Odsherred on the move?

Analysing internal migration trends and future aspirations

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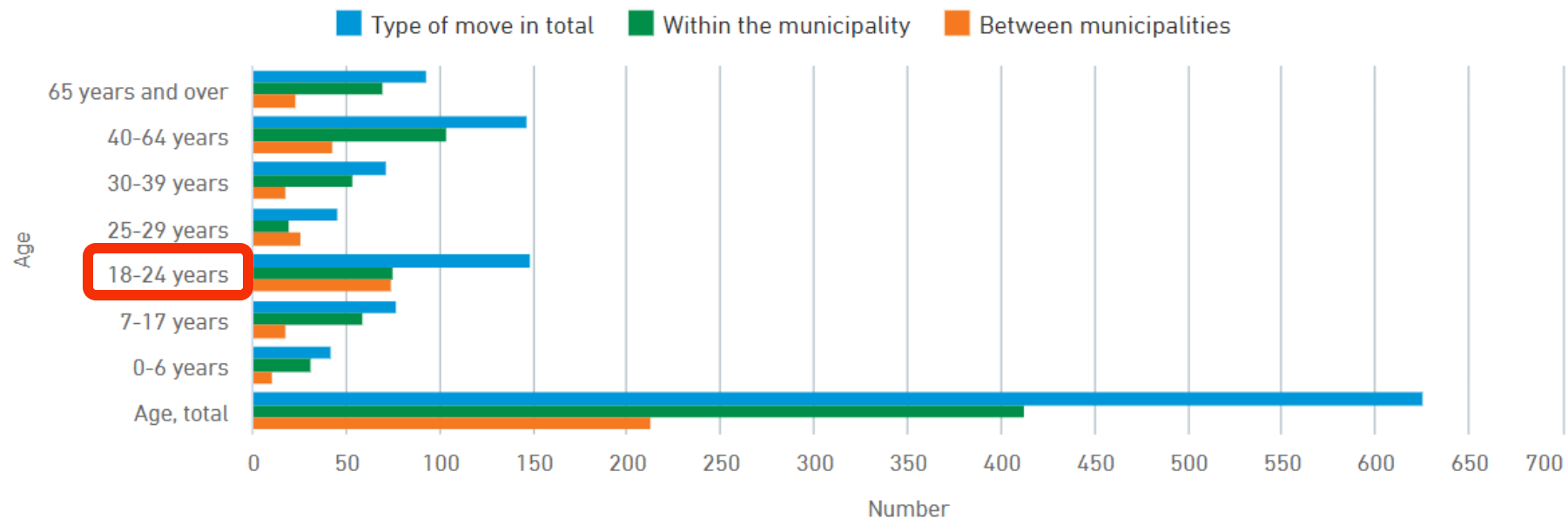Odsherred/Roskilde (DK) – 6 to 14 May 2023

UNIVERSITEIT GENT

RUC
Roskilde Universitet

UNIVERSITY OF COPENHAGEN

CONTEXT AND MOTIVATION

- Better understanding of the socio-economic situation and trends of a certain population
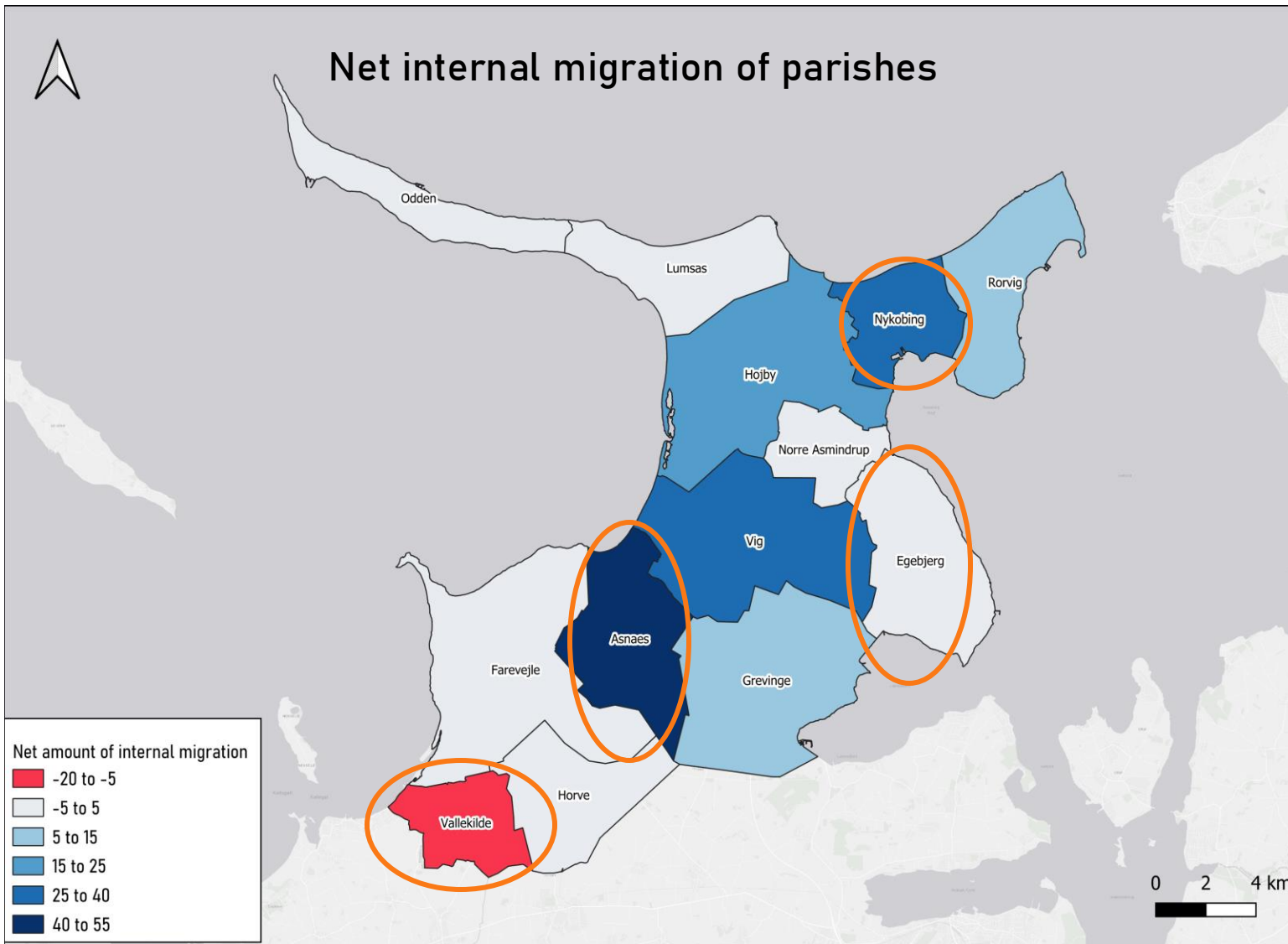
- Demographic statistics Odsherred:

