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FLORIDA AUTOMATED VEHICLES

DEFINING THE FUTURE OF MOBILITY



State of the Federal Regulatory Environment for Autonomous Vehicles

September 2023

Ariel Wolf

Chair, Autonomous and Connected Mobility | +1 202.344.4013 |
awolf@Venable.com

VENABLE LLP

What is the AV “Federal Regulatory Environment”?



Federal AV Legislation

Raise the Exemption
Cap

Expand Testing



“Make Inoperative”

Preserve Federal
and State Roles

VENABLE_{LLP}



SELF Drive Act of 2017 (H.R. 3388) –
Introduced by Rep. Bob Latta (R-OH)

HB


115TH CONGRESS
1ST SESSION

H. R. 3388

IN THE SENATE OF THE UNITED STATES

SEPTEMBER 7, 2017

Received; read twice and referred to the Committee on Commerce, Science,
and Transportation



ACT

To amend the United States Code, regarding the author-
ity of the National Highway Traffic Safety Administra-
tion to regulate highly automated vehicles, to provide safety
standards, and for other purposes.

Senate and House of Representa-
tives of America in Congress assembled,



AV START Act of 2017 (S. 1885) –
Introduced by Senator John Thune (R-
SD)

II


Calendar No. 268

115TH CONGRESS
1ST SESSION

S. 1885

[Report No. 115-187]

To support the development of highly automated vehicle safety technologies,
and for other purposes.



IN THE SENATE OF THE UNITED STATES

SEPTEMBER 28, 2017

Mr. THUNE (for Mr. BLUNT, and Ms. STABENOW) in-
troduced the bill, which was read twice and referred to the Com-
mittee on Commerce and Transportation

SEPTEMBER 28, 2017

REPORTED BY SENATOR THUNE, JUNE, with an amendment

(House and insert the part printed in italics)

- *Liability.* Trial attorneys previously sought to insert language to prohibit pre-dispute arbitration for AV road incidents and to preserve state legislative and common law claims.
- *Labor.* Some lawmakers have expressed concern about potential workforce displacement in the trucking industry. Previously introduced AV legislation did not apply to vehicles over 10,000 pounds.
- *Privacy.* State and federal policy-makers have questions about data collection in AVs – what data is being collected, for what purpose, and through what means – as well as who has control over individual and consumer data once collected.
- *Grab-bag.* Lawmakers have raised other issues such cybersecurity, ADAS, sensor bias, etc.



NDA

**NATIONAL DEFENSE
AUTHORIZATION ACT**

Prospects for Legislation in 2023?

Congressional Committees

House Energy and Commerce



Senate Commerce, Science, and Transportation



House Transportation and Infrastructure



Federal Regulatory Agencies

National Highway Traffic Safety Administration



- Standing General Order on Crash Reporting for ADAS Level 2 and ADS (“SGO”)
- ADS-equipped Vehicle Safety, Transparency and Evaluation Program (“AV STEP”)
- Federal Motor Vehicle Safety Standards (“FMVSS”), “removing barriers”

Federal Motor Carrier Safety Administration



- Parts and Accessories Necessary for Safe Operation; Exemption Application
Docket No. FMCSA-2023-0071
- Safe Integration of Automated Driving Systems (ADS)-Equipped Commercial Motor Vehicles (CMVs)

What's Next in 2024





Questions?



