

Self-driving cars now need a permit in California

September 16 2014, by Justin Pritchard



In this May 14, 2014 file photo, a row of Google self-driving cars are shown outside the Computer History Museum in Mountain View, Calif. For the first time, California's Department of Motor Vehicles knows how many self-driving cars are traveling on the state's public roads. The agency is issuing permits, Tuesday, Sept. 16, 2014 that let three companies test 29 vehicles on highways and in neighborhoods. (AP Photo/Eric Risberg, File)

Computer-driven cars have been testing their skills on California roads for more than four years—but until now, the Department of Motor Vehicles wasn't sure just how many were rolling around.

That changed Tuesday, when the agency required self-driving cars to be registered and issued testing permits that let three companies dispatch 29 vehicles onto freeways and into neighborhoods—with a human behind the wheel in case the onboard equipment makes a bad decision.

These may be the cars of the future, but for now they represent a tiny fraction of California's approximately 32 million registered vehicles.

Google's souped-up Lexus SUVs are the biggest fleet, with 25 vehicles. Mercedes and the Volkswagen Group of America have two vehicles each, said Bernard Soriano, the DMV official overseeing the state's "autonomous vehicle" regulation-writing process. A "handful" of other companies are applying for permits, he said.

The permits formally regulate testing that already was underway. Google alone is closing in on 1 million miles. The technology giant has bet heavily on the vehicles, which navigate using sophisticated sensors and detailed maps.

Finally, government rules are catching up.

In 2012, the California Legislature directed the DMV to regulate the emerging technology. Rules that the agency first proposed in January went into effect Tuesday. Among them:

— Test drivers must have a sparkling driving record, complete a training regimen and enroll in a program that informs their employer if they get in an accident or are busted for driving under the influence off hours.



This undated image provided by Google, shows an early version of Google's prototype self-driving car. For the first time, California's Department of Motor Vehicles knows how many self-driving cars are traveling on the state's public roads. The agency is issuing permits, Tuesday, Sept. 16, 2014 that let three companies test 29 vehicles on highways and in neighborhoods. (AP Photo/Google, File)

— Companies must report to the state any accidents, as well as how many times their vehicles unexpectedly disengage from self-driving mode, whether due to a failure of the technology or because the human driver takes over in an emergency. They also must have insurance or other coverage to pay for property or personal injury claims of up to \$5 million.

California passed its law after Nevada and Florida and before Michigan. The federal government has not acted, and national regulations appear to be years away.

It's impossible to know the total number of self-driving cars being tested on public roads because, unlike California and Nevada, Michigan does not require special permits to test self-driving cars on public roads.

Toyota, Chrysler, Ford and General Motors are "all running around here with some form of autonomous vehicle," said James Fackler, assistant administrator for the Michigan Department of State, which registers motor vehicles. Carmakers do not need a permit—manufacturer's license plates are enough, and those plates can also be used on future models or other kinds of experimental cars.



In this May 13, 2014 photo, a Google self-driving car goes on a test drive near the Computer History Museum in Mountain View, Calif. For the first time, California's Department of Motor Vehicles knows how many self-driving cars are traveling on the state's public roads. The agency is issuing permits, Tuesday, Sept. 16, 2014 that let three companies test 29 vehicles on highways and in neighborhoods. (AP Photo/Eric Risberg, File)

Nevada has issued several test vehicle licenses to Google, VW and the auto supplier Continental, according to its Department of Motor Vehicles.

In Florida, only Audi has tested self-driving technology and no testing is ongoing, according to a spokesman for the state's motor vehicles department.



In this photo taken Sept. 25, 2012 file photo, from left, Gov. Jerry Brown, state Senator Alex Padilla and Google co-founder, Sergey Brin arrive at Google headquarters in a driverless car in Mountain View, Calif. For the first time, California's Department of Motor Vehicles knows how many self-driving cars are traveling on the state's public roads. The agency is issuing permits, Tuesday, Sept. 16, 2014 that let three companies test 29 vehicles on highways and in neighborhoods. (AP Photo/Eric Risberg, File)

With California's testing rules in effect, the DMV is drafting regulations

that will govern self-driving cars once they are ready for the general public.

Those rules, which the DMV must finish by year's end, will untie knotty issues such as whether a person needs to be in the vehicle at all.

© 2014 The Associated Press. All rights reserved.

Citation: Self-driving cars now need a permit in California (2014, September 16) retrieved 2 February 2023 from <https://phys.org/news/2014-09-self-driving-cars-california.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.