NCTCOG & Automated Vehicles
AMPO Connected and Autonomous Vehicle Planning Technical Working Group
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Diminishing Returns for Region (2040)

Vehicle Miles Traveled (VMT): Up 55%
Highway capacity: Up 18%
Vehicle hours in delay: Up 136%
Government support: +$120 billion
Second largest household expense
Highway deaths: 15,000
Highway injuries: 1,000,000

6/9/2017
Automated Vehicle Program Goals

Safety
Efficiency
Capacity
Price
Equity
Economic development

AV Data Infrastructure: Traffic Signals

AV Data Infrastructure: Traffic Info.
AV Data Infrastructure: Regional Approach

Texas Automated Vehicle Proving Grounds

First North Texas Autonomous Vehicle Demo
Automated Vehicle Test Beds

1. UTA Campus & Environs - Low Speed

Automated Vehicle Test Beds

2. I-30 Corridor Including Managed Lanes - High Speed

Other Initiatives

5G City Test Platform
- National Science Foundation
- Focus on transportation/smart city applications

“Mover” system development
- Flexible freight/people mover
- Informed by JTA repurposing of Skyway system

Employment impacts from vehicle automation

Hyperloop

Support for shared mobility models
Funding (Proposed)

Test Beds
• Arlington/UTA: $350,000
• Second deployment in region: $250,000
• I-30/Managed lanes test bed: $1 million

AV Data Infrastructure
• Traffic signal data sharing: $250,000
• Traffic data sharing: $250,000

“Mover” prototype: $575,000

Planning/Modeling: AV Impact

University partnership program
• Center for Transportation Research
• Texas Southern

Literature review
Data sourcing
Discussion