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Autonomous Cars and the Future of
Transportation: Not a Horse and Buggy, but Not
Quite Starship Enterprise... Yet

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10:45AM – 11:45AM

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Autonomous Cars and the Future of Transportation: Not a Horse and Buggy, but Not Quite Starship Enterprise...Yet!



For More Information...

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Yellow Line: Paving the Road
Green Line: Policy and Legal Issues
Blue Line: Implementation Challenges
Orange Line: Navigating the Road Ahead



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Introductions





Perfect Innovation Storm

- Urban Living and Working
- Ridesharing
- Smart Transportation / Smart Cities
- Innovation and Investment
- "Millenials"
- Public-Private-Partnerships (P3's)

Emerging Trends

- Innovation and Technology
 - Driverless, Connected Vehicles and Drones (UAS)
 - Chief Innovation Officers?
- Increased Urban Populations
 - DOT Beyond Traffic 2045
 - Transit Oriented Development
 - "Ladders of Opportunity"
- "Innovative" Financing
 - aka "Creative"

FAST Act and Innovation

- Ongoing Challenge
 - Government Adoption of Technology
- Technology and Innovation Deployment Program
- Alternative Fuels Corridor
- University Transportation Centers Program
- Safety and Technology
 - Positive Train Control

Infrastructure Funding

- National Surface Transportation and Innovative Finance Bureau
- Freight, Freight, Freight - FASTLANE Grants
- BUT, NO Long-Term Federal Revenue Solution
 - More P3's?
 - More federal low interest loans?
 - More sales tax measures?
 - Vehicles Miles Traveled Fees?
- Efficient Use of Public \$\$\$
 - "Dig Once"
 - Smart Planning / Collaboration
 - Billion Dollar Projects?

On the Horizon

- Introduction to Policy and Legal Issues of Autonomous Vehicles
- Infrastructure and Implementation Challenges
- Practical Steps to Consider Now

Legal and Policy Issues

- Insurance / Liability
- Regulation?
 - New Autonomous Vehicles Code?
 - Preemption?
- Infrastructure?
 - Build-Out - New Roads?
 - Spectrum (Pokemon Go vs. V2V Communication)
- Less Municipal Revenues
- Privacy and Cybersecurity

Are we ready for this?



Public Safety

- Enforcement
 - Licensing / Certification?
 - Insurance?
- Who is "Driver"?
 - Computer vs. Human
- Driverless vs. Semi-Autonomous
- NHTSA Guidelines
 - Safe operation...but
 - Crosses "legal borders"

Potential Liability

- Insurance
 - Switch to Product Liability?
 - Liability Waiver?
 - Cyberinsurance?
- Street Design
 - Parking and Drop Off
 - ADA Access
 - Pedestrians and Bikes
- Connectivity? (V2V and V2I)
- Privacy and Cybersecurity
 - More Data More Problems...

Smart Planning

- General Plan Revisions
 - Autonomous Only Zones?
- Mobility Readiness Studies
 - Regional Collaboration
- Reduce Legal Ambiguities
 - Code Review and Revisions
 - Benefits?
- Technology analysis as part of future infrastructure projects?

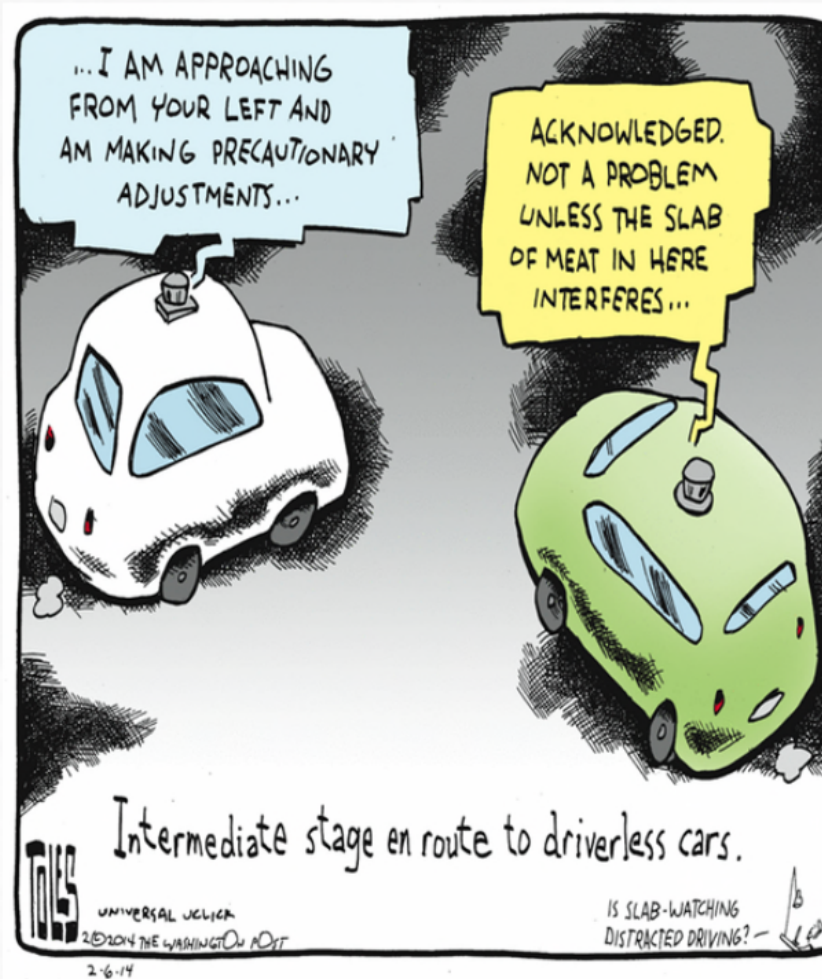
Infrastructure

- What will be needed?
 - Sensors and Transmitters?
 - Signs and Lane Markings?
 - DOT Smart City Challenge - Best Practices?
- What about spectrum?
 - Cars vs. Pokemon Go
- How to pay for it?
 - User taxes?
 - Tolling?
 - Franchises?

Preemption?

- NHTSA Guidelines and Model Policies
- Federal legislation
 - More authority to DOT?
 - New agency within DOT?
- State Autonomy vs. Operation Across State Lines

Human Behavior and Change



Opportunities from Challenges

- Transportation Partnerships
 - "First and Last Mile"
- Innovative Redevelopment
 - Testing Areas / Research
 - Pilot Projects / Grants
- Smart Cities and Connections
 - Increased mobility and affordable housing
 - TOD's

Consider This...

- The Future?
 - No car ownership in cities?
 - On Demand Mobility - One Stop App?
 - Less Roads and Congestion?
- "Innovation distinguishes between a leader and a follower" - Steve Jobs

Time is Right For...

- Smart Planning and Collaboration to Maximize Benefits
 - Safer Roads
 - Mobility for Seniors and Disabled
 - "Not all roses"
 - Likely job losses, safety concerns
- Steps to Consider:
 - Make your voice heard / Outreach
 - General Plan Updates
 - Review of Codes and Ordinances
 - Technology analysis with new infrastructure projects

Goals!



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