

The Epicenter of Mobility

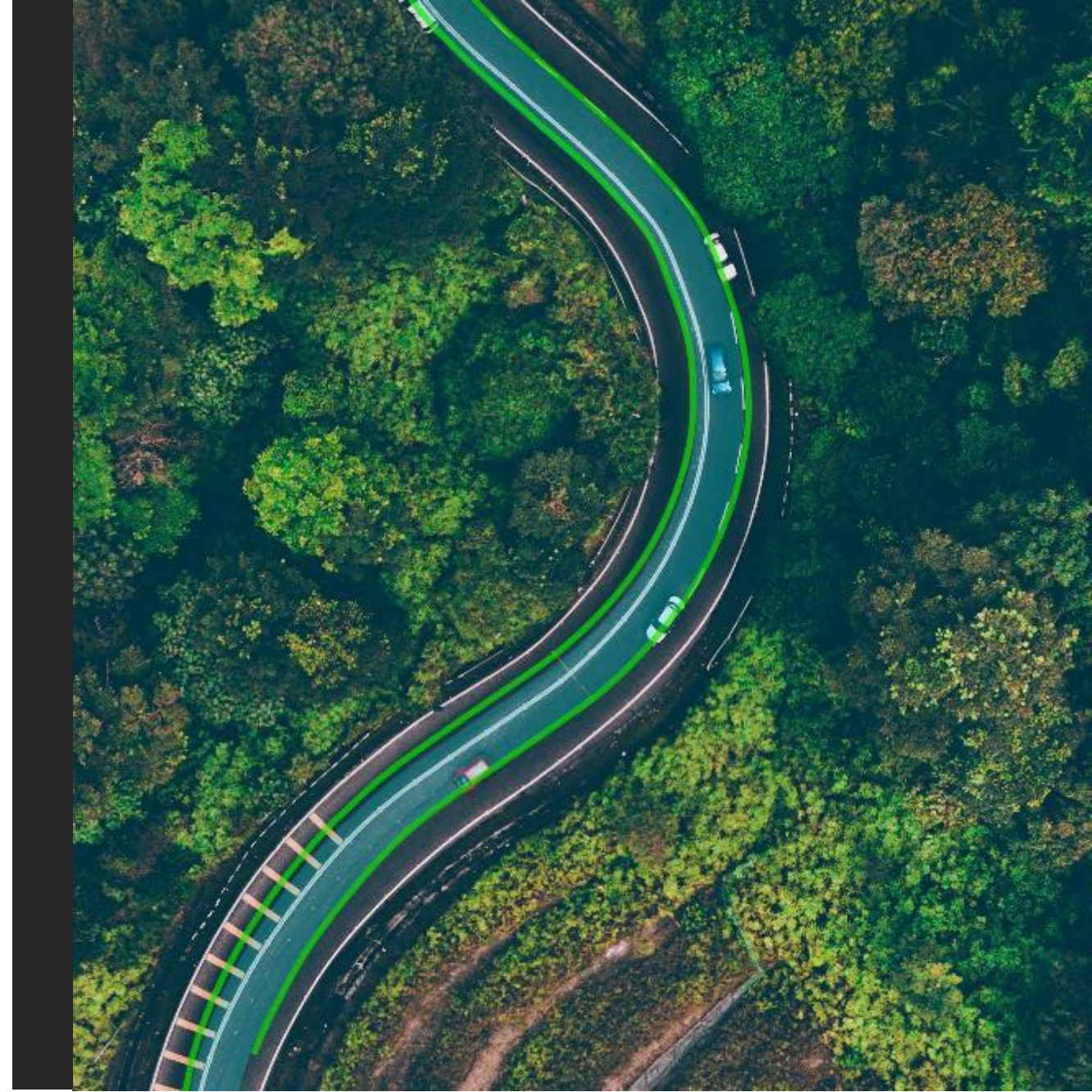
Brad Wieferich, Acting Director of Michigan Department of Transportation





MI Future Mobility Plan

Final Version
November 2022



Council on Future Mobility & Electrification

The Council will serve in an advisory capacity to LEO and the Office of Future Mobility and Electrification, the governor, and the legislature, providing annual recommendations on changes in state policy.

Public Members	Private and University Members
State Dept – Labor (LEO)	University of Michigan
State Dept – Transportation (MDOT)	Michigan State University
State Dept – Environment (EGLE)	United Auto Workers
State Dept – Energy (MPSC)	Ford
State Dept – Insurance (DIFS)	General Motors
State Dept – Police (MSP)	Stellantis
State Dept – Investments (Treasury)	Toyota
Senate Majority and Minority	Rivian
House Majority and Minority	Waymo
Governor's Office	Energy Innovation Business Council



Michigan's Vision for Mobility and Electrification:

Build a strong, vibrant economy through safer, more equitable and environmentally conscious transportation for all people.

