

# Eureka

## Project partners Search Form

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**Program** (select appropriate):

- EUREKA  
 EUROSTARS  
 CLUSTER  
 CELTIC-NEXT  
 EUROGIA<sup>2030</sup>  
 ITEA4

- SMART  
 Xecs

**Thematic Call** (if applies):

- AI (Artificial Intelligence)  
 Green Transition

**Contact Person Details**

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**Organization Details:**

Name: CRISES Research Group - Universitat Rovira i Virgili

Country: Spain

Website: <https://crises-deim.urv.cat/web/>

Type of Organization:   
 SME                                   
 Large Company                   
 University  
 Research Inst.                           
 Administration                   
 Other (specify):

Number of Employees:   
 < 10                                   
 11-50                                   
 51-100  
 101-250                                   
 > 250

**Describe the activities, products, services, and expertise of your organization:**

The group interest and its contribution to the socioeconomic environment is centered in the creation of technologies of industrial interest ( products and services ) that make compatible three objectives:

1. Cybersecurity for companies, governments and individuals in the information society
2. Privacy of the individuals who are users or passive subjects of the information society
3. Utility of the underlying informatics systems

<b>Project Details</b>	
Project Title	<b><i>6G Vertical: Decentralized Applications for Next-Generation Networks</i></b>
Acronym	TrustDrive
Keywords	Cybersecurity, 6G, LEZ, Smart Mobility, Blockchain
<b>Describe your Project:</b>	
<ul style="list-style-type: none"> <li>Our proposal aims to develop a blockchain-based system that enables vehicles to collect and securely store tamper-proof, GDPR-compliant evidence related to their surrounding traffic and regulatory incidents. The system would be integrated into the vehicle's On-Board Unit (OBU), gathering data through cameras, sensors, and telemetry to capture detailed vehicular incidences, making use of Blockchain technology, along with cryptographic mechanisms, to ensure incident evidence integrity, authenticity, and immutability. Additionally, a secure, privacy-aware, controlled-access platform allows authorized stakeholders (insurance companies, law enforcement entities, or regulatory bodies) to query, request authorization for, and retrieve evidence in a transparent and secure manner.</li> </ul>	
<b>Describe the innovative part of your project:</b>	
<ul style="list-style-type: none"> <li>Compared to existing solutions, the proposed distributed system offers key advantages by generating and managing robust and tamper-proof vehicular evidence that ensures legal admissibility, while reducing the reliance on manual inspections and fixed enforcement infrastructure. By combining decentralized ledger technologies, vehicular sensing, and next-generation connectivity, this innovative proposal demonstrates how decentralized applications can unlock new levels of trust, efficiency, and interoperability in smart transportation verticals.</li> </ul>	
<b>Describe the market expectations of your project:</b>	
<ul style="list-style-type: none"> <li>€4.4k M Global - Projected size of the global blockchain market in automotive.</li> <li>€250M Europe - Revenue from blockchain solutions for mobility and smart cities in mature regions</li> <li>15M€ (2025-2026) Spain - Based on the ZBE management budgets of the 149 Spanish municipalities required (average of 80k€/city for control software).</li> </ul>	

**Possible Partner Profile:**

Type of Partner Needed (multiple choices are allowed)	<input checked="" type="checkbox"/> SME	<input checked="" type="checkbox"/> Larger Company
	<input type="checkbox"/> University	<input type="checkbox"/> Research Institution
	<input type="checkbox"/> Administration	<input type="checkbox"/> Other (specify):

**Describe the expertise of possible partner(s) required for your project:**

- We are looking for an industrial partner willing to work along with us on an applied R+D project in the automotive, logistic or mobility sector.
- The partner should be the leader of the project and should propose an innovative industrial challenge in the form of a new and innovative process or a product.
- In this Bottom-Up approach we would apply our scientific and technical expertise to solve the challenge and to find the best solution.

**Describe the role of possible partner(s) in your project:**

- Define the industrial problem or propose an industrial improvement that needs applied science to be solved.
- Lead the proposal process and coordinate the technical execution of the project.

**TrustDrive: Generando Pruebas Vehiculares Confiables con Blockchain**

**El Problema: La Falta de Confianza en las Pruebas Actuales**

**Informes policiales y de testigos**  
A menudo dependen de interpretaciones subjetivas y pueden ser inconsistentes o poco fiables, lo que debilita su validez legal.

**Dashcams y sistemas de telemetría**  
Son vulnerables a la manipulación, pueden fallar en momentos críticos o no proporcionar una visión completa de los eventos.

**Datos de sensores y localización**  
Carecen de una capa de inmutabilidad, lo que los hace susceptibles a modificaciones y reduce su fiabilidad como prueba legal.

**Un déficit de confianza generalizado**  
Los métodos actuales no garantizan la integridad de los datos, generando desconfianza, costes legales elevados y una aplicación ineficaz de las normativas.

**La Solución: TrustDrive**

**¿Qué es TrustDrive?**  
Un sistema basado en blockchain que permite a los vehículos recopilar y asegurar de forma autónoma pruebas inalterables sobre sus actividades y su entorno.

**1. Captura de datos multimodales**  
El sistema integra datos de cámaras, GPS/Galileo y otros sensores del vehículo para crear un registro detallado del evento.

**2. Generación de pruebas inalterables**  
Empieza tecnología blockchain, hashing criptográfico y firmas digitales para garantizar la autenticidad e inmutabilidad de la evidencia.

**3. Acceso controlado y seguro**  
Una plataforma permite a entidades autorizadas (policía, aseguradoras) solicitar y acceder a los datos de forma transparente y cumpliendo con el RGPD.

**Impacto y Beneficios Clave**

**Impacto Social: Transparencia y Equidad**  
Proporciona pruebas objetivas e indiscutibles, fomentando la confianza entre ciudadanos, autoridades y el sistema judicial para una resolución justa de incidentes.

**Impacto Ambiental: Movilidad Sostenible**  
Facilita la aplicación fiable de normativas como las Zonas de Bajas Emisiones (ZBE), contribuyendo a reducir la contaminación urbana y apoyando el Pacto Verde Europeo.

**Impacto Económico: Reducción de Costes**  
Disminuye significativamente los costes asociados a litigios, tramitación de seguros y la implementación de infraestructura física para el control del tráfico.

**Potencial de Ahorro en Infraestructura**  
Por ejemplo, el gobierno de Cataluña destinó 8 M€ en subvenciones para implementar ZBE, destacando los altos costes que TrustDrive podría ayudar a reducir.

NotebookLM

Deadline for Partner Search: 20/03/2026