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Power of the Platform:

*Uber's vision for a safe, efficient,
and delightful hybrid network*

Florida Autonomous Vehicle
(FAV) Summit

September 2023

Richard Willder
Global Head of Regulatory
and Autonomous Policy

Uber

***A hybrid network* seamlessly combines human-driven and autonomous transportation**

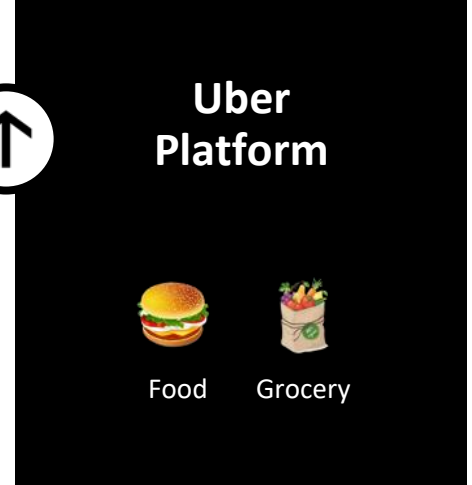
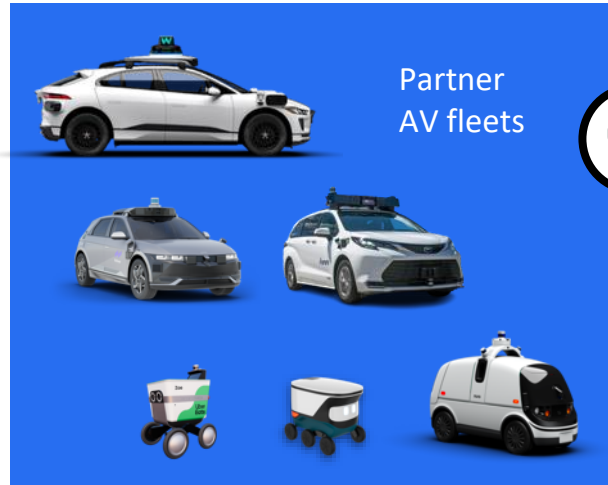
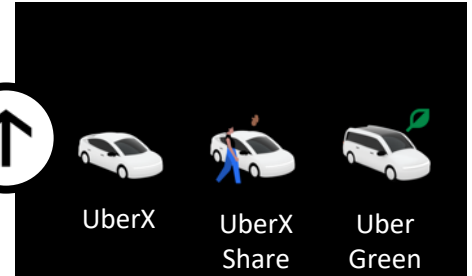
Uber's hybrid network seeks to match only *opportune* AV trips

Uber's Autonomous Mobility & Delivery Partnerships

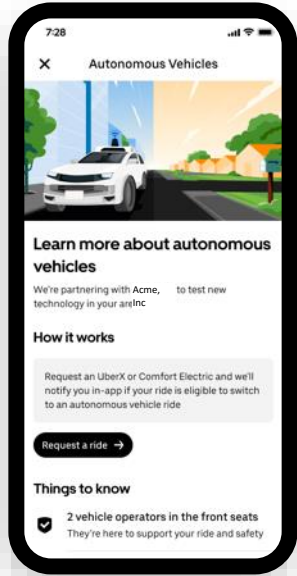
Live now in Los Angeles, Las Vegas, Mountain View, Miami, Fairfax -- and soon in Phoenix

Key principles of our partnerships:

- Introducing autonomous technology where and when it's best suited
- Valuing the safety of everyone on the road
- Respecting customers' rights to security and privacy



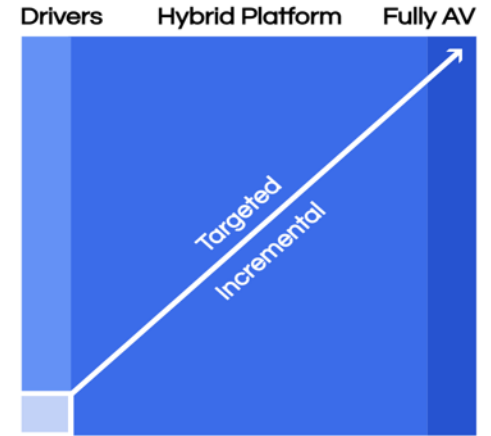
Benefits to AV deployment via hybrid network



