

ENVIRONMENTAL
LAW



presents

Confronting Climate Change:

In California And Beyond

Transitioning California to A Carbon-Free Transportation Sector

Friday, April 7, 2023
11:15 am - 12:30 pm

Speakers:

John Boesel, CalSTART

Vivian Rahwanji, Director

Community Housing Development Corporation of North Richmond

Dan Sperling, Director
Institute for Transportation Studies, UC Davis

Conference Reference Materials

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Confronting Climate Change in CA and Beyond UCD King School of Law

April 7, 2023

John Boesel, President and CEO



CALSTART's 320+ Member Companies

(PARTIAL LISTING)



CALSTART – National Organization



Europe
Office
Opened in
2022

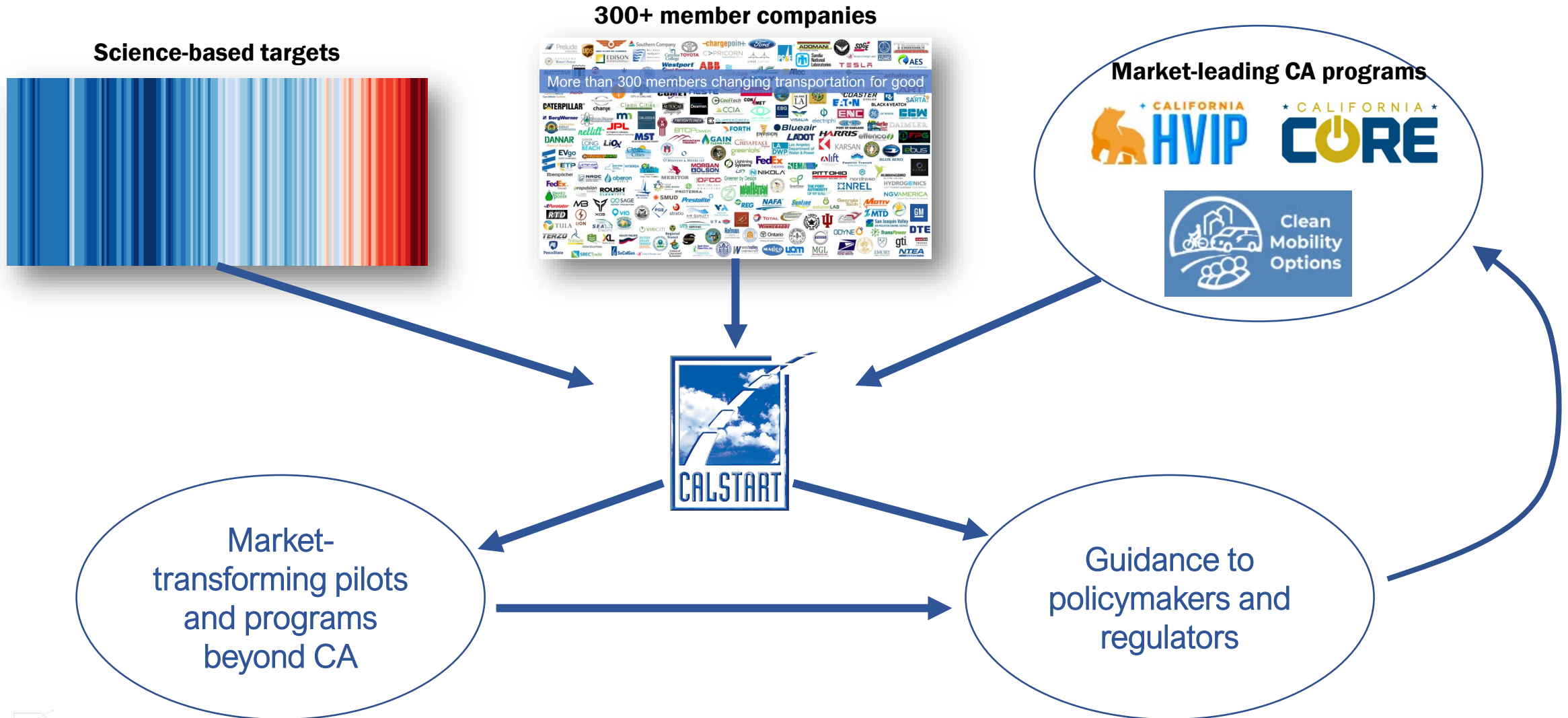


Guiding Targets - 2030

