



SAFE-RIDE



SAFE-RIDE is a system that reduces the investment risk of cyclists by vehicles at intersections with roads or road crossings.

It is based on sensors that detect the presence of a cyclist who is about to cross an intersection or a crossing as well as the approach of a vehicle if it could be a danger. The system identifies the cyclist, whatever the conditions of environmental visibility (fog, rain or full darkness), and informs both the incoming vehicle of his presence and the cyclist of the danger.

In the **SAFE-RIDE** System the **CLIMAVIA** subsystem can be integrated, able to detect weather and environmental parameters. The information gathered allows to have an urban climatological picture of point, which the cyclist or the operating room can use.

SAFE-RIDE does not require infrastructure work to operate, just a pole.

SAFE-RIDE is a system equipped with a unique high-tech software, and is at a low

cost.

The technology used:

- **Bluetooth connection;**
- **Warning message to inform the cyclist of the approach of a vehicle;**
- **Connection with a central control system via mobile network;**
- **Twilight sensor;**
- **Orange LED flashing light to alert vehicles of the presence of cyclists;**
- **GPS for the location of the device;**
- **Computer;**
- **Handheld video camera (optional)**
- **Power Supply 220v o 12v**

CLIMAVIA

- Temperature, pressure and humidity sensors
- Risk of fog and haze
- UVA and UVB solar radiation sensor
- Determination of Dew Point and Wet Bulb
- Rain sensor, hail risk
- Wind sensor, intensity, direction and gusts
- Particulate detector (PM10 / PM2.5)
- NOX, SOX, COX detector (optional)



PM10/2.5



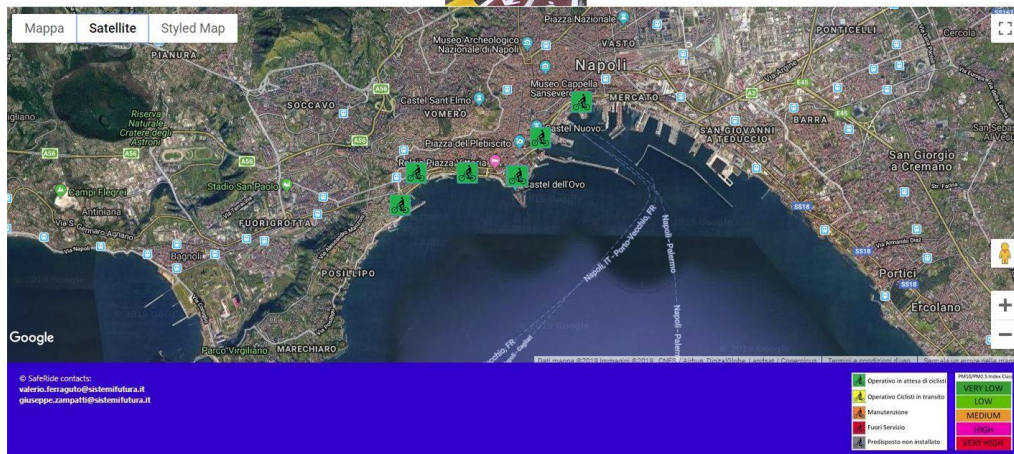
PATENT PENDING



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SAFE-RIDE records all the physical, weather / environmental quantities detected and the activities performed, in a Data Base Server to allow the manager to view, both the cycle traffic and the climatological conditions of each monitored point..

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SAFE-RIDE also allows:



- Highlight the operational status of the sensors of each **SAFE-RIDE** device and the individual measured weather / environmental quantities on a map in real time.
- Establish a secure connection from the Control Room to any peripheral device to verify its functionality and / or change its operating status.
- Report any equipment faults or power supply interruptions.
- Remotely perform evolutionary and corrective software maintenance.
- Log the functional events chosen by the user, such as, for example, the transit speed of vehicles, images, congestion, etc.

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