



# FORTH ANNUAL REPORT

2022



## Executive Director's Letter

Forth's work, staff and budget more than doubled in 2022, leading to our most productive year on record. We passed several new milestones in electric mobility, while multiple sources dubbed 2022 the "year of the electric car."

- Forth launched a [national carsharing project](#) with funding provided by the U.S. Department of Energy to bring low-cost EV carsharing to affordable housing developments across the country.
- The Forth Mobile Showcase traveled nearly 2,500 miles across Oregon to provide in-person outreach, education and awareness of EVs.
- We are providing [technical assistance and grant-writing support](#) to help underserved communities access \$2.5 billion in federal funding to install publicly accessible charging infrastructure.
- We are working with partners to implement a [national workplace charging program](#) to spur widespread adoption of charging solutions among employers.
- Forth is leading Oregon's first diesel-to-electric bus repower project, creating a model for school districts seeking a lower-cost option for electrifying their fleet.
- The Forth Roadmap Conference returned to an in-person event for the first time in three years. Over 1,000 attendees from 11 countries, representing all sectors of the electric transportation industry, convened to address the most pertinent topics in electric mobility.

But there is still a great deal of work ahead:

- We must ensure that federal funds are invested quickly, effectively and in ways that reduce barriers to access for historically underserved communities.
- We must place historically underserved populations at the center of our electric mobility strategies.
- We must lay the foundation to electrify everything that moves - not just cars, but everything from bikes and scooters to agricultural equipment and school buses.
- We must make the most of this moment, and take nothing for granted.

Forth continues to play a unique role in the electric mobility transformation. Our team brings together diverse stakeholders from across the transportation ecosystem; creates and tests innovative new programs in the real world; makes connections and shares best practices; and shapes practical yet transformative policies to help these solutions grow to scale.

With your support, we will continue our work to build a world where clean and equitable transportation systems move everyone and everything.



**JEFF ALLEN**  
Executive Director

## Board President's Letter

Forth's superpower is our ability to bring people together.

Forth's Board brings together professionals from a wide range of interests, including industry and utility representatives, diversity and equity trailblazers, technology experts and community leaders.