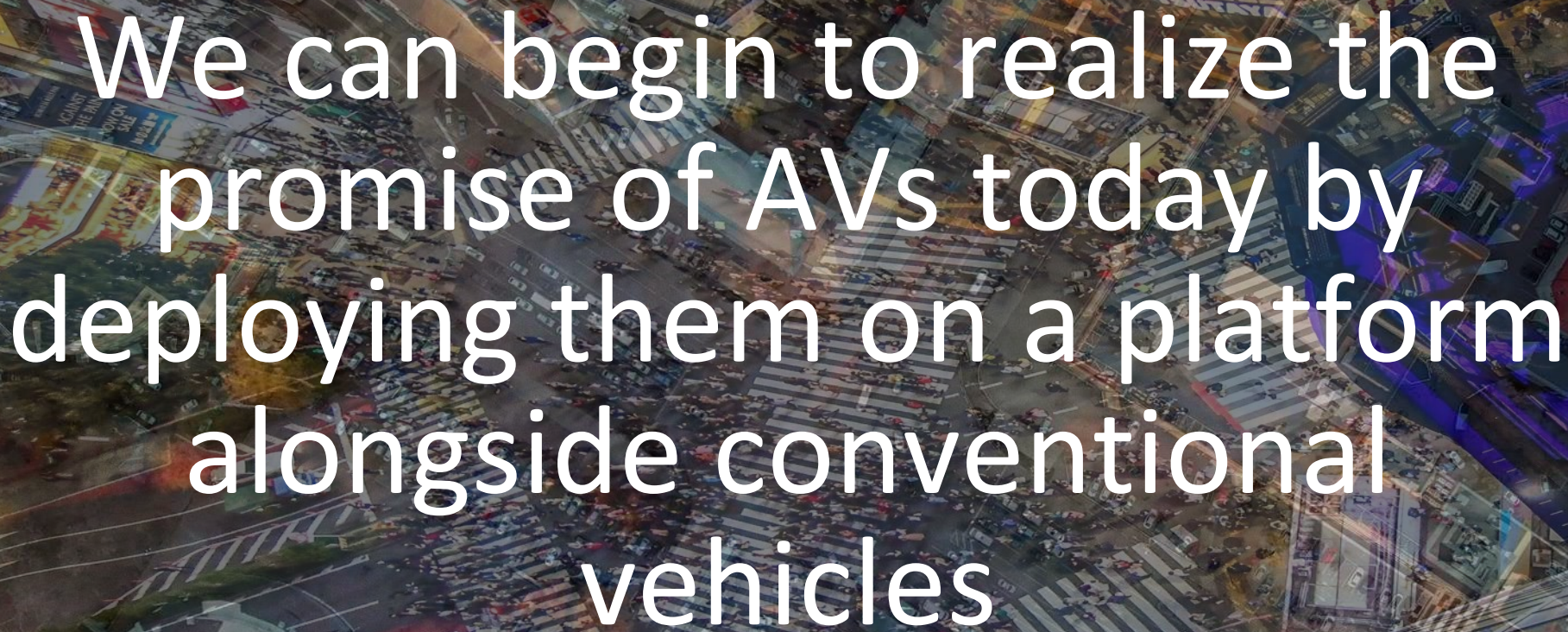
Consumer Education



Favorable Experiences



Incremental Scaling

An aerial, high-angle photograph of a dense urban street intersection. The street is filled with cars, creating a colorful mosaic of red, blue, and grey. Pedestrian crosswalks with white stripes are visible across the road. Buildings and structures are visible in the background, and the overall scene conveys a sense of a busy, modern city. A large, semi-transparent white text overlay is centered on the image.

