AGILE PhD School 2024

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Geoinformation Group

Background Information

❑ National Technical University of Athens (NTUA) in 2022
Department of Rural Surveying and Geoinformatics Engineering

❑ Started PhD in 2023 in TU Wien
Research Group Geoinformation

❑ Research Interest:
- ✓ Urban Mobility
- ✓ Transportation Network
- ✓ Modes of Transportation
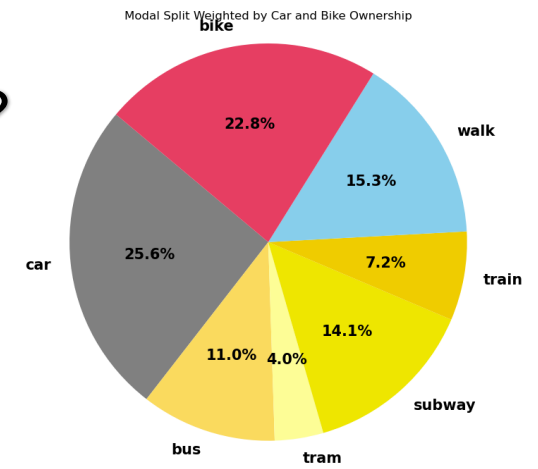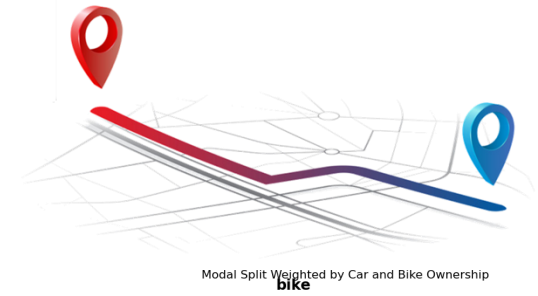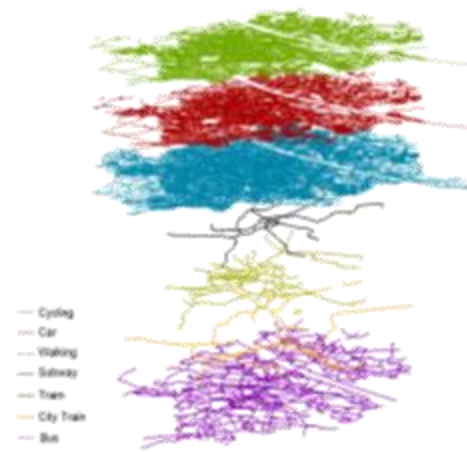- ✓ Routing Algorithms
- ✓ …

My Research

"What changes can be made to the transportation network infrastructure to improve the use of public transport and active mobility modes?"

❑ *geospatial analysis perspective*

❑ *focusing on how the transportation network's structure can be optimized*

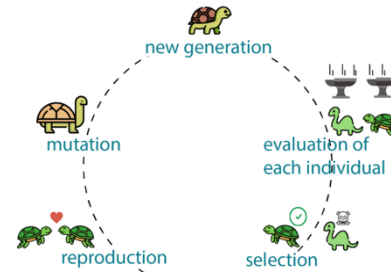❑ *improve mobility routes and encourage greater use of public transportation and active modes of transport*
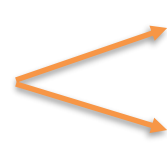
Methodology

❑ *Multi-Modal Graph Structure of a City*

❑ *Select Origin and Destination Pairs*

❑ *Apply Modified Routing Algorithm*

❑ *Which modes of transportation were used in the routes?*

❑ *Observe Network Characteristics*
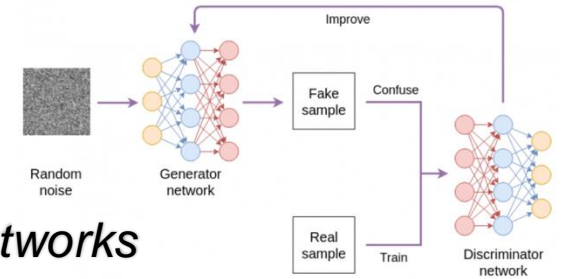
How can we encourage eco-friendly modalities?

☐ *Use Advanced Technologies*

Genetic Algorithms

Generative Adversarial Networks

☐ *Apply and suggest changes in the infrastructure*

Encourage Eco-Friendly Transportation

Thank you !

Gogousou Ioanna