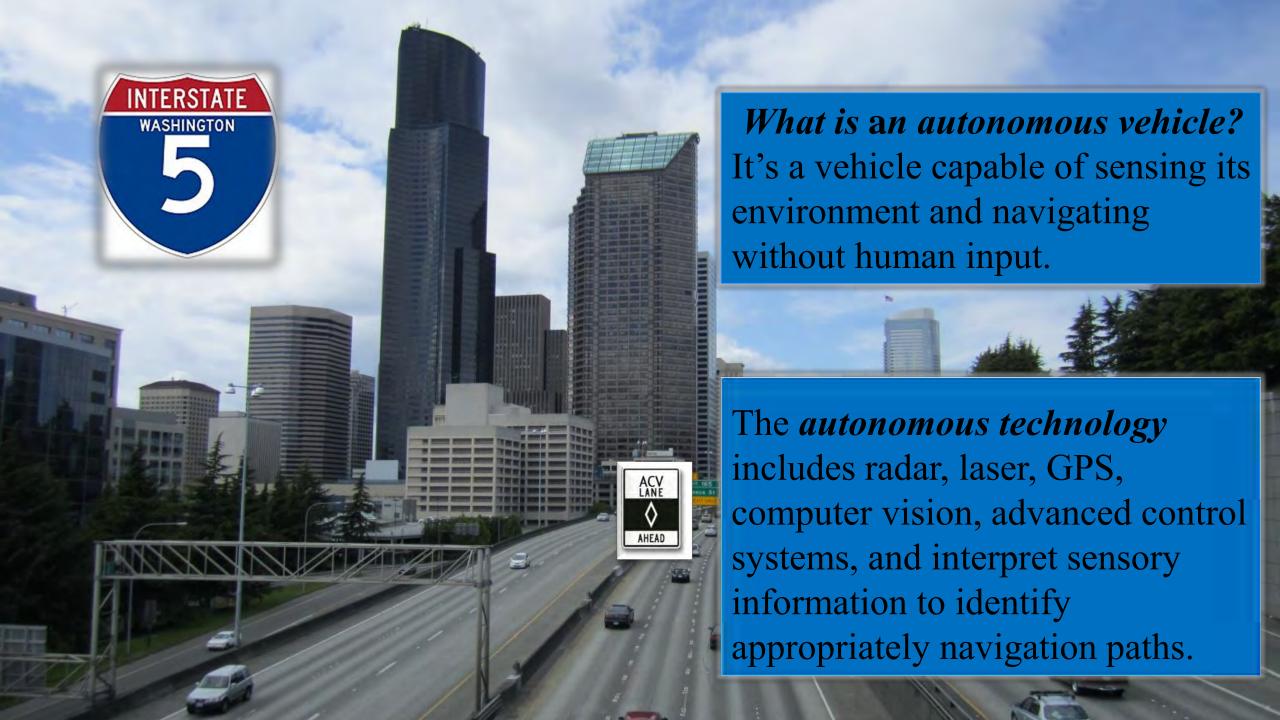


**SHB 2970** 

AV Executive Working Group

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Master of Jurisprudence
Candidate, 2018







# Level 4: High Automation

L4 ACV are able to detect if there is a system failure. ACV's can operate on their own devices without any human intervention, but the ability for the operator to take control of the truck remains.



Tractor 14-18 ft. | Longest length of a trailer: 53 ft. | Overall 75 ft. Truck weight with trailer: 80,000 lbs. | Maximum weight 105,500 lbs.

17 states allow platooning covering 45,000 miles 10% 50 to 60 ft. following distance

# Peloton

Connective technology that allows for breaking and acceleration.

Highway Infrastructure



#### **PLATOONING**

Combines technologies to improve fuel efficiency and safety.

- Radar and Lidar (Light detection and ranging) measures the distance to a target by illuminating the target with pulsed laser light and measuring the reflected pulses with a sensor.
- □ V2V (Vehicle to Vehicle Communication) is the wireless transmission of data between motor **vehicles**.

Transfer Hub and Teleoperation





## Operated and Controlled over the Cloud

- ✓ Battery level check
- ✓ What freight is loaded
- ✓ It's location; and
- ✓ Requirements of services