We can begin to realize the
promise of AVs today by
deploying them on a platform
alongside conventional
vehicles

AVs + Uber unlocks more & broader value



Ride Together

Uber's existing platform can optimize the matching of shared rides and streamline transit connections to reduce the number of solo AV trips in a city



Opportunity for All

AVs operating in discrete areas can have positive effects beyond their operating domain, including for traditionally underserved areas and populations, if part of a broader system



Safety Progress

Mature AVs can offer greatest benefit to roadway safety by getting people out of personal cars, not out of buses, trains or conventional rideshare

Uber

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FLORIDA AUTOMATED VEHICLES

DEFINING THE FUTURE OF MOBILITY

Gregory Crandell
General Manager - USA



THE TRANSFORMATION OF MOBILITY



HOLON with exceptional product features like no other in the market

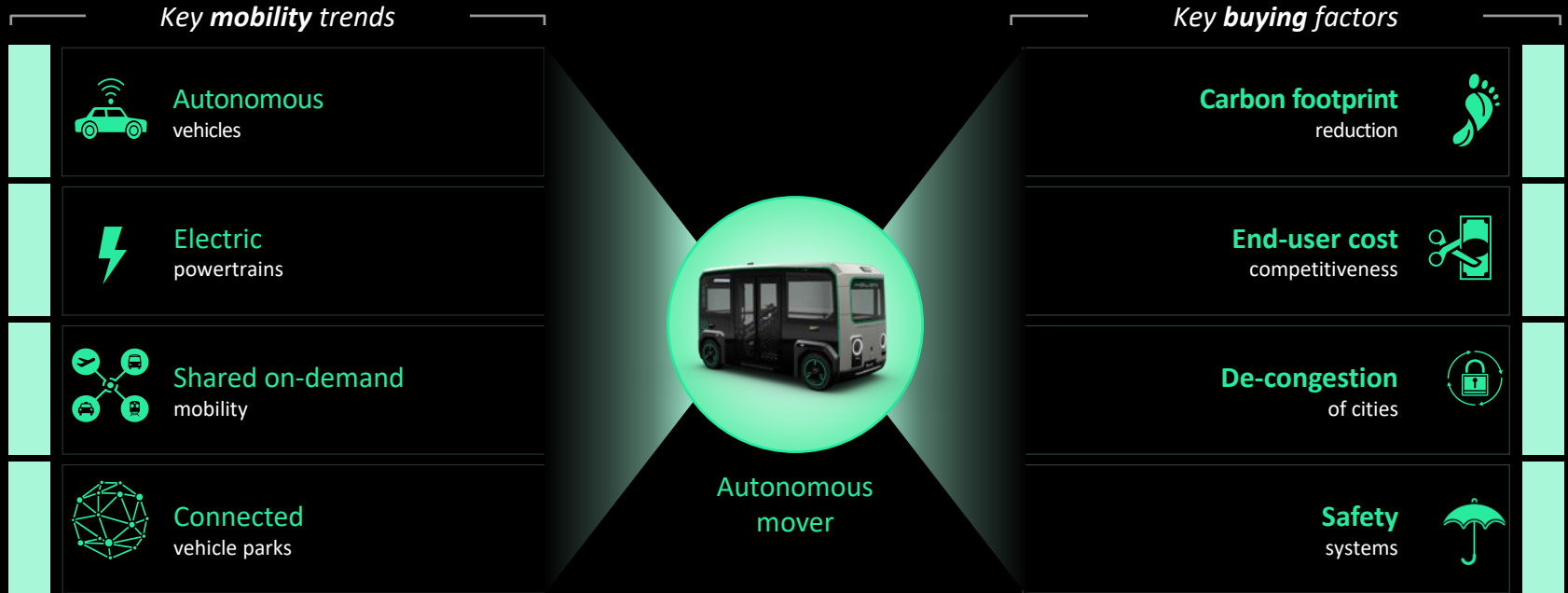
HOLON MOVER IS BEST-IN-CLASS PRODUCT



- World class **SDS** from **Mobileye**
- **Long range** & industry leading speed
- **Iconic design** by **Pininfarina**
- Inclusive and **state-of-the-art features**
- **Open hardware** interfaces
- **Surrounding panorama** windows
- **System integrator** with flexibility in partner selection

Autonomous mover at the intersection of major mobility trends and buyer interests

