

## Intelligent Transportation Systems (ITS): Ideas and Inspiration

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Examples follow on how DOTs are currently using advanced wireless technologies and where intelligent transportation systems are headed in the years to come.

- + Cloud-based platforms that centralize data for a region's traffic management systems
- + "Wrong-way driver" detection systems
- + Dust storm alerts, with smart digital signage that automatically reduces speed limits in storm zones
- + On-ramp metering to keep traffic moving efficiently
- + "First- and last-mile" solutions supporting activities like on-demand bus response
- + AI platforms for traffic management
- + Connected roadways, with hundreds of devices collecting and analyzing data
- + Connected autonomous vehicle (CAV) corridors and CAV-supportive road markings
- + Prioritized traffic management solutions for public transit and safety vehicles
- + Dynamic express lanes to assist with rush-hour traffic
- + Autonomous shuttles
- + Drones for bridge inspections, site documentation, and roadway mapping
- + Fleet management systems that monitor routes, travel times, and road conditions in heavily traveled areas
- + Testing corridors for connected and autonomous vehicles

