



**ATKINS**

 **electrotempo**

## Electrification Needs Assessment and Readiness Study – Board Meeting Presentation

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March 7, 2023



# Agenda

- Background and Study Purpose
- Key Stakeholders
- Technical Approach
- Existing Charger Coverage
- Future Charging Demand
- Global Best Practices Review
- Implementation Roadmap



# Study Area and Study Purpose

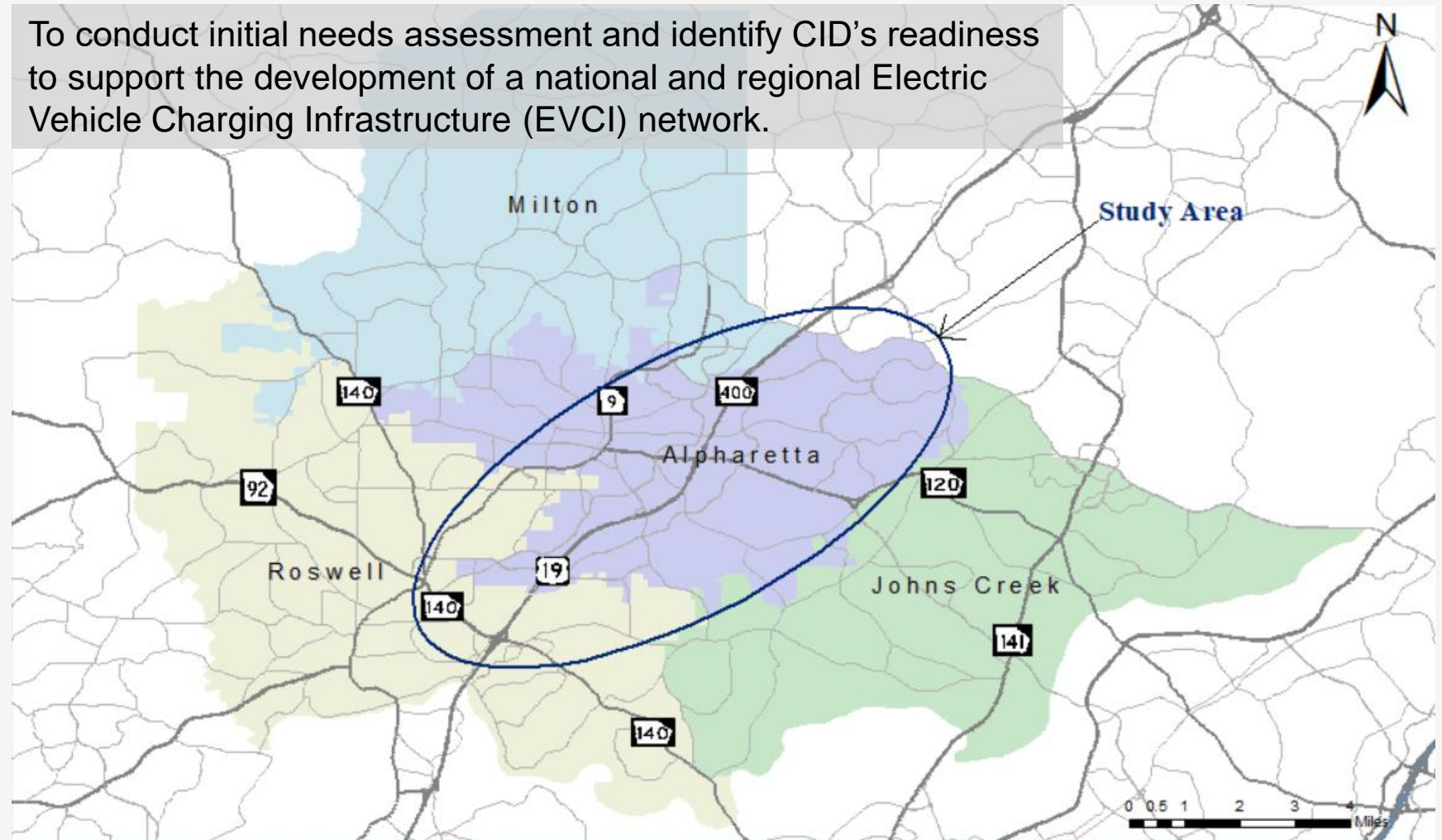
To conduct initial needs assessment and identify CID's readiness to support the development of a national and regional Electric Vehicle Charging Infrastructure (EVCI) network.

