







At the end of 2019, a decade's worth of effort across state government had helped position Michigan as the global mobility leader.

To further support and solidify those efforts, Governor Whitmer created the Michigan Office of Future Mobility and Electrification (OFME) in February 2020.

OFME was designed to be both an air traffic controller, and a rocket booster, for all the good work already happening in mobility across the state.



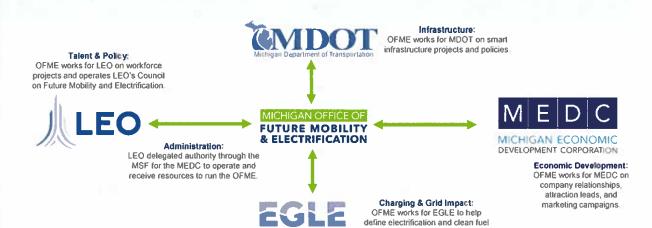
#### **OFME Vision:**

A stronger state economy through safer, equitable, and environmentally—conscious transport for all Michigan residents.

#### **OFME Objectives:**

- Increase Mobility Investment in MI.
- Lead the World in Mobility and EV
   Startups and R&D.
- Expand MI's Smart Infrastructure.
- Grow EV Adoption
- Further Enable MI's Mobility Workforce.
- Bolster MI's Mobility Manufacturing Core

**Executive Directive 2020-1** from the Governor Whitmer charged the OFME with coordinating a statewide approach for future mobility and electrification that bolsters Michigan's economy, workforce, environment, and infrastructure priorities. That is why OFME is nestled between the four departments responsible for these priorities, creating the "tools" and "extra hands" necessary to help these teams maintain mobility leadership.



policy.



#### Connectivity

Expand the networks of industry players and government partners.

- Over the past two years, OFME has made over
   2,000 qualified introductions for 416 Michigan industry, university, and government partners.
- On average, OFME has made 4 introductions per business day for Michigan stakeholders since October 2020.

#### **Partnership**

Mine newly-expanded networks for partnership opportunities between the public and private sectors.

- OFME worked with MEDC, LEO, EGLE, MDOT, and EOG to generate 89 publicprivate partnerships around the state. This comes to 3 per month since October 2020.
- Deployments included rural EV charging solutions, EV workforce training, drone deliveries of food and medicine, better transit options, grid resiliency innovations, and AI for safer traffic intersections.

#### **Investment**

Use new partnerships to develop projects that attract investors.

- Working with MEDC, LEO, MDOT, EGLE and EOG, OFME uncovered nearly a half-billion (\$478,585,473) to support future mobility projects in Michigan.
- On average, for every grant dollar OFME has awarded to deploy a new technology in a Michigan community, \$3,500 has been provided by industry as match to sustain the deployment.

#### **Innovation**

Turn new investment into statement wins for Michigan.

 Deep collaboration between OFME, MEDC, LEO, MDOT, EGLE, and EOG to design the future of mobility has created several dynamic firsts in only two years.



OFME collaborations with MEDC, LEO, MDOT, EGLE, and EOG have averaged **one published article per business day** since October 2020. This amounts to over **500 local and national articles**.

### **⊚**CBS NEWS

A road in Detroit will charge an electric car while driving

### CAR DRIVER

Michigan Will Build Out EV Charging Stations for Lake Michigan Road Trips

### **FAST@MPANY**

Why e-bike maker Vela is ditching China for Detroit

### **Forbes**

5 Reasons Michigan Has Become The "Silicon Valley Of Mobility Tech"



EV charging infrastructure proposed for 7

Michigan highways



Michigan plans to redesign a stretch of road for self-driving cars

### engadget

Detroit lets automakers test smart parking technology in a real garage

### yahoo!finance

Ford International Airport Launches FLITE to Develop, Introduce New High-Tech Air Travel Solutions

### The Detroit News

Council recommends steps for Michigan to bolster mobility

### Detroit Free Press

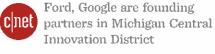
National Park Service partners with Michigan to provide equitable access to national parks



5 Midwestern governors agree to create a network to charge electric vehicles



Ontario and Michigan partner on cross-border drone study



sentinel v com

Whitmer helps launch EV charging stations at State Parks

#### **Automotive News**

Why FLO chose Michigan to build EV chargers



### Under Governor Whitmer's Leadership, Michigan has:

• Over 28,000 new jobs in the auto industry and maintained Michigan's position as America's #1 automotive R&D and manufacturing state.

- Made the largest education investment in state history to prepare future generations of Michiganders for careers in mobility and EVs.
- Set Michigan on a path to carbon neutrality by 2050, which includes a worryfree, statewide electric vehicle charging network before 2030.
- Continued to fix Michigan's roads, while also futureproofing with multiple American firsts like the first AV vehicle corridor, and first wireless charging corridor for electric vehicles.
- Led national mobility policy conversations that included the creation of the first 5state compact in the Midwest to focus on EV adoption and 7-state compact

in the Midwest to focus on the development of a hydrogen economy.

