The journey to safer roadways.

Where we’ve been.

Safety is in our DNA. At every crossroads, 3M has been a leader in adapting roadway infrastructure to meet the needs of human drivers.

Visible guidance:
AT NIGHT
1st
Retroreflective signs & pavement markings

IN RAIN
1st
Wet retroreflective pavement markings & optics

AT DAWN & DUSK
1st
Fluorescent colors for retroreflective sheeting

Where we are.

Advanced Driver-Assistance Systems (ADAS):
A foundation for the future

Vehicles with Levels 1-2 Automated Driving Systems are on the road, and 3M is working with Automotive OEMs, automotive suppliers, component manufacturers and DOTs to develop safe solutions.

Safety | Mobility | Convenience.
Where we’re headed.

Roads & vehicles: A symbiotic system

Infrastructure should enable—not impede—the safety and performance of automated vehicles. Together, they form one engineered transportation system. 3M solutions can help enhance safety and redundancy—ultimately preparing the way for levels 3-5 Automated Driving Systems.

3M is developing technology in three phases...

PHASE 1: Pavement Markings

Allow detection by sensor modalities—and humans—in varying weather conditions

PHASE 2: Digitally-enabled Materials

Embedded and encrypted digital codes for enhanced detection and interpretation at highway speeds

PHASE 3: Safety Intelligence

Data exchange between Connected Automated Vehicles (CAV) and infrastructure to discover trends, recommend safety improvements, maintenance needs and more

3M™ Connected Roads: enabling intelligent infrastructure.

SAFETY:
Eliminate 80-90% of accidents caused by human error

EFFICIENCY:
Reduce delays up to 95% with better flow through intersections

ECONOMY:
Estimated annual savings $2,000 per automated vehicle (reduced crashes, travel time, fuel and parking)

Join us at 3M.com/ConnectedRoads.


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