A KEY CORNERSTONE FOR TOMORROW'S URBAN MOBILITY CONCEPTS



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Florida Automated Vehicle Summit

The Future of AV Innovation and Leadership

Deana Haynes, Director, Commercial Real Estate

September 2023

About ChargePoint

- + **Vertically integrated** software, hardware and services
- + **Comprehensive solutions** for every charging use case, parking scenario and vehicle type
- + **Advanced features** including energy management, pricing policies, access control, driver services and more
- + **172 million charges** delivered (and counting)
- + **150+ patents** across all aspects of EV charging



7x

more market share (at more than 70%) in networked level 2 charging than the closest competitor in North America

5K

commercial and fleet customers worldwide and growing, including 80% of Fortune 50 companies

15+

years in business. Years before you could buy a mass market EV, ChargePoint gave birth to a new way of fueling.

>225K

places to charge on the ChargePoint network in North America and Europe

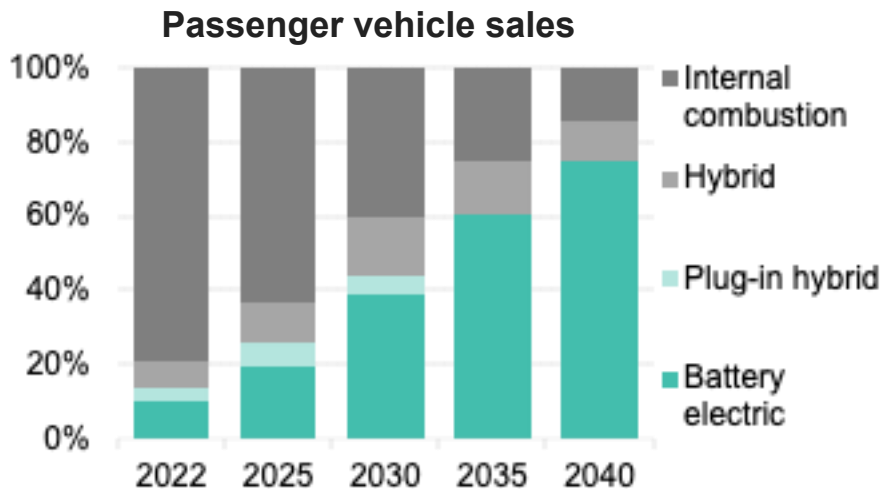
The future of parking lots is electric



“80% of EV charging is done at home — almost always overnight — or while a car is parked during the workday.”

