commsignia

Invisible Safety Network for Vulnerable Road Users

Design a forgiving infrastructure with V2X

Top features

for road users

- Drivers get alerts about pedestrians and other parameters of the environment, so they can react in time (e.g. school zone, speed limit information)
- Pedestrians can be alerted about imminent dangers
- Sensors help to interact passively with road infrastructure, e.g. to trigger and maintain a green signal for safe crossing.

for road operators:

- Promote active mobility by improving travel efficiency of pedestrians and cyclists.
- Increase the use of mass transit by improving the accessibility of the feeder network.
- Analyze potential conflict zones to improve built infrastructure where it is most needed.
- Optimize traffic using real-time data.

Unique Benefits of the Connected Ecosystem

- V2X-enabled intersection will be aware of V2X-enabled cars nearby
- Connected cars send information about congested road
- V2X messages can reroute vehicles to avoid hazards and road works
- V2X-enabled cars and micromobility get real time alert about an emergency situation such as fallen people on the road detected by a smart sensor
- While cities equip their urban maintenance fleets, ambulances and fire trucks to get priority at signalized intersections, the same V2X roadside unit can also alert these drivers about VRUs crossing their routes.

Active mobility offers a wide range of benefits, from **reducing traffic congestion and improving air quality** to increasing mobility options. However, people who choose to walk, cycle or ride an e-scooter have much less protection. Increased road safety measures make active mobility more attractive.

Every road user expects a transport infrastructure in which they can make decisions based on **accurate information** and have sufficient opportunity to correct any errors. In most cases, this involves costly upgrading of the built infrastructure, and it can be combined with intelligent transport solutions for the best results.

V2X helps give road users enough room to understand the traffic situation and react accordingly.

People worry about road user interactions

Over 78% of consumers worry about bicyclists, e-scooter riders and pedestrians unexpectedly riding into traffic or entering the road while they are driving - according to a survey by Commsignia. 97% of respondents found it useful to get real time information on temporary dangerous road via V2X.

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Provide extra safety in school zones

Connected school buses and V2X Roadside Units can geofence school zones with V2X speed limit alerts sent to passing vehicles.

Priority to pedestrians and micromobility

Pedestrians and bicyclists can be **detected by sensors**, so they are automatically given a right of way at crossings.

Connected VRUs

Bicycles will have integrated **V2X to broadcast their presence** to the infrastructure.

Network Safety Solution

Commsignia Roadside Units connected to Commsignia Central data and device manager software can extend the coverage of V2X-based warnings to smartphone apps and car head units, reaching road users who do not have V2X-enabled vehicles.

How to improve your Vision Zero Action Plan

1 Purchase and integrate RSUs with your sensors

2 Install OBUs in your priority fleet vehicles to enable V2X-based safety and efficiency features

3 Connect your V2X deployment to non-V2X vehicles and VRUs via Pedestrian-to-Network and Network-to-Pedestrian solutions to unlock extended awareness

4 Analyze and optimize your traffic and use V2X data to identify bottlenecks and traffic conflict zones

5 Assess the impact of your deployment

About us

Commsignia is the largest company fully focused on V2X technology.

Our mission is to drive the industry forward and create innovative solutions ready for deployment.

We are members of

5GAA Automotive Association

CAR 2 CAR COMMUNICATION CONSORTIUM

ETSI

SECREDAS Digital Privacy Safety & Security

SAFER-LC

SAFER TEC

Interested?

Let us set up a demo for you!

Drop us a line at:
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