BikeACCESS INTERNATIONAL SUMMER SCHOOL

Ljubljana, September 2024 Group: 2 Home Location: Murgle Participants: Anastasija Blagojiević, Jelena Marković, Ema Dubrić, Damjana Lamovšek, Jakub Starzak



UNIVERZA V LJUBLJANI Fakulteta za gradbeništvo in geodezijo







UNIWERSYTET Ekonomiczny W krakowie

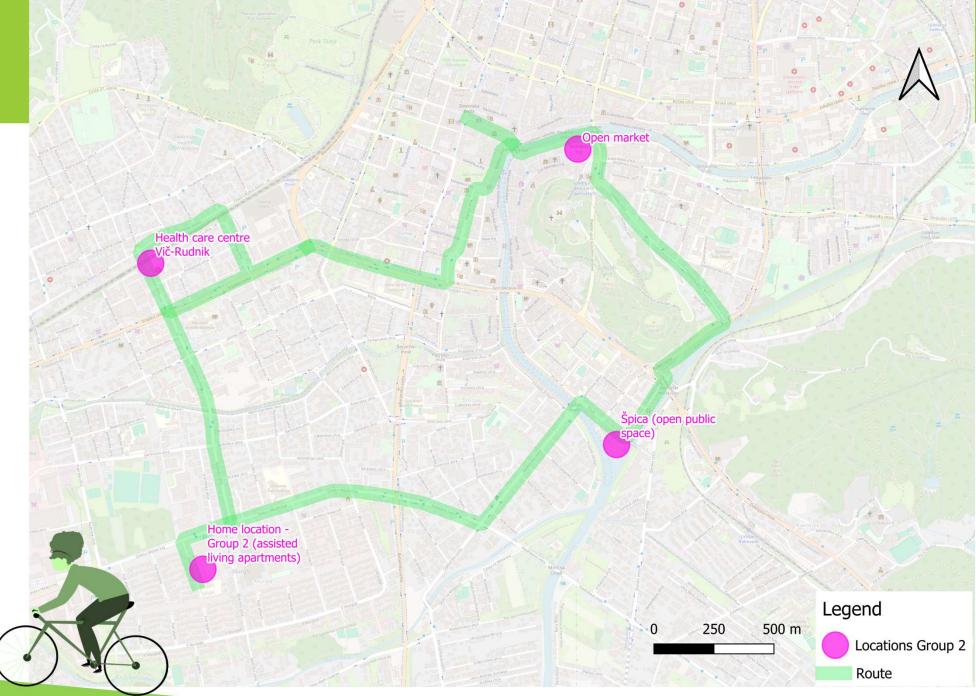




REPUBLIC OF SLOVENIA MINISTRY OF THE ENVIRONMENT, CLIMATE AND ENERGY

INTRODUCTION

- **Cycling** is popular for its environmental, health, and economic benefits.
- Many areas lack safe cycling infrastructure, especially for children, elderly and people with disabilities.
- These groups face higher risks and need secure, accessible routes.
- This presentation identifies problem areas and suggests improvements to make cycling safer for all.

