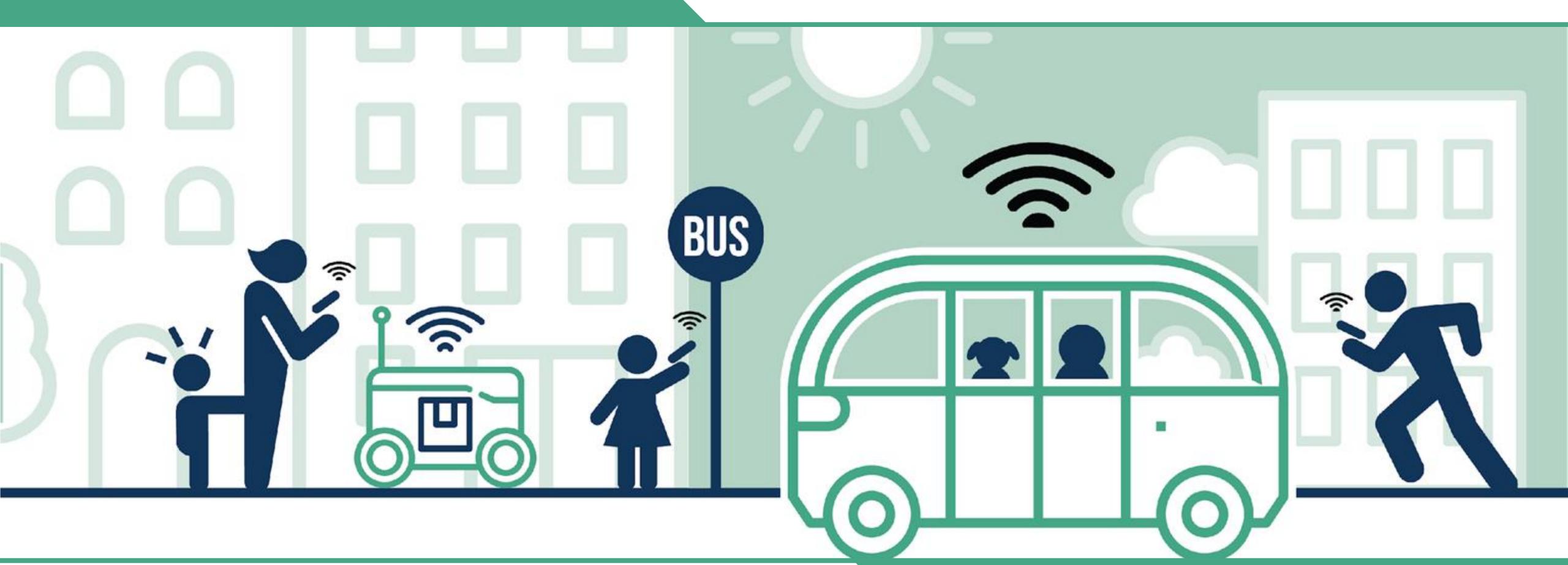


Connected and Automated Vehicle (CAV) Integration for Local Governments







MDOT: Connected & Automated Vehicle Toolkit

Baseline Investment

- Get familiar with terms and resources
- Clearly establish agency roles and responsibilities
- Join the national dialogue

Medium Investment

- Understand community vision and needs
- Assess land use and zoning
- Review workforce readiness
- Attract CAV deployment

High Investment

 Assess physical or digital infrastructure needs

Project Need

Provide guidance specific to Baltimore region on planning for Connected and Automated Vehicles (CAVs)





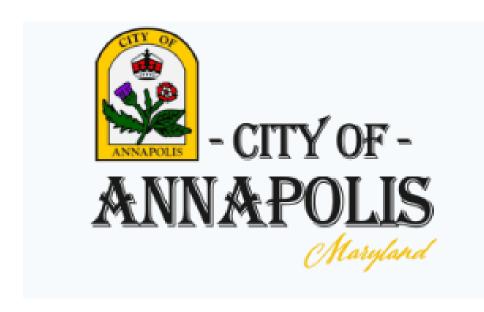


Actionable recommendations for local agencies to prepare

Project Overview

November Literature Review March Customized, Actionable Recommendations User Guide June Executive Summary for Leadership

CAV Steering Committee































CAV Lit Review

Introduction

What are Automated Driving Systems?

How are Automated Driving Systems being used?

Why do we need to plan for CAVs?

Best Practices for Planning CAV Impacts

Top Take-Aways from Literature Review

