



***AMERICAN  
TRUCKING  
ASSOCIATIONS***

# State of the Trucking Industry

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# Research: Automated Vehicle Impacts

Top Issue	Key Autonomous Truck Benefit
Driver Shortage	Job more attractive with higher productivity, less time away from home, additional logistics tasks; fewer drivers may be needed.
Driver Retention	Companies with autonomous technology may attract and retain drivers.
Hours-of-Service	Allows for driver rest and productivity to occur simultaneously.
Truck Parking	If “productive rest” is taken in the cab during operations, less time will be required away from home at truck parking facilities and will reduce demand for truck parking capacity.
Infrastructure/ Congestion/ Funding	Urban congestion could be mitigated through widespread use of autonomous vehicles (including cars).
Driver Health and Wellness	Driver could be less sedentary; could reduce stress of driving.

**Identifying Autonomous Vehicle Technology Impacts on the Trucking Industry**

November 2016

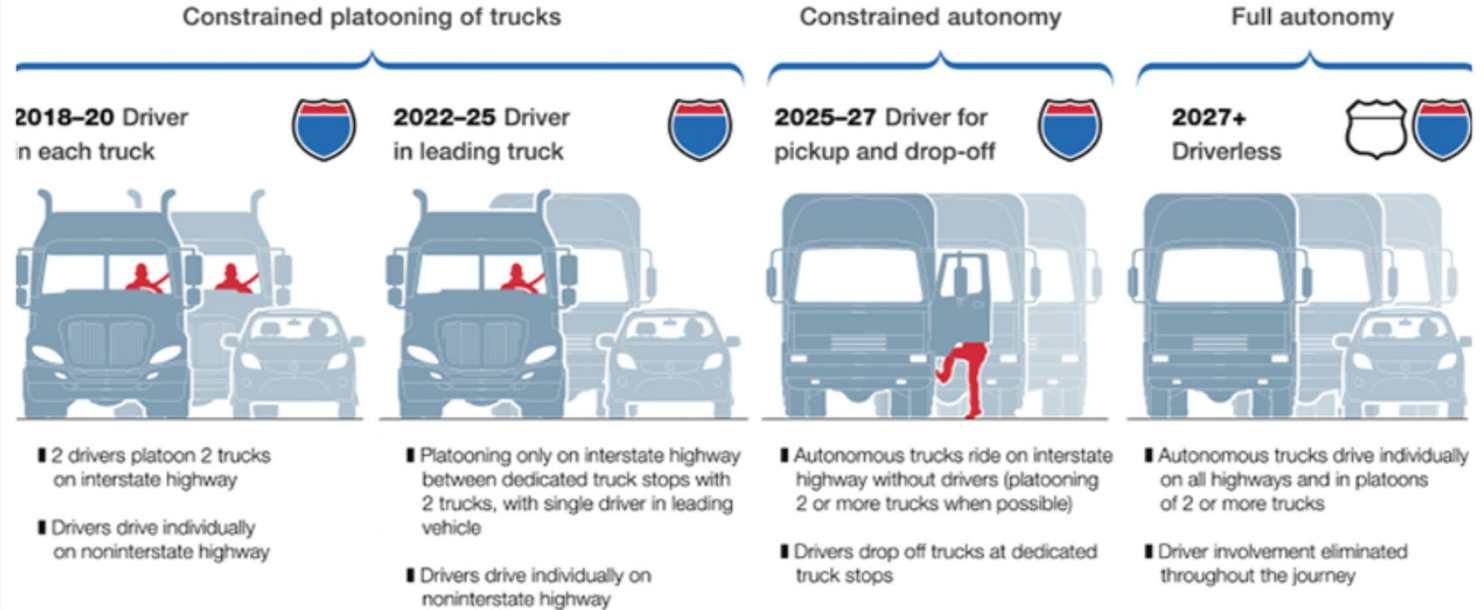


Prepared by the American Transportation Research Institute

**ATR** American Transportation Research Institute

# Evolution Not Revolution

Autonomous trucks will likely roll out in four waves.



# Coalition Building

- Automated Driving Policy Principles
  - Safety first approach
  - Preserve existing delineation of regulatory roles
  - Promote technology and stakeholder neutrality
  - Advance safe automated vehicle development, testing and deployment
  - Modernize motor vehicle safety regulations

# Policy Advocacy

## Ensure a Unified National Framework to Facilitate the Development, Testing, and Deployment of Automated Vehicles

- Commercial vehicles should be included in laws that govern transportation safety and national travel
- Bills and regulatory actions that are developed and introduced should not exclude commercial vehicles

## Support a National Standard for Surface Transportation Connected Vehicle Safety Communications and Deployment of Truck Platooning

- National V2V protocols and applications that ensure interoperability for all vehicles and road users
- Preserving the entire 5.9 GHz spectrum for vehicle safety communications
- Allow a national following distance exemption for vehicles in platoon

# Standard Setting and Best Practices

## TMC S.18 Automated and Electric Trucks

- **Truck Automation**
  - CVSA guidance, ASE guidance, vehicle spec'ing and maintaining
- **Truck Platooning**
  - how it works, how its used, how its maintained
- **Electric CMVs**
  - provide guidance on right sizing battery packs, battery chargers, electrical infrastructure for chargers, plus duty cycle analysis

# Questions?

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