French E learning & Real time Road Information Software Publisher Seeking Partnership for AI Powered Crash Prediction Under Horizon Europe HORIZON CL5 2026 01 D6 14

Summary

Profile type	Company's country	POD reference
Research & Development Request	**France**	**RDRFR20250903004**
Profile status	**Type of partnership**	**Targeted countries**
PUBLISHED	**Research and development cooperation agreement**	**• World**
Contact Person	**Term of validity**	**Last update**
Enrico FRANZIN	**3 Sep 2025** **3 Sep 2026**	**3 Sep 2025**

General Information

Short summary

French company with 28 years of experience in software development, specialized in E-learning and real-time road information systems. It brings expertise in AI-based predictive solutions, explainable machine learning, and interactive dashboards for real-time accident risk assessment. Supported by international peer-reviewed publications and operational prototypes, the company now seeks partners for Horizon Europe HORIZON-CL5-2026-01-D6-14 to co-design AI-powered tools for proactive road safety.

Full description

A French SME with 28 years of software-development expertise; the company designs modular platforms in E learning and real time road information domains. Its interdisciplinary teams—data scientists, software engineers, and HCI specialists—combine computer science, UX design, and domain knowledge to deliver scalable solutions for training organizations, local authorities and public agencies.

In e learning, it has built enterprise grade Learning Management Systems and authoring tools, enhanced by Learning Analytics modules that monitor course progress and provide adaptive feedback to improve learner engagement. Deployed in higher education institutions and corporate training, this work underpinned a co supervised doctoral project resulting in six peer reviewed publications in educational data mining and learning analytics.

Moreover, the company has built nationwide road information systems. Its flagship mobile and web application aggregates heterogeneous inputs to deliver real time alerts and hazard warnings. The distributed micro services architecture ensures high availability and low latency under heavy loads.

Since 2022, the company has gradually oriented its R&D toward AI based traffic safety analytics. Drawing on historical accident records, weather conditions and traffic-flow data, its team has developed ensemble based and clustering driven models to predict, as early as possible, the occurrence of accidents on the identified high-risk zones in France. Explainable AI techniques are em-bedded to permit transparency: road managers receive not only the accident prediction, but also interpretable factor attributions. Four peer reviewed publications at international conferences underscore the scientific rigor of these efforts.

For the call HORIZON CL5 2026 01 D6 14—Predicting and avoiding road crashes based on AI and big data—the company is seeking to join or coordinate a pan European consortium. Its envisioned contributions include:

- Advanced risk prediction algorithms refined on multi source datasets
- Real time processing pipelines and alerting micro services
- User centred dashboards and mobile notification modules
- Explainable AI wrappers for model transparency
- Pilot testing on regional road networks with local stakeholders

Advantages and innovations

The company brings deep expertise in data mining and AI to address the challenge of proactive crash prevention. Its proven methodologies combine large scale accident and traffic datasets with ensemble and clustering machine learning models, delivering early and accurate risk forecasts. The integration of explainable AI modules ensures transparent attribution to enable factors required for actionable decision support.

Leveraging its modular micro services architecture and cloud native pipelines, the company can ingest multi source data into a unified digital twin, shortening development cycles and reducing deployment risk. Its interdisciplinary teams excel at translating complex AI outputs into intuitive dashboards and mobile alerts, thereby fostering stakeholder trust.

By adapting mature data orchestration frameworks and visualization components, the company is well positioned to accelerate consortium efforts, delivering scalable, user centred solutions for predicting and preventing road crashes across Europe.

Technical specification or expertise sought

To realize an AI powered crash prediction system at European scale, partners are sought to enrich and refine the core technological framework. Ideal collaborators will bring advanced capabilities in data acquisition and preprocessing, including access to extensive historical and real time accident records, high resolution traffic flow streams, detailed weather feeds and comprehensive road infrastructure metadata. Expertise in harmonizing these heterogeneous datasets will be critical for training robust predictive models.

On the algorithmic front, partners with demonstrated experience in developing and validating ensemble, clustering and probabilistic machine learning architectures for early risk detection are required. Familiarity with explainable AI methodologies will enable integration of transparent factor attribution layers, ensuring that each forecast can be interpreted by road authorities. Proficiency in statistical validation and uncertainty quantification is essential to underpin decision support dashboards with scientifically rigorous confidence metrics.