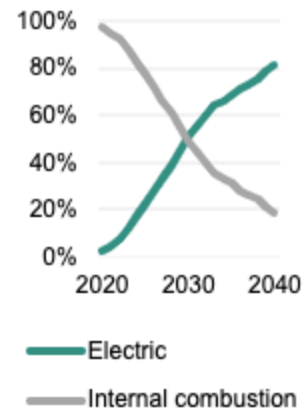
— Forbes, 2021

Vehicles in parking lots are starting to look different



Source: BloombergNEF, June 2023

Inflection point of sales is in 2030

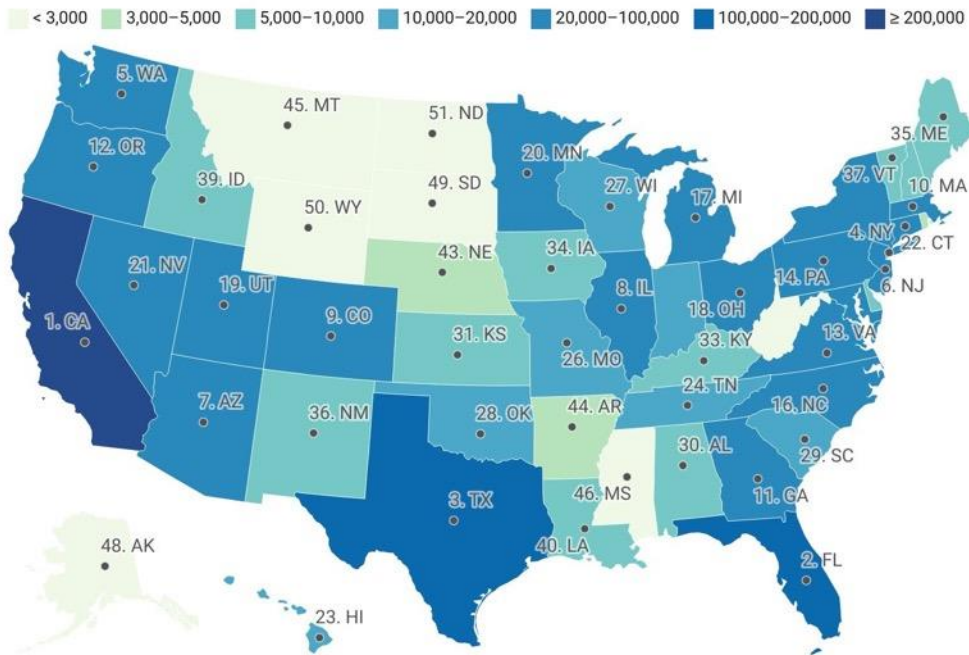


47% of millennials, 41% of Gen Z and 38% of Gen X are interested in buying an EV.

— Ward's Auto, 2022

EV adoption is already happening across the country

EV Registration by State



Source: StorageCafe analysis of Atlas EV Hub, Alternative Fuels Data Center, Federal Transit Administration, Federal Highway Administration, Environmental Protection Agency, Department of Energy, Policy Genius, Yardi Matrix and Google Keyword Planner data • Created with Datavrapper

Major auto OEMs are committed to an all-electric future

VW id4



Volvo Recharge XC40



Ford F150 Lightning



Nissan LEAF



BMW i4



Chevy Bolt



Rivian RT1



Hyundai Ioniq 5

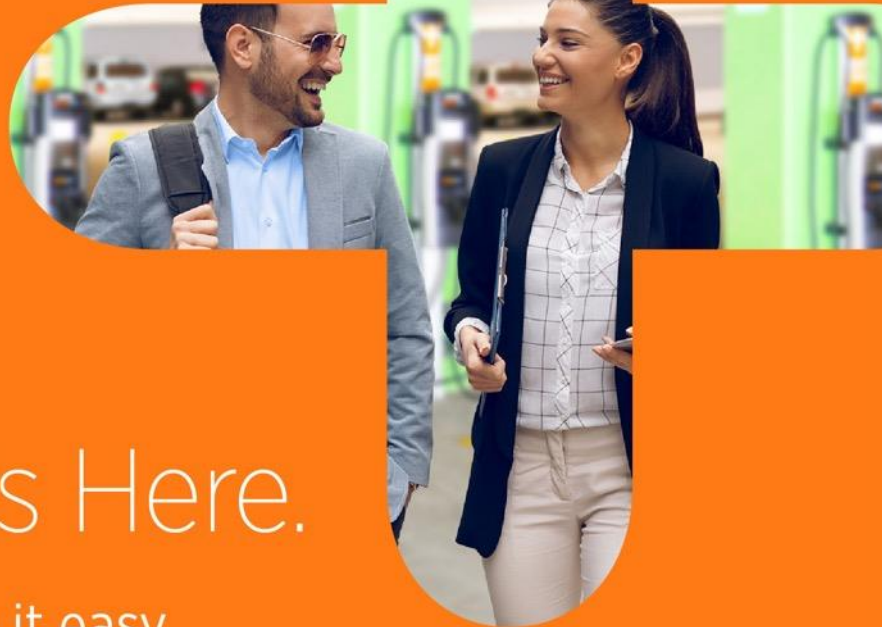


VW eGolf



Hyundai Kona





The Electric Revolution Is Here.

Our obsession? Making it easy.

-chargepoint+

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