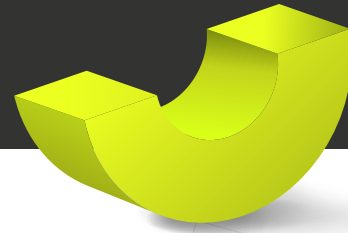


# AUTONOMOUS VEHICLES: CURRENT AND FUTURE REGULATORY CHALLENGES



## REGULATORY ISSUES

Example of U.S. regulatory efforts that have attracted many companies to develop testing of autonomous vehicles.

### CALIFORNIA REGULATION

#### . What do we need to do to test a self-driving car in California?

Apply for a permit to the department and submit a fee for the processing of the application. In addition, we must have previously participated in the Employer Pull Notice Program.

#### . What are the requirements to start a test?

Test vehicles in controlled conditions and rely on a driver capable of taking control of the car. If the manufacturer desires to conduct testing without a driver, it shall apply for a permit to conduct driverless testing.

#### . What do I need to report to the authorities during the testing phase?

Manufacturers shall provide a summary **(i)** of the number of vehicle test miles driven on public roads, test tracks, or other private roads; **(ii)** a description of testing methods used to validate the performance of the vehicles tested; **(iii)** the number of collisions originating from the operation of the autonomous test vehicles, with all the details of the incident.

There are regulatory challenges on several fronts when we talk about the marketing of autonomous vehicles.

#### Traffic laws:

Brazil still has several traffic laws that presuppose the existence of a human driver, who must always have control of the vehicle.

#### Administrative authorizations:

in California, autonomous vehicles cannot circulate on public roads without prior approval from the department. It is possible that other countries like Brazil request the same type of authorization.

#### Financial capacity:

in California, the manufacturer must also provide evidence of its financial ability to respond to damage caused by autonomous vehicles before putting them into circulation.

#### Responsibilities:

doubts about the civil liability of the party involved (manufacturers, suppliers, users, owners, among others) and possibly manufacturers will be responsible for safety requirements and upgrades of autonomous vehicles.

**Sources:** Testing of Autonomous Vehicles; Final Statement of Reasons, Autonomous Vehicles; Vehicle code; Autonomous Smart Vehicles and Civil Liability in Traffic Accidents in Brazil.

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