EuroTeQ Collider 2023

Theme:

Sustainable Mobility for Inhabitants: Understanding Residents' Needs

Introduction:

As municipalities strive to provide sustainable and accessible transportation services for their inhabitants, they often lack the necessary data and information about their residents' mobility needs. This can result in inefficiencies and waste of resources, as well as inadequate transportation options for certain populations. Therefore, the challenge is to find innovative and effective ways for municipalities to collect and analyze data on their residents' mobility needs, to optimize their transportation services, and improve the overall sustainability of their communities.

Who is behind this initiative?

Citya Mobility is on-demand transportation platform provider that, revolutionizes travel in suburban areas. With our cutting-edge app, passengers in Říčany can seamlessly order a ride and our fleet of 9-seater microbuses will take them where they need to go, all while optimizing routes using AI and real-time data. Our goal is to support public transportation in areas where traditional mass transit falls short, providing a comfortable and reliable alternative for commuters. Join us in our mission to transform mobility and create a more efficient and sustainable future for all.

What is the challenge?

Municipalities are responsible for providing a variety of transportation services, including public transportation, cycling, walking paths, senior taxis, transportation for people with disabilities, and parking. However, they often lack comprehensive data on their residents' mobility needs, which can result in suboptimal transportation services and a waste of resources.
The challenge is to develop innovative approaches to collecting and analyzing data on resident mobility needs that can inform the design and delivery of sustainable transportation services. Participants are encouraged to consider a variety of data sources, including surveys, mobile apps, smart sensors, and other technologies, as well as to explore methods to combine and analyze these data sources to generate insights and inform decision-making.

Interested student teams are asked to engage in the above area by:

- Developing a proposal for an innovative data collection and analysis approach to understand residents' mobility needs, including a description of the technologies and processes involved.
- Conducting a pilot study to test the proposed approach in one or more municipalities, and collecting and analyzing data to inform the design and delivery of transportation services.
- Evaluating the impact of the proposed approach on the efficiency, effectiveness, and sustainability of transportation services, as well as the potential for scalability and replicability in other municipalities.

- Providing a clear and detailed report on the proposed approach, including the methodology, results, and recommendations for future implementation.

Relevant considerations for the challenge / theme:

Challenge the status quo and be open-minded. Consider the diversity of residents' needs and the potential for inclusive transportation services. Develop solutions that are scalable, replicable, and sustainable. Use a multidisciplinary approach that combines technological innovation with social and behavioral insights.