Movements from and to the largest city, other cities or rural district

Relocation to area: Relocation to area, total | Vacating area: From Odsherred municipality, Nykøbing S city | Time: 2021 | Type of move:

→ Investigate motives and patterns of migration of young adults

STUDY AREA

Net internal migration of parishes

Legend: Net amount of internal migration
- 🟥 -20 to -5
- ⬜ -5 to 5
- 🟦 5 to 15
- 🟦 15 to 25
- 🟦 25 to 40
- ⬛ 40 to 55

Vallekilde
- Highest net out migration

Asnæs
- Highest net in migration

Nykobing
- Biggest village

Egebjerg
- Ecovillages with young families

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RESEARCH QUESTIONS

1. What are the migration patterns in Odsherred?

2. What are possible drivers of migration in the municipality and its parishes?

3. How can the municipality work towards retaining and/or increasing the influx of people in the future?

4. What is the relation between the parishes' hierarchy and the migration patterns?

5. What is the impact on the society of Odsherred when young people leave?

6. What are the current effort of the municipality for attracting young people?

METHOD

Preparation

- Mapping migration patterns
- Future scenario modelling

Fieldwork

- Visiting study areas
- Surveys in parishes

Data analysis

- Qualitative analysis
- Chi² analysis
- Factor analysis

Preparation
- Mapping migration patterns
- Future scenario modelling

Fieldwork
- Visiting study areas
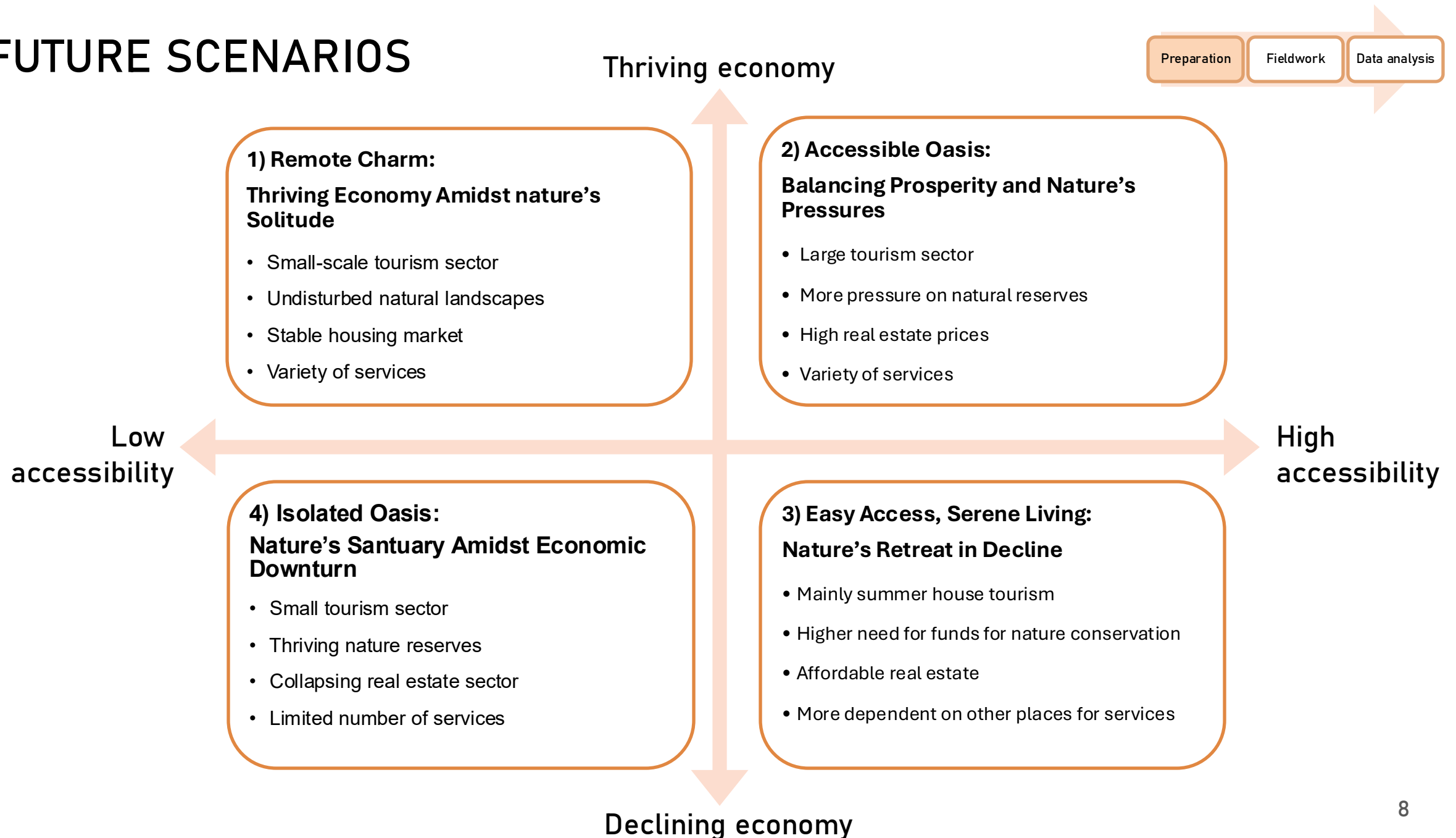- Surveys in parishes

Data analysis
- Qualitative analysis
- Chi² analysis
- Factor analysis

MAPPING

- Mapping the migration pattern of Odsherred

  - From where do people move to Odsherred (inward migration) ?

  - To where do people move from Odsherred (outward migration) ?

