

Smart Traffic Management

Real-time monitoring of traffic video and flow

Summary

Traffic safety and flow remains a critical issue for municipalities to address. With the advent of traffic cameras, it is now easier than ever for an operator to see what might be happening at a particular segment of a traffic network. However, with so many video streams available to operators, it is often too much for them to proactively monitor all feeds manually.

At the same time, electronic road sensors only provide a limited amount of information to traffic systems. With the real story being told through video streams, a more intelligent form of analysis is needed to improve traffic management capabilities of municipalities.

With the adoption of robust variable signage, operators need faster access to information to keep commuters updated and on time.

Improve public transit routing and related commuter traffic flow.

This solution use case, provided by Tech Mahindra on the MindSphere platform, provides smart traffic management capability for municipalities, traffic police and transportation agencies.

With real-time monitoring of video streams this solution provides fast alerts to key issues that may be occurring within your road networks. Operators can respond quickly to these issues with alerts and rerouting of traffic, including public transit to help keep transit systems running optimally.

With built-in incident detection, accidents and security risks to traffic are easily identified enabling faster response from public safety officers.

Integration with variable messaging signage helps keep commuters in-the-know and recommend alternate routes to stay on time.

Benefits

- Minimize stops and delays in a road network to decrease travel times.
- Improve timing, routing, communication and efficiency of public transit.
- Real time visibility of incidents and accidents to improve public safety and traffic flow recommendations.
- Improve coordination of traffic signals based on conditions to improve traffic flow.

Features

- Real-time analysis of video feeds to measure traffic speed, volume, and flow.
- Integration with variable message signs to improve communication with commuters.
- Red light / speed detection capability
- Parking lot vacancy counters
- Video incident detection system

