



**3M** Science.  
Applied to Life.™

# 3M™ Connected Roads

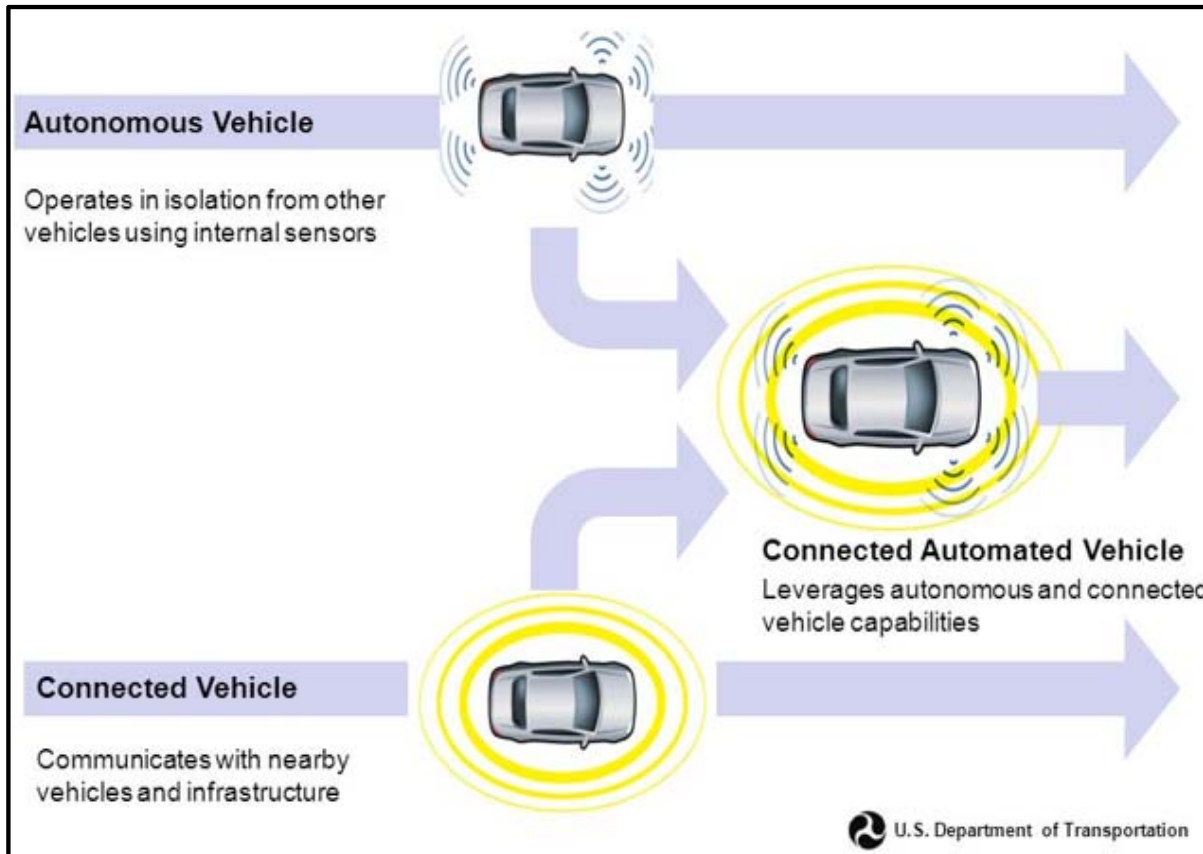
Transportation Safety Division