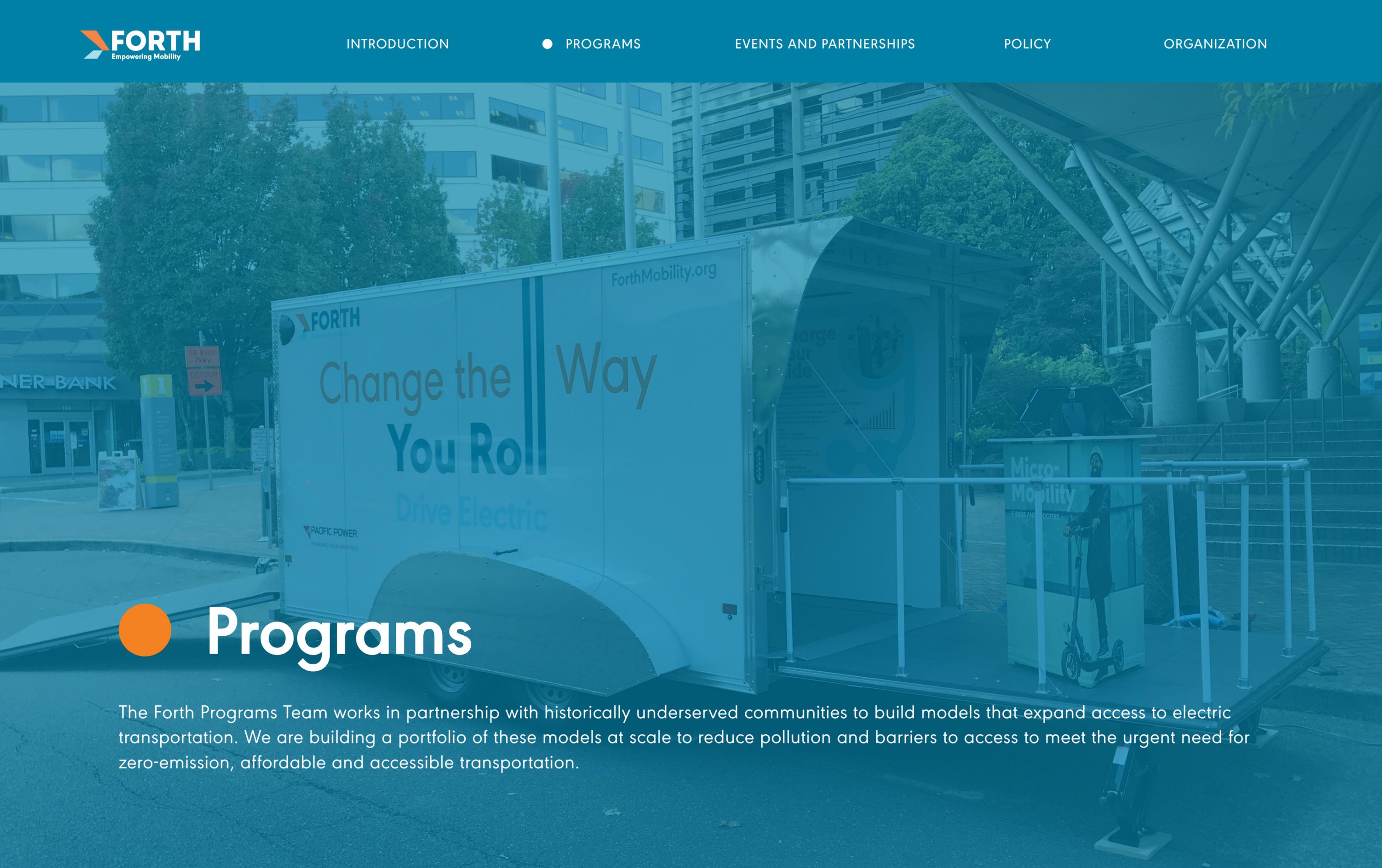
Forth works with community-based organizations, global automotive companies, electric utilities, consulting firms, environmental advocates and hundreds of other partners across the country, across the political spectrum and across the electric mobility industry based on a common goal of accessible electric transportation.

This report demonstrates once again that when we align these diverse organizations around their shared interests and get them pointed in the same direction, amazing things happen. I hope you enjoy reading about some of this work over the past year.

As Forth continues to grow, its goals become bolder. It will take more connections to accomplish them. If you are one of the many partners we worked with in 2022, thank you. If not - we hope to have an opportunity to work together in the year to come! The Forth team will continue to lead the way. I am excited to see what the next year will bring.



**PATTI BEST**  
Board President



# Programs

The Forth Programs Team works in partnership with historically underserved communities to build models that expand access to electric transportation. We are building a portfolio of these models at scale to reduce pollution and barriers to access to meet the urgent need for zero-emission, affordable and accessible transportation.

