

EVAD2 2022

EVAD2 2022 is an evolution of the INTERSECTION 2020 project to develop a methodology for testing autonomous emergency braking systems (AEB) in a new and challenging scenario: intersections.



THE Applus+ SOLUTION

EVAD2 2022 is a project under development to establish test models for automatic emergency braking and evasive systems, such as the AES (Autonomous Emergency Steering) and the ESS (Emergency Steering Support) through digital solutions. In pursuit of this objectives, Applus+ uses both virtual simulators and physical environments, which enables the analysis of both the vehicle and the driver's reactions. This combination of a virtual and physical tool can check that the driver's reaction is the same within the virtual simulator as when set in a physical environment. Therefore, this combination is essential for the ability to define the testing of these security systems.

APPLICATIONS AND RELATED SERVICES

- Virtual simulator

Target customers

Car manufacturers and consumer associations.

Key customer benefits

- Virtual simulators allow repetition of tests, control of weather conditions, greater control over scenarios, the possibility of recreating infinite situations and a reduction in costs and time.

- EVADE 2022 offers guidelines to the manufacturers, indicating what type of alerts they can put in their vehicles to improve the driving experience, as well as information on whether or not drivers would like to use these security systems and how they would use them.
- Detailed understanding of the driver's reaction to automated emergency systems that are not yet on the market.
- Unification and standardization of these emergency braking systems among the different automotive manufacturers and with consumer associations to move forward in the same direction.
- The innovation and development of new technologies to help increase the safety of vehicle that have to be regulated and mandatory in the long term, favouring safe driving and the safety of the drivers themselves.