



# SAFE-ROAD



**SAFE-ROAD** is a system that reduces the risk of hitting motorcycles / cyclists by vehicles in movement.

Every year we count hundreds of deaths and thousands of injured in road accidents involving cyclists and motorcyclists. Most of these accidents are caused by cars, buses or trucks due to overtaking of motorcycles / cycles entering the areas of lack of visibility by the driver of the vehicle.

SAFEROAD is a solution that can drastically reduce this accident risk by reporting to the driver of the vehicle the presence of the motorcycle / cyclist in the immediate vicinity. It can be defined as a proximity alarm.

The solution consists of a transmitter positioned on the motorcycle / bicycle and a receiver positioned inside the vehicle capable of assessing the distance between the receiver itself and the transmitter (s) in its vicinity. The receiver activates a proximity signal if the transmitter is about 30 meters away. Instead, it activates an alert indicating the presence of motion or cycle when one of the detected transmitters approaches less than 5 meters. The distances within which to issue a signal of proximity or alert are fully configurable.

The receiver consists of a small 5x5 box powered by a USB socket (5V), on which a LED matrix is positioned and in which a passive buzzer is installed. The LED matrix lights up with a green pyramid geometric figure in the event of a signal of proximity and a red color in the event of an alert. In the event of a warning, the driver can activate the internal buzzer which emits sound signals at different frequencies depending on the type of signal (low frequency in the case of proximity and high frequency in the event of an alert). This buzzer can be deactivated by a switch located outside the box. **SAFE-ROAD** is a system equipped with a unique high-tech software, with a **very low cost**.

## The technology used:

### Receiver:

- Bluetooth;
- WiFi;
- **Warning message (Optical / Sound)** to inform the driver of the proximity of a motorcycle / cycle;
- **Connection** with a central control system via mobile network (Optional);
- **GPS** for the location of the device (Optional);
- **Computer**;
- **Power supply** 220V or 5V

### Transmitter:

- **APP** for Android and iOS Smartphones

**PATENT PENDING**



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**SAFE-ROAD**, in the case where the tracking of the position of the vehicle equipment is also required, periodically records (with configurable period), the geolocated position from internal GPS, the signals issued and the date / time of detection, in a Data Base Server to allow the manager to view the routes and types of reports detected.



**SAFE-ROAD**, in case the mobile connection is required, also allows to:



- Carry out the evolutionary and corrective maintenance of the vehicle's software remotely.
- Log the functional events chosen by the user, such as, for example, the routes taken and the speed of the vehicle in the open routes, or in the visibility sections of the GPS satellites.
- View the status of vehicles and their position on a map.

For Info and Contacts:

Ing. **Valerio Ferraguto**

Mobile: **335 6537 588**

e-mail: [valerio.ferraguto@sistemifutura.it](mailto:valerio.ferraguto@sistemifutura.it)

[www.sistemifutura.it](http://www.sistemifutura.it)

Ing. **Giuseppe Zampatti**

Mobile: **335 7557 992**

e-mail: [giuseppe.zampatti@sistemifutura.it](mailto:giuseppe.zampatti@sistemifutura.it)

[info@sistemifutura.it](mailto:info@sistemifutura.it)

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