## Access to Cars

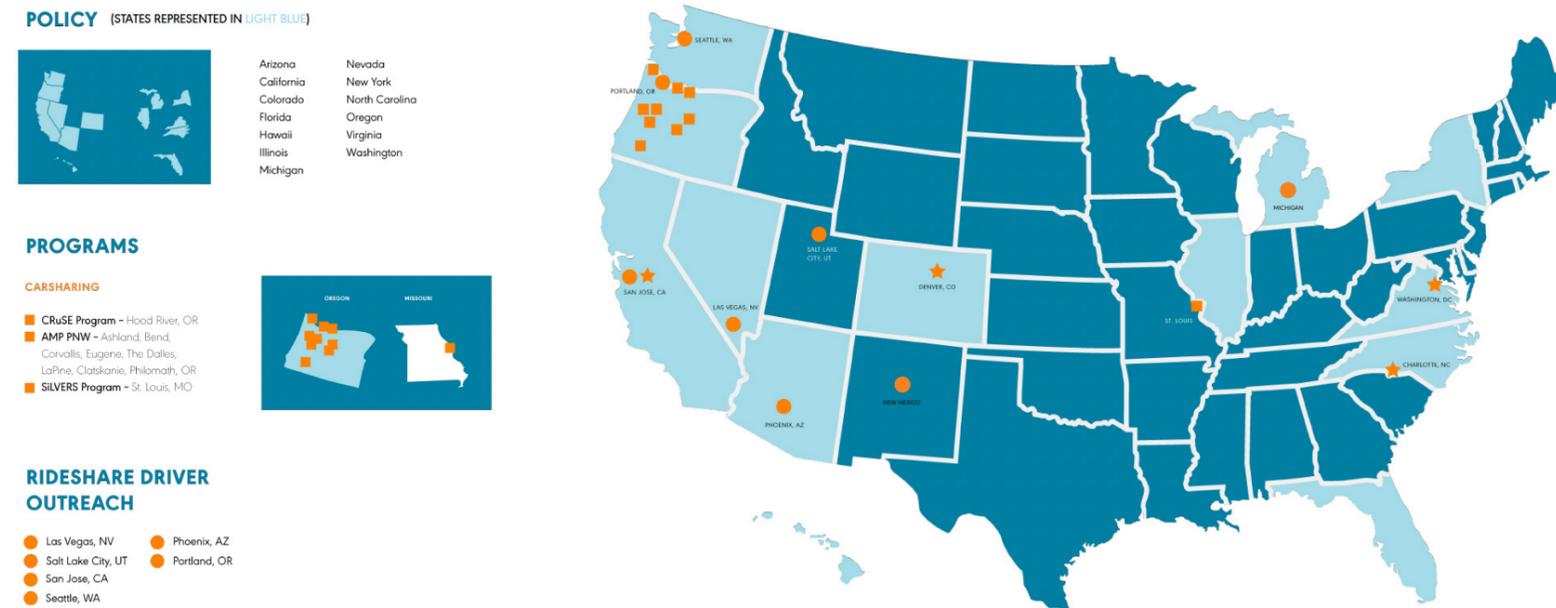
Forth builds programs around drivers who have traditionally faced the most barriers to electric transportation. We cultivate access and equitable adoption to EVs through awareness, community-based programs and by reducing financial barriers.

To increase access to EVs, we design and implement affordable EV carsharing programs, engage in community-centered outreach and education and develop models and financial tools to reduce cost barriers for EV adoption.

*"It's crucial to showcase a model to benefit communities most in need. With the AMP Project, we are partnering with affordable housing developments and local partners to do so."*

CONNOR HERMAN  
Program Manager, Forth

**The Affordable Mobility Platform (AMP)** is a national initiative funded by the U.S. Department of Energy's Office of Energy Efficiency and Renewable Energy with the goal of increasing access to clean transportation by making low-cost EVs available to underserved communities. Forth is working with partners including utilities and community-based organizations to establish EV carsharing at affordable housing sites.



We're providing **60 electric vehicles** and charging stations at over **40 sites** in:

- Oregon (Portland, Hood River, Bend, La Pine, Eugene)
- Washington State (Seattle, Bingen, White Salmon)
- North Carolina (Charlotte)
- Missouri (St. Louis)
- Michigan (Grand Rapids, Detroit, Kalamazoo, Ann Arbor)
- Idaho (Boise)
- Nevada (Las Vegas)
- New Mexico (Albuquerque, Santa Fe)

### The Clean Rural Shared Electric Mobility Project (CRuSE)

Forth manages the CRuSE carsharing program in Hood River, OR. CRuSE is the state's first all-electric carshare program and serves a rural, agricultural community with five vehicles and chargers providing access to affordable housing residents, city employees, migrant workers and tourists.

### Mobile Showcase

The Mobile Showcase brings EV education and outreach to rural communities across Oregon with an interactive showroom with information on charging, EV models, trip planning and micromobility. We provide electric vehicles, bikes and scooters for test drives.