#### No Cab or Manual Controls

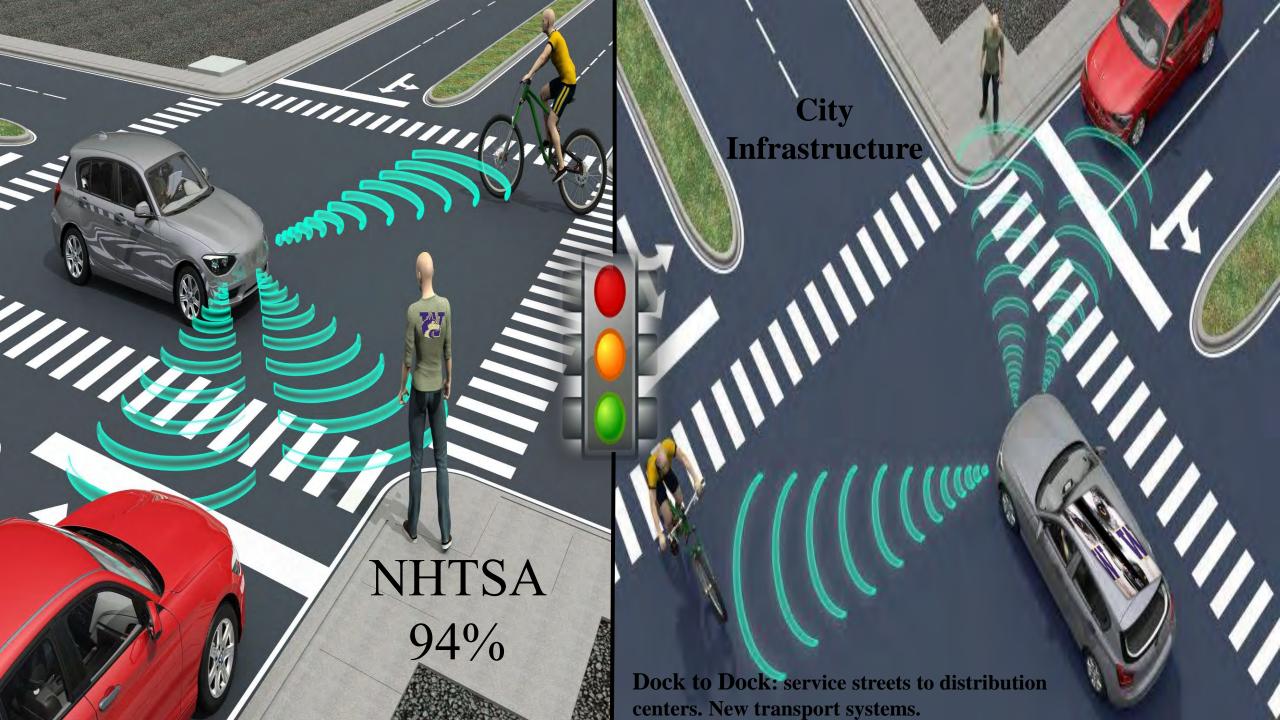




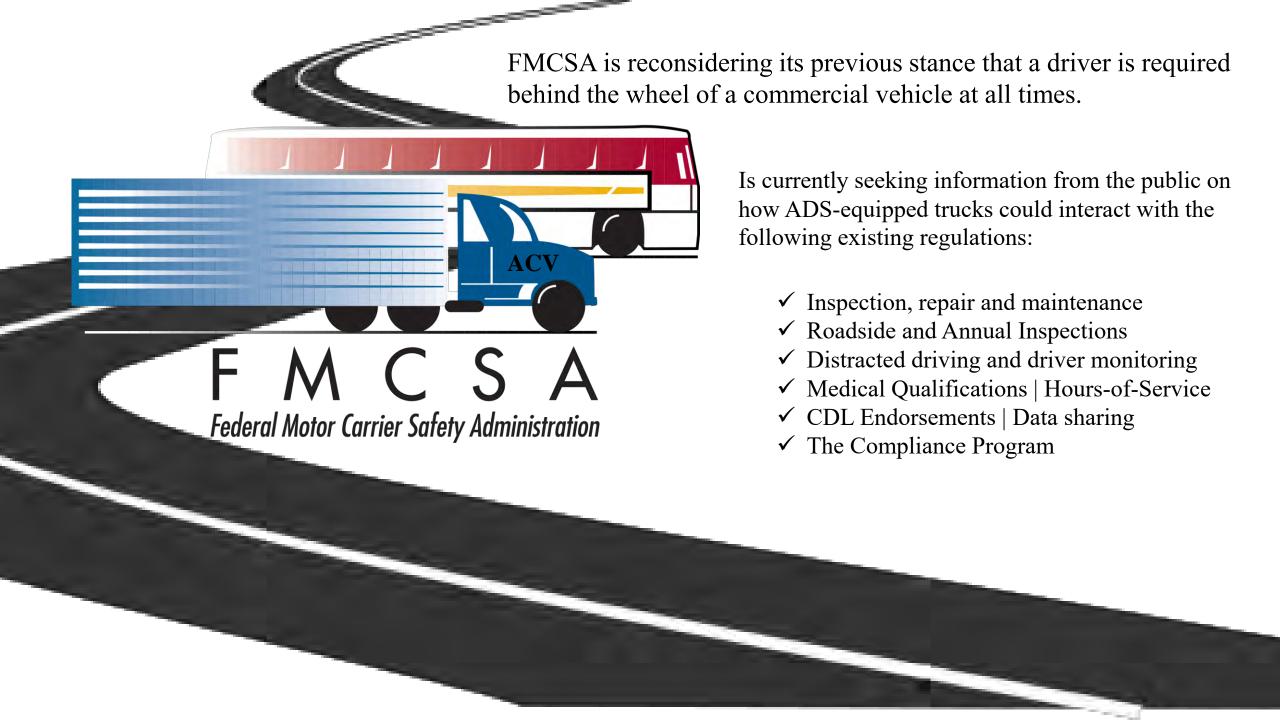
### **Logistics**

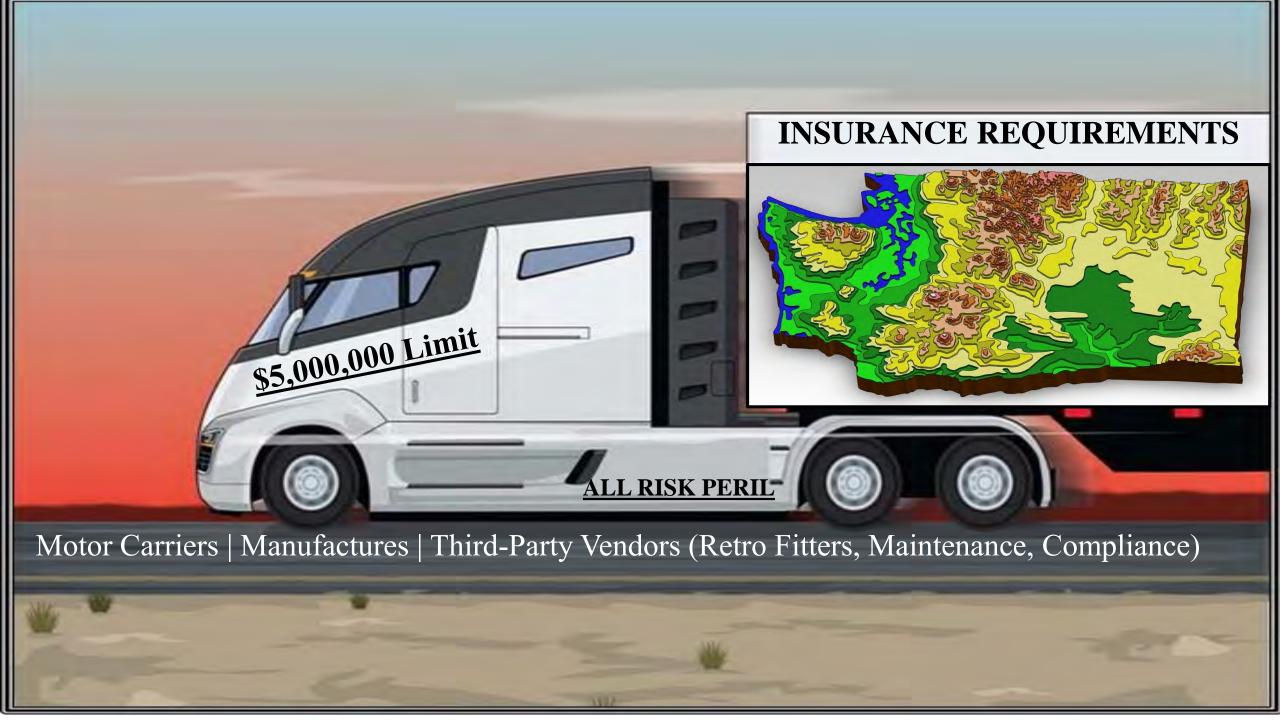
- ✓ Pull 32 tonnes | 70,547.924 pounds
- ✓ Self driven electric truck
- ✓ Trailers or load carriers
- ✓ Short and repetitive trips
- ✓ Staging and Storage Areas

Volvo's Vera will operate with "zero exhaust emissions" and low noise levels.











## Who can apply for Testing?

Authorized commercial motor carriers (for hire and private) cargo, passengers, household goods and solid waste collection companies.

Authorized motor carriers operated by the state, military and federal government.

Authorized manufactures of autonomous commercial vehicles.

Authorized third-party vendors who are licensed to perform maintenance, installation and compliance services.



**Step One:** Apply for operating authority:

✓ Business Information

✓ USDOT #

✓ Proof of Insurance

**Step Two:** Go through required testing, and meet or surpass ACV testing standards.

**Step Three:** Issuance of permission to test and or deployment.

