Innovative Automotive Data Hub to Enhance Road Safety: the PISTIS platform

Graz, Austria – PISTIS, a groundbreaking project focused on data sharing and monetisation, has launched testing an automotive data hub designed to revolutionise road safety. By leveraging data from diverse sources shared via the PISTIS platform – including driving behaviour, weather conditions, and accident data – the hub aims to deliver near real-time alerts to drivers about potential hazards. This initiative empowers drivers to drive more safely while enabling traffic managers to proactively address safety concerns.

The Automotive Data Hub, a collaborative effort among PISTIS partners – Virtual Vehicle Research, CARUSO Dataplace, Trafficon, and UBIMET – tackles the critical challenge of data sharing among stakeholders in the automotive industry to enable innovative, data driven services. By facilitating seamless data exchange, the automotive hub lays the groundwork for cutting-edge services that prioritize driving and road safety.

Key Features delivered by the Automotive Data Hub:

- **Data-Driven Driver Warning Service Platform:** The Automotive Hub integrates data from vehicles, weather conditions, and road hazards to evaluate individual driving risks and provide personalized safety alerts.
- **In-Vehicle Driver Warning App:** A mobile application that notifies drivers of potential hazards along their route, leveraging event data and current weather conditions to enhance safety.
- **Dashboard for Driving Risk Model Developers:** A web-based dashboard enabling developers to design, test, and refine driver risk models within a simulated environment connected to the Driver Warning Service Platform.
- **Driver Risk Dashboard for Third Parties:** A web dashboard offering a comprehensive overview of driving risks in specific geographical areas, equipped with advanced filtering options to meet diverse user needs.
- **Urban Analytics and Corporate Mobility Management:** A multimodal routing mechanism designed to identify the optimal mode of transport from point A to B, factoring in weather conditions, vehicle emissions, and driving risk hotspots.
- **Urban Emission Modeling:** Tools to estimate motorized vehicle emissions, develop and enhance emission models, and visualize the results through an intuitive dashboard.

"The Automotive Data Hub represents a significant step forward in our mission to improve road safety and enhance the overall driving experience," said Alexander Stoker, Key Researcher & Project Manager at Virtual Vehicle Research. "By seamlessly integrating data from diverse sources and leveraging advanced analytics, we aim to empower both drivers and traffic managers with the insights to make informed decisions and proactively reduce the risk of accidents." Florian Feik, Project Manager at Trafficon, added: "The integration of data through the PISTIS platform enables us

to refine emission models from road vehicles and unlock innovative tools for urban analytics and corporate mobility management. This collaboration opens up new possibilities for sustainable and efficient transportation solutions."

The PISTIS project is dedicated to creating a safer and more sustainable transportation ecosystem. The Automotive Data Hub stands as a testament to this mission, demonstrating the transformative power of data-driven solutions in addressing the complex challenges of the mobility sector.

About PISTIS

PISTIS is an EU-funded project involving a consortium of 31 partners from 11 European countries. Led by Fraunhofer FOKUS, the project aims to develop a platform for secure data sharing and trading. This platform will enable the trusted and controlled exchange of proprietary data assets, by implementing and improving functionalities that will facilitate federated data discovery and sharing, DLTs, NFTs, and AI-driven data quality assessment and monetisation.

Website link: https://www.pistis-project.eu

About Virtual Vehicle

With over 300 employees, VIRTUAL VEHICLE is Europe's largest center for virtual vehicle development. Our research emphasizes the integration of numerical simulations and virtual validation in the automotive and railway industries. Our goal is to make the future of mobility safer, more efficient, and more sustainable than ever.

Website link: https://www.virtual-vehicle.at/

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