Funded by Pacific Power and the Oregon Clean Fuels Program, we traveled **2,500 electric miles** to share the benefits of electric transportation with over **500** people at events across Oregon with partners at the Environmental Center, Sustainable Northwest and African American Alliance for Homeownership in 2022.

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*"We've taken significant steps to electrify our transportation system, and education outreach by organizations like Forth is helping more people make the switch."*

SUZANNE BONAMICI  
Oregon State Representative



### WestSmart EV at Scale Program

Working with Utah State University and Rocky Mountain Power, Forth conducted outreach and surveyed hundreds of rideshare and delivery drivers in Portland, OR., Las Vegas, NV., Salt Lake City, UT. and Phoenix, AZ. to understand barriers to EV adoption. This is largest study of its kind and will inform infrastructure planning efforts across the U.S.

### Access to Charging

Access to charging is a major barrier to electrification, especially for historically underserved communities. Forth builds programs around drivers who have traditionally faced the most barriers to electrification, working to make it as easy to charge a car as it is to park. We work to ensure public investments in charging are efficient, effective and grounded in equity.

The Access to Charging team received a series of significant grants and began work on programs focused on increasing access to charging at the workplace, in multi-family dwellings and infrastructure for underserved communities.

### Community Charging Infrastructure

We are helping direct federal money for charging infrastructure to underserved communities. We provide technical assistance and grant writing support to communities to help them gain access to funding to support the installation of publicly accessible charging infrastructure. This program is made possible by a generous **\$500,000 grant** from the [GM Climate Fund](#).

### Charge@Work

Forth and partners are developing [Charge@Work](#), a national workplace charging and certification program engaging workplaces, public officials and community leaders to start workplace charging programs. Forth received a **\$4 million grant** from the Department of Energy to develop this program.





### Zero Emission Vehicle Infrastructure

As part of Washington State Department of Transportation’s (WSDOT) Zero-Emission Vehicle Infrastructure Partnerships (ZEVIP) grant program, Forth received **\$8 million** in grant funding to spearhead charging infrastructure improvements throughout Washington State with partners at [EVCS](#) and [EVGo](#). The program will install **58 new chargers** across **20 locations** in Washington in the coming year.

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**58** new chargers  
**20** locations

### Oregon Charging Infrastructure Rebate

Forth is leading the outreach and technical assistance efforts of Oregon’s first community charging infrastructure rebate program, [Plugging in Oregon](#). The program offers rebates to reduce the cost of purchasing, installing and maintaining qualified Level-2 charging equipment at publicly accessible parking locations and multi-family housing (MFH). [The Oregon Department of Transportation](#) provided \$250,000 to support the outreach program.

We are also developing a rural charging infrastructure plan in Wasco County, OR. with a grant through the U.S. Department of Agriculture.

*“Forth is a wonderful resource for connecting people, resources and institutions to focus their energy and effort on sustainable, smart electric transportation. It also has a large focus on equity and has had for a long time.”*

MARY BRAZELL  
Oregon Department of Transportation



## Emerging Modes

Forth strives to stay at the forefront of clean, equitable transportation and is constantly seeking new opportunities to advance this work. From removing barriers to make electric micromobility accessible in historically underserved populations, to electrifying America’s farms and school buses, to building a transportation finance system that encourages clean and equitable mobility – Forth works to elevate critical and transformative projects.

### Electric School Bus Program

In early 2022, Forth received \$300,000 from the [American Rescue Plan Act](#) to promote electric school buses and to repower a diesel school bus to electric with the Beaverton School District in Oregon. We worked with the Arlington, Siuslaw and Colton school districts in Oregon providing guidance and support for electric buses, charging infrastructure, site planning and support in accessing the [EPA’s Clean School Bus funding](#).

### Agricultural Electrification Program

Forth and its partners acquired two electric tractors which, along with one acquired last year, were put to work with our farming partners Troon Vineyards, Crook County Fairgrounds and the Black Food Sovereignty Coalition. Over **60,000 community members** were exposed to electric tractors through events held by these partners. Forth is set to receive **\$1.5 million** from the Department of Energy to expand the program in the coming year.