  - Netto internal migration of parishes in Odsherred

- Data from Statbank.dk (2009–2023)

FUTURE SCENARIOS

Thriving economy

Low accessibility

High accessibility

Declining economy

1) Remote Charm:

Thriving Economy Amidst nature's Solitude

- Small-scale tourism sector
- Undisturbed natural landscapes
- Stable housing market
- Variety of services

2) Accessible Oasis:

Balancing Prosperity and Nature's Pressures

- Large tourism sector
- More pressure on natural reserves
- High real estate prices
- Variety of services

4) Isolated Oasis:

Nature's Santuary Amidst Economic Downturn

- Small tourism sector
- Thriving nature reserves
- Collapsing real estate sector
- Limited number of services

3) Easy Access, Serene Living:

Nature's Retreat in Decline

- Mainly summer house tourism
- Higher need for funds for nature conservation
- Affordable real estate
- More dependent on other places for services

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Preparation
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SURVEYS

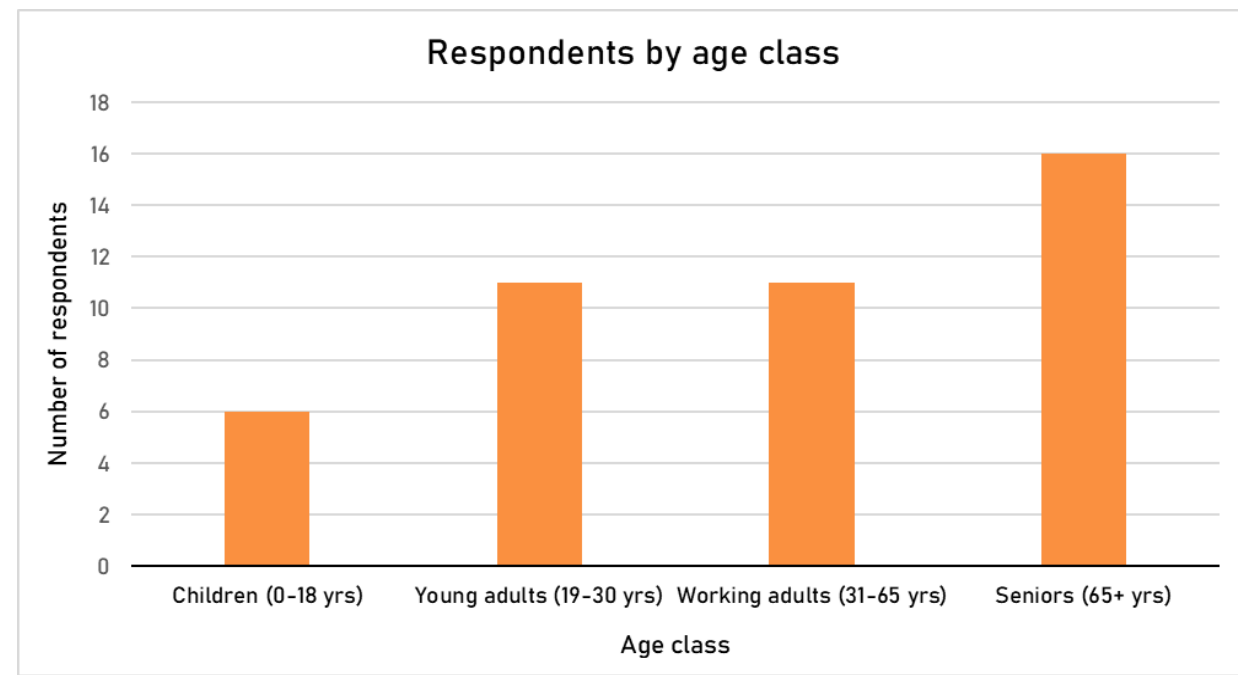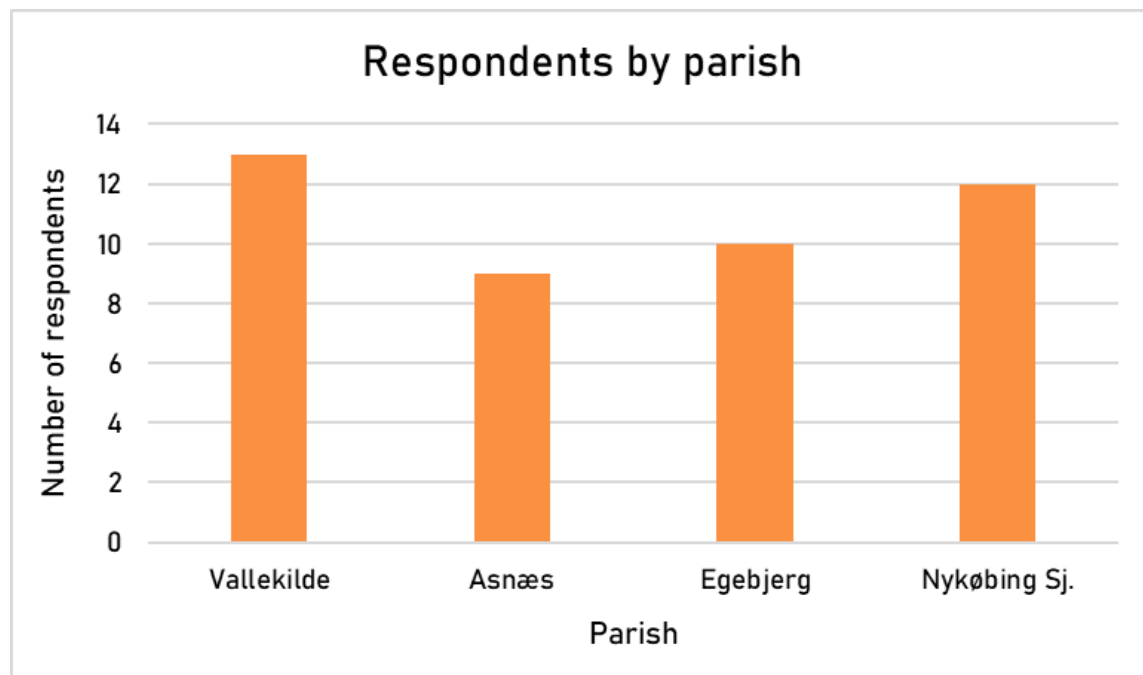**1**
- Residents' experiences with moving

2
- Opinion on statements on the accessibility and economy in the area

3
- Their prefered and expected future scenarios
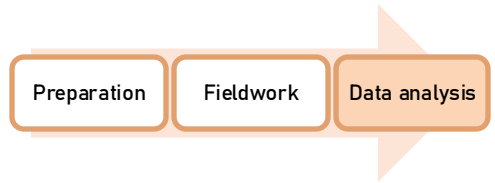
RESPONDENT DESCRIPTIVES

