

Problem Statement 1 - Breakthroughs in Vehicle Safety and Connectivity

Introduction:

In today's ever-evolving world of transportation, vehicle safety and connectivity are key frontiers in need of breakthrough solutions. This challenge is an invitation to participants to lead the way in advancing transportation safety and communication.

Problem Statement:

This challenge empowers participants to reimagine the possibilities in vehicle safety and communication. We seek innovative solutions that harness cutting-edge technologies to redefine our experience and interaction with vehicles.

Requirements:

1. **Innovative Excellence:** Participants must craft solutions that stand out through innovation, pushing past conventional safety systems and communication methods.
2. **Practical Implement ability:** Solutions should be both visionary and practical for real-world adoption, offering significant potential for improving transportation safety and efficiency.
3. **Interdisciplinary Collaboration:** Encourage participants to collaborate across disciplines, drawing from expertise in fields like artificial intelligence, telecommunications, materials science, and more.

Deliverables:

Participants should present:

- A comprehensive project proposal or document outlining their pioneering solution for vehicle safety and communication.
- A working prototype or proof of concept that demonstrates the functionality and anticipated benefits of the proposed solution.
- A detailed presentation summarizing the project, highlighting its innovative aspects, potential benefits, and real-world significance.
- Code and comprehensive technical documentation hosted on a public platform to facilitate transparent review and collaboration.

Optional Features:

Participants are encouraged to explore additional enhancements that fully utilize advanced technology and interdisciplinary expertise.

Problem Statement 2 - Urban Mobility Reinvented

Introduction:

Urban mobility is at a crossroads, facing the need for innovation in sustainability, efficiency, and quality of life. This challenge calls for a reimagining of urban mobility, striving for smarter, more sustainable transportation systems.

Problem Statement:

This challenge invites participants to conceive groundbreaking solutions for smart and sustainable urban mobility. The goal is to transcend conventional transportation models and design innovative systems that enhance the liveability of cities while efficiently moving people and goods.

Requirements:

1. **Visionary Ideas:** Participants are expected to present visionary ideas that redefine urban mobility, integrating state-of-the-art technology and sustainable practices.
2. **Real-world Impact:** Solutions should not only be visionary but also practical for implementation in urban settings, with a focus on sustainability and urban life improvement.
3. **Interdisciplinary Collaboration:** Encourage participants to collaborate across disciplines, blending expertise in urban planning, environmental science, data analytics, and more.

Deliverables:

Participants should present:

- A comprehensive project proposal or document outlining their visionary solution for smart and sustainable urban mobility.
- A working prototype or proof of concept showcasing the functionality and anticipated benefits of the proposed solution.
- A detailed presentation summarizing the project, emphasizing its innovative aspects, potential benefits, and real-world significance.
- Code and comprehensive technical documentation accessible on a public platform for transparent review and collaboration.

Optional Features:

Participants are encouraged to explore additional enhancements that combine technology, sustainability, and urban planning to create smarter, more liveable cities.