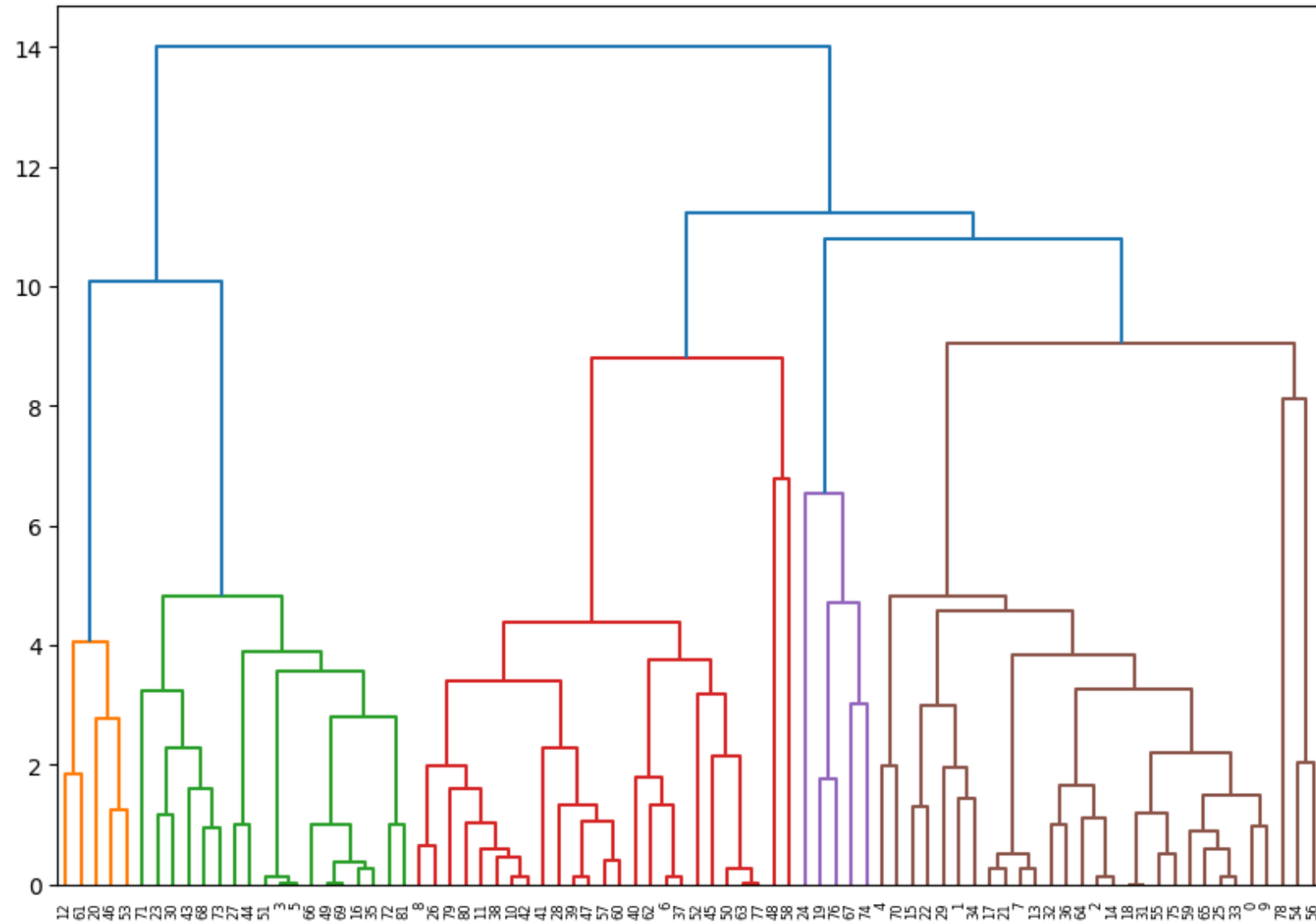


Similarity matrix + dendrogram



Dendrogram

- 5 categories
 - Yellow: Bus, train & ferry users
 - Green: Bus & train users
 - Red: Train users
 - Purple: Bus users
 - Brown: No public transport users



Conclusions

- What is the difference between the appreciation of the transport network connectivity by local residents and summer house owners?
 - Not enough respondents
- What are the most common issues identified in the transport network?
 - Bad connectivity, non-flexibility, duration of trips, delays, cost
- What is the spatial pattern of the transport modes?
- What are the profiles among the respondents?

Conclusions

How can insight in travel behaviour and appreciation be used to improve the transport network in Odsherred?

Thank you for your attention!

Are there any questions?

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