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by Michael Holderness

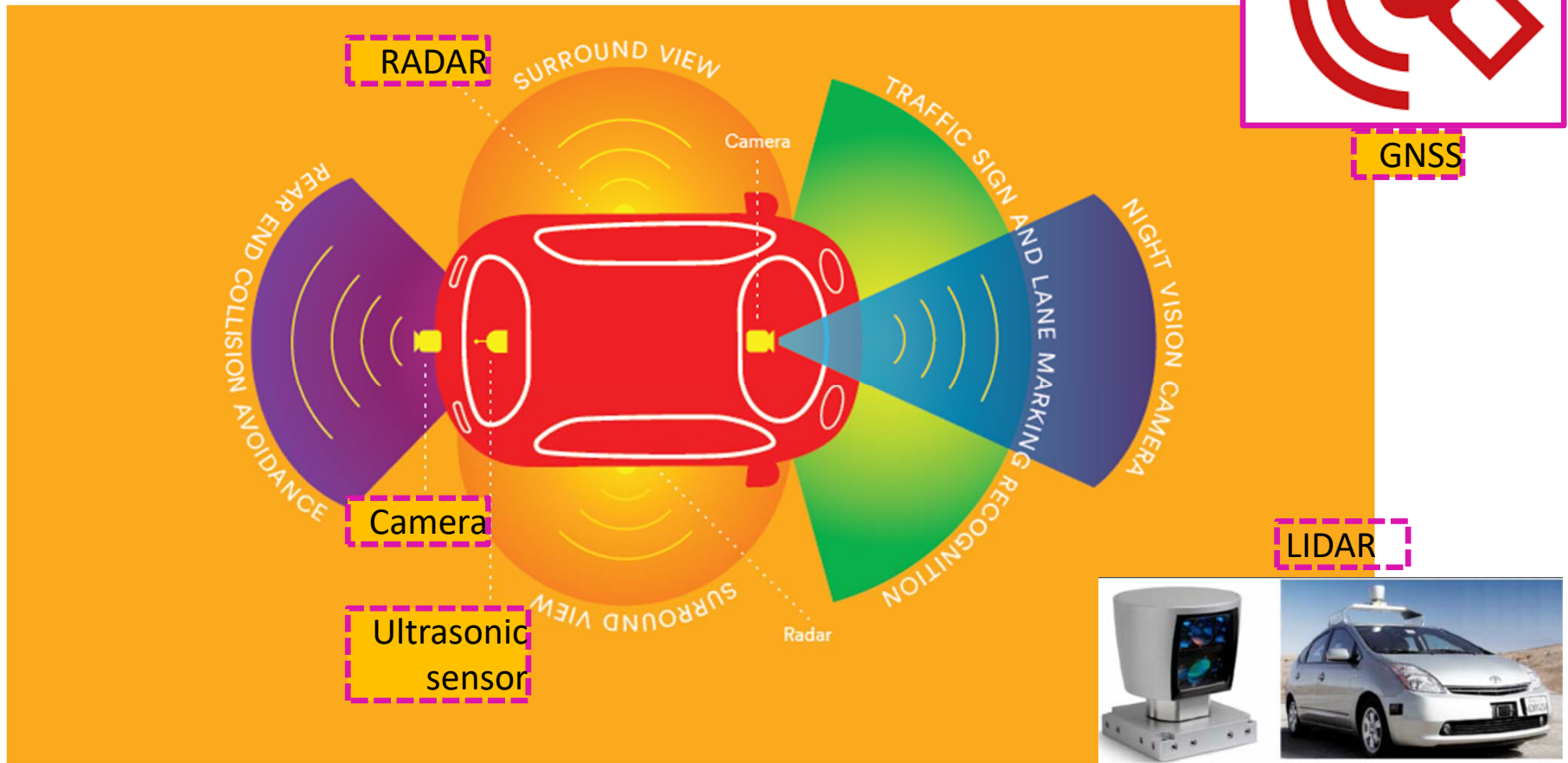
# Connected Automated Vehicles are the Future of Driving