Given the real time nature of accident forecasting, expertise in streaming data engineering and cloud native micro services is another key requirement. Partners should be adept at designing low latency pipelines, constructing

geospatial digital twin environments and integrating GIS frame-works for map based visualization. Experience with container orchestration tools and scalable archi-tectures will support shortened development cycles and reduced deployment risk.

Equally important is the capacity to translate complex AI outputs into human centred interfaces. Collaboration with specialists in front end technologies and user experience design will facilitate deliery of intuitive dashboards and mobile alerts modules tailored to non expert operators. A track record of iterative usability testing and stakeholder co design will help foster user trust and drive solution adoption.

Finally, real world pilot deployments conducted in cooperation with road authorities, public agencies or municipal traffic centers will require expertise in systems integration, field trial design and KPI driven evaluation. Knowledge of relevant EU regulations (GDPR, road safety directives) and standards (ISO/CEN) will ensure compliance, ethical integrity and seamless reporting under Horizon Europe.

Stage of development

Available for demonstration

Sustainable Development goals

- **Goal 17: Partnerships to achieve the Goal**
- **Goal 11: Sustainable Cities and Communities**
- **Goal 3: Good Health and Well-being**
- **Goal 9: Industry, Innovation and Infrastructure**

IPR Status

Secret know-how

IPR Notes

Partner Sought

Expected role of the partner

To build a robust, AI driven road safety solution, we are forming a pan European, multidisciplinary consortium. We seek partners across the following domains:

1. Data Providers: Public or private entities that can grant access to essential datasets—historical and real time accident records, traffic flow measurements, meteorological observations, and de-tailed road-network attributes (e.g. geometry, pavement quality). Suitable partners include nation-al road-safety agencies, police crash-data repositories, highway operators, telematics firms and meteorological services. Their contributions are vital to train and validate predictive models on factors known to influence crash risk.

2. Road Authorities and Public Agencies: Regional and national transport ministries, highway authorities, traffic-management centers, municipalities or road-safety agencies willing to host pilot deployments. These partners will co evaluate the solution’s forecasting performance in real world conditions, provide feedback on intervention strategies,

and supply safety-outcome metrics to assess impact.

3. Academic and Research Institutions: Universities, research laboratories and industrial R&D units with expertise in traffic engineering, machine learning, risk modeling and safety analytics. They will collaborate on methodological development—co-designing and evaluating advanced AI solutions—and ensure rigorous scientific validation.

4. Industry and Technology Providers: Vehicle manufacturers, telematics/GPS companies, soft-ware/hardware vendors, data analytics startups, and system integrators. These partners can sup-ply proprietary data streams, sensor networks, edge computing platforms or cloud services infra-structure, as well as guidance on commercial deployment and scalability.

5. Insurance and Emergency Services: Insurance firms and first responder organizations (e.g. ambulance, fire, police services) interested in accident prevention. By sharing aggregated incident and claims data, they will help validate model accuracy against real outcomes and support economic analyses of the solution's benefits, strengthening the business case for safety interventions.

6. EU Wide and Cross Border Partners: Organizations from multiple Member States, ensuring coverage of diverse road typologies, climate zones and regulatory frameworks. Partners in each region will run localized pilots, contributing to a broad validation base that supports scalability and harmonization with EU road-safety objectives.

We welcome both academic institutions and enterprises—large or small—that can contribute data, technical expertise or pilot deployment capacity. Each partner is expected to actively engage in data sharing, co design workshops, model testing and impact assessment.

Type of partnership

Research and development cooperation agreement

Type and size of the partner

- **University**
- **Big company**
- **R&D Institution**
- **Other**

Call Details

Framework program

Horizon Europe

Call title and identifier

HORIZON CL5 2026 01 D6 14—Predicting and avoiding road crashes based on AI and big data

Submission and evaluation scheme

Anticipated project budget

Coordinator required

Yes

Deadline for EoI

21 Nov 2025

Deadline of the call

20 Jan 2026

Project duration in weeks

Web link to the call

Project title and acronym

Dissemination

Technology keywords

Market keywords

- **02007016 - Artificial intelligence related software**
- **02007001 - Systems software**

Targeted countries

- **World**

Sector groups involved