Michigan's mobility sector has momentum.



### Michigan's Biggest Mobility Challenges This Decade:

- Fierce competition for new mobility jobs.
- Fierce competition for new R&D and risk capital investment.
- Transitioning Michigan's workforce from traditional ICE skillsets to emerging AV and EV skillsets.
- Transitioning Michigan's infrastructure and grid from primarily serving ICE vehicles to also serving EVs and AVs.
- Ensuring that state regulatory environments keep pace with the domestic and global markets.
- As the lead source of emissions pollution, decarbonizing the transportation sector is key to fighting climate change.

But there are challenges ahead.





To address these challenges, state leaders, with guidance from industry and academia, came together to construct the MI Future Mobility Plan.

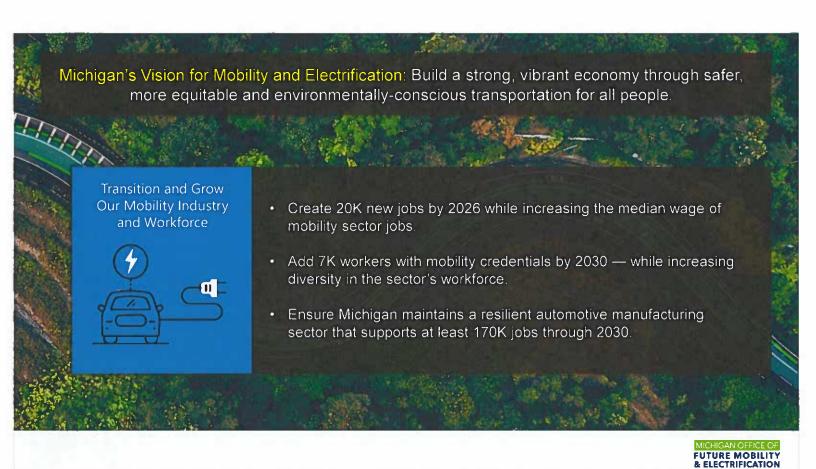
- Executive Office of the Governor
- Michigan Office of Future Mobility and Electrification
- Michigan Council on Future Mobility and Electrification
- Michigan Department of Labor and Economic Opportunity
- Michigan Department of Environment,
   Great Lakes and Energy

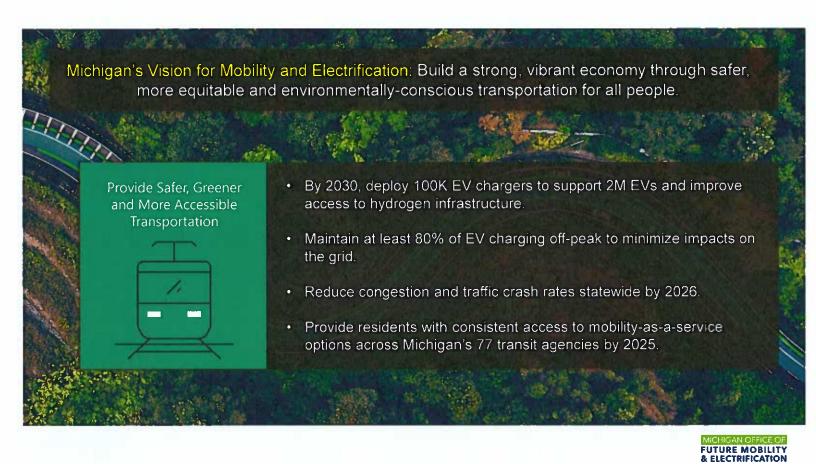
- Michigan Department of Transportation
- Michigan Department of Natural Resources
- Michigan Department of Insurance and Financial Services
- Michigan Department of Treasury
- Michigan State Police
- Michigan Economic Development Corporation
- Michigan Public Service Commission

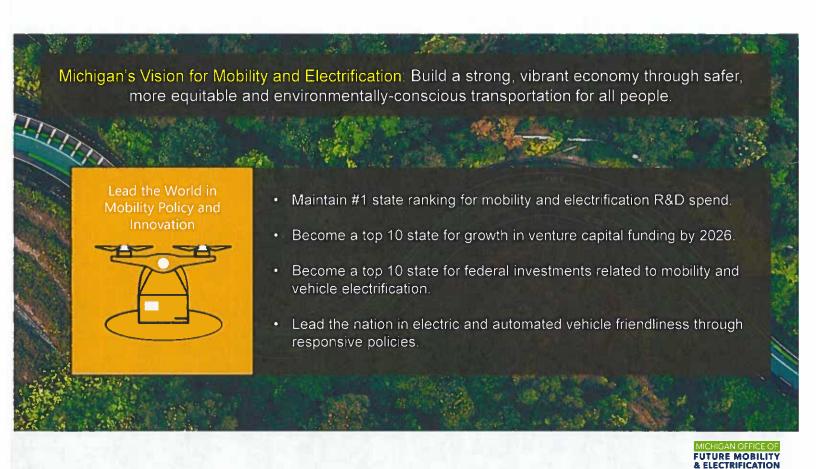




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# Detroit Free Press

GM to invest historic \$7 billion in 4 facilities across Michigan, creating 4,000 jobs

