



# AV PRINCIPLES

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**April 16, 2019**

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# About the NCMM



- National Technical assistance center
- Launched in early 2013
- Jointly operated by three national organizations:
  - Easterseals
  - American Public Transportation Association
  - Community Transportation Association of America
- Through a cooperative agreement with the Federal Transit Administration (FTA), U.S. DOT





*The mission of the National Center for Mobility Management (NCMM) is to facilitate communities to adopt transportation strategies and mobility options that empower people to live independently and advance health, economic vitality, self-sufficiency, and community.*

[www.nationalcenterformobilitymanagement.org](http://www.nationalcenterformobilitymanagement.org)

“There is a naïve view that AVs are in themselves beneficial. They can be beneficial only if we deliberately make them so.” Peter D. Norton

## **TRANSPORTATION SYSTEM: ACCESSIBLE? EQUITABLE?**

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**1<sup>st</sup> Class: People with transportation that is always available and problems do not cause major financial or other problems.**

**2<sup>nd</sup> Class: People with unreliable or inconvenient transportation. Problems cause major financial or other difficulties.**

**3<sup>rd</sup> Class: People with disabilities – NOT a monolithic group**

# WHO PAYS? WHO GETS QUALITY SERVICE?

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## All Transportation Is Subsidized

Sidewalks

Bikeshare, micromobility, and bike lanes

Privately owned vehicles on roads

Free or low-cost parking

Transit

Ridehailing and microtransit

Now – autonomous vehicles development, testing, pilots

## Traditional Federal vs. State Motor Vehicle Regulation

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- The federal government generally sets regulations, such as mandating safety equipment and testing crash-worthiness of new vehicles.
- States generally manage after-sale rules regarding registration, licensing, and safety inspection. States regulate insurance.

**BUT THE APPLE CART WILL BE UPSET:**

**AVs COMBINE THE DRIVER WITH THE VEHICLE**



# Layers of Government, Law, and Regulation

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Federal, state, and local governments each have their own laws, regulations, agencies, and political leaders.

Each level of government has its political culture and governance structure.

- Federal
  - FHWA, FTA, NHTSA
  - NTSB, FAA & FCC
- Less like alphabet soup than ...



# Federal Versus State Versus Local

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This slide is brought to you by the constitutional law word of the day:

***PREEMPTION***



## Advocacy/Lobbying

- Industry experiences at different levels of government
- State vs. federal
- Legislative bodies vs. regulatory agencies

# State Laws and Regulation

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50 states and territories, and local governments

Irrational system, but

**LABORATORIES OF DEMOCRACY!**



# AVs as Living Laboratories of Democracy

## Federal legislation

- Any federal law(s) will preempt state laws.
- NHTSA not regulating and lacks capacity and funding.

## State laws, governors' executive orders, regulation

- Platooning
- Study and pondering time
- Welcome mat is out
- Trust, but verify
- Yes, BUT our law really says no
- Uniform State Law draft and process

# AV Principles



## CTAA Principles of AV Transportation

- Accessibility
- Equity
- Rural Connectivity
- Safety



## Autonomous Vehicle Pilots - In Operation

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- **Contra Costa Transportation Authority and Bishop Ranch**
- **Florida: Babcock Ranch, Gainesville, Tampa, Orlando**
- **Texas: Arlington, Frisco, Houston**
- **Nevada: Las Vegas – ridehailing (and previous shuttle)**
- **University of Michigan**
- **Villages Golf and Country Club, retirement communities in San Jose, CA, and near Orlando, FL.**
- **PLUS testing on roads in Arizona, California, Massachusetts, Pittsburgh and Atlanta**
- **More are being proposed for USDOT AV demo grants.**

# Bloomberg Initiative on Cities and Autonomous Vehicles



# Rural Transportation Equity = Connectivity

## ARE WE GOING TO SEE RURAL AREAS LEFT BEHIND?

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### Unknown variables

Service models and population density?

Walkability and co-location?

### Business models

- Rural electrification during New Deal
- Private purchase of vehicles
- Local school bus
- Postal delivery





## **Transportation Equity = Accessible Vehicles and Interfaces**

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**Some good signs for older adults and people with disabilities:**

**Current secretary of transportation showing commitment.**

**Shuttles are physically accessible.**

**Some work on accessible interfaces.**

**Unknowns: Commitment and cost to serve people who need assistance.**

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