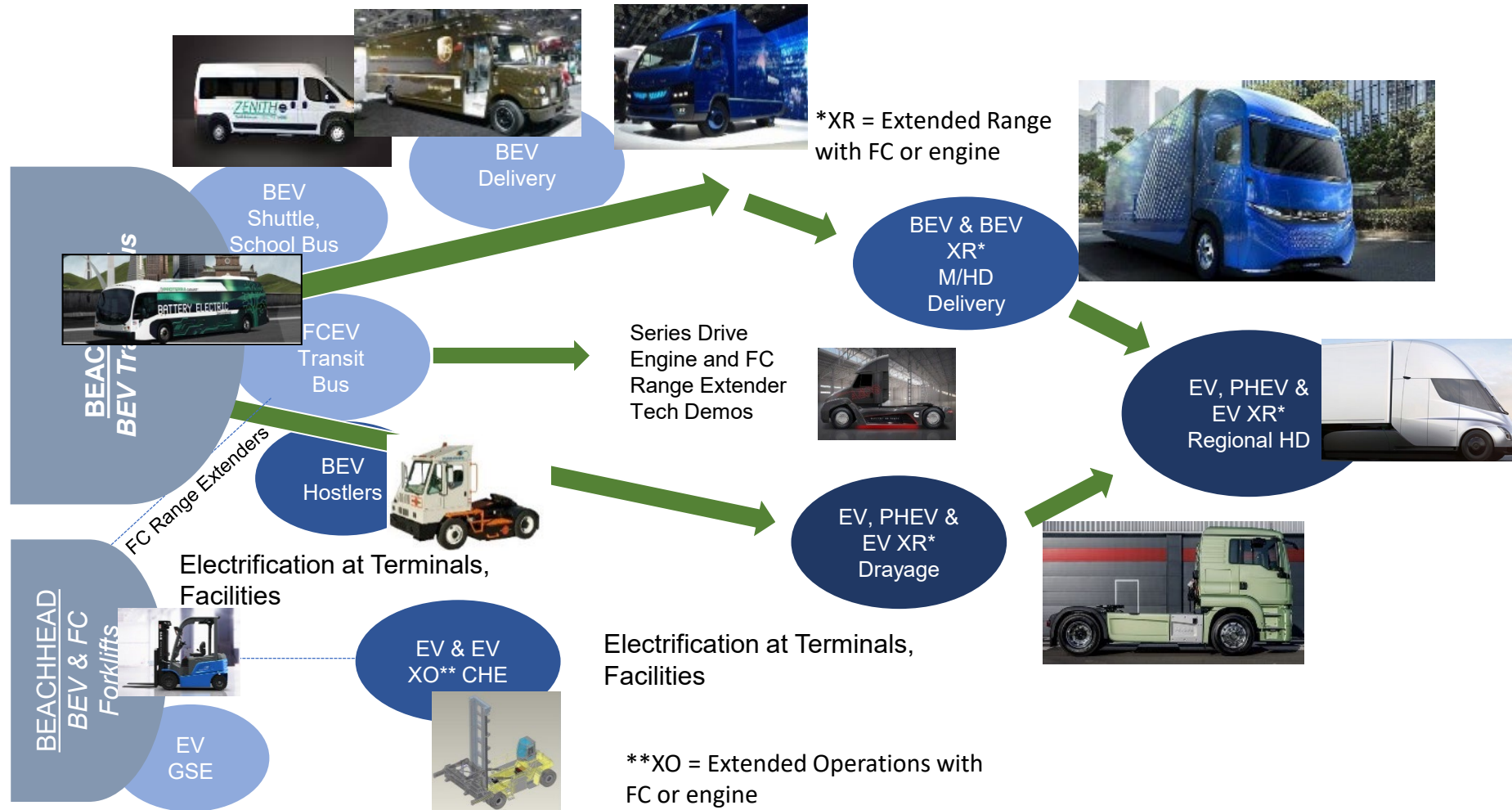
- *US transportation emissions 40% below 1990 levels by 2030*
- All regions in attainment for federal air quality standards – “clean air for all”
- Our members dominate US automotive, truck and bus manufacturing and transportation energy production



CALSTART's Unique Value Proposition



Beachhead Strategy for Commercial Vehicle Market Developed by CALSTART – Now Global



2017

Steadily Expanding Climate "Wedges" of Increasing Volume, Impact



BYD Electric Yard Tractors



Peterbilt Electric Box Trucks



Volvo Trucks Powered by Renewable Natural Gas



**The First
Tesla
Semi-
Trucks in
Real-
World
Ops
(500
miles of
range on
a charge)**



Per Frito-Lay Mechanic: "The trucks are operating as advertised."