### INSIDEEVS

LG Energy Solution
Announces \$1.7 Billion
Plant Expansion In Michigan



Ford to invest \$2 billion in Michigan, create 3,200 jobs

## **The Detroit News**

Canadian EV charging company opens Auburn Hills production facility

## THE WALL STREET JOURNAL.

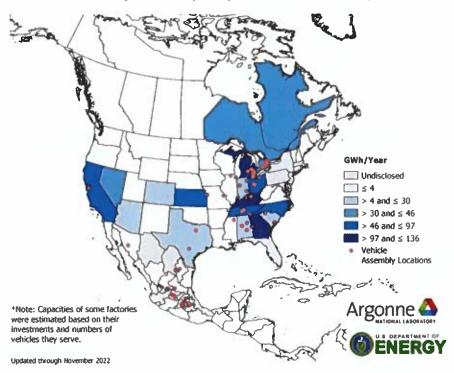
Former Apple Car Executive's Battery Startup Plans \$1.6 Billion Factory in Michigan

## **Automotive News**

Details emerge on \$2.4 billion EV battery plant in West Michigan



### Planned Battery Plant Capacity in North America by 2030

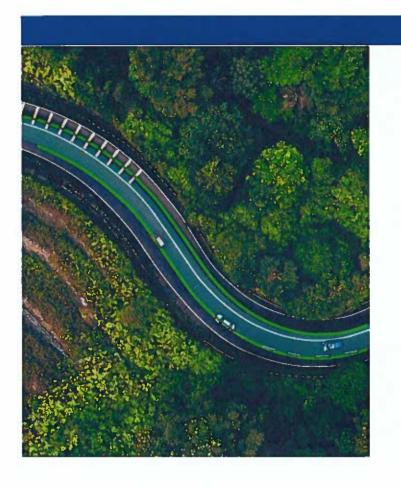




These states will dominate EV battery manufacturing in 2030

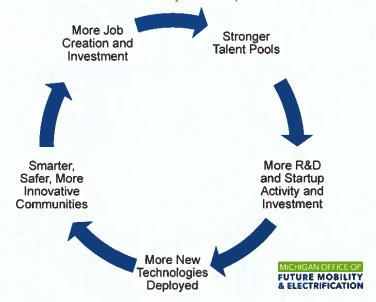


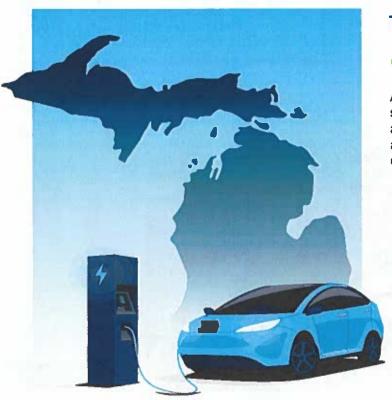




## Implementation Approach

Our Approach is to launch and grow programs that create the right set of conditions for economic and community development





## The EV Jobs Academy

(EVJA)

An employer-led collaborative comprised of over 100 stakeholder partners to identify the electrified vehicle and mobility-related occupational skill needs, develop and scale postsecondary credentialing programs 32 colleges and universities statewide.



## University of Michigan Battery Lab

\$130 Million for new EV Training and Battery Fabrication Center



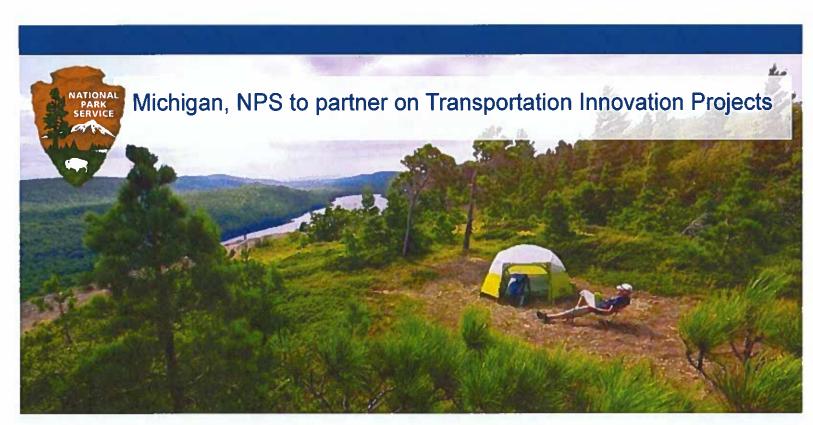
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## Lake Michigan Circuit

