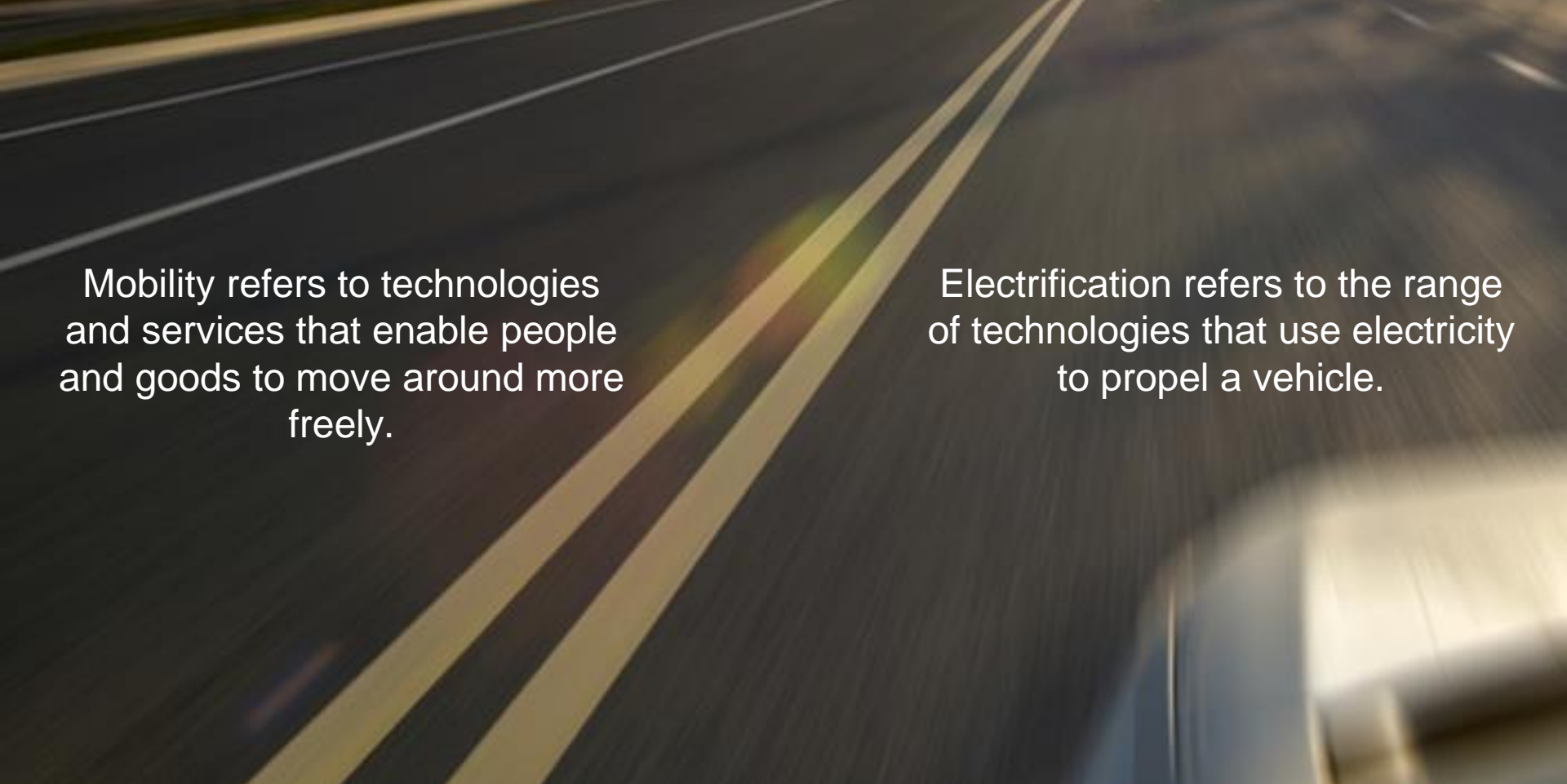




MICHIGAN OFFICE OF
**FUTURE MOBILITY
& ELECTRIFICATION**

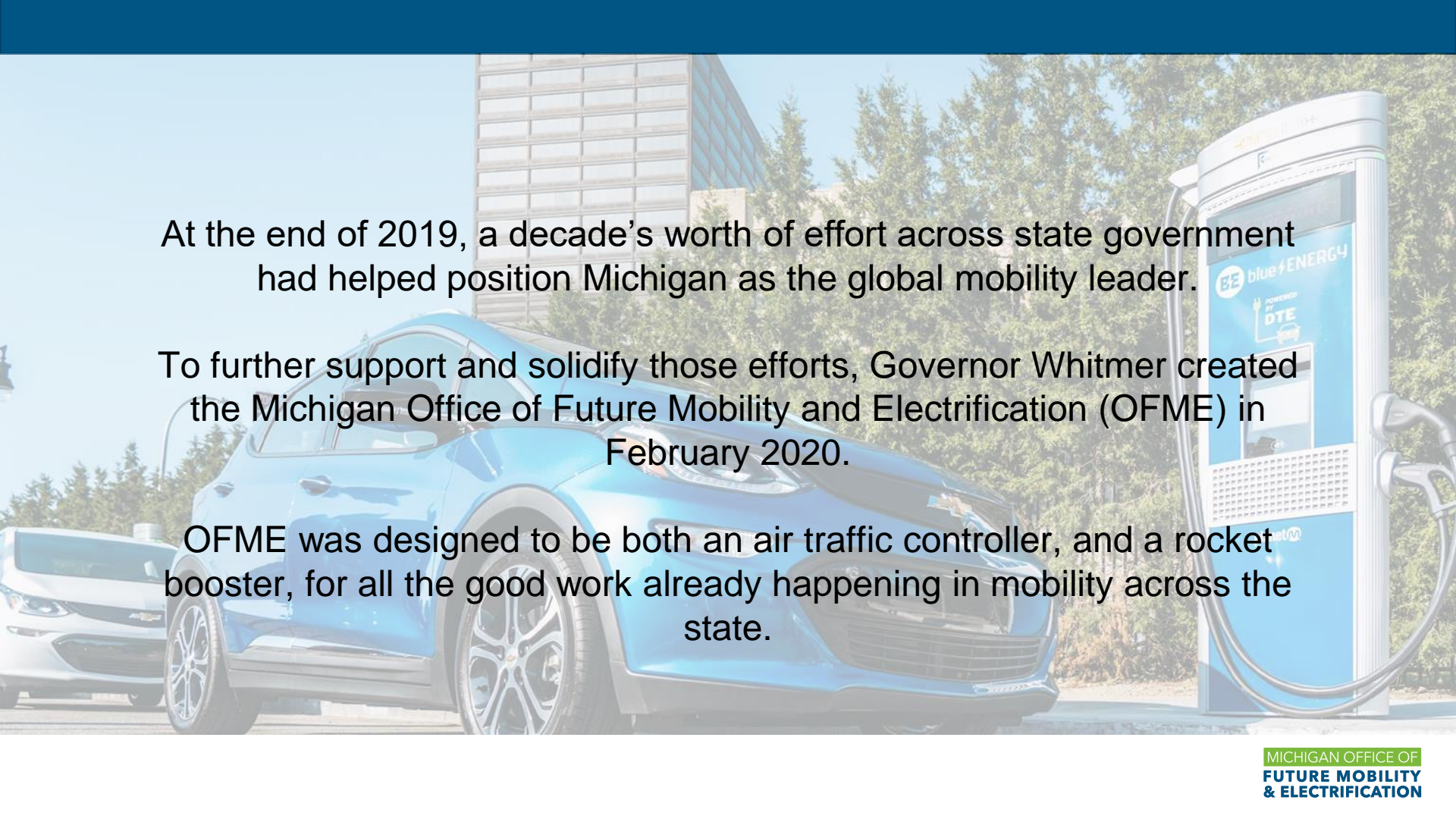
The background image shows a university campus scene. In the foreground, a man in a yellow t-shirt and a blue helmet is riding a bicycle towards the camera. To his right, another person is riding a bicycle with a cargo trailer. In the background, several people are walking on a paved path. A large, multi-story building with a covered walkway is visible in the distance. The entire image has a blue color overlay.

OFME Overview



Mobility refers to technologies and services that enable people and goods to move around more freely.

Electrification refers to the range of technologies that use electricity to propel a vehicle.



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.

