

THE ROADMAP FOR AV TRUCK DEPLOYMENT

1. Mapping

When an AV developer arrives in a new location, the company first conducts extensive mapping of the area in manual mode. The automated driving system (ADS) becomes familiar with the local traffic patterns, fellow road users, unique environmental factors, and more.

2. Community Engagement

AV truck developers engage deeply with local law enforcement, first responders and government officials, sharing interaction protocols and holding training sessions to explain how the tech works and how to engage with the truck fleet.

3. Test Safely Within the Operational Design Domain (ODD)

Following extensive technological development in simulations and on test tracks, AV trucks enter testing mode on public roads in their ODD with a vehicle operator onboard.

The Operational Design Domain (ODD) is the defined set of conditions in which an AV truck can operate. This includes (but is not limited to) geographic location, roadway types, speed range, environmental conditions (weather, time of day, etc.), and other constraints.

4. Deploy & Operate Safely Within the ODD

Once all steps have been completed safely and successfully, AV trucks shift to deployment, operating exclusively within the Operational Design Domain. AV companies continue their deep engagement with community leaders, law enforcement, and first responders.