*“The work to integrate clean, electric work equipment into rural communities is an essential component to decarbonization. This transformative work would not be possible without the diverse array of committed non-profit partners like Forth, Sustainable Northwest and Wy’East RC&D.”*

EVAN RAMSEY  
Sr. Director - Renewables, Bonneville Environmental Foundation

### Electric Micromobility

Forth worked with the [Oregon Department of Transportation](#) and [Kittleson & Associates](#) to produce the [Transportation Electrification Infrastructure Needs Assessment \(TEINA\)](#) report highlighting electric micromobility in Oregon with key guidance on infrastructure, cost, education and equity.

[CLICK HERE TO VIEW THE REPORT](#) >

### Green Energy and Mobility Project

The [Portland Clean Energy Fund \(PCEF\)](#) awarded Forth over \$4 million to implement a community-based climate resiliency project with the [Bybee Lakes Hope Center](#) and at [Hacienda CDC](#) to help underserved and vulnerable populations remain resilient in the face of the climate crisis.

The program includes the installation of roof-mounted solar panels at the locations as well as updated HVAC systems. Two ADA-accessible EV Star Mini-buses will be purchased for ownership and operation at the Bybee Lakes Hope Center. One EV Star Mini-Bus will be placed at Hacienda CDC's affordable housing development, Las Adelitas. We are also partnering with Portland-based [Vvolt E-Bikes](#) to provide 30 e-bikes for residents to use to access essential services. The buses and bicycles will connect residents to jobs, housing, public transit and recreational opportunities, and to provide street outreach services in Portland.

*"Having Forth involved in the move to green energy and electrification of our organization has allowed us to continue our focus on helping those experiencing homelessness, while making moves toward long-term sustainability and strengthening our stewardship. Their expertise, their passion to electrify and their compassion to help as many people as possible is apparent in everything they do, and we are thankful for this partnership and look forward to continuing to work with them."*

MIKE DAVIS  
CEO, Helping Hands





# ● Events & Partnerships

Forth convenes diverse stakeholders who collaborate to advance equitable transportation systems, helping them find common ground and ways to work together. We organize and grow outstanding events that engage our key audiences, provide key networking opportunities and spark partnerships.



## The Forth Roadmap Conference

The Forth Roadmap Conference returned to an in person event, bringing together **133 speakers, 59 sponsors, 26 community partners and over 1,000 attendees from four continents.** With multiple tours, workshops, networking receptions and 28 program sessions, it was Forth's best Roadmap Conference yet!



*"Roadmap is the most impactful EV-focused event on the annual calendar, it's a must-attend for anyone interested in EVs and charging."*

STEVE HENDERSON  
Ford Motor Corp.

*"If you're plotting your course in the transportation future there's no better place to start than the Roadmap Conference."*

NANCY RYAN  
eMobility Advisors

# Webinars

Forth hosted **14** webinars for **2,700** attendees from over **29** countries and together with our partner [Bonneville Environmental Foundation](#), we organized three utility roundtables to provide a virtual forum for utilities to discuss transportation electrification projects, policies and best practices.

Our upcoming webinars as well as an archive of past webinars can be found on the [Forth Events Calendar](#).

## TOPICS:

### JANUARY

- [A Second Life For EV Batteries](#)

### FEBRUARY

- [Federal EV Policy - What's Coming Next!](#)
- [What Transportation Agencies Need To Know About Charging](#)

### MARCH

- [Driving Change With Clean Fuel Programs](#)
- [Plugged In: A Driver-Centered Approach to Electrifying Rideshare](#)

### APRIL

- [Clean Transportation For All: Access to EV Charging](#)
- [Electrifying Trucking](#)

### MAY

- [Building Resiliency With V2G In Residential Homes](#)

### JUNE

- [Charging In Parks: Best Practices and Lessons Learned](#)

### AUGUST

- [How Community Engagement Leads to Policy Action](#)

### SEPTEMBER

- [Addressing The E-School Bus Challenges in Underserved Districts](#)

