Trufi Association e.V.

Optimizing Public Transport Experience in Kigali

Background:

Citizens of Kigali rely on public transport, such as buses and motorcycle taxis, for daily commutes to work, school, or other activities. Despite improvements on existing infrastructure, there are lingering challenges regarding inaccurate timetables, insufficient information about traffic density, and the best transfer options, for example. Trufi's Journey Planner is already a helpful tool, but there is potential to further optimize its usage.

Goal of the Challenge:

Develop an innovative solution that improves the daily lives of Kigali's citizens by making their access to and use of public transportation in the city easier, more reliable, and more efficient. The solution should focus on improving or expanding the existing MaaS Platform and should address the following aspects:

- **Accessibility and Inclusion**: How could the app be enhanced to better support the needs of people with limited mobility, such as the elderly, parents with small children, and persons with disabilities, by providing accessibility information or special route suggestions?

- **Gamification for Sustainable Mobility**: Develop a feature that incentivizes public transport use, such as a reward system for frequent riders or for switching to more environmentally friendly modes of transportation.

VW Mobility Solutions

Enhancing Accident Management and Mobility Efficiency in Kigali

Background:

In Kigali, accidents, even minor ones, can cause significant traffic delays and disrupt the daily lives of many citizens. Current accident management procedures, including the reliance on hand-written police reports and manual processes, often lead to long wait times and inefficiencies. This not only impacts those directly involved in accidents, like drivers and passengers, but also creates a ripple effect that delays appointments, business meetings, and essential services. There is a clear need for a more efficient system to handle accidents, minimize delays, and provide real-time solutions.

Goal of the Challenge:

Develop an innovative solution that streamlines the accident management process in Kigali, reducing wait times and ensuring smoother mobility for citizens affected by traffic incidents. The solution should focus on digitizing the accident reporting process, improving communication between drivers, passengers, and authorities, and offering alternatives for people affected by such disruptions. The solution could address the following aspects:

- **Real-Time Accident Reporting and Processing**: Create a system that allows drivers and police officers to digitally report accidents on-site, enabling insurance companies and other stakeholders to access the necessary information immediately.

- **Efficient Alternative Mobility Solutions**: Develop a feature within mobility apps that can quickly arrange alternative transportation for passengers affected by accidents, ensuring minimal disruption to their schedules.

- **Integration with Traffic Management Systems**: Design a solution that integrates with the city's traffic management infrastructure to provide real-time updates on accidents and reroute traffic to prevent congestion.

City of Kigali

Transforming Mobility Management for a Smarter Kigali

Background:

As Kigali continues to grow and urbanize, the city faces increasing challenges related to traffic congestion, inefficient public transportation, and delays caused by accidents or road infrastructure issues. While efforts have been made to improve mobility, the city still lacks a comprehensive, data-driven solution to manage its transportation networks effectively. Citizens experience daily frustrations with unreliable transit schedules, traffic jams, and limited real-time information on road conditions. Kigali's authorities are committed to creating a smart city that prioritizes efficient, sustainable, and safe mobility for all residents.

Goal of the Challenge:

Develop an innovative, data-driven mobility management system that enables the City of Kigali to optimize traffic flow, improve public transport efficiency, and enhance the overall commuting experience for its citizens. The solution should focus on providing city authorities with real-time data and tools for decision-making while also improving communication with residents. Key areas to address include:

Real-Time Traffic and Incident Monitoring: Build a system that uses sensors, cameras, or crowd-sourced data to give city authorities a live overview of traffic conditions and incidents, allowing for quicker responses to accidents, traffic jams, or road closures.

Public Transport Optimization: Create tools that analyze and predict public transport demand, helping authorities to adjust routes, schedules, and vehicle dispatches dynamically based on real-time data.

Citizen Engagement and Communication: Develop a platform or app that allows citizens to report road issues, receive live updates on traffic, and suggest improvements to mobility services, fostering a collaborative approach to solving mobility challenges.