ROBOCHEER

Revolutionizing Autonomous Robotics Innovation through Collaboration in Europe

Need

The rapid advancement of autonomous robotics, including vehicles, UAVs, and UGVs, sets the stage for a significant shift in industries, economies, and societal structures. Driven by AI, advanced navigation, and sensor innovations, these technologies aim to make transportation safer and more efficient. Yet, their widespread adoption faces hurdles like infrastructure needs, regulatory frameworks, safety, and public trust. Addressing these challenges requires a collective effort from governments, urban planners, and logistics operators to ensure autonomous robotics are integrated smoothly into our lives, promoting a sustainable and inclusive future.

Objective

To develop and enhance regional policy instruments and frameworks that proactively prepare public sectors, infrastructure, and workforce for adopting and integrating autonomous robotics and systems, ensuring a seamless transition towards autonomous technologies across European regions.

Planned Actions

Our approach is anchored in the exchange of experience and capacity building, emphasizing identifying and transferring best practices across European regions to pave the way for the seamless integration of autonomous robotics. Actions include:

Assessment and Gap Analysis
We plan to conduct comprehensive assessments to identify readiness levels and gaps in infrastructure, skills, public awareness, and policy frameworks, facilitating a tailored approach to meet the unique demands of autonomous systems.

Pilot Actions
We plan to implement pilot projects from the project's start or midterm, with a maximum of one per policy instrument, to test and evaluate autonomous systems in public settings. We aim to identify best practices and adjust strategies based on real-world insights.

Expected Results

1. Readiness and Gap Analysis Reports

2. Policy Guide for Autonomous Robotics Integration

3. Autonomous Systems Training and Development Frameworks

4. Insightful Case Studies from Pilot Projects

Project Impact

The project will bolster regional preparedness for autonomous robotics, improve policies for technology integration, skill the workforce for future needs, and increase public support. Through a start-up approach, it aims to spark innovation, job growth, and enhanced societal and economic well-being.