Primer on Federal Policies for Automated Vehicles

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@AVGregR
Preparing for AVs
This is not a race.

Self-Driving Cars Are Coming. Oregon Isn’t Ready.
While other states power forward, Oregon lawmakers struggle with how to handle the coming wave of self-driving vehicles.

Pizza Hut and Toyota want to deliver your pizza using driverless vehicles
Understanding FMVSS

• Federal Motor Vehicle Safety Standards (FMVSS) provide a uniform set of regulations on design, construction, and performance.
Federal Update - Legislation

Two Bills

- SELF DRIVE Act (H.R. 3388) passed the House unanimously
- AV START (S. 1885) currently stalled in Senate, but may move in next two months

One Philosophy

- Accelerate the safe development of AVs with a uniform federal regulatory framework
Federal Update - Legislation

Why now?

• Federal government has traditionally overseen motor vehicle safety by regulating *design, construction, and performance.*

• This will **NOT** usurp state/regional/local authority, nor does it create new federal preemption powers; it reinforces the roles of each level of government.

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Automated Driving Systems 2.0: A Vision for Safety (September 2017)

- Provides voluntary guidance for manufacturers
- Provides technical assistance to states

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Coming soon: “Automated Vehicles 3.0”

• Provides guidance for the actual integration of AV technology in all forms of on-road transportation

• Multi-agency document:
  – NHTSA: Regulation of motor vehicle design, construction, performance
  – FTA: Integration of AV tech in public transit
  – FMCSA: Adjusting regulatory framework for automated trucks
  – FHWA: Preparing highways for connected and automated vehicles
  – PHMSA: Evaluating regulatory challenges for using AVs to transport hazardous materials

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The Secret Sauce for AV Testing

- Local AV manufacturers
- Skilled workforce
- Climate
- Local universities
- Well-maintained roads
- Policy frameworks
Questions?

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