Transition and Grow Our Mobility Industry and Workforce



- Create 20K new jobs by 2026 while increasing the median wage of mobility sector jobs.
- Add 7K workers with mobility credentials by 2030 — while increasing diversity in the sector's workforce.
- Ensure Michigan maintains a resilient automotive manufacturing sector that supports at least 170K jobs through 2030.

Michigan's Vision for Mobility and Electrification:

Build a strong, vibrant economy through safer, more equitable and environmentally conscious transportation for all people.

Provide Safer, Greener
and More Accessible
Transportation



- By 2030, deploy 100K EV chargers to support 2M EVs and improve access to hydrogen infrastructure.
- Maintain at least 80% of EV charging off-peak to minimize impacts on the grid.
- Reduce congestion and traffic crash rates statewide by 2026.
- Provide residents with consistent access to mobility-as-a-service options across Michigan's 77 transit agencies by 2025.

Michigan's Vision for Mobility and Electrification:

Build a strong, vibrant economy through safer, more equitable and environmentally conscious transportation for all people.

Lead the World in
Mobility Policy and
Innovation



- Maintain #1 state ranking for mobility and electrification R&D spend.
- Become a top 10 state for growth in venture capital funding by 2026.
- Become a top 10 state for federal investments related to mobility and vehicle electrification.
- Lead the nation in electric and automated vehicle friendliness through responsive policies.

Industry Disruption and Michigan's Transformation

Despite this disruption, Michigan has experienced a **consistent drumbeat of new investment** from companies that need customer proximity and reliable manufacturing expertise as the industry changes. **Over \$50B** in new OEM and supplier investment and **100,000 new jobs** from 2010 to now.

24 OEMs



2,200 Global EV and AV Suppliers



Hundreds of New Companies



Note: Not a Comprehensive List

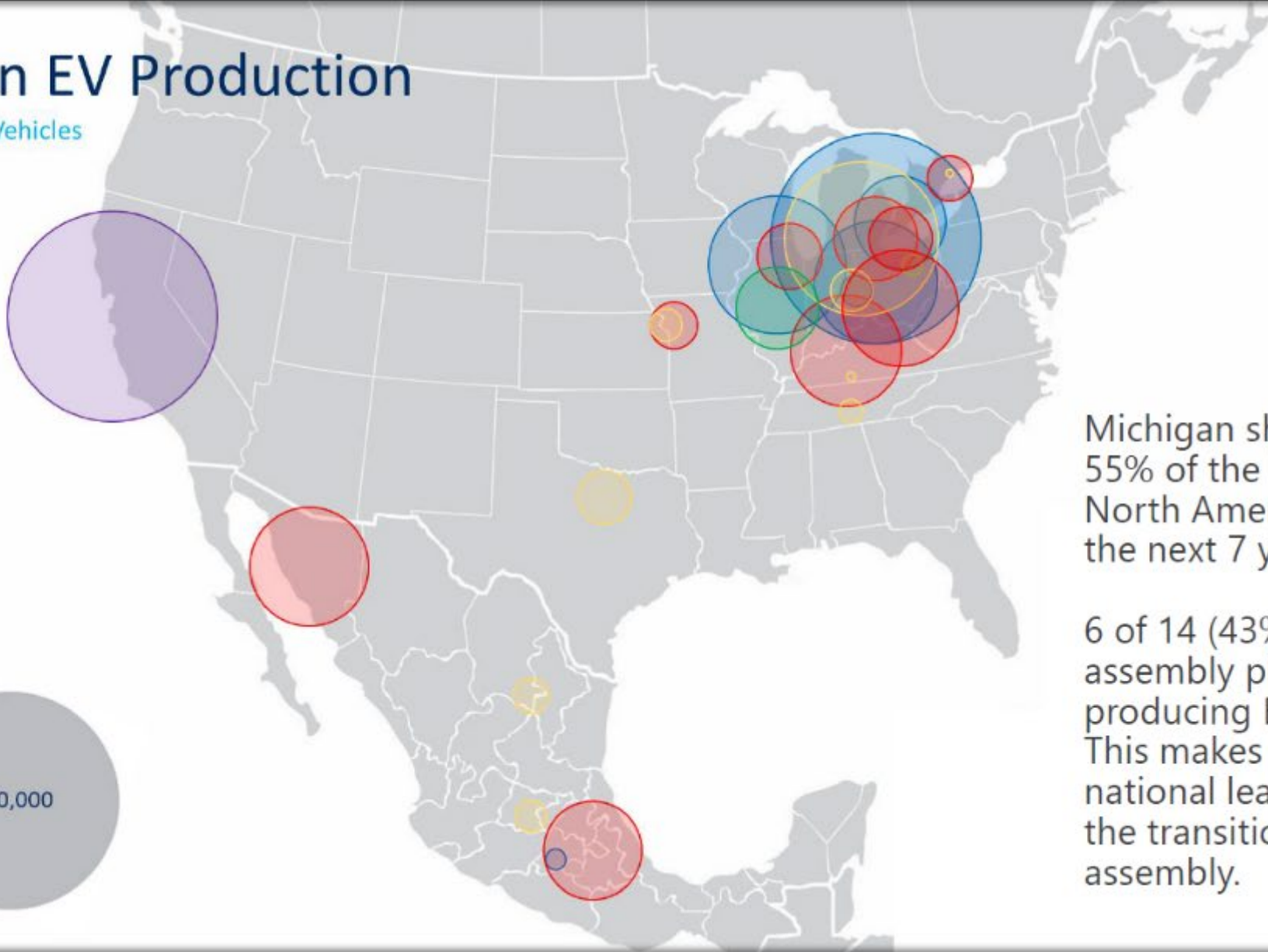
Industry Disruption and Michigan's Transformation