### OCTOBER

- [Financing Tools to Increase Electric Vehicle Access](#)

### NOVEMBER

- [Using Federal Charging Funds Equitably & Effectively](#)

### DECEMBER

- [A Look Back at Electric Transportation in 2022](#)

*"Just a quick note of appreciation for the wonderful breadth of topics the Forth webinars are covering in this series! I know our team really learns a lot from it and I'm glad those topics are getting deep dive attention from others who care about electrification. Thanks to all on the Forth team pulling them together!"*

MEREDITH CONNOLLY  
Oregon Director, Climate Solutions

## WEBINAR ATTENDEES BY INDUSTRY:



## Policy

Forth is building influence and bridges between equity, environmental and multimodal organizations to promote transportation electrification at the national, state and local levels. We work to build the foundation for public and private investment and to maximize the equitable impacts of those investments.

Forth co-created the [AchiEVe: Model Policies to Accelerate Electric Vehicle Adoption](#), and is a participant in a number of national coalitions working to promote equitable transportation electrification. We also helped inform major legislation and investments such as the Infrastructure Investment and Jobs Act (IIJA) and the Inflation Reduction Act (IRA) that are steering billions of dollars into electric mobility.

[CLICK HERE TO VIEW THE REPORT](#) >

Oregon increased EV rebates for families in need this year by doubling the income-qualified rebate from **\$2,500** to **\$5,000**

### State EV Rebates

Oregon increased EV rebates for families in need this year by doubling the income-qualified rebate from \$2,500 to \$5,000. This rebate can be applied to a used EV, or combined with the standard \$2,500 rebate for \$7,500 off a new EV. At least 20% of rebate funds are set aside for the Charge Ahead program, up from 10% last year. Forth worked with partners to support this increase and defend the Oregon Clean Vehicle Rebate from proposed cuts.

# AchiEVe:

## Model Policies to Accelerate Electric Vehicle Adoption

Presented by the Sierra Club, Plug In America, FORTH, and the Electrification Coalition



### Towards Equitable Electric Mobility (TEEM)

TEEM is a peer-to-peer community of advocates to share policy goals, build capacity and develop a mutual commitment towards advancing racial equity in electric mobility and climate change goals. We manage this project jointly with the Greenlining Institute, and the cohort now includes 31 organizations from Colorado, Illinois, Michigan, North Carolina and Virginia.

We hosted our first in-person TEEM Annual Convening in 2022 where 20 TEEM organizations came to the Forth Roadmap Conference to strengthen relationships and strategize on actions that we can take together. The cohort focused on understanding community mobility needs by hosting at least one listening session in each of our states.

*“The policy advocacy work that Forth does is top notch and spans the different levels of government and types of engagement. You have folks working at the local level to push EV incentives and procurement policies; at the state level to push state ambition; and at the federal level to ensure that we’re all in this together.”*

REBECCA FISCHER  
Drive Electric Campaign Director

## Media

Forth was featured in over 30 news articles this year. Publications such as The Washington Post, U.S. News, WIRED, USA Today, Automotive News and others turned to Forth for our insight on the transportation electrification industry and to cover our programs and events.

## Newsletter

Forth’s monthly Newsletter reaches nearly **15,000** active subscribers each month, delivering important information and developments within the transportation electrification industry as well as updates on the work of Forth, our members and partners.

### SUBSCRIBERS



Forth’s **social media channels** are a vibrant source of the latest updates and action within the industry and at Forth. Be sure to follow @forthmobility on Linked In and Twitter.