Respondents by parish

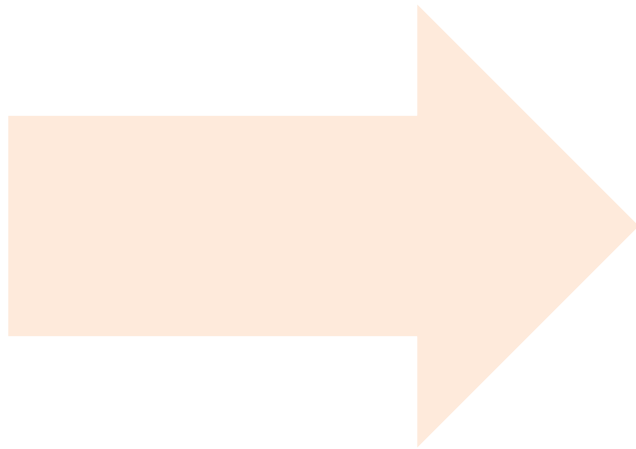Respondents by age class

DATA ANALYSIS

Factor analysis
- To identify underlying patterns in a dataset
- Statements

Chi-square test
- To analyse the relation between categorical variables
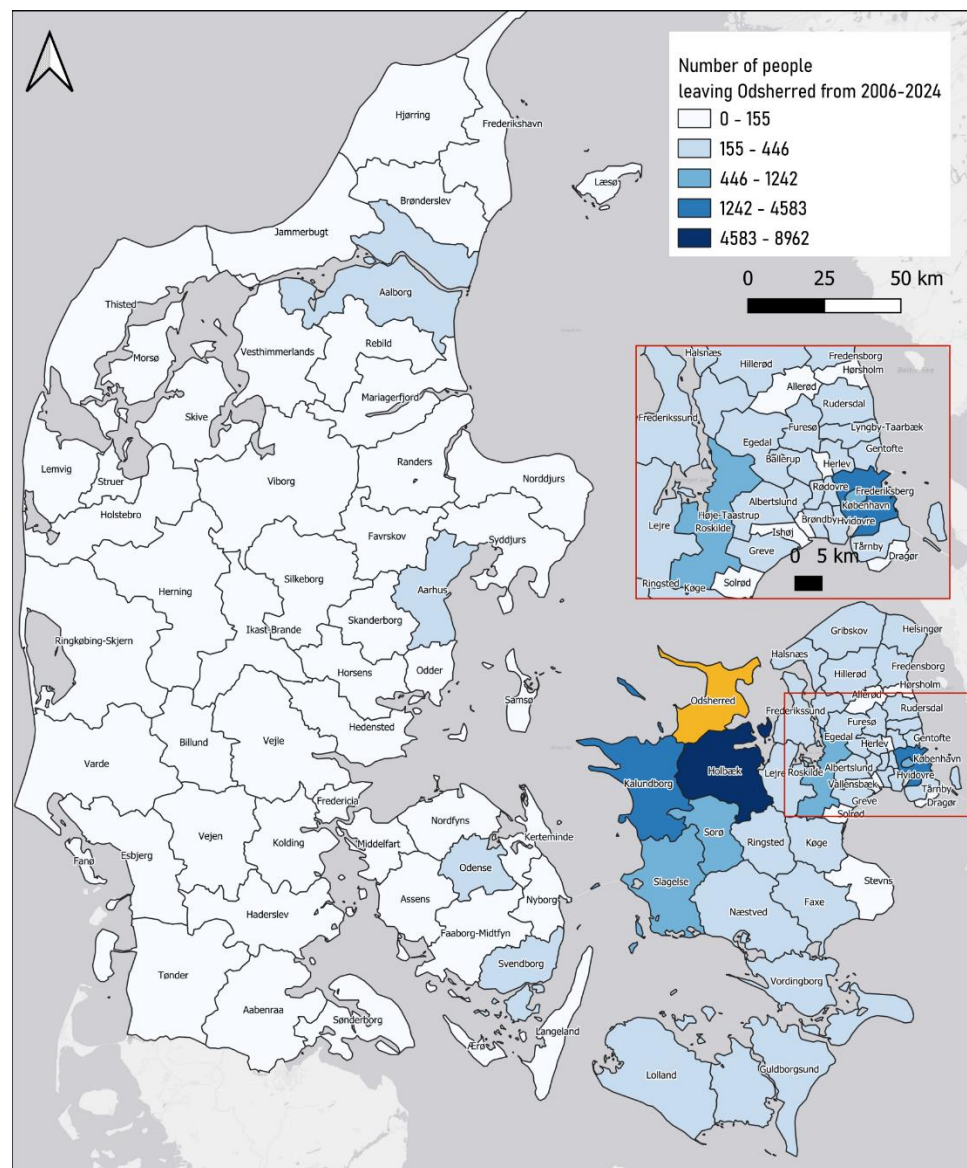- Future scenarios

RESULTS

1. Analysis of migration patterns
2. Drivers of migration
3. Result of factor analysis
4. Evaluation of 4 plausible future scenarios
5. Points of action for parishes

1. ANALYSIS OF MIGRATION SITUATION

OUTWARD

Number of people leaving Odsherred from 2006-2024
- 0 – 155
- 155 – 446
- 446 – 1242
- 1242 – 4583
- 4583 – 8962

INWARD

Number of people moving to Odsherred from 2006-2024
- 0 – 155
- 155 – 446
- 446 – 1242
- 1242 – 4583
- 4583 – 8962