## Major Routes

- GA 400/ US 19
- SR 120
- SR 9
- SR 140
- Windward Pkwy, Webb Bridge Rd, Westside Pkwy, Haynes Bridge Rd, Kimball Bridge Rd, Mansell Rd, etc.

## Activity Centers

- North Point Mall
- Avalon
- Big Creek Greenway
- Ameris Bank Amphitheatre





# Planning and Regulatory Environment

## Legislation



Standards to reduce GHG emissions from LDVs by **1.5%** per year from MY 2021/2022  
**10%** by MY 2022/2023  
**5%** by MY 2023/2024  
**6.6%** by MY 2025/2026



## Ambition

**50%** share of ZEVs in passenger LDV sales by 2030



- \* Greenhouse Gas (GHG)
- \* Light Duty Vehicles (LDVs)
- \* MY (Model Year)
- \* Zero Emission Vehicles (ZEV)



## GEORGIA

In 2021

more than **4,000** EVs sold in Georgia

total annual growth of **29%** in sales



between 2021 and 2022

EV registrations increased by approximately **40%**  
 more than **42,500** EVs currently registered



Since 2020

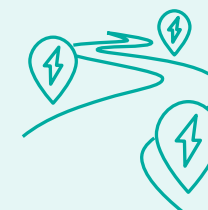
more than **30** EV-related projects have contributed over **\$13.3 billion** in investments in Georgia



**6th in the nation** for public EV charging stations offering more than **1,500** individual outlets



Georgia has more than **1,200 miles** of federally designated EV-ready AFCs along its interstates and highways I-16, I-20, I-75, I-85, I-95, I-185, I-575, and I-985

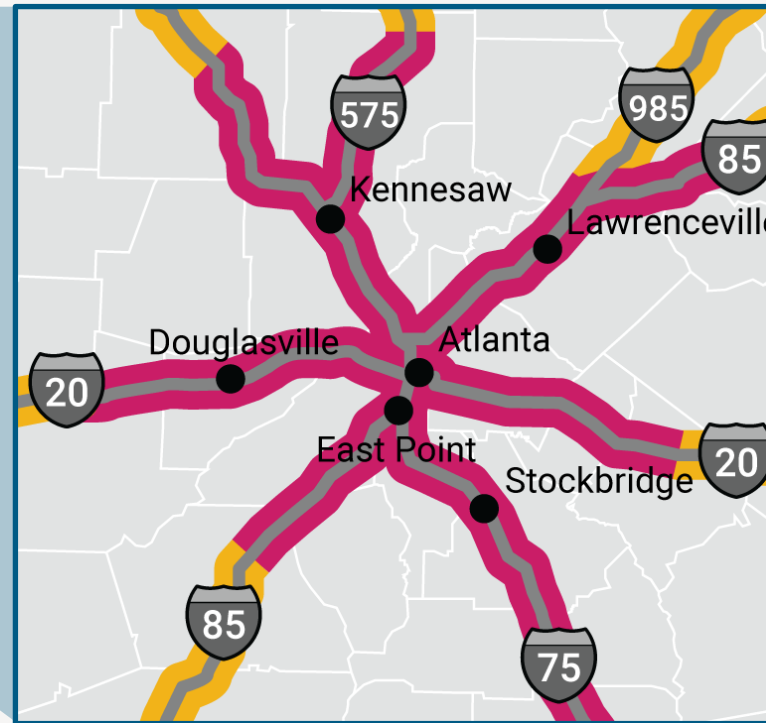
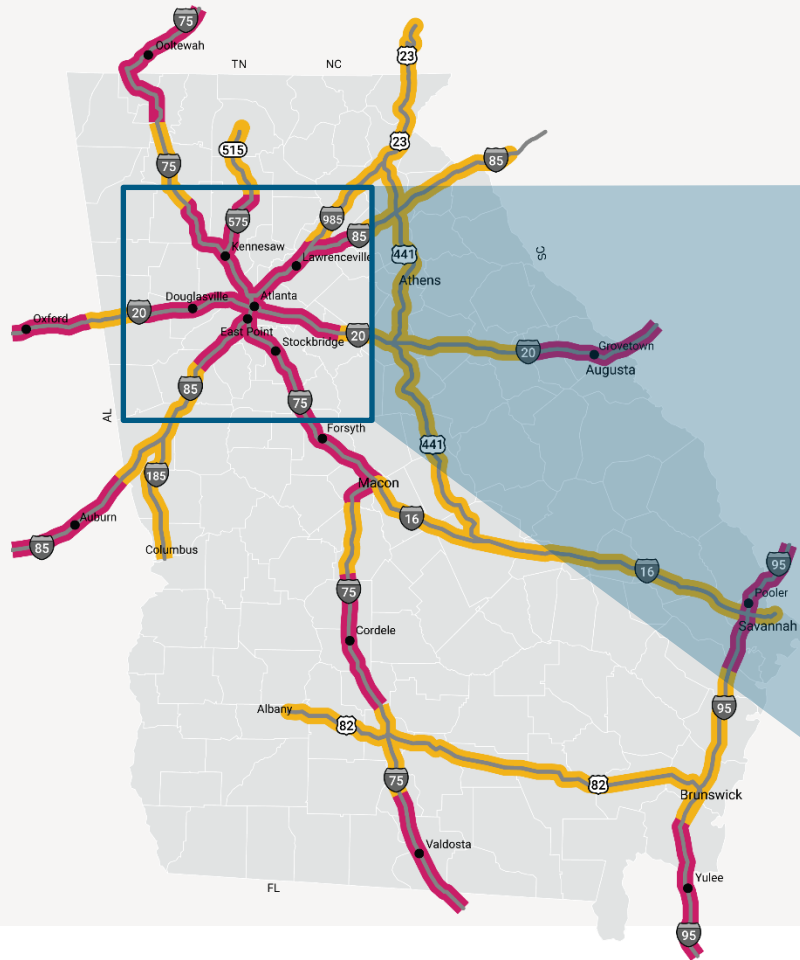