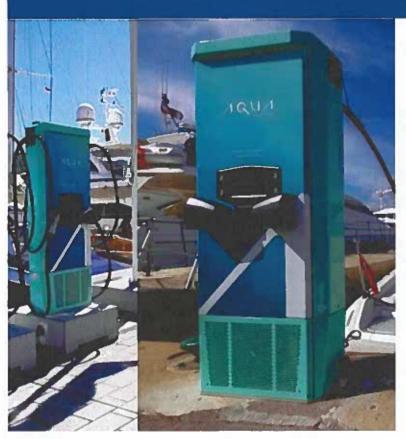
Partnership Between Indiana, Illinois, Wisconsin and Michigan





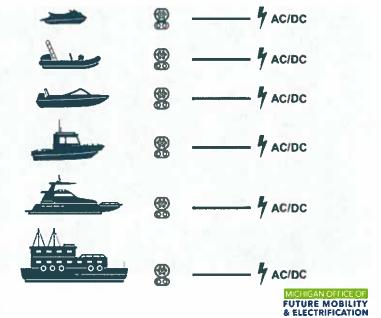


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## Marine Electrification & Innovation

On Northern Lake Michigan Waterways



## **Inductive Charging Roadway**

First in North America on a Public Road



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## **REV Midwest**









# **EV Ready Communities**



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# The Michigan Mobility Funding Platform







## The Council on Future Mobility & Electrification

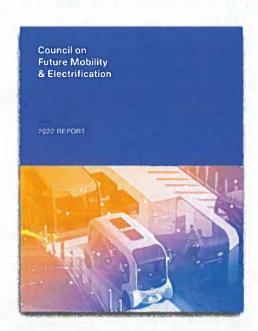
### 2022 Report & Recommendations

#### **Public Members**

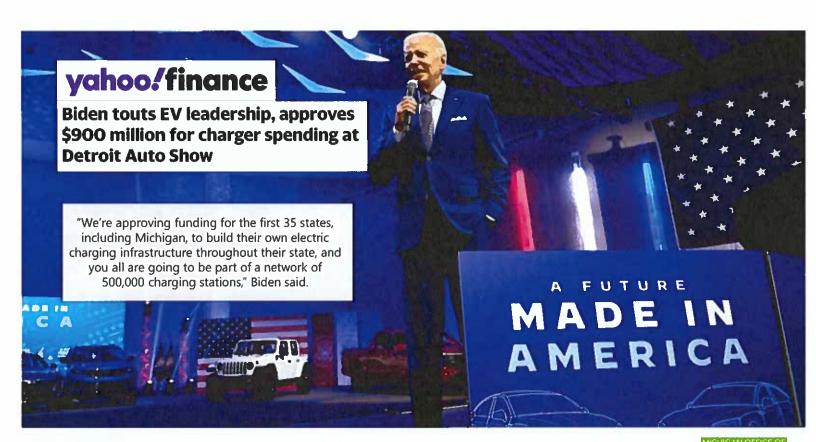
- State Dept. Labor (LEO)
- State Dept. Transportation (MDOT) •
- State Dept. Environment (EGLE)
- State Dept. Energy (MPSC)
- State Dept. Insurance (DIFS)
- State Dept. Police (MSP)
- State Dept. Investments (Treasury)
- Senate Majority and Minority
- Legislators
- Clean Fuels Michigan

#### **Private and University Members**

- University of Michigan
- · Michigan State University
- · United Auto Workers
- Ford Motor Company
- · General Motors
- Stellantis
- Toyota
- Rivian
- Waymo







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### Fiscal Year 2023 Executive Budget

\$500M SOAR Fund

\$230M Transformational Education Infrastructure

\$50M Electric Vehicle Rebates

\$23M Energy Efficiency Grants

\$25M Mobility Futures Initiative (supplemental)

\$10M State Fleet Electric Vehicles

# Fiscal Year 2024 Executive Budget Recommendation

\$500M SOAR Fund

\$350M BIL, CHIPS, & IRA Match

\$200M Onshoring Clean Energy Supply Chain Tax Credit

\$160M Intermodal Capital Investment Grants

\$150M School Bus Electrification

#### \$65M Electric Vehicle Charging Infrastructure

\$45M Michigan Clean Fleet Initiative

\$10M State of Michigan Fleet Transition

\$48.4M Electric Vehicle Sales and Use Tax Exemption

\$15M Critical Mineral Recycling Research

\$5M EDA Global Epicenter of Mobility (supplemental)

\$2M Arsenal of Innovation Fund



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Thank you!

www.michigan business.org/ofme