



**TESTIMONY BY:**

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**STATE OF HAWAII**  
**DEPARTMENT OF TRANSPORTATION**  
869 PUNCHBOWL STREET  
HONOLULU, HAWAII 96813-5097

June 30, 2020  
10:00 a.m.  
State Capitol, Auditorium



**H.B. 2590, H.D. 2, Proposed S.D. 2**  
**RELATING TO AUTONOMOUS VEHICLES.**

Senate Committee(s) on Ways and Means &  
Commerce, Consumer Protection and Health

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The Department of Transportation (DOT) **supports** H.B. 2590, H.D. 2, Proposed S.D. 2 which authorizes automated driving system equipped vehicles on public roads as we believe these types of vehicles will ultimately lead to reducing the severity and number of vehicle crashes, injuries, and fatalities on our roads, as well as reduce pollution levels.

The DOT understands the importance of testing the technology to ensure the public roads are as safe as possible through automated vehicle deployment. In support of this deployment the DOT is preparing roadways statewide through installation of advance transportation traffic signal controllers, establishing a cellular communication network, and utilizing vehicle to everything (V2X) technologies to provide the ability to communicate with automated driving systems. Communicating location data such as work zones, school zones, intersection signal timing and signal phasing, etc. will assist in navigating autonomous vehicles safely on our roadways.

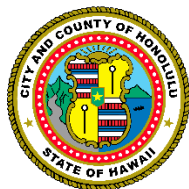
DOT is prepared to be the lead agency in setting rules or providing regulation of the testing and implementation.

Thank you for the opportunity to provide testimony.

DEPARTMENT OF TRANSPORTATION SERVICES  
CITY AND COUNTY OF HONOLULU

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TESTIMONY TO THE  
SENATE COMMITTEE ON COMMITTEE ON COMMERCE, CONSUMER  
PROTECTION, AND HEALTH (CPH) &  
SENATE COMMITTEE ON WAYS AND MEANS

JUNE 30, 2020  
10:00 AM

**IN SUPPORT OF  
HB 2590, HD 2, SD 1 – RELATING TO AUTONOMOUS VEHICLES**

Chair Baker, Chair Dela Cruz, and Members of the Committees:

The Department of Transportation Services supports this measure as it aligns with our vision of innovative autonomous transportation integrating with our multimodal public transit system.

The City and County of Honolulu is planning for a comprehensive system of first/last mile connections to the fully automated electric rail system and to expand access to job opportunities across Oahu. Our office is currently working to integrate low-speed autonomous shuttles into this network, and aims to serve certain rail stations with dedicated pathways for autonomous vehicles. This legislation supports our ongoing efforts.

Thank you for consideration of this measure and for the opportunity to provide this testimony.



**STATE OF HAWAII**  
STATE COUNCIL  
ON DEVELOPMENTAL DISABILITIES  
1010 RICHARDS STREET, Room 122  
HONOLULU, HAWAII 96813  
TELEPHONE: (808) 586-8100 FAX: (808) 586-7543  
June 30, 2020

The Honorable Senator Baker, Chair  
Senate Committee on Commerce, Consumer Protection, and Health  
The Honorable Senator Dela Cruz, Chair  
Senate Committee on Ways and Means  
State Capitol  
State of Hawai'i  
Honolulu, Hawai'i 96813

Dear Senator Baker, Dela Cruz and Committee Members:

SUBJECT: HB 2590 HD2 SD1 – Relating to Autonomous Vehicles

The Hawaii State Council on Developmental Disabilities **STRONGLY SUPPORTS HB 2590 HD2 SD1** to establish a two-year autonomous vehicles testing pilot program.

Self-driving cars could revolutionize how people with disabilities get around their communities and even travel far from home. There are people who can't see well or have physical and mental difficulties that prevent them from driving safely or rely on others or local governments or nonprofit agencies to help them get around. Autonomous vehicles could be the answer. They present fundamentally new ways to think about transportation and accessibility, having the potential to change neighborhoods and individuals lives—including people with disabilities, who are often both literally and figuratively left behind. With proper planning and research, autonomous vehicles can provide more people with significant independence in their lives.

Self-driving cars could allow as many as 2 million people with disabilities to work! This was quoted in an article in Auto Trader magazine. Currently, the unemployment rate for people with disabilities is at a low of 70%. When people with disabilities have been surveyed about their employment situation the number one reason as to why they can't get employed or stay employed is transportation.

Self-driving cars could be the major disruptor in transportation for people with disabilities. This would give the disability community another viable option. Currently, the on-demand transportation network companies are not accessible, such as your Uber and Lyft companies. The disability community welcomes this opportunity for an autonomous vehicle pilot in Hawaii. As we go down this road in this new venture, we must continually include people with disabilities and the aging community, in these pilot programs to ensure full accessibility for everyone.

Thank you for the opportunity to submit testimony **strongly supporting HB2590 HD2 SD1**.