Infrastructure will play a key role in autonomous driving advancement



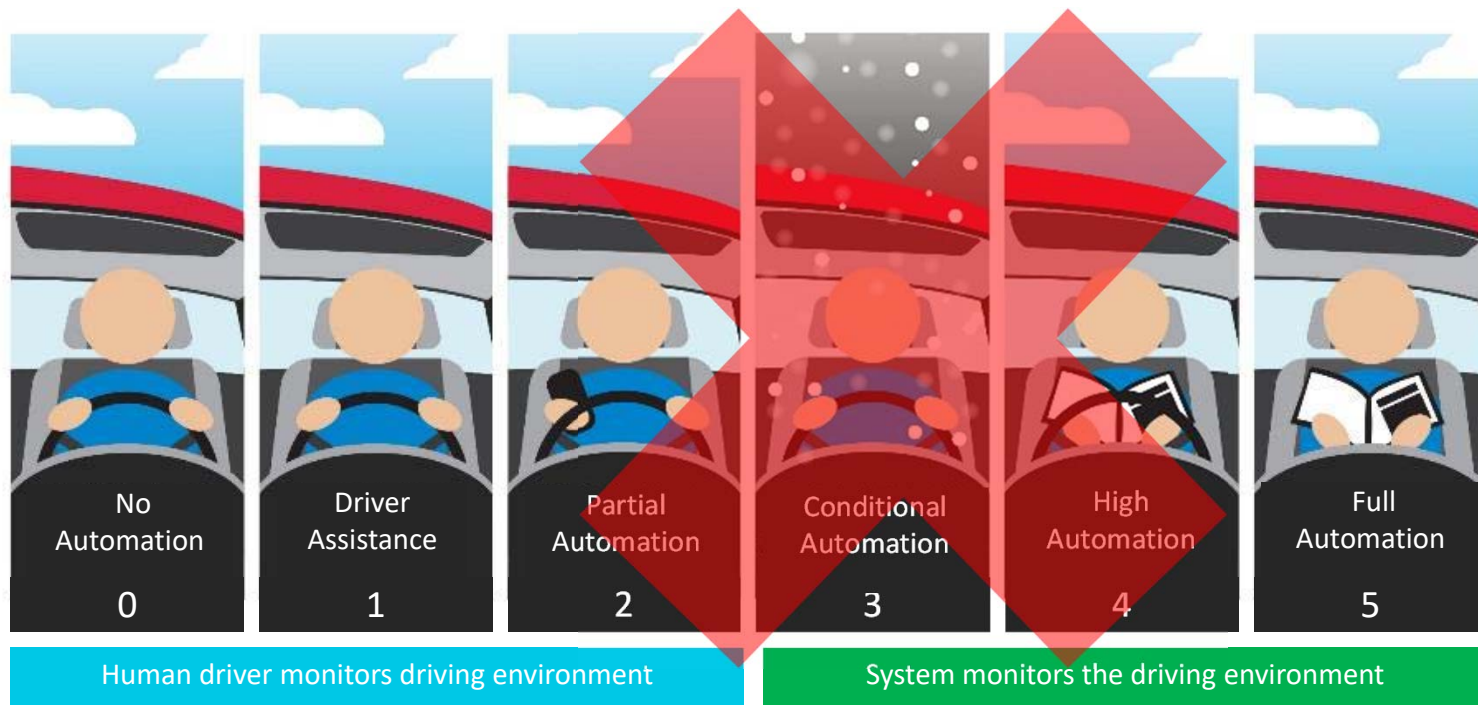
# Advanced Driver Assistance Systems (ADAS)

Sensory platforms have advanced to create increased safety



# SAE J3016 Levels of Automation

Society of Automotive Engineers (SAE) levels have become industry consensus



# What can we do today to enable automated vehicle safety?

Solutions to enable safety improvements for Automated vehicles

## Wet Reflective Optics

Optical Elements that provide visibility when wet



- Wet Reflectivity optics ***because you don't park your automated vehicle when it rains!***
- All weather reflective elements for true reflected color and high visibility.



# Machine Readable Traffic Signs



- Sign Authenticity
- Sign ID
- GNSS Coordinates
- Early Warnings
- Public Announcements