Tesla Megacharger – 750kW – 400 miles of range in one hour



"The transformation at Modesto is in direct support of our PepsiCo Positive (pep+) commitment to building a circular and inclusive value chain and achieving net zero emissions by 2040," said Steven Williams, CEO of PepsiCo Foods North America. "To date, the Frito-Lay Modesto transformation has resulted in a **91 percent reduction** in greenhouse gas (GHG) emissions from direct fleet operations"



From left to right: Basil Latif (CALSTART) Steven Williams (Frito-Lay)



Building on Success in CA – CALSTART Created a Global Movement to Decarbonize Commercial Vehicle Sector



2025

Near- and zero-emission commercial vehicles cost-competitive and commercially viable in first-success applications and early-mover regions by 2025.

2040

Zero-emission commercial vehicles dominate new vehicle sales by 2040.



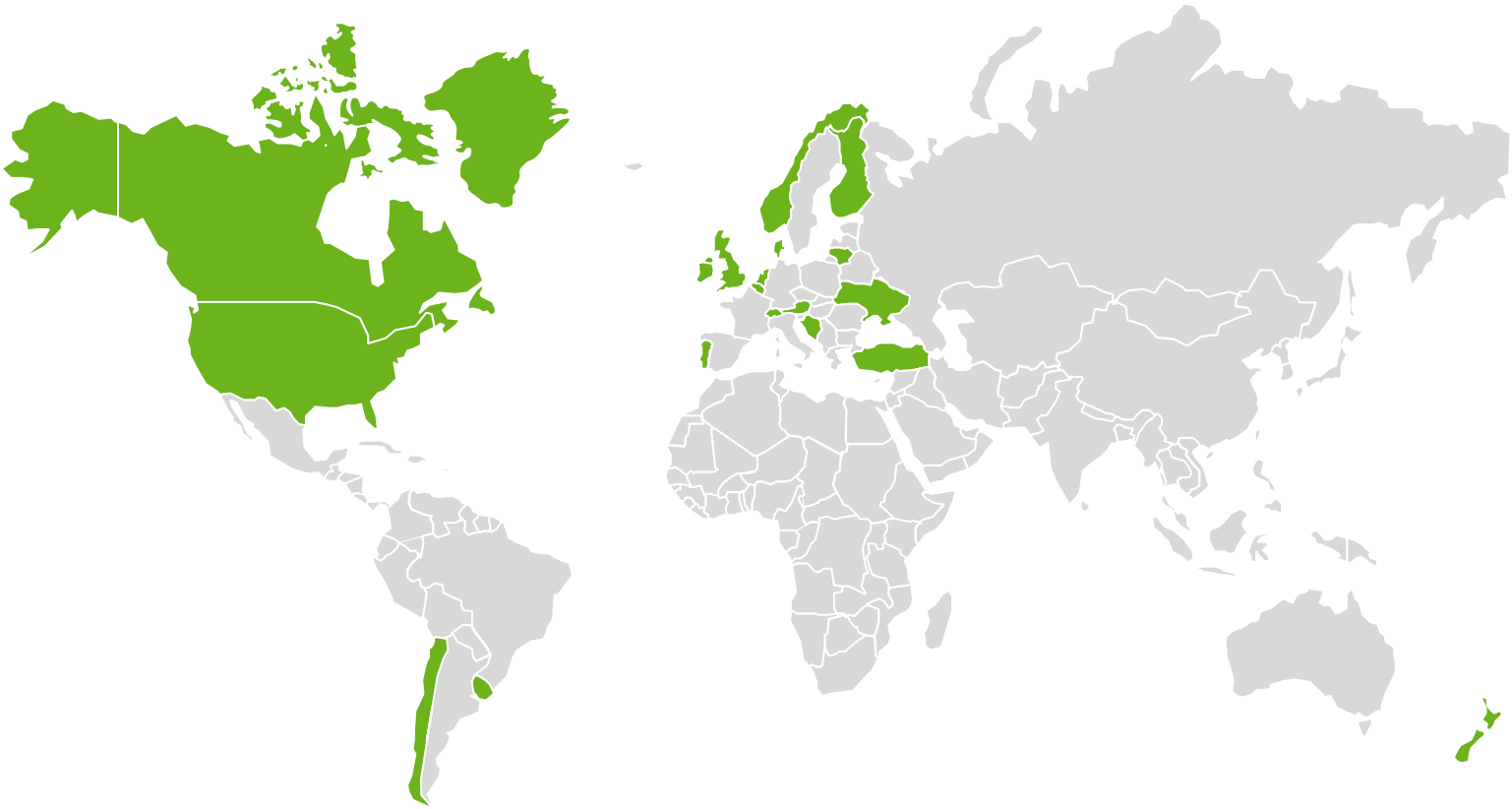


U.S. CENTER

MAY 15 - 16, 2022

US Signs Global MOU on ZE Commercial Vehicles

For the first time 27 leading countries aligned on a common ambition toward 100% zero-emission trucks and buses, in line with the goals of the Paris agreement.