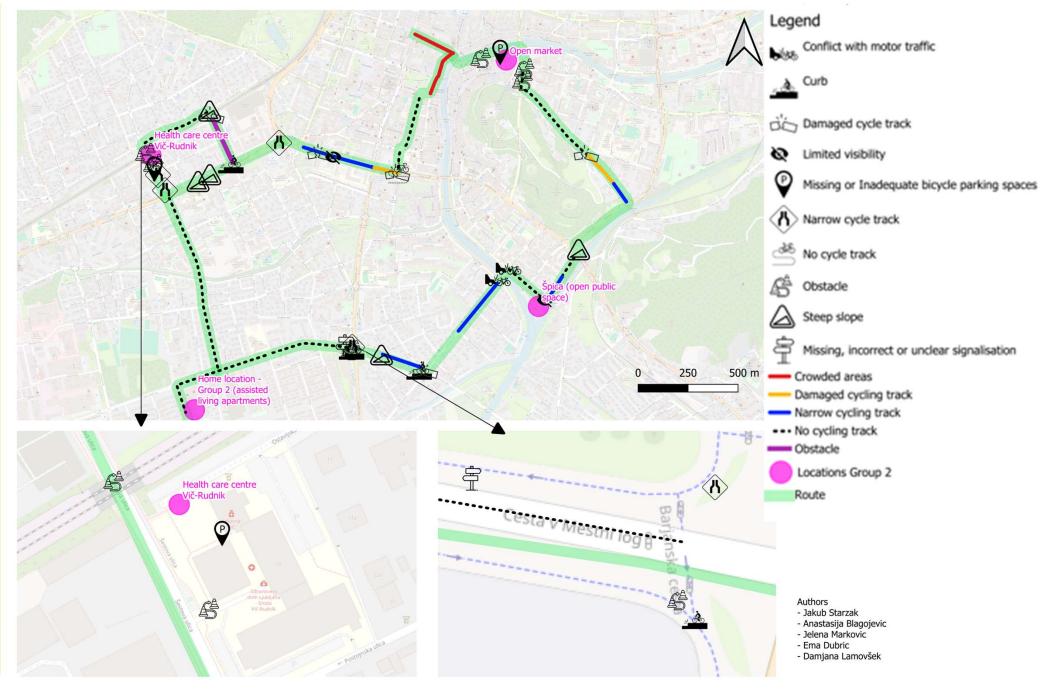




FIELDWORK

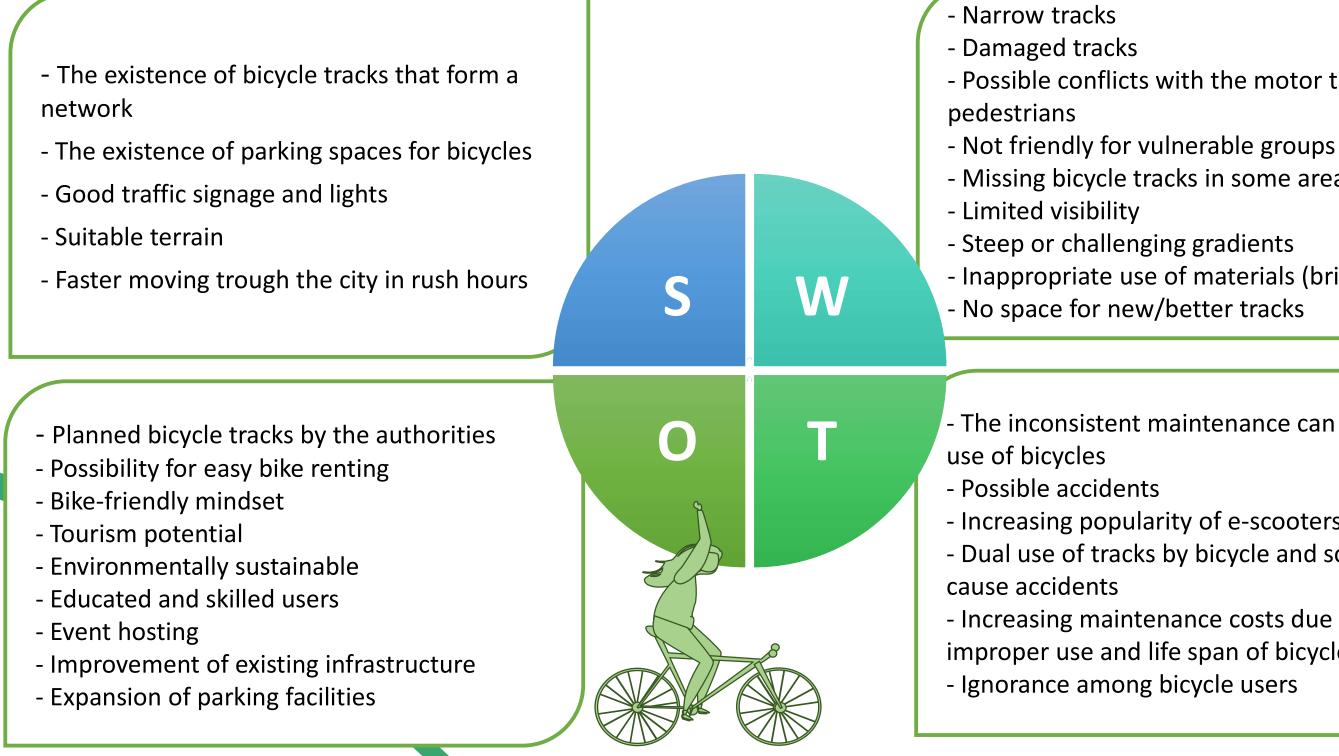
- Fieldwork was done in two groups, by bicycle and on foot.
- The studied route connects home with the health center, open market, and open public space in Ljubljana.
- **Goal**: Identify threats for vulnerable cyclists.
- QField app was used to map problem areas with points and lines.
- Taken photos showed missing cycle tracks, narrow paths, and poor access.