North American EV Production

Volume of EV/PHEV/HEV/MHEV Vehicles

2025

- Faraday
- Fiat Chrysler Automobiles
- Ford Group
- General Motors Group
- Lordstown Motors
- Rivian
- Tesla Motors
- Workhorse



Michigan should produce 55% of the Detroit Three's North American EVs over the next 7 years.

6 of 14 (43%) of Michigan assembly plants will be producing BEV's by 2025. This makes Michigan a national leader in making the transition to BEV assembly.

Source: CAR analysis of LMC Automotive data

Michigan also has the world's most diverse collection of mobility test sites for early and later stage technologies.



Mcity and M-Air at the University of Michigan



American Center for Mobility in Southeast Michigan



Kettering Mobility Research Center in Flint



Michigan Unmanned Aerial Systems Consortium in Northern Michigan



Keweenaw Research Center (KRC) & Advanced Power Systems Research Center (APSRC) at MTU



Great Lakes Research Center (GLRC) at MTU



Detroit Smart Parking Lab



FLITE – Gerald R. Ford International Airport Innovation Lab

Michigan is Taking a Systematic, Multi-Faceted Approach to Smarter and Cleaner Mobility



EV Infrastructure Facet: Worry-Free Statewide EV Travel by 2030

The Charge Up Michigan Program is building out a DC fast-charging network and operating system.



Recreational Facet:

Lake Michigan EV Circuit EV route along Lake Michigan and key tourism clusters.



Fleet Transition Facet: Michigan Fuel Transportation Program

\$30M EGLE program to transition in-state diesel fleets to low-emission or electric (across all modes of transportation).



Workforce Facet: MI Electric Vehicle Academy (MIREV)

Academy to help workers transition from ICE skillsets to battery electric skillsets by



Regional Policy Facet: 5-State Electric Vehicle Charging MOU

Michigan, Minnesota, Wisconsin, Illinois, and Indiana joined a compact to share operational & policy-based best practices.



Testing and Proving Facet: Wireless Charging Deployment

Deploying technology on a public road that allows for vehicles to charge in

Michigan is Taking a Systematic, Multi-Faceted Approach to Smarter and Cleaner Mobility