3,682 followers



2,902 followers

## Financials

### Revenue Sources (FY 2022)

Foundation Grants	\$ 4,679,310
Government Grants	\$ 1,371,075
Clean Fuels	\$ 82,500
Program Fees	\$ 2,377,312
Donations	\$ 3,335
Membership Dues	\$ 259,684
Ticket Sales	\$ 355,747
Sponsorships	\$ 428,855
Other Income	\$ 37,914
Interest Income	\$ 5,828
<b>Total Revenue</b>	<b>\$ 9,601,559</b>

### Expenses (FY 2022)

Program Services	\$ 8,957,362
Administration	\$ 536,000
Fundraising	\$ 417,626
<b>Total Expenses</b>	<b>\$ 9,910,987</b>

<b>End of Year Assets</b>	<b>\$ 5,256,378</b>
<b>Beginning of Year Assets</b>	<b>\$ 2,395,782</b>
<b>Change</b>	<b>\$ 2,860,596</b>

## Members

Forth helps members connect with partner organizations, policymakers and stakeholders to reach new markets and support sector growth to advance equitable electric transportation.

Forth increased our membership to include **169 organizations** in 2022. Our members are our closest allies, which include six Champion Members (Enel X, Nissan, Honda, BMW, Portland General Electric and Black & Veatch), **24 Premium Partners, 26 Partners, 31 Supporters** and **77 Friends**.



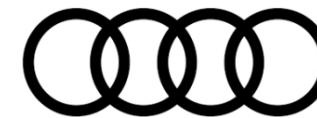
*“Our Forth membership has been instrumental in improving our business reach and impact. Through our membership and Forth network, our business was invited to the White House to celebrate our work in creating EV Technician workforce training.”*

MAVRICK KNOWLES  
Co-Founder, Legacy EV

## Champion Partners



## Premium Partners



## Partners

AAA Washington  
 AVERE - The European Association for Electromobility  
 Bonneville Environmental Foundation  
 CLEAResult  
 CoMotion  
 Cox Automotive  
 EC Electric  
 Electric Drive Transportation Association (EDTA)  
 Electrify America  
 ENTEK  
 FlexCharging  
 IBEW 48  
 Idaho Power  
 Legacy EV  
 NextEra Energy Resources  
 North American Council for Freight Efficiency (NACFE)  
 Oregon Department of Transportation - Climate Office  
 Oregon Department of Transportation - Public Transportation Division  
 Port of Portland  
 Seattle City Light  
 SemaConnect  
 Smart Electric Power Alliance (SEPA)  
 Stoel Rives LLC  
 Technology Association of Oregon  
 Texas Electric Transportation Resources Alliance (TxETRA)  
 Wallbox  
 WSP

## Supporters

3Degrees Group  
 AAA Oregon/Idaho  
 American Council for an Energy Efficient Economy (ACEEE)  
 Blink Charging  
 Carbon Solutions Group  
 ChargeHub  
 City of Hillsboro  
 City of Portland  
 Clark Public Utilities  
 Connecticut Green Bank  
 D+R International  
 Emerald People’s Utility District  
 EnergyHub  
 Eugene Water and Electric Board  
 EV Connect  
 EV Range  
 EVCS  
 EVgo  
 FreeWire Technologies  
 Geotab  
 LINK  
 Midstate Electric Cooperative  
 Pacific Power  
 Platt Auto  
 Plug In America  
 Prosper Portland  
 Shoals Technologies Group  
 Solectrac  
 The Street Trust  
 TriMet  
 WeaveGrid

## Friends

Atlas Public Policy  
 Atomic Auto  
 Blachly-Lane Electric Cooperative  
 Cadeo Group  
 California Electric Transportation Coalition  
 CALSTART  
 Center for Sustainable Energy  
 Center for Transportation and the Environment (CTE)  
 Central Electric Cooperative  
 Central Lincoln People’s Utility District  
 Charge Across Town  
 ChargEVC  
 Chargeway  
 Charging Interface Initiative North America (CharIN Inc.)  
 CharlieAllcockConsulting LLC  
 City of Ashland  
 Clean Energy Works  
 Clean Power Research  
 CleanFuture  
 CleanTech Alliance  
 Climate Solutions  
 Columbia River People’s Utility District  
 Columbia-Willamette Clean Cities Coalition  
 Community Cycling Center  
 Cyan Strategies  
 Cynergy E-Bikes