## NEWS

**ARTICLE**  
*Georgia's big bet on electric vehicle rollout rides heavily on state and federal backing*

**GPB.ORG**  
 January 31, 2023

# Georgia's Alternative Fuel Corridors (AFCs) in NEVI Deployment Plan



- Alternative Fuel Corridors (Round 1-6)
- NEVI-Compliant DCFC Stations
- 25 Mile NEVI DCFC Station Buffer
- Gaps in NEVI AFC Network

\* National Electric Vehicle Infrastructure (NEVI)

# Potential Key Stakeholders

## Utilities



## Local Governments



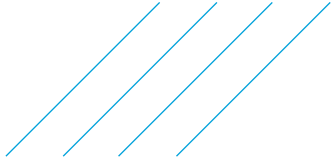
## State Agency



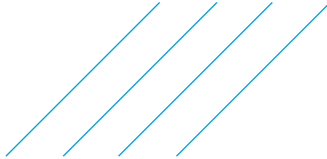
## EVSE Vendors



## Private Businesses



# Technical Approach

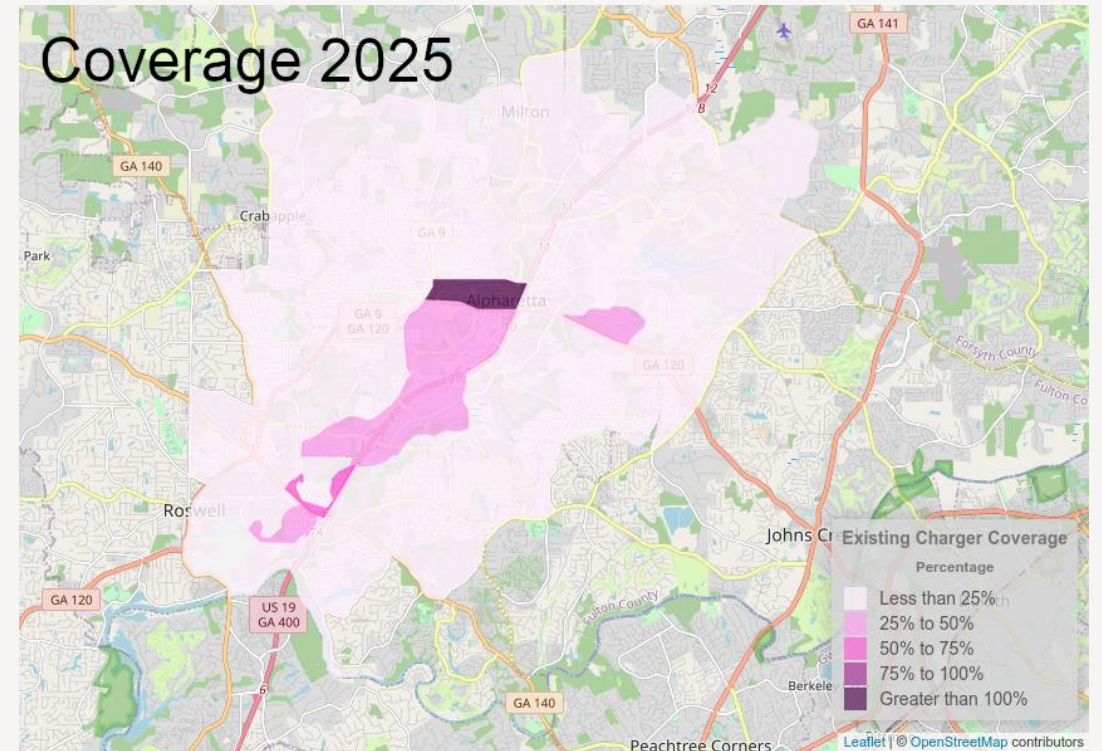
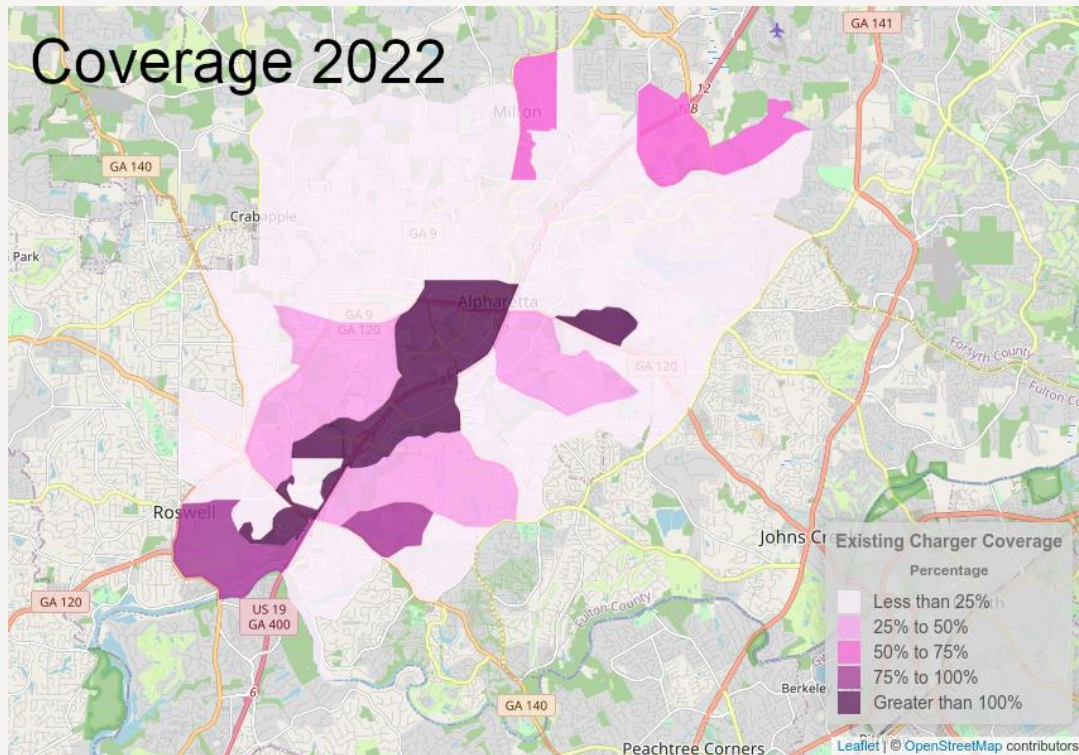




# Charger Coverage (2022 vs. 2025)

Charger Coverage = Available Power from Existing Chargers / (Predicted Workplace Charging Demand + Predicted Public Charging Demand)

