

Local Perspectives on How to Prepare for an Unknown Future

August 3rd, 2021



Presentation Topics

- Local Road Research Board (LRRB)
- Association of Minnesota Counties (AMC)
- Minnesota County Engineers Association (MCEA)

- City Engineers Association of Minnesota (CEAM)
- North Central - Institute of Transportation Engineers (NCITE)

Local Road Research Board



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How Locals Need to Prepare for the Future of V2V/V2I Connected Vehicles

Preparing Local Agencies for the Future of Connected and Autonomous Vehicles

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August 2019
Research Report
Final Report 2019-35

MAY 2019
Research Project
Final Report 2019-18

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Preparing Local Agencies for the Future of Connected and Autonomous Vehicles

- Pavement Markings
- Signing
- Maintenance
- Consistency and Standardization
- Data Capture and Information Sharing and Inventory
- Communication Infrastructure

How Locals Need to Prepare for the Future of V2V / V2I Connected Vehicles

- Maintain Road Markings
- Maintain Clear Road Signs
- Modernize Roadway Design Information
- Modernize Controllers (Traffic Signal Controllers)
- Develop Communication Infrastructure if Possible
- Follow Guidance from USDOT, Local DOT

Upcoming Studies

- Autonomous Vehicles – What should local agencies expect?
 - What should local agencies do to prepare?
 - What should local agencies consider before saying “yes” to the CAV manufacturers?
 - What policies should be developed?
 - When reconstructing or adding traffic signage, are there things to incorporate that should be considered?
 - What should local agencies be aware of and/or how should you design/prepare your infrastructure to be able to adapt for CAV in the future (narrower lanes, signals, signage, etc.)?
 - How to keep in-the-know as new technology evolves?

Upcoming Studies

- Tool to estimate the safety impact of vehicle levels of automation on Minnesota Roads
 - Does Automation reduce crashes? How?
 - What factors influence the safety performance?
 - Age?
 - Weather?
 - Vehicle models?
 - What does this mean for road authorities?

With the rise of self driving vehicles, it's only a matter of time until there's a country song where the guy's truck leaves him



Questions?