Map 1. Problematic areas



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SWOT



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- Possible conflicts with the motor traffic and

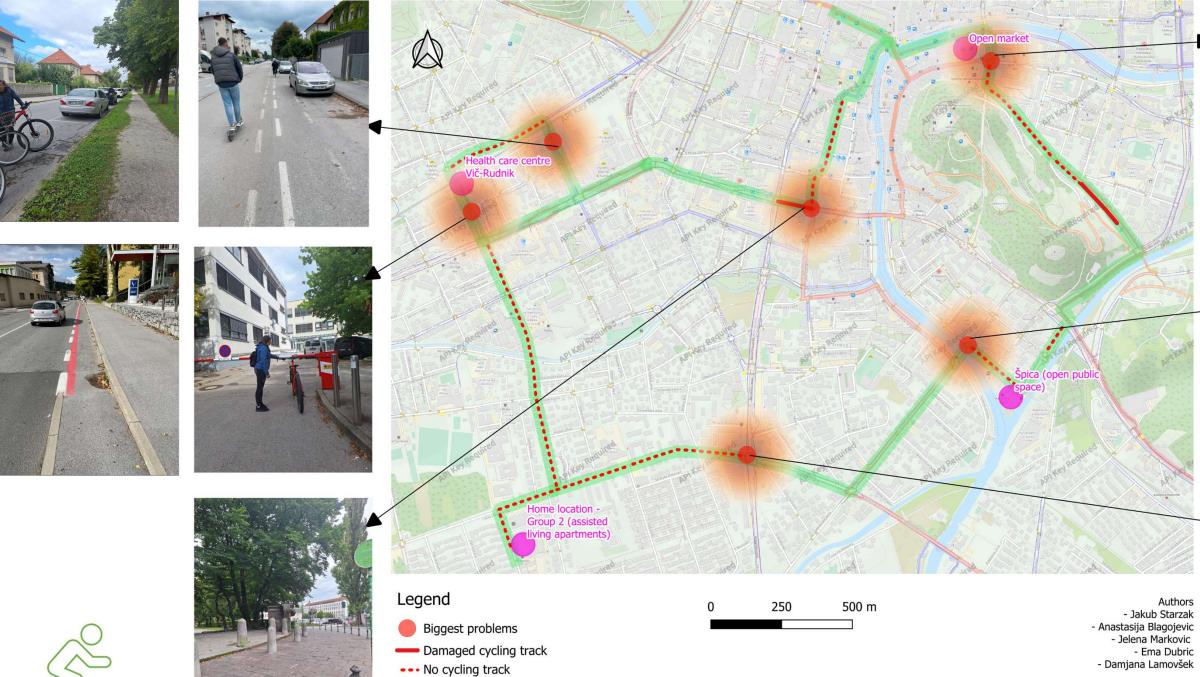
- Missing bicycle tracks in some areas - Inappropriate use of materials (bricks)

- The inconsistent maintenance can reduce the

- Increasing popularity of e-scooters - Dual use of tracks by bicycle and scooters can

- Increasing maintenance costs due to improper use and life span of bicycles

BIGGEST PROBLEMS



Route

ULFGG













SPECIFIC



Separated cycling and pedestrian paths for safety with color distinct to improve clarity

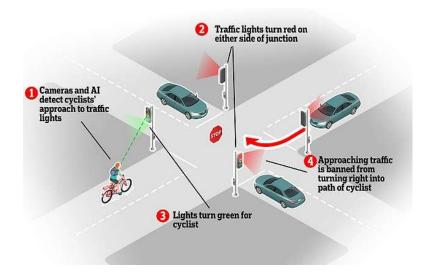
Installing adequate approach for people with disabilities in front

Improving sewage drainage, which eliminates potential dangers for cyclists and improves their riding comfort.



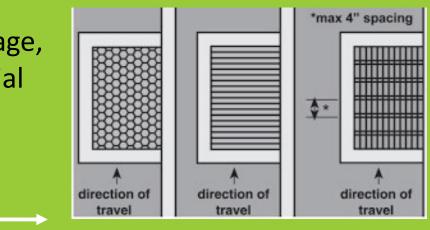
Health Centre Vič Rudnik

Reconstruction of paths with inadequate material and and avoiding high curbs



Smart traffic lights for cyclists - use sensors to detect cyclists and adjust the duration of the green light

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GENERAL



Improved sustainability through solar-powered cycling tracks Using reflective materials and barriers to separate the motor traffic from the bicycles and make cyclists more visible to drivers



Pre-Fab bike lane barriers could help keep cyclists safe

Organizing campaigns for people with disabilities



Creating friendly spaces for cyclists by: planting trees, developing bicycle infrastructure Introducing regulations for electric scooters and bikes, which pose a particular risk to vulnerable groups





CONCLUSIONS

Renovation

Many existing cycling tracks are in poor condition, compromising their daily usability.
Urgent track renovation is necessary to ensure safety and comfort for cyclists.

Accessible Bicycle Parking

- Current parking spaces are often too small or inaccessible.
- Designing flat surfaces for bicycle parking will make them easily accessible for all users.





Numerous tracks are too narrow, often less than the recommended width of 1.5 meters.
Expanding tracks to a minimum of 1.5 meters due to the narrowing of the street or constructing on free space



Signalization

Clear and visible signage at tracks and intersections is crucial.
Dedicated traffic signals for cyclists help with navigation and alerting drivers.

Widening

THANK YOU! Solution