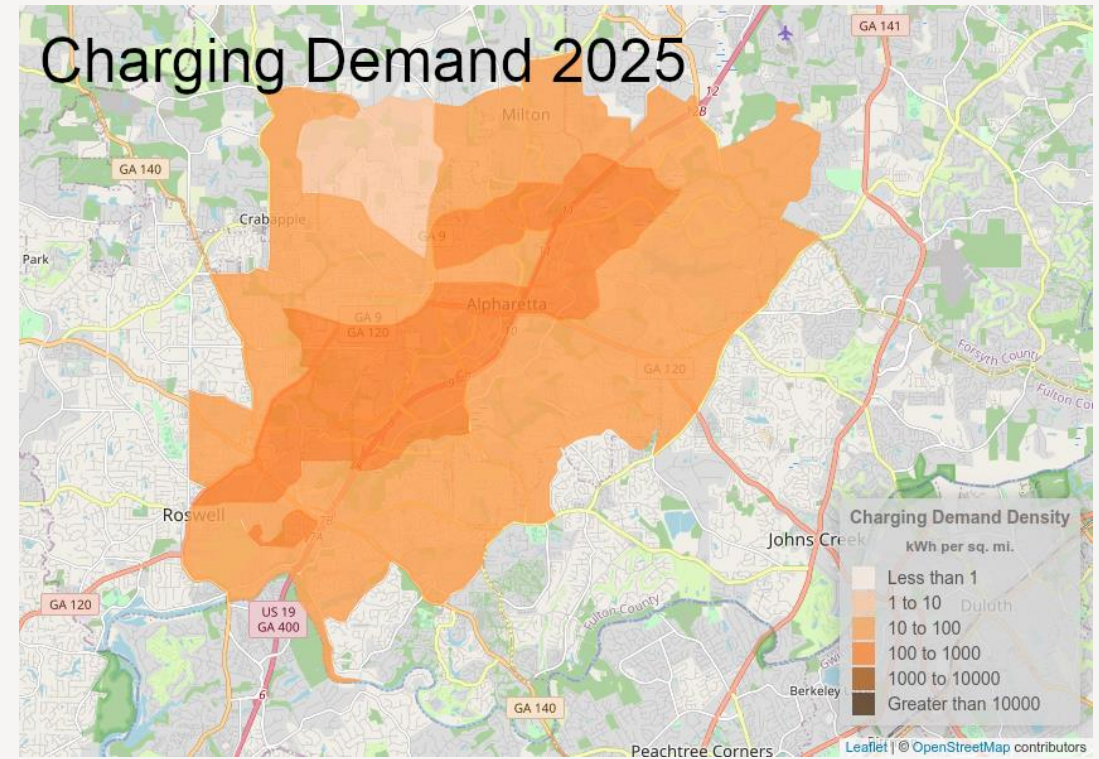
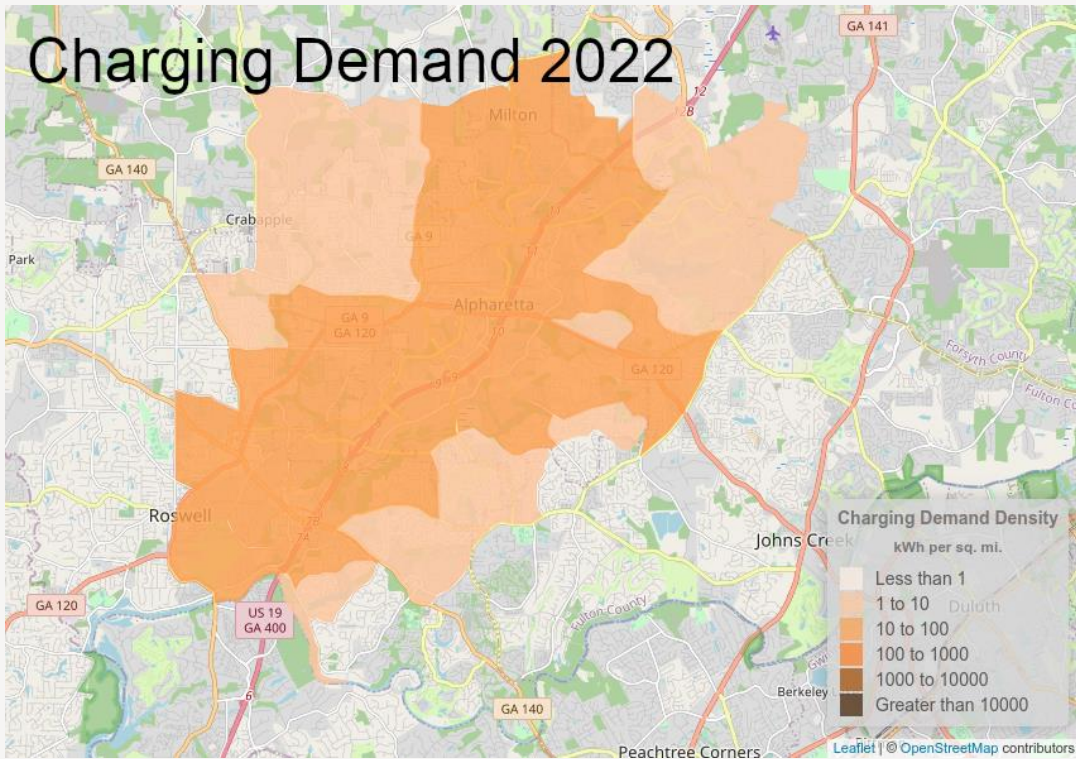
Source: ElectroTempo's EV Data Analytics



