

Traffic Management System

A traffic management system is a collection of operational controls and user-facing solutions for coordinating the effective movement of people and goods across different modalities

It relies on real-time data from connected road infrastructure and predictive analytics to effectively coordinate traffic across city arteries

A smart traffic management system is a technology solution that municipalities can integrate into their traffic cabinets and intersections for fast, cost-effective improvements in safety and traffic flow on their city streets

.Here are some key features of intelligent traffic management systems:

Video traffic detection systems: These systems use edge processing capabilities to detect incidents when they happen, such as car crashes, road blockages, and illegal activities

Real-time traffic monitoring: This feature allows traffic managers to receive real-time and predictive insights about traffic flow speeds and traffic congestion/incidents

Dynamic message sign monitoring and control: This feature allows traffic managers to monitor and control dynamic message signs, which can be used to provide drivers with real-time information about traffic conditions

Traffic camera monitoring and control: This feature allows traffic managers to monitor and control traffic cameras, which can be used to detect incidents and monitor traffic flow

.Active Traffic Management (ATM): This feature uses sensors, cameras, routers, and cellular technology to dynamically adjust control mechanisms such as traffic lights, freeway on-ramp meters, bus rapid transit lanes, highway message boards, and even speed limits

Smart traffic sensors: These sensors are one of the main technological aspects of smart traffic management systems. They can be used to detect traffic flow, speed, and density, and can help traffic managers optimize

traffic infrastructure

Intelligent traffic management systems help to limit and mitigate traffic collisions, minimize congestion, and improve safety on city streets through connected technology

They are an essential component of smart city design and can help cities become more efficient and sustainable