MOU signatories





Thank You

We change transportation for good.

[CALSTART.org](https://www.calstart.org)

Moderator

Jennifer Helfrich, Center for Law, Energy & the Environment, UC Berkeley School of Law



Jennifer Helfrich is a Research Fellow in the Climate Program at UC Berkeley Center for Law, Energy, and Environment where she leads research as well as facilitates and designs convenings to advance clean transportation policy. Prior to joining CLEE, Jennifer managed California, western, and midwestern states for the Ceres State Policy program, bringing major business support for renewables, efficiency, and clean transportation to state governments. Before Ceres, Jennifer supported clean energy programs at the San Francisco Public Utilities Commission and the San Francisco School District. Jennifer is a contributing author for the IPCC's Fifth Assessment Report with the Mitigation Working Group on Transportation. She got her BA from the University of California Santa Cruz and her MPP as a Roy Family Fellow with the Belfer Center's Environment and Natural Resources Program at the Harvard Kennedy School.

Panelists

John Boesel, CalSTART



John Boesel is the President and CEO of CALSTART, the leading clean transportation industry organization in the United States. Over the past 29 years John has become a leading expert with extensive experience in building the clean transportation industry. CALSTART has more than 300 member companies ranging from start-ups to Fortune 100 companies. In the past three years the organization has doubled in size and now has more than 150 employees and offices in five states and an office in Europe. Prior to joining CALSTART John worked as a commercial banker and a legislative aide for a California State Assemblyman. John was a history major and got his BA from UC Davis and his MBA from the Haas School of Business at UC Berkeley.

Vivian Rahwanji, Director, Community Housing Development Corporation of North Richmond



Vivian Rahwanji serves as the Director of Transportation and Operations at Community Housing Development Corporation (CHDC) a non-profit in Richmond CA. She leads CHDC's Transportation Equity Project Driving Clean Assistance Program (DCAP, <https://communityhdc.org/dcap/>). For CHDC Operations, she develops and spearheads visionary, equity, and communication strategies to implement the California Air Resources Board's first Financing Assistance Incentive Project for low income and disadvantaged communities. She serves as lead for the grant management, with a goal of accelerating EV usage, lending strategies specifically to priority populations to prevent predatory lending in their vehicle purchase, and education/financing assistance in priority communities. Our program is highly effective in promoting clean vehicles in communities that have been impacted by climate change and are more likely to be Black and Brown, as well as eliminated predatory lending that, again, disproportionately targets Black and Brown communities in our service offering. We work one-on-one with individuals to support them in making financial decisions that work for them and their families' needs. This includes financial coaching to support people with limited or challenged credit, high debt-to-income ratio, and people looking for reliable transportation. Vivian holds a Master of Arts degree in Management and Leadership from Liberty University in VA. and is a member of the Golden Key Honor Society.

Dan Sperling, Director, Institute for Transportation Studies, UC Davis



Dr. Daniel Sperling is Distinguished Blue Planet Prize Professor of Civil Engineering and Environmental Science and Policy, and founding Director of the Institute of Transportation Studies at the University of California, Davis (ITS-Davis). He holds the transportation seat on the California Air Resources Board and served as Chair of the Transportation Research Board (TRB) of the National

Academies in 2015-16. Among his many prizes and awards are election to the National Academy of Engineering in 2022, the 2018 Roy W. Crum award from TRB, its highest research award; and the 2013 Blue Planet Prize from the Asahi Glass Foundation Prize for being “a pioneer in opening up new fields of study to create more efficient, low-carbon, and environmentally beneficial transportation systems.” He served twice as lead author for the IPCC (sharing the 2007 Nobel Peace Prize), testified 8 times to the US Congress, and provided 20 keynote presentations in the past year. He has authored or co-authored over 250 technical papers and 13 books, including *Three Revolutions: Steering Automated, Shared, and Electric Vehicles to a Better Future* (Island Press, 2018), is widely cited in leading newspapers, been interviewed many times on NPR radio, including Science Friday, Talk of the Nation, Marketplace, and Fresh Air, and in 2009 was featured on The Daily Show with Jon Stewart.