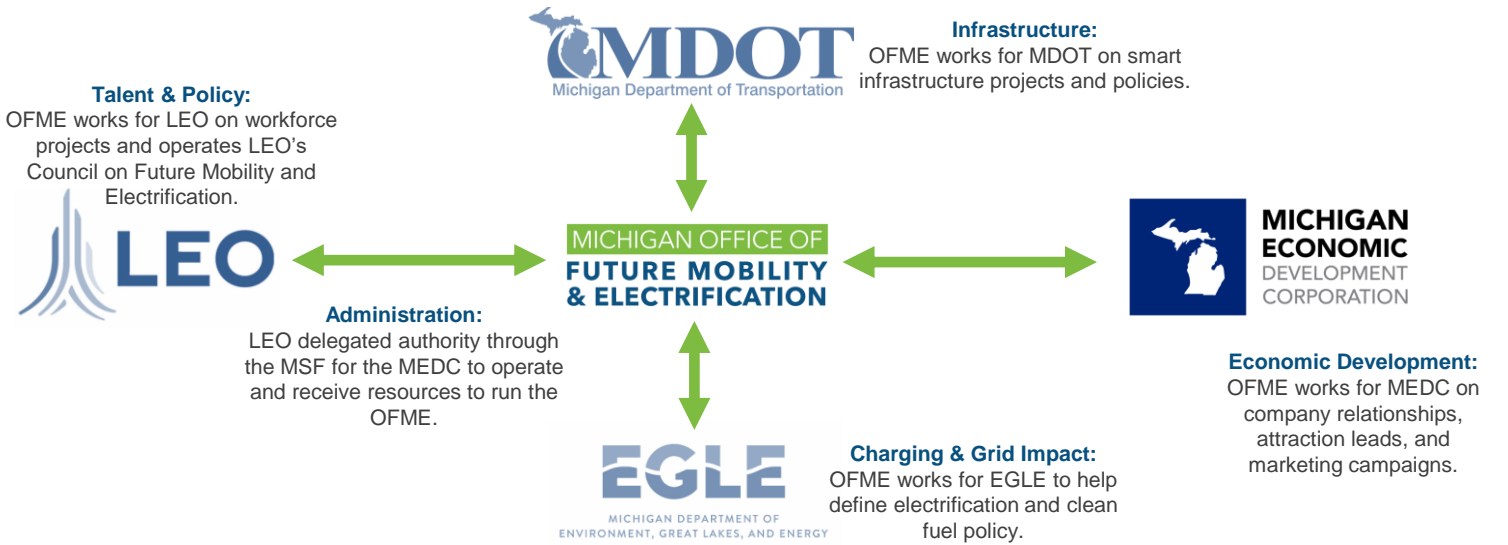
Executive Directive 2020-1 from the Governor Whitmer charged the OFME with coordinating a statewide approach for future mobility and electrification that bolsters Michigan’s economy, workforce, environment, and infrastructure priorities. That is why OFME is nestled between the four departments responsible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

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** in MI.
- Further Enable MI’s Mobility **Workforce.**
- Bolster MI’s Mobility **Manufacturing** Core.



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 public-private 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 AND DRIVER

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

FAST COMPANY

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



Ford, Google are founding partners in Michigan Central Innovation District

holland sentinel.com

Whitmer helps launch EV charging stations at State Parks

Automotive News

Why FLO chose Michigan to build EV chargers

Michigan's
mobility sector
has momentum.

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 worry-free, 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 5-state 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 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.

A futuristic, multi-rotor aircraft with a sleek, aerodynamic design is shown in flight over a city skyline at dusk. The aircraft has four large rotors and a central fuselage. The city below is illuminated with lights, and the sky is a deep blue with some clouds. The overall scene is presented in a monochromatic blue color scheme.

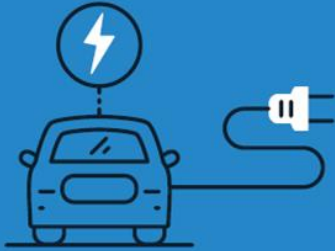
MI Future Mobility Plan

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

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



Provide Safer, Greener
and More Accessible
Transportation

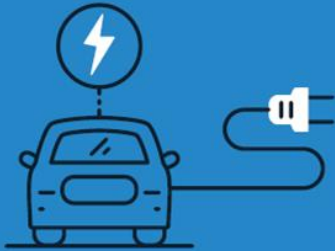


Lead the World in
Mobility Policy and
Innovation



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.

Detroit Free Press

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





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'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.

A photograph of Joe Biden speaking at a podium during the Detroit Auto Show. He is wearing a blue suit and holding a microphone. The background features a large American flag and a sign that reads "A FUTURE MADE IN AMERICA".

yahoo!finance

Biden touts EV leadership, approves \$900 million for charger spending at Detroit Auto Show

“We’re approving funding for the first 35 states, including Michigan, to build their own electric charging infrastructure throughout their state, and you all are going to be part of a network of 500,000 charging stations,” Biden said.

A FUTURE
**MADE IN
AMERICA**



Mobility

Ford-backed Cavnue seeks to rewire I-94 for self-driving cars

By: Nick Manes

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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.