2. MOTIVES FOR MOVING **OUT** OF ODSHERRED

Legend: Vallekilde · Asnæs · Egebjerg · Nykøbing · Total
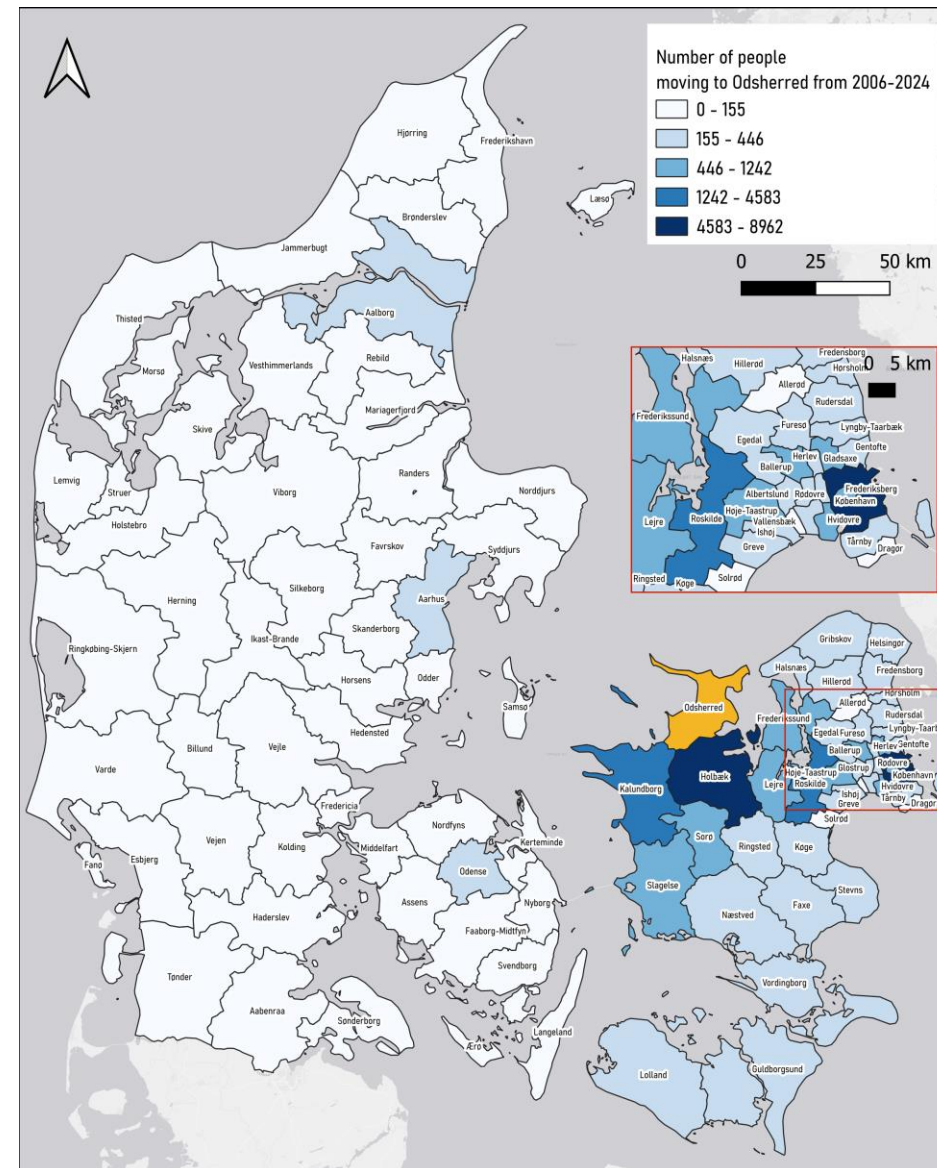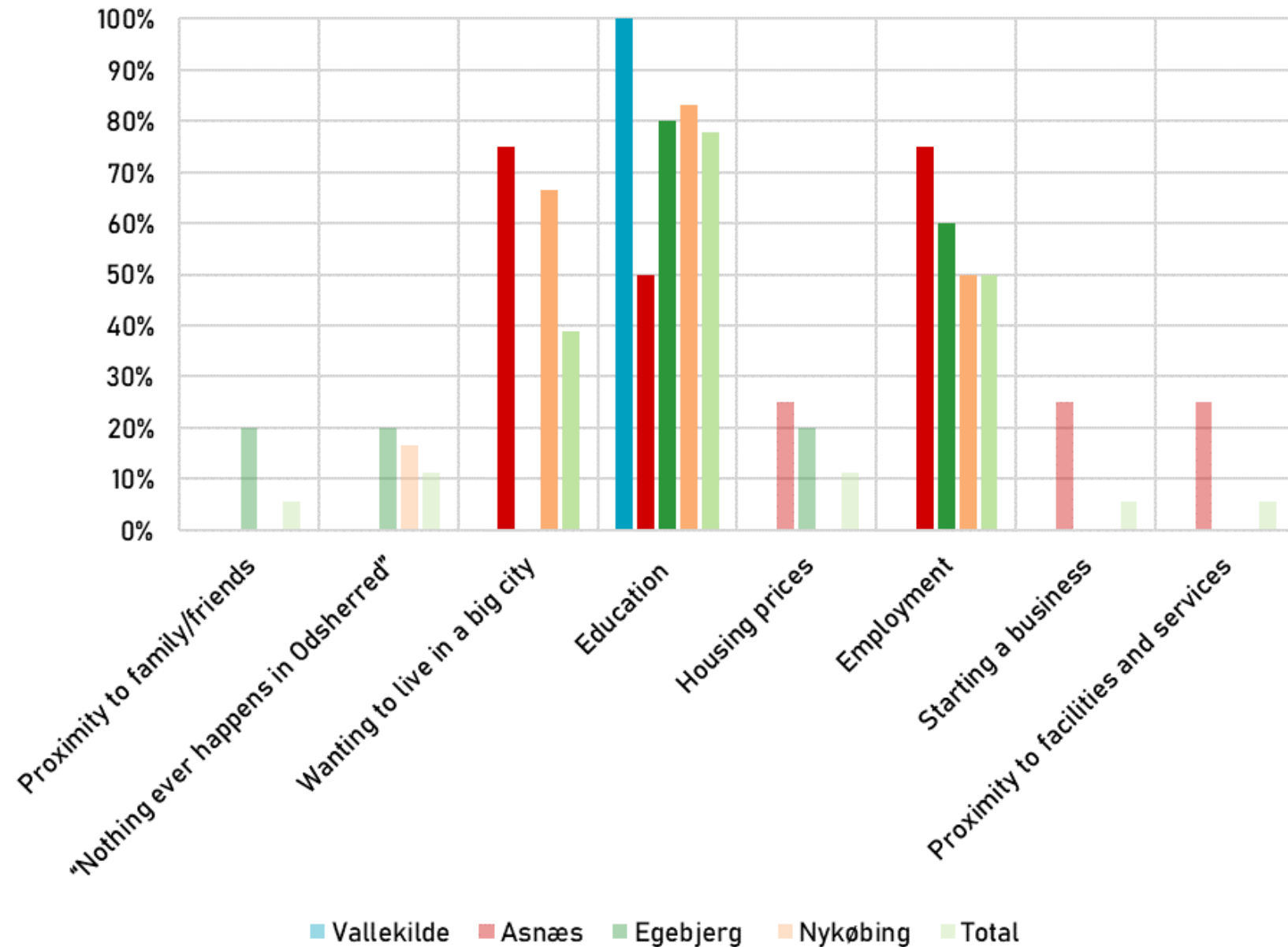
2. MOTIVES FOR MOVING **TO** ODSHERRED
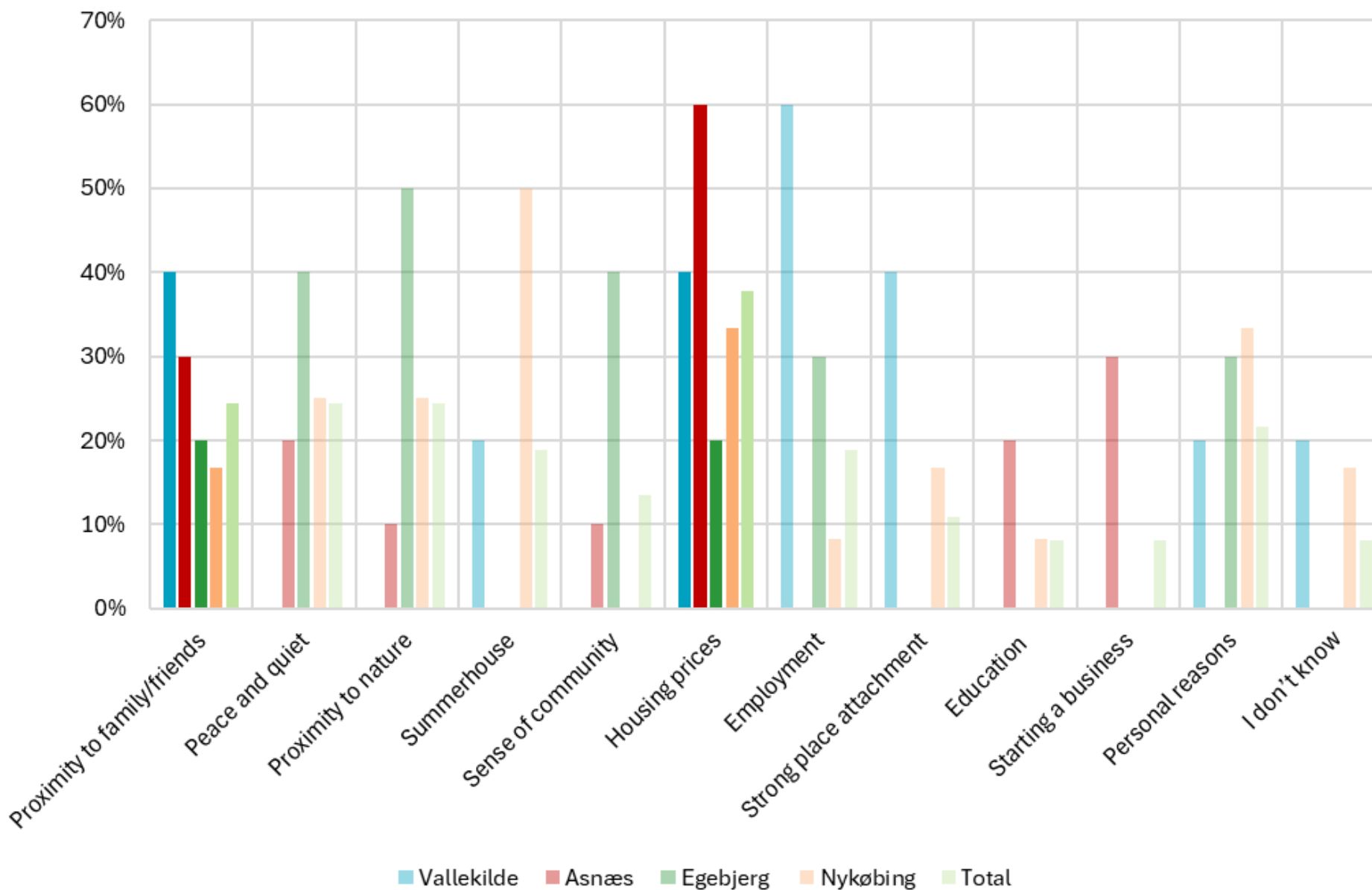
2. PERCEPTION OF IN- AND OUTMIGRATION