Sincerely,

Daintry Bartoldus  
Executive Administrator



**SanHi**

GOVERNMENT STRATEGIES

A LIMITED LIABILITY LAW PARTNERSHIP

DATE: June 29, 2020

TO: Senator Roz Baker  
Chair, Committee on Commerce, Consumer Protection and Health

Senator Donovan Dela Cruz  
Chair, Committee on Ways and Means

*Submitted Via Capitol Website*

FROM: Tiffany Yajima

RE: **H.B. 2590, H.D.2, S.D.1 – Relating to Autonomous Vehicles**  
**Hearing Date: Tuesday, June 30, 2020 at 10:00a.m.**  
**Conference Room: Auditorium**

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Dear Chair Baker, Chair Dela Cruz, and Members of the Joint Committees:

On behalf of the Alliance for Automotive Innovation (“Alliance”) we submit this testimony on H.B. 2590, H.D.2, S.D.1 and the proposed S.D.2, which establishes an autonomous vehicle testing pilot program under the Department of Transportation.

The Alliance for Automotive Innovation is the singular, authoritative and respected voice of the automotive industry. Focused on creating a safe and transformative path for sustainable industry growth, the Alliance for Automotive Innovation represents the manufacturers producing nearly 99 percent of cars and light trucks sold in the U.S. Members include motor vehicle manufacturers, original equipment suppliers, technology, and other automotive-related companies and trade associations.

The Alliance supports the testing and deployment of autonomous vehicles in Hawaii and appreciates the amendments made in the prior committee.

Over many decades, the auto industry has steadily evolved vehicle technologies toward a future when cars will be fully self-driving. Technological advancements continue to improve, and many companies are developing vehicles with higher levels of driving automation. Highly automated vehicles promise to improve road safety while saving consumers time and money. Such systems may also dramatically expand mobility and facilitate better land use in urban settings.

Vehicles on our roads today are more advanced than ever and feature extraordinary capabilities with the primary goal of passenger safety and saving lives. Many driver-assist features are available right now — from automated braking to adaptive cruise control to lane-keeping cameras — and are technologies that bring us closer to the

reality of self-driving vehicles. According to the U.S. Department of Transportation, more than 37,000 lives were lost on U.S. roadways by the end of 2017, with human error accounting for more than 94 percent of these fatalities. These fatalities underscore the importance for motor vehicle manufacturers to deliver life-saving automated vehicle technologies.

The Alliance looks forward to the opportunity to work with the legislature and the administration on autonomous vehicle issues to safely move forward with the testing and ultimate deployment of these vehicles in Hawaii. Thank you for the opportunity to submit this testimony.



John Uekawa, President  
Dave Rolf, Executive Director

HADA Testimony in STRONG SUPPORT  
of HB2590, HD2, SD1, Proposed SD2  
RELATING TO AUTONOMOUS VEHICLES

Presented to the Senate Committee on Commerce, Consumer Protection  
and Health and the Senate Committee Ways and Means

for the Hearing 10 a.m., Tuesday, June 30, 2020 in State Capitol Auditorium  
Hawaii State Capitol

by David H. Rolf for the members of the Hawaii Automobile Dealers  
Association, *Hawaii's franchised new car dealers, who provide sales,  
warranty work and other factory-certified maintenance service for Hawaii's  
privately-owned and fleet-owned cars and light trucks*

Chairs Baker and Dela Cruz, Vice chairs Chang and Keith-Agaran and  
members of the committees:

HADA dealers are in strong support of HB2590, HD2, SD1, Proposed SD2,  
which establishes within the Hawaii Department of Transportation an  
autonomous vehicles testing pilot program and requires a report to the  
legislature.

The State of Hawaii with its optimal conditions for testing connected  
autonomous vehicles (CAVs), has extended an invitation to motor vehicle  
manufacturers and technology companies from around the world, through  
Governor's Executive Order 17-07—signaling that the Aloha State is open for  
business for testing and deploying the new driverless vehicle technology.

The Governor's Executive Order states that, "today there is something akin to a  
space race to see who will develop driverless vehicles and advanced wireless

technologies--both of which have the power to influence the future outcomes for the daily lives of all Americans.”

The Governor’s Executive Order goes on to state that “Hawaii, with its unique, favorable conditions, offers an ideal locale for testing...(and) autonomous driving technology offers the possibilities of personal transportation that can be safer and more efficient in saving time and mitigating traffic.”

This past year, HADA members and other stakeholders participated in the Autonomous Vehicle Legal Preparation Task Force formed by 2019’s HCR 220 HD1 SD1 which resulted in a 92-page preliminary report of its findings submitted to the Legislature on December 1, 2019.

HADA was one of the founding members of the Hawaii Autonomous Vehicle Institute and the association has been actively pursuing ways to support Governor David Ige’s Executive Order relating to the driverless car introduction in Hawaii.

HADA feels it important to attract the support of the world’s major auto manufacturers, who are spending billions of dollars for the testing and development of driverless cars.

Indeed, in the past, with HADA dealers’ encouragement, international auto manufacturers have made Hawaii one of their first roll-out markets for new automotive technologies.

HADA members support an open environment for autonomous vehicle testing that encourages all forms of AV technology and all forms of vehicle powertrain propulsion for these autonomous vehicles.