Michigan Airport to Experiment With More Autonomous Tech



Cities Today

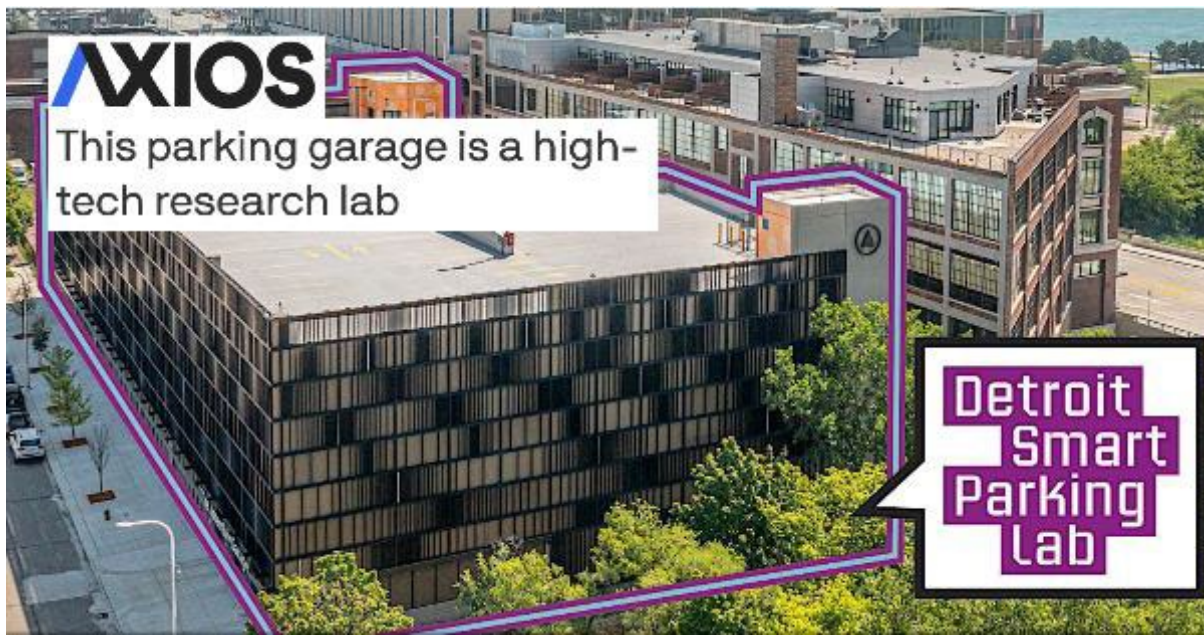
Connecting the world's urban leaders

Michigan and Ontario developing international drone mobility corridor

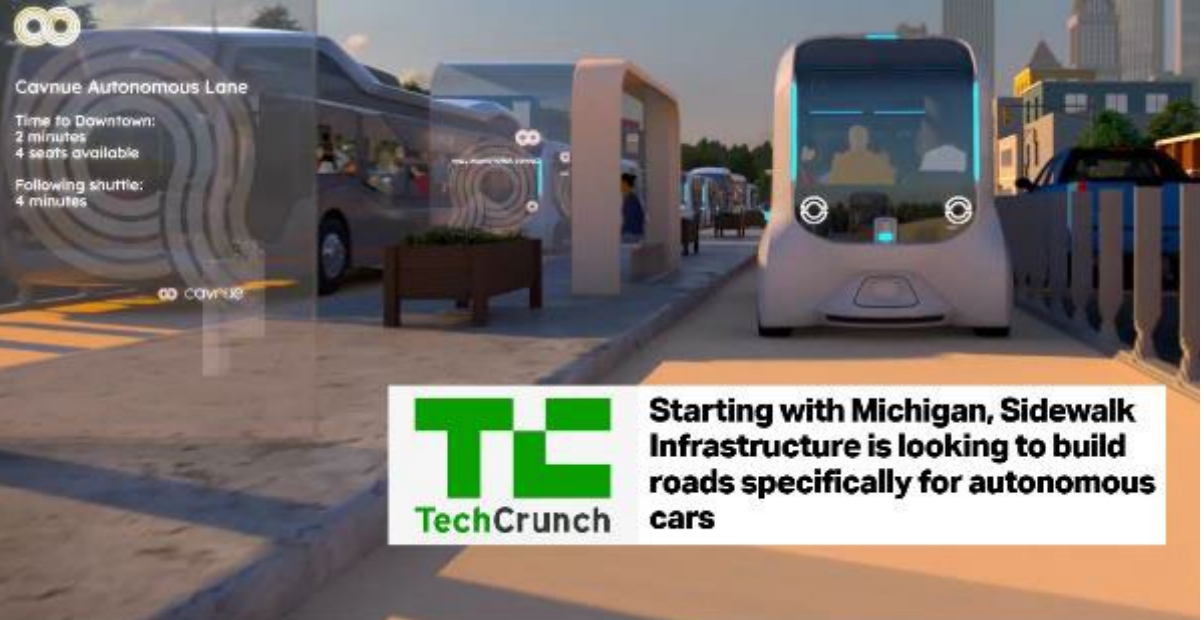


AXIOS

This parking garage is a high-tech research lab



Detroit Smart Parking Lab



Cavnue Autonomous Lane
Time to Downtown:
2 minutes
4 seats available
Following shuttle:
4 minutes



Starting with Michigan, Sidewalk Infrastructure is looking to build roads specifically for autonomous cars



Michigan as the Epicenter of Mobility



UM Battery Lab

\$130 Million for a new EV Training Center and battery fabrication



FORTUNE

General Motors to spend \$7 billion on EV and battery plants in Michigan



Michigan Tech and Eagle Mine Partner for EV Battery Recycling Innovation and Climate Sustainability



Ford, Google, State of Michigan, and City of Detroit investing over \$850 million in a 1.2 million-square-foot campus focused on mobility innovation and startups.



Ford, Google are founding partners in Michigan Central Innovation District

Michigan: The largest mobility network in the world.