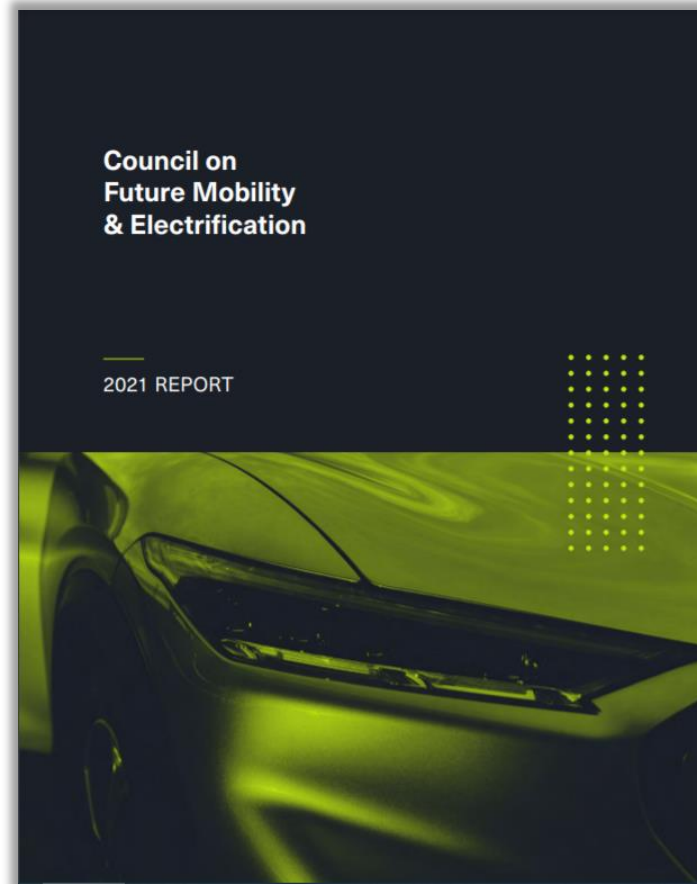
AXIOS

This parking garage is a high-tech research lab

Detroit
Smart
Parking
Lab

Council on Future Mobility & Electrification

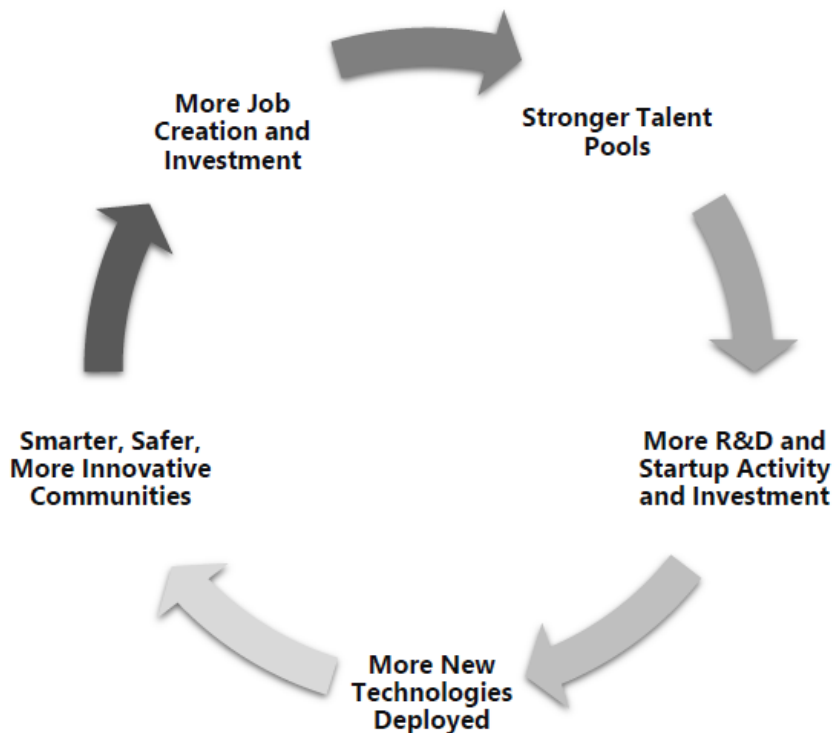
Public Members	Private and University Members
State Dept – Labor (LEO)	University of Michigan
State Dept – Transportation (MDOT)	Michigan State University
State Dept – Environment (EGLE)	United Auto Workers
State Dept – Energy (MPSC)	Ford
State Dept – Insurance (DIFS)	General Motors
State Dept – Police (MSP)	Stellantis
State Dept – Investments (Treasury)	Toyota
Senate Majority and Minority	Rivian
Legislators	Waymo
Clean Fuels Michigan	





Implementation Approach:

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



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Thank you!