ECOSS  
 Electrification Coalition  
 Elonroad  
 Energy Trust of Oregon  
 Environment Oregon  
 Essence Partners  
 EV4 LLC  
 Evergreen Consulting Group  
 EVHybridNoire  
 FIER Automotive  
 Generation180  
 GRID Alternatives  
 Grid Forward  
 Hacienda Community Development Corporation  
 Highland Fleets  
 Hubject - U.S. Office  
 Kittelson & Associates  
 Learned On, LLC  
 Legwork Local Delivery  
 Metro  
 Natural Resources Defense Council (NRDC)  
 Northwest Environmental Business Council (NEBC)  
 Northwest Public Power Association  
 NW Energy Coalition  
 OpConnect  
 Opinion Dynamics  
 Oregon Department of Environmental Quality

Oregon Environmental Council  
 Oregon Food Bank  
 Pacific Mobility Group Inc.  
 Photon Marine  
 Pivot Marketing  
 Portland State University (PSU)  
 Puget Sound Solar LLC  
 Ravin Energy  
 Renewable Hydrogen Alliance  
 Ride Report  
 SafeConnect Systems  
 Sierra Club National  
 Social Enterprises Inc.  
 Solar Oregon  
 Stable Auto  
 Tacoma Power  
 The Greenlining Institute  
 Thorn Run Partners  
 Titan Freight Systems  
 UFODRIVE  
 VERDE  
 Westside Transportation Alliance

## Staff

### Leadership

JEFF ALLEN – Executive Director  
GINA AVALOS-LIMARDO – Director of Finance & Operations  
STEFFANI CUFF – Programs Director  
CAT PLEIN – Development & Communications Director  
JEANETTE SHAW – Policy Director  
ELLEN DULLY – Deputy Director

### Access to Cars

KELLY YEARICK – Senior Program Manager  
JR ANDERSON – Program Manager  
STEFENIE GRIGGS – Program Manager  
CONNOR HERMAN – Program Manager  
LINDSAY SCHUELKE – Program Manager  
IAN SERGEANT – Program Manager  
MANUEL MORALES – Senior Program Associate  
JENNIFER ZAVON – Senior Program Associate  
VARUN BATHER – Program Associate

### Access to Charging

ALEKSANDRA EVERT – Program Manager  
WHIT JAMIESON – Program Manager  
KEVIN HACHEY – Program Manager  
BRITTNEY BREEN – Program Associate

### Access to Emerging Modes

ADRIAN GOMEZ – Senior Program Manager  
BARRETT BROWN – Program Manager  
PRAMODH JACOB – Program Manager  
DAVID SKAKEL – Program Manager  
LUCIA MOSCA – Senior Program Associate

### Policy

ALEXA DIAZ – Senior Policy Manager  
SHANNON WALTON-CLARK – Senior Policy Manager  
STUART GREEN – Policy Manager  
SAMIKCHHYA BHUSAL – TEEM Senior Policy Associate

### Events and Partnerships

ASHLEY DUPLANTY – Senior Manager of Strategic Partnerships & Events  
SIMBIAT YUSUFF – Events Manager  
RACHEL HAVERKAMP – Partnership & Membership Manager  
STUART HARUYAMA – Events Associate

### Marketing and Communications

KEVIN FRIEDMAN – Senior Manager of Marketing and Communications  
AKANKSHA DUREJA – Senior Communications Specialist  
ULRIKE “RIKA” PENK – Senior Communications Associate

### Business Development

ANNE RAMZY – Business Development Manager  
JOANNA JIMENEZ – Business Development Manager  
SHADS SHADWICK – Business Development Associate

### Administration

KRISTIE STEELE – Senior Human Resources Manager  
RONALD TRAN – Senior Finance Manager  
MARIA CLARK – Systems Manager  
SHELLEY PRANGE – Senior Human Resources Associate

## Board

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BEN FARROW – Treasurer  
ROMÁN PARTIDA-LÓPEZ – Secretary  
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NICK NIGRO  
PAM FANN  
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SEAN BAGSBY  
STANI BAKER  
TEREA MACOMBER  
TIM MCMAHAN  
WAYNE KILLEN

