



University of Rijeka, Faculty of Maritime studies

PROJECT ACRONYM AND TITLE: Smart mobility management for smart cities: A Simulation-based modelling approach

FUNDING PROGRAMME: Scientific-Research Project Initiatives of The University of Rijeka (ZIP UNIRI)

PERSON RESPONSIBLE: Dr. Sc. Neven Grubisic, associate professor

FINANCIAL DATA

Project total cost	Overall funding assigned to PFRI
11.812,33 €	11.812,33 €

SUMMARY

Traffic modelling and simulation tools can provide near-real traffic behaviour where traffic flow dynamics and network performance can be observed against various conditions and events. Such events or a state threshold may trigger a policy or actions to mitigate the negative impacts on network performance, congestion, transport service, or environmental impact.

The mesoscopic traffic simulation will be used to provide near-real traffic behaviour in the urban area to observe mobility patterns and transport system responses against a set of traffic scenarios triggered by normal and unpredicted traffic states or events.

The effects of mobility pattern changes (change of route, trip mode, or travel time window) will be investigated and tested in a simulated environment. The change in mobility patterns will be realized through the transfer of information and instructions to an individual user (vehicle) or a group of users (group of vehicles) based on developed algorithms for choosing the optimal route depending on the traffic condition and transport network state.

Start date	End date
01.06.2023.	31.05.2026.

WEBSITE: -

ADDITIONAL INFORMATION:

Members of the project team:

- Tomislav Krljan, assistant, University of Rijeka, Faculty of Maritime Studies
- Dr. Sc. Marko Gulić, assistant professor, University of Rijeka, Faculty of Maritime Studies
- Dr. Sc. Krešimir Vidović, assistant professor, University of Zagreb, Faculty of Transport and Traffic Sciences