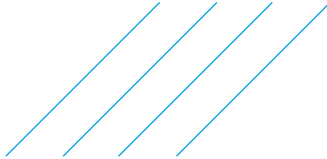
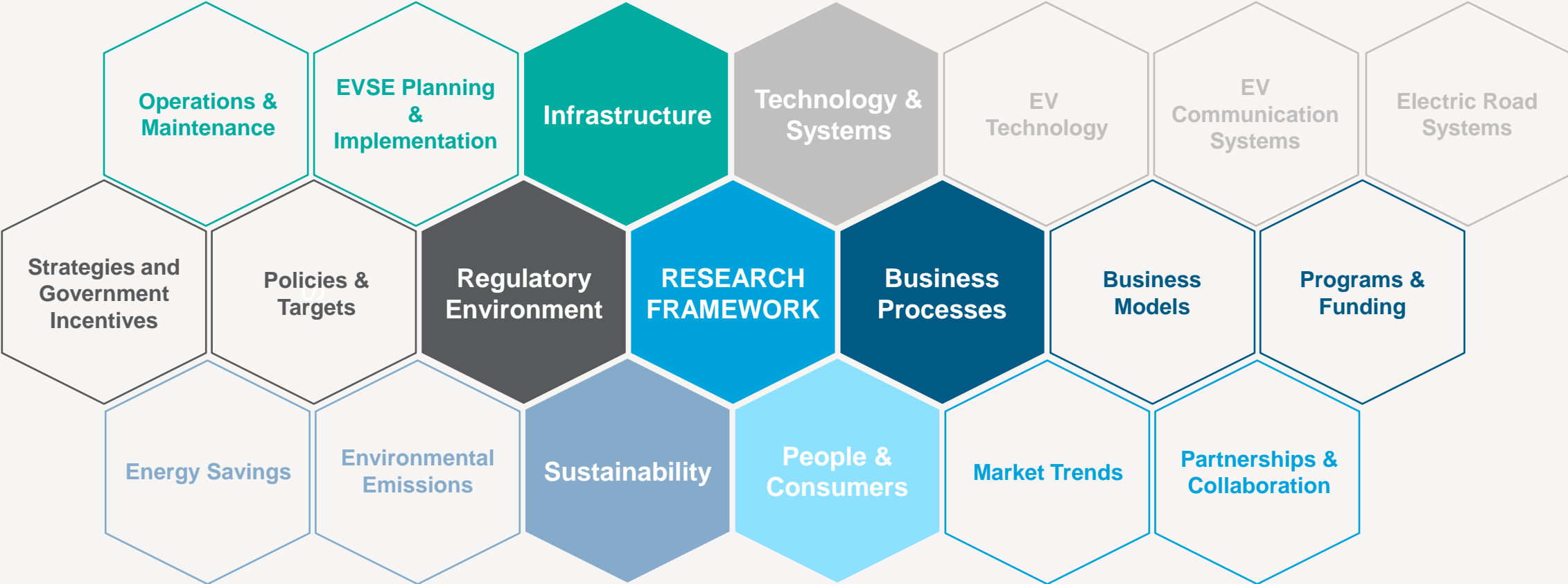


