

RESULTS OF THE PRE-SELECTION OF APPLICATIONS FOR THE INTERNATIONAL INVENTION AND INNOVATION COMPETITION IN ROAD SAFETY

The International Invention and Innovation Competition, scheduled to take place from February 18 to 20, 2025, is part of the 4th Global Ministerial Conference on Road Safety, which will be held in Marrakech, Morocco. This event aims to foster creativity and promote innovative solutions to address road safety challenges.

Applications received:

A total of **119 applications** were submitted, representing **27 countries** across five continents. Among these projects, **23 are already patented**, underscoring the high level of innovation and maturity of the proposals.

The projects encompass several key areas:

- **Vehicle:** Tires, braking systems, suspensions, interior or exterior protection (windows, windshields, roofs, and doors), propulsion system arrangements, signaling or lighting devices, and safety equipment (seat belts, helmets, body finishes, alarm devices).
- **Smart Mobility:** Driver assistance systems, intelligent traffic management, autonomous driving, artificial intelligence, and machine learning, among others.
- **Road Signage:** Layout of road signs or traffic signals and traffic control systems.
- **Embedded Systems:** Devices to enhance caution, cameras, location tracking, speed calculation, driving analysis, driver condition monitoring, automatic accident alert systems, and tracking systems (trip reports, geolocation, etc.).
- **Applications aimed at improving road safety:** Mobile or software applications designed to enhance road safety, including tools for safe navigation, real-time traffic condition alerts, alternative route recommendations in case of accidents, and interactive road safety educational programs.
- **Any other device or method having a positive impact on improving road safety.**

Pre-selection process:

Applications were evaluated against stringent criteria, including innovation, technical and economic feasibility, sustainability, relevance, potential impact, scalability, and intellectual property. The pre-selection was carried out by a distinguished jury comprising experts in road safety, intellectual property, academia, and inventors.



Karim ADIB
Road Safety Expert - NARSA



Ayoub ELADRAOUI
Road Safety Expert - NARSA



Moncef ELAFIA
Head of Patent - OMPIC



El Houssaine ELRHALEB
Professor Med 5 University



Abdellah BOUKHANFOURA
Inventor - President of AMRI NGO



Majid BOUZZAOUI
Inventor / Head of O'FEED

This thorough process led to the selection of 10 promising projects that will advance to the final phase.

PROJECT ID	PROJECT	COUNTRY
RSI_7	Adapted Speed System in a Road Bend Situation in VANET Environment	Morocco
RSI_17	CROSS: Road Safety Risk Map of Chile by Crossing Crashes and Speed	Chile
RSI_32	Synergistic Reconfigurable Traffic Intersection	China
RSI_42	Improved Alertness and Vigilance in Drivers with DopaSun™ Sunglasses and AlertSteer™ Steering Wheel	United States
RSI_63	Revolutionizing Road Safety at Intersections: Retrolight System®	Spain
RSI_64	Brake Cooling System Utilizing Descent Energy Recovery	Morocco
RSI_70	Prediction Methods for Enhancing Road Safety	Saudi Arabia
RSI_108	FlineBox: An Innovative and Sustainable Solution for Preventing Alcohol-related Road Fatalities	Belgium
RSI_111	Pyroelectric Sensor for Monitoring Disc Brake Pad Wear in Automobiles	Morocco
RSI_112	Transport for West Midlands Boosts Road Safety as Part of a UK-first AI Project	United Kingdom

Next step: The final phase

The 10 finalists will present their projects to an international jury of experts in Marrakech on February 17, 2025, where five awards will be conferred:

- **Grand Prize**
- **Second Prize**
- **Third Prize**
- **Jury Prize:** Recognizing originality and creativity.
- **Most Promising Invention Prize:** Awarded to the project with the highest development potential.

The final jury will include also a panel of experts from international organizations: the World Health Organization (**WHO**), the World Intellectual Property Organization (**WIPO**), and the World Economic Forum (**WEF**).

Best of luck to all participants, and see you in Marrakech!