



IDRIVING UPDATES · EDITION 1 · LAUNCH, JUL 2024

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Intelligent & Digital Roadway Infrastructure for Vehicles Integrated with Next-Gen Technologies

The launch of iDriving

This edition looks back at the launch of **iDriving – Intelligent & Digital Roadway Infrastructure for Vehicles Integrated with Next-Gen Technologies**, a project funded by the European Union's Horizon Europe programme.

iDriving started on 1 July 2024 and runs for 36 months, until 30 June 2027. Its aim is simple to state: help road users, road managers and public agencies make urban and secondary roads safer, with better ways to monitor roads, anticipate risks and send warnings.

ABOUT THE PROJECT

What is iDriving?

iDriving develops intelligent, data-driven solutions for urban and secondary roads across Europe. Using artificial intelligence (AI), digital twins (virtual models of the road kept up to date with real data) and real-time monitoring, the project will help detect road hazards, plan maintenance better and let vehicles and road infrastructure exchange information.

The project also works closely with municipalities and policymakers, so that its solutions match the needs of the people who will use them and support European road safety goals.

[About iDriving →](#)

WHY IT MATTERS

Why our roads need smarter infrastructure

- **Busy city streets:** crowded junctions, impatient driving and more cyclists, e-bike riders and pedestrians sharing roads designed for cars all raise the risk of collisions.
- **Reactive maintenance:** road damage is often fixed only once it has become serious, and manual inspections of large networks are slow and costly.
- **Secondary roads:** roads linking towns and rural areas get less investment and face sudden weather changes, fallen trees, rockslides and dangerous overtaking on blind bends.

[Explore our use cases →](#)

OUR GOALS

What iDriving will deliver

Over three years, iDriving is working towards seven objectives:

- **New ways for vehicles and roads to talk to each other**, through a common catalogue for exchanging data between road infrastructure, vehicles, cyclists, pedestrians, warning signs and drones.
- **Fast, accurate monitoring** of road conditions, traffic and driver behaviour, with AI that analyses data close to where it is collected.
- **Digital twins for early warnings:** virtual models of the road that help analyse events and warn road users in good time.
- **Smarter maintenance**, so that problems are found and fixed before they become dangerous or costly.
- **Connected apps and services:** mobile and in-vehicle apps for early warnings, drones for data collection and a road safety control centre that brings the information together.
- **A Safety Criteria Catalogue** for urban and secondary roads, setting benchmarks and indicators for road safety.
- **Real-world pilots** to test and evaluate the whole system with the people who will use it.

[See the iDriving solution →](#)

PILOTS

Three use cases, six pilot sites

iDriving will test its technology through three use cases, each with two scenarios, at six pilot sites in six countries: Austria, Croatia, France, Greece, Romania and Spain.

- **Use case 1 – Enhanced logging and user interaction monitoring:** Graz (Austria) and Nevers (France), monitoring busy junctions for risky behaviour such as riding without a helmet, not wearing a seatbelt or using the wrong lane.
- **Use case 2 – Infrastructure maintenance and road monitoring for hazards:** Karlovac (Croatia) and Thessaloniki (Greece), spotting potholes, obstructions and dangerous weather early so that authorities can act.
- **Use case 3 – Real-time incident prediction, detection and response:** Bizkaia (Spain) and Alba Iulia (Romania), detecting dangerous driving such as speeding and risky overtaking, and accidents, as early as possible.

[Read about the pilots →](#)

WHO WE ARE

17 partners from 10 countries

The iDriving consortium brings together research centres, universities, companies and cities. The project is coordinated by the Centre for Research and Technology Hellas (CERTH), with **Dr Stefanos Vrochidis (CERTH)** as Project Coordinator and Technical Manager and **Prof. Ioannis Papamichail** of the Technical University of Crete as Scientific Manager.

Partners: CERTH, Technical University of Crete, AustriaTech, Université Gustave Eiffel, Fundación Tekniker, Ingartek Consulting, Infra Plan, Acceligence, Netcompany-Introsoft, SIMAVI, ALP.Lab, Municipality of Alba Iulia, DRAXIS Research Ventures, Law and Internet Foundation, Municipality of Thessaloniki, City of Karlovac and Mobilysis. The EU contribution is €4,998,733.

[Meet the consortium →](#)



KICK-OFF

Off to a strong start in Thessaloniki

On 17 and 18 July 2024, the partners met at CERTH in Thessaloniki for the project's kick-off meeting. After a welcome from Project Coordinator Dr Stefanos Vrochidis, each partner introduced its role, and Nikolaos Dourvas (CERTH) presented the project's objectives and timeline.

The first day focused on work plans, data governance, intellectual property and risk management. The second day was dedicated to planning the pilots with local authorities, including data privacy and the logistics of using drones.

[Read more →](#)

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