

The PISTIS platform: An innovative "Automotive Data Hub" to enhance Road Safety

PISTIS, a groundbreaking, EU funded 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.



Graz (Austria), 29.01.2025 – 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 Data 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 Data 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.

Alexander Stocker, Key Researcher & Project Manager at Virtual Vehicle Research:

"The Automotive Data Hub represents a significant step forward in our mission to improve road safety and enhance the overall driving experience. 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."

PISTIS: 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.

Florian Feik, Project Manager at Trafficon :

"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."

PISTIS: Key innovations, recognized by the EC Innovation Radar

The European Commission's Innovation Radar has recently conducted an analysis of the PISTIS project. "PISTIS - a reference federated data sharing/trading and monetization platform for secure, trusted and controlled exchange and usage of proprietary data assets and data-driven intelligence" has been recognized by the EC Innovation Radar as highly innovative. In particular, the targeted market maturity of the project, the market creation potential as well as key innovators have been positively emphasized.

In the near future, details of PISTIS innovations will be published on the European Commission's Innovation Radar platform.

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.

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The PISTIS project has been officially recognized by the European Commission Innovation Radar.



www.pistis-project.eu

About VIRTUAL VEHICLE

Virtual Vehicle Research GmbH, with 300 employees, is Europe's largest research center for virtual vehicle development. The research focus is on the close integration of numerical simulations and hardware testing in the automotive and rail industries. This approach facilitates the design and automation of testing and validation processes at a defined quality level, enabling the continuous development and validation of complex hardware-software systems. The emphasis on industry-oriented research makes VIRTUAL VEHICLE an innovation catalyst for the vehicle technologies of the future.

VIRTUAL VEHICLE cooperates nationally and internationally with over 180 industry partners (OEMs, Tier-1 and Tier-2 suppliers, as well as software providers) and with more than 80 scientific partners.

Virtual Vehicle Research GmbH, a COMET Competence Center for Excellent Technologies, is funded by the Austrian Federal Ministry for Climate Action, the Austrian Federal Ministry for Labour and Economy, the Province of Styria (Dept. 12) and the Styrian Business Promotion Agency (SFG).

www.virtual-vehicle.at

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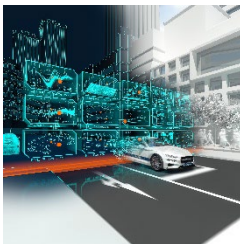
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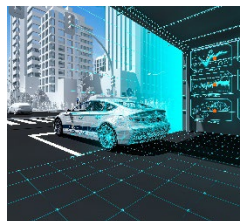
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