# Future Charging Demand (2022 vs. 2025)

Source: ElectroTempo's EV Data Analytics



# Global Best Practices Review



# Strategic Goals for Electrification in NFCID

Enhance economic development and property values

Optimize customer service

Improve physical access to EV charging

Secure funding for EV infrastructure

Optimize collaboration and partnerships

Align with federal, statewide, and local priorities

Develop policies and regulations

Establish marketing strategies



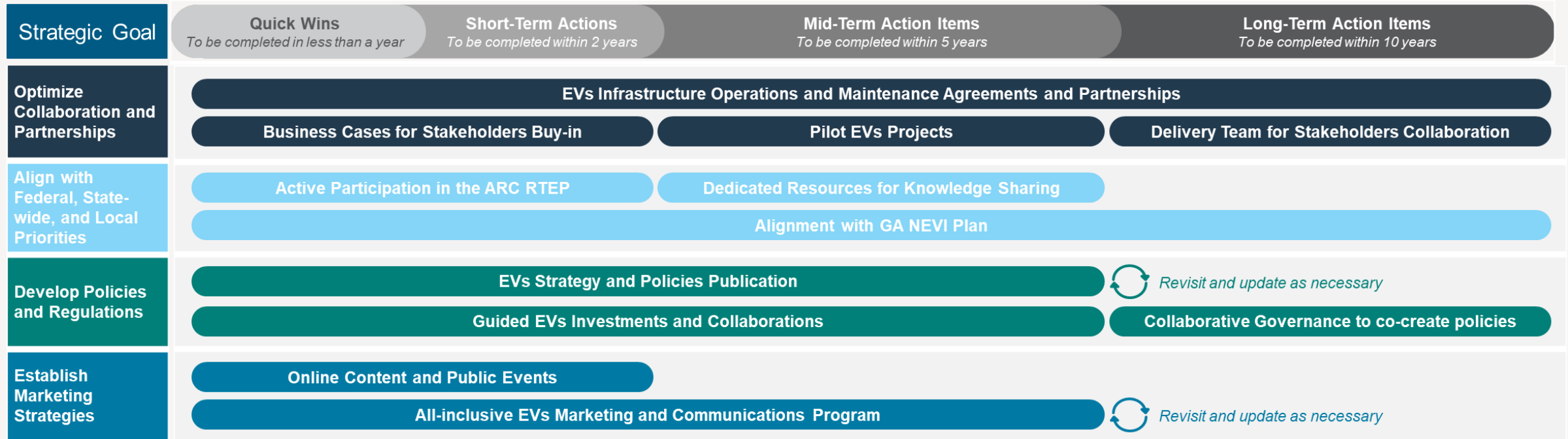


# Electrification Implementation Roadmap (Part 1 of 2)

Strategic Goal	Quick Wins <i>To be completed in less than a year</i>	Short-Term Actions <i>To be completed within 2 years</i>	Mid-Term Action Items <i>To be completed within 5 years</i>	Long-Term Action Items <i>To be completed within 10 years</i>
Enhance Economic Development and Property Values	Charging Needs Assessment		Streamlined EVSE planning and implementation	Implementation of public on-street DCFC network
	Implementation of Incentives and Tax Credits			
	Workforce Development			Assigned EV Champions
Optimize Customer Service	Stakeholders and Private Industry Engagement			
	Design and Implementation of Digital Application for Customers			
	Customer Feedback Collection	Consumer Education		Implementation of Private Business Incentives
Improve Physical Access to EV Charging	Development of NFCID Electrification Plan			Collaboration with Charging Networks
	Charging Infrastructure Request Process		Implementation of Smart City Solutions	
Secure Funding for EV Infrastructure	Applications for Federal Grants		Development of NFCID Strategic EVs Financial Plan	
	Non-federal Funding Strategies Development			



# Electrification Implementation Roadmap (Part 2 of 2)



## Short-Term Action Items (To be completed within 1-2 years)



**Coordinate with GDOT to add GA 400 to the AFCs in the NEVI plan.**

Identify charging “blackspots” in public, workplace, and residential settings.

Detailed assessment and site audits to verify charging needs.

Actively engage with businesses to understand future needs for workplace charging.

Secure EV grant team and apply for federal grants.

Integrate EV discussion in stakeholder meetings, briefings, etc.

Identify/develop targeted business cases for stakeholders buy-in.

Actively participate in the development of ARC’s Electrification Plan and GDOT NEVI 2.0.







**NORTH FULTON**  
COMMUNITY IMPROVEMENT DISTRICT



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## Electrification Needs Assessment and Readiness Study – Q&A

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