Expression of interest

Contact details

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Short description of the organisation
Provide a short description of the equipment available, the relations with the industry, the profile of the main researchers

PITON Technology was established in 2006 and develops software, mobile applications and Mobility-as-a-Service solutions for Intelligent Transportation Systems, Geographic Information Systems and Payment Systems with excellent engineering solutions. PITON Technology has successfully completed various turnkey projects of different brands and models of vehicles (metro, train, tram, bus) and onboard systems (PIS, PA, CCTV, Media and Content Management System, DCP (Driver Control Panel)), Automated Fare Collection (AFC), Payment/ Ticketing System software-hardware (QR, NFC, Credit Card, Online) all over the world.

Specific skills related to the project

Indicate the specific skills and competence in relation with "HORIZON-CL5-2024-D6-01-06: Optimising multimodal network and traffic management, harnessing data from infrastructures, mobility of passengers and freight transport" topic

PITON Technology have skills below:
- Requirements Analysis in Transportation and Mobility
- Intelligent Transportation Systems
- Software Development
- System Designing
- Integration on existing/conventional systems
- AI/ML/DL and Heuristics Algorithms Development
- Hardware Designing
- System Integration
- Geographic Information Systems
- Payment Systems for Public Services (especially in transportation)
- Commercialisation of Products in Global Transportation and Mobility Market

Proposed activities for the project
Indicate which activities you would like to implement during the project

- Common-payment gateway for MaaS (Mobility-as-a-Service)

- Optimised multimodal transport network and traffic management, for efficient door-todoor mobility of passengers and freight (from producers to last mile deliveries).
- Assessing and simulating the effects on multimodal network and traffic management of new forms of mobility
- Designing and testing innovative multimodal network and traffic management services, offered by public and/or private stakeholders, which can be operated at network centres (e.g. at cities or hubs) and/or at decentralised level (e.g. by users or vehicles/vessels themselves).

References

Previous research project

Project acronym / starting date	Main objectives	Main activities	Role in the project
TUBITAK 7210502 Vehicle And Driver Scheduling And Information System In Urban Light Rail Transportation Systems	Digitalisation of urban transportation systems	Developing metaheuristics algorithms, developing software and user interfaces, designing system architecture, Commercialisation	Project Owner/Coordinator
Development and Production of Electronic Control Units and Software Components of On-Board Control, Communication and Information Systems (KOSGEB Domestic Production Programme)	Developing and designing new Public Addressing and Passenger Information System for railway vehicles	Manufacturing electronics, designing hardware, developing software and user interfaces, designing system architecture, Commercialisation	Project Owner/Coordinator
Gulo-Gulo (CELTIC-Eurogia Joint Call)	Developing Assistive Autonomous Vehicle Systems	Vision-based navigation, GIS-based mobile app development	Project Partner
PAPIS & CCTV Systems Modernisation of ESTRAM Light Rail Operating Company	Digitalisation of PAPIS & CCTV systems on trams	Development PAPIS and CCTV software and embedded systems	Contractor
PAPIS & CCTV Supplying in TURASAS Gaziray and BOZANKAYA Gebze-Darıca Unmanned Metro projects	Manufacturing railway vehicles	PAPIS & CCTV Systems (software, middleware and hardware) supplying	Main Contractor