

TOP TEN

**Sevket Oguz Kagan Capkin, Francesca Damiani**  
 La Sapienza Università di Roma

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# Promoting Safe and Sustainable Urban Mobility: A Micro-Mobility Mobile App for Safety, Integration, and Cooperation

This research introduces a micro-mobility mobile application designed to address challenges and promote safety, integration, and cooperation in urban settings. This comprehensive platform connects users, micro-mobility service providers, and local authorities, enabling effective communication and collaboration among stakeholders. Safety features include real-time navigation with optimised routes for micro-mobility vehicles and reminders for helmet usage and traffic regulations, enhancing user awareness and adherence to best practices.

Integration is a key focus of the mobile app, which seamlessly integrates multiple micro-mobility service providers. Users can access a diverse range of vehicles through a single platform, streamlining their experience and providing a unified payment system for convenience. Additionally, the app facilitates smooth integration with existing public transportation networks, enabling users to plan multi-modal trips and fostering a connected transportation ecosystem. Cooperation is essential for successful micro-mobility implementation, and the app actively promotes collaborative actions. It facilitates communication channels between users, service providers, and local authorities, allowing for swift reporting and resolution of issues such as damaged vehicles, traffic violations, or parking irregularities. By encouraging cooperation, the app aims to foster a harmonious relationship between micro-mobility users, service providers, and the wider urban community.

This micro-mobility mobile app represents an innovative solution to urban mobility challenges, enhancing safety, integration, and cooperation. Further research is needed to assess its effectiveness and explore opportunities for improvement in micro-mobility integration and cooperation within urban environments.

