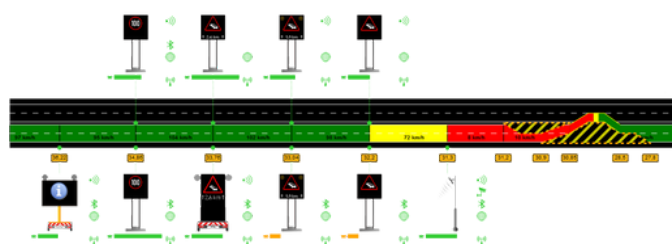# ViaZone
Mobile Traffic Management System

ViaZONE

Smart mobile system for **managing traffic in roadwork zones** and **critical locations**. Provides **real-time data analysis**, **automatic VMS update**s, and **dynamic driver guidance** to improve safety and reduce congestion.

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System Components

e-CON FD-MC100 Multicontroller

Central unit integrating detectors, LED panels, and VMS signs. Features open architecture, remote control, and compatibility with various traffic technologies.

Dedicated Software

Web-based interface for real-time monitoring, data analysis, and report generation, with map-based visualization of current road conditions.

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ViaZone Mobile Traffic Management System

Variable Message Signs (VMS)

Mobile, regulation-compliant signs with fast setup and built-in monitoring of LED status, power, and security features.

Flexible Power Supply

Supports batteries, solar panels, generators, or 230V power. Smart energy management prevents deep discharge and optimizes consumption.

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Detectors and Radars

Integrates Bluetooth, Wi-Fi, and radar sensors to measure travel times, detect delays, and analyze traffic by vehicle type and speed.

How ViaZone Works

ViaZone continuously **collects and analyzes data** from **radars, Bluetooth/Wi-Fi modules, FCD, and cameras** to monitor **traffic volume, speed, and delays**. Based on real-time conditions, it automatically adjusts control scenarios and **updates VMS signs with relevant messages and warnings**.
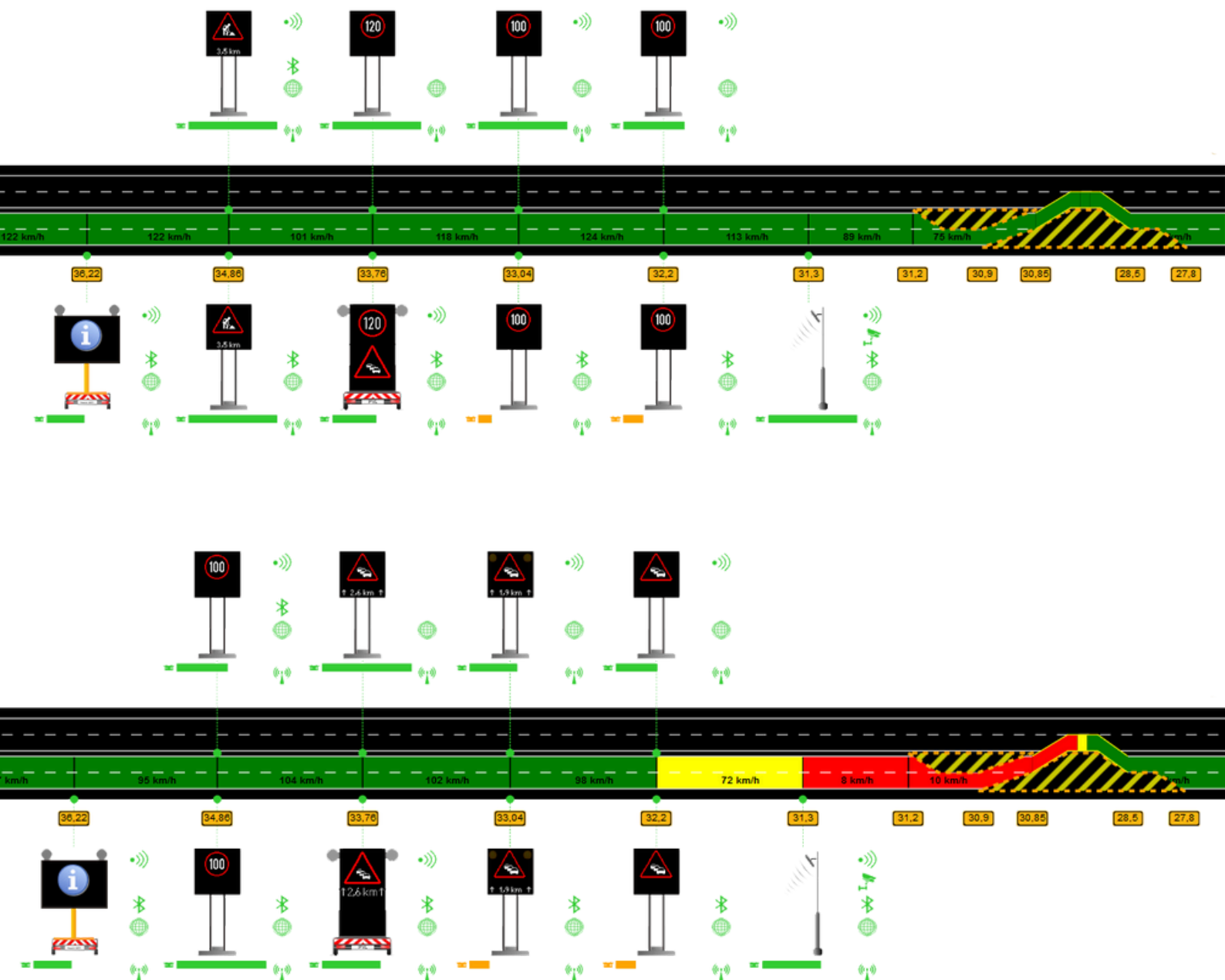
This allows drivers to react immediately to changing traffic situations, while operators retain full remote access to the system — either in automatic mode for autonomous operation or manual mode for direct intervention.

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Applications

Roadworks Zone

Ideal for construction areas with dynamic traffic patterns. ViaZone manages lane usage, rerouting, and communicates current hazards, reducing accident risks and improving flow.

Transit Routes

On national roads and highways, ViaZone minimizes bottlenecks and streamlines traffic by analyzing vehicle density and travel times, then displaying alerts or alternate routes.

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ViaZone
Mobile Traffic
Management System

Critical Infrastructure

Effective for managing traffic near strategic sites like bridges, tunnels, ports, airports, and logistics hubs. ViaZone provides situational awareness and rapid incident response, supporting transport continuity and infrastructure safety.

Cities and Urban Areas

Integrates with Smart City systems to manage mobility, reduce congestion, improve air quality, and support data-driven urban planning.

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ViaZone by Numbers

Up to **30% fewer collisions** in roadwork zones through precise traffic control and increased safety for both drivers and road workers

Up to **40% improved traffic flow** via dynamic lane control and real-time communication, resulting in fewer traffic jams and shorter travel times

Reduced fuel consumption and travel time, offering direct cost savings, lower vehicle emissions, and improved air quality