HADA dealers feel that HB2590, HD2, SD1, proposed SD2 is a measure that will encourage international auto manufacturers to favorably consider Hawaii for the testing and deployment of their new technologies.

Demonstrating safe performance requires a large amount of on-road testing. For AVs to be accepted for general use, they must perform better than a good human driver.



This measure provides an opportunity for that testing and requires that a conventional human driver shall be present in the vehicle at all times to intervene, supervise or prevent a collision or other issues during testing.

HADA respectfully requests that the committees pass the measure and send it forward for favorable consideration.

Respectfully submitted,

David H. Rolf

For the members of the Hawaii Automobile Dealers Association

**HADA**  
**Making Hawaii Better Together**



**LATE**

Email: [communications@ulupono.com](mailto:communications@ulupono.com)

SENATE COMMITTEES ON COMMERCE, CONSUMER PROTECTION, & HEALTH AND WAYS  
& MEANS

Tuesday, June 30, 2020 — 10:00 a.m. — Auditorium

### **Ulupono Initiative supports the intent of HB 2590 HD 2, Relating to Autonomous Vehicles**

Dear Chair Baker, Chair Dela Cruz and Members of the Committees:

My name is Amy Hennessey, and I am the Senior Vice President of Communications & External Affairs at Ulupono Initiative. We are a Hawai'i-based impact investment firm that strives to improve our community's quality of life by creating more locally produced food; increasing affordable clean, renewable energy and transportation options; and better managing freshwater and waste resources.

**Ulupono supports the intent of HB 2590 HD 2 Proposed SD 2 and offers comments on the bill**, which establishes within DOT an autonomous vehicles (AV) testing pilot program.

AV benefits will not necessarily accrue on their own but require community conversations on not just what AV may provide but should. The Transportation Research Board, one of our national academies of science, outlines two broad ends of the spectrum for the impacts of AVs:

- 1) Successfully deploying a combination of automated vehicles, shared mobility systems, and electric/zero-emission vehicles could reduce energy consumption and related emissions by 60 percent over the next 30 years with other benefits in safety and greater access to opportunity for non-drivers.
- 2) Conversely, a combination of automated vehicles, zero-occupancy vehicles, increased vehicle miles traveled, access for new user groups, and continued reliance on fossil fuels could increase energy consumption and related emissions by up to 200 percent over this same time period.<sup>1</sup>

<sup>1</sup> <http://onlinepubs.trb.org/onlinepubs/circulars/ec236.pdf>

As mentioned in the Environment and Energy section of the [Preliminary Report of the Hawai'i Autonomous Vehicles Legal Preparation Task Force](#), creating a mechanism for AVs' legality, although necessary, is not sufficient to ensure congestion reduction, energy efficiency, or even improved accessibility for those currently underserved by our transportation system.

More broadly, we believe any AV legislation should work to align with the State's broader goals by promoting a more accessible, automated, connected, electric, and shared (A2CES) mobility future that promotes equity, the environment, and economic opportunity for all in Hawai'i. As such, we recommend that the bill requires the DOT to require performance measures to assess pilots, such as reducing congestion, increasing safety and accessibility, and utilizing clean energy. These pilots should actively involve community engagement to ensure that the performance measures align with the local and broader state goals. For committee members' reference, our 2020 report, "Framework for Hawaii's AV Future," which outlines strategies that would help Hawai'i chart its own course, is available at [ulupono.com](https://cutt.ly/a2ces) or directly from this URL: <https://cutt.ly/a2ces>.

More broadly, we believe any AV legislation should work to align with the State's broader goals around accessibility, energy and the natural environment. AVs therefore represent the chance to create a more accessible, automated, connected, electric, and shared (A2CES) mobility future that promotes equity, the environment, and economic opportunity for all in Hawaii. As such, we recommend that the bill requires the DOT to require performance measures to assess pilots, such as reducing congestion, increasing safety and accessibility, and utilizing clean energy. These pilots should actively involve community engagement to ensure that the performance measures align with the local and broader state goals.

We would like to note that current AV testing pilot efforts, such as the work of the City and County of Honolulu's Department of Transportation Services, exist outside of this measure and it is vital to allow those projects to move forward for Hawai'i's AV future.

We look forward to working with our larger community to help realize the benefits of AVs – leveraging the innovations of AVs for a stronger, more resilient Hawai'i.

Thank you for this opportunity to testify.

Respectfully,

Amy Hennessey, APR  
Senior Vice President, Communications & External Affairs

**HB-2590-SD-1**

Submitted on: 6/28/2020 2:49:33 PM

Testimony for CPH on 6/30/2020 10:00:00 AM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Gerard Silva	Individual	Oppose	No

Comments:

Not Fesable for Hawaii. Any vehical with a lithienion battery is deathrament to the Enviroment. There is no way to dispose of these battery's with out the cost being more then the price to purchase one of these Vehical's.

Ant Battery operated Vehical should be Banned from Hawaii if you do not ban them then We Will Know that you do not Care about the People! You just care about your poket Book.

Aloha