

Primer on Federal Policies for Automated Vehicles

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Preparing for AVs



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This is not a race.

WIRED

DMV Data Says Waymo and GM Are Leading the Self-Driving

Waymo Is Definitely Winning The Self-Driving Car Race

The autonomous car company says its vehicles have been getting around without backup drivers behind the wheel.

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 with driverless vehicles

Grace Schneider, Louisville Courier Journal Published 3:31 p.m. ET Jan. 12, 2018 | Updated 5:10 p.m. ET Jan. 12, 2018

FutureStructure

TRANSPORTATION

Ohio Tries to Pull Ahead in Transportation Tech Race



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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



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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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Federal Update - USDOT

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

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



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



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Questions?

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