

INTERNET OF THINGS

IOT SYSTEM FOR ROAD HAZARD WARNING

1. THE FACTS

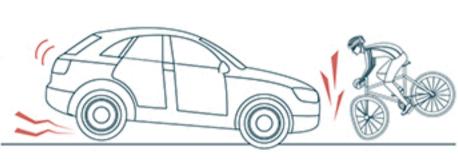
All over the world, more than half of all road traffic deaths are among vulnerable road users: cyclists, pedestrians and motorcyclists.

EUROPE

2.100 cyclists are killed every year 250.000 are injured

SPAIN

70 cyclists are killed every year 7.400 are injured



Sources: WHO, ERSO, DGT

2. THE SOLUTION

AUTOMATIC ROAD
OBSTACLES NOTIFICATION

Technological solution to provide drivers a "sixth sense" which allows them to anticipate to hazards and risky situations.













- Thanks to mobile connectivity, the image captured by the drone's camera is sent to the system in real time.
- The image is processed in the Multi-Access Edge Computing (MEC), which allows the processing of large data at the network edge and the immediate response enabling critical communications.
- Thanks to the **Computer vision** and the **Machine learning** technologies installed in the MEC, it is detected when there is a bicycle or any other obstacle circulating on the road.
- Thanks to C-V2X (Cellular Vehicle to Everything), the car can communicate with its environment. Connected cars moving in the same direction receive an alarm so that drivers are aware if there is a cyclist ahead and must leave space when overtaking him.

This **Technology solution** can be used to detect **different obstacles** just by training the **Computer vision** and **Machine learning** system.







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