3. FACTOR ANALYSIS

Accessibility

Factor Loadings

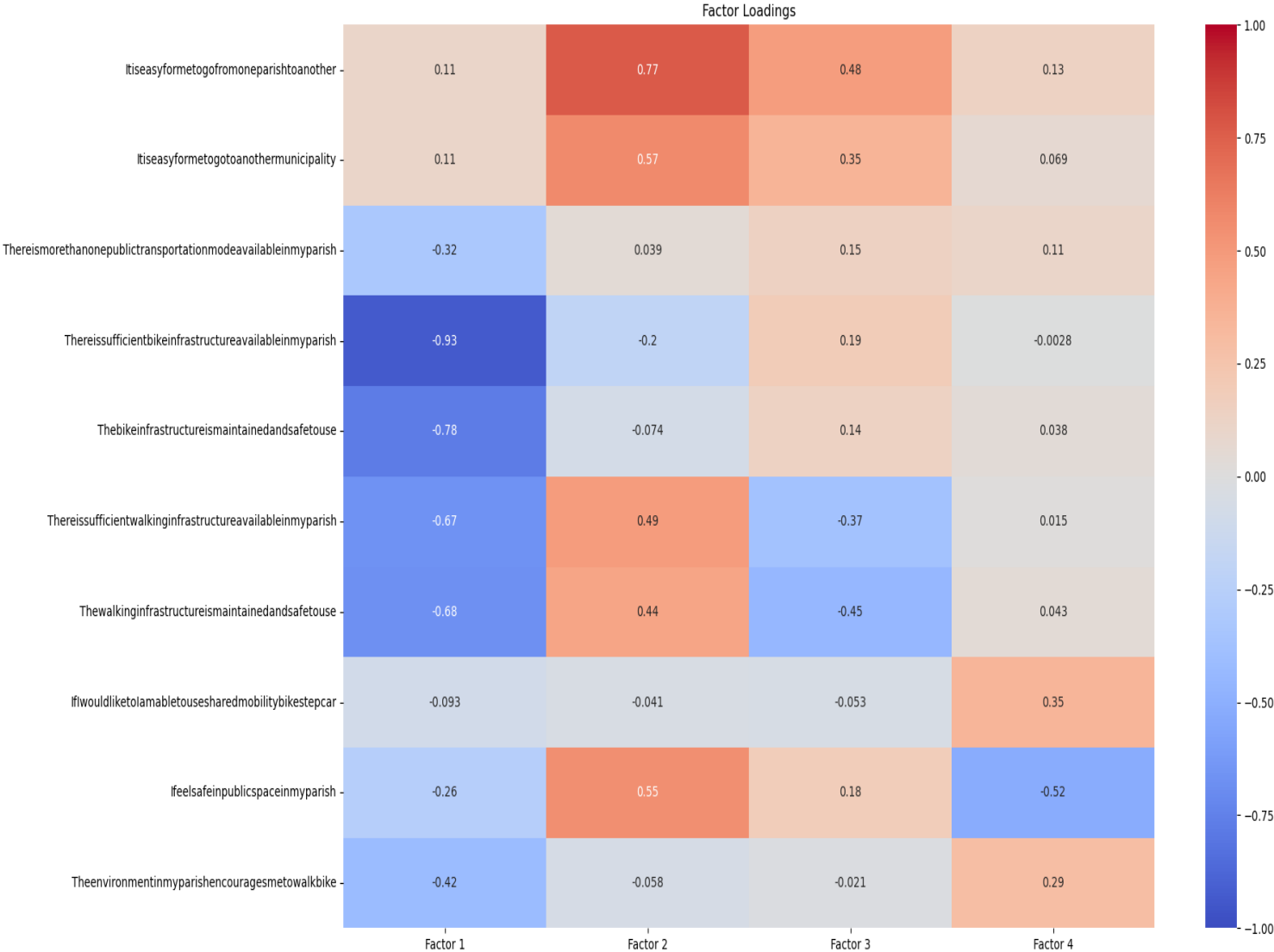|	Factor 1	Factor 2	Factor 3	Factor 4
Itiseasyformetogofromoneparishtoanother	0.11	0.77	0.48	0.13
Itiseasyformetogotoanothermunicipality	0.11	0.57	0.35	0.069
Thereismorethanonepublictransportationmodeavailableinmyparish	-0.32	0.039	0.15	0.11
Thereissufficientbikeinfrastructureavailableinmyparish	-0.93	-0.2	0.19	-0.0028
Thebikeinfrastructureismaintainedandsafetouse	-0.78	-0.074	0.14	0.038
Thereissufficientwalkinginfrastructureavailableinmyparish	-0.67	0.49	-0.37	0.015
Thewalkinginfrastructureismaintainedandsafetouse	-0.68	0.44	-0.45	0.043
Ifiwouldliketolamabletousesharedmobilitybikestepcar	-0.093	-0.041	-0.053	0.35
Ifeelsafeinpublicspaceinmyparish	-0.26	0.55	0.18	-0.52
Theenvironmentinmyparishencouragesmetowalkbike	-0.42	-0.058	-0.021	0.29

3. FACTOR ANALYSIS

Economy

Factor Loadings

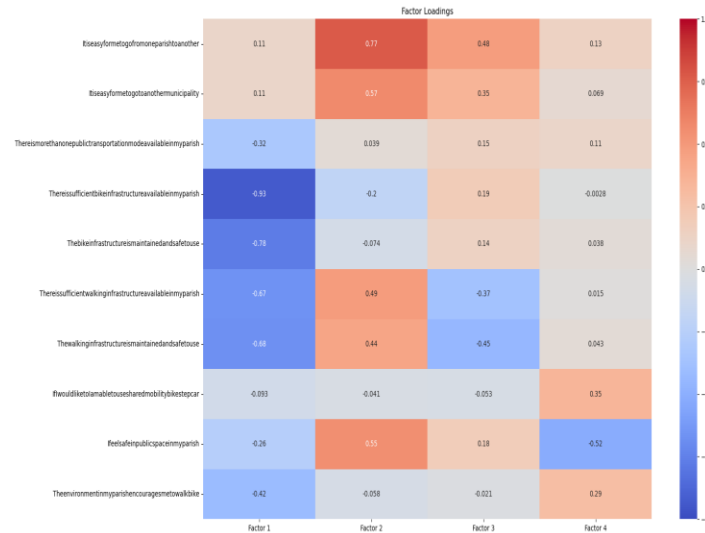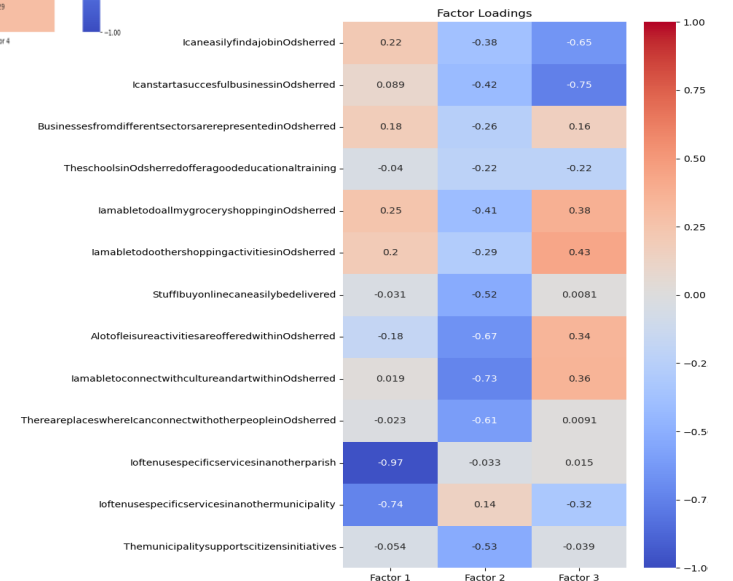|	Factor 1	Factor 2	Factor 3
IcaneasilyfindajobinOdsherred	0.22	-0.38	-0.65
IcanstartasuccesfulbusinessinOdsherred	0.089	-0.42	-0.75
BusinessesfromdifferentsectorsarerepresentedinOdsherred	0.18	-0.26	0.16
TheschoolsinOdsherredofferagoodeducationaltraining	-0.04	-0.22	-0.22
IamabletodoallmygroceryshoppinginOdsherred	0.25	-0.41	0.38
IamabletodoothershoppingactivitiesinOdsherred	0.2	-0.29	0.43
StuffIbuyonlinecaneasilybedelivered	-0.031	-0.52	0.0081
AlotofleisureactivitiesareofferedwithinOdsherred	-0.18	-0.67	0.34
IamabletoconnectwithcultureandartwithinOdsherred	0.019	-0.73	0.36
ThereareplaceswhereIcanconnectwithotherpeopleinOdsherred	-0.023	-0.61	0.0091
Ioftenusespecificservicesinanotherparish	-0.97	-0.033	0.015
Ioftenusespecificservicesinanothermunicipality	-0.74	0.14	-0.32
Themunicipalitysupportscitizensinitiatives	-0.054	-0.53	-0.039

3. FACTOR ANALYSIS

Accessibility

- Lack of cycling and walking infrastructure

- Good connectivity

- Neglected walking network

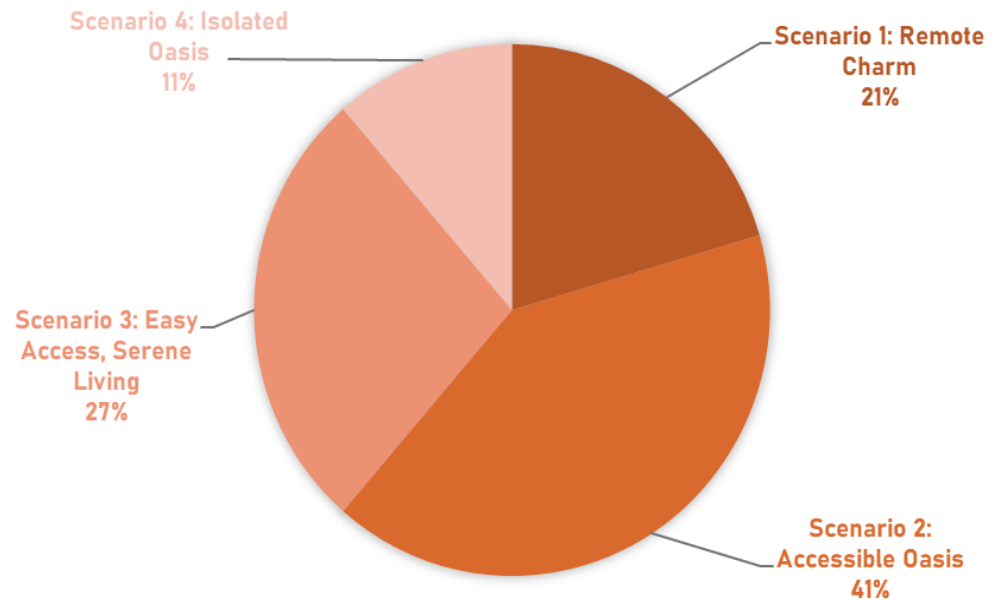- Feeling unsafe in public space

Economy

- Lack of services

- Lack of recreational activities
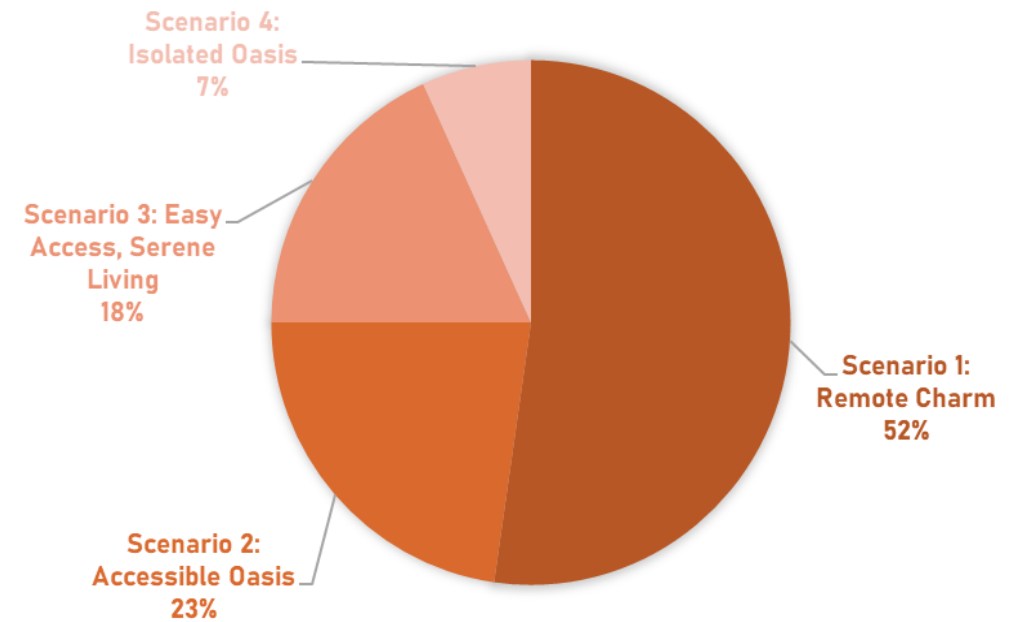
- Lack of employment opportunities

Results were not significant

4. SCENARIOS

EXPECTED SCENARIO

- Scenario 4: Isolated Oasis 11%
- Scenario 1: Remote Charm 21%
- Scenario 3: Easy Access, Serene Living 27%
- Scenario 2: Accessible Oasis 41%

PREFERED SCENARIO

- Scenario 4: Isolated Oasis 7%
- Scenario 3: Easy Access, Serene Living 18%
- Scenario 1: Remote Charm 52%
- Scenario 2: Accessible Oasis 23%

4. SCENARIOS

Relation between chosen scenarios and age group?

Expected scenario

Chi-Square Tests

	Value	df	Asymptotic Significance (2-sided)
Pearson Chi-Square	15,615[a]	9	,075
Likelihood Ratio	18,908	9	,026
Linear-by-Linear Association	1,159	1	,282
N of Valid Cases	44		

a. 15 cells (93,8%) have expected count less than 5. The minimum expected count is ,68.

Prefered scenario

Chi-Square Tests

	Value	df	Asymptotic Significance (2-sided)
Pearson Chi-Square	8,318[a]	9	,502
Likelihood Ratio	9,317	9	,409
Linear-by-Linear Association	2,279	1	,131
N of Valid Cases	44		

a. 13 cells (81,3%) have expected count less than 5. The minimum expected count is ,41.

5. POINTS OF ACTION

Vallekilde
→ Lack of employment opportunities

Asnæs
→ Lack of safety compared to other studied parishes

Nykøbing Sj.
→ Lack of biking and walking infrastructure

Egebjerg
→ Lack of services

REFLECTION

- Too few respondents to make data analysis significant

  - Shorter survey or longer fieldwork needed

- Asking the opinion of experts on migration of Odsherred

- More variation in the time of day so we could reach more diverse people (working adults)

CONCLUSION

- People migrate mostly to or come from nearby municipalities and big cities

- Motives for moving out

  - Education, Employment, Wanting to live in a big city

- Motives for moving in

  - Housing prices and proximity to family/friends

- Vallekilde: employment, Asnaes: safety, Nykobing Sj: walking and cycling infrastructure, Egebjerg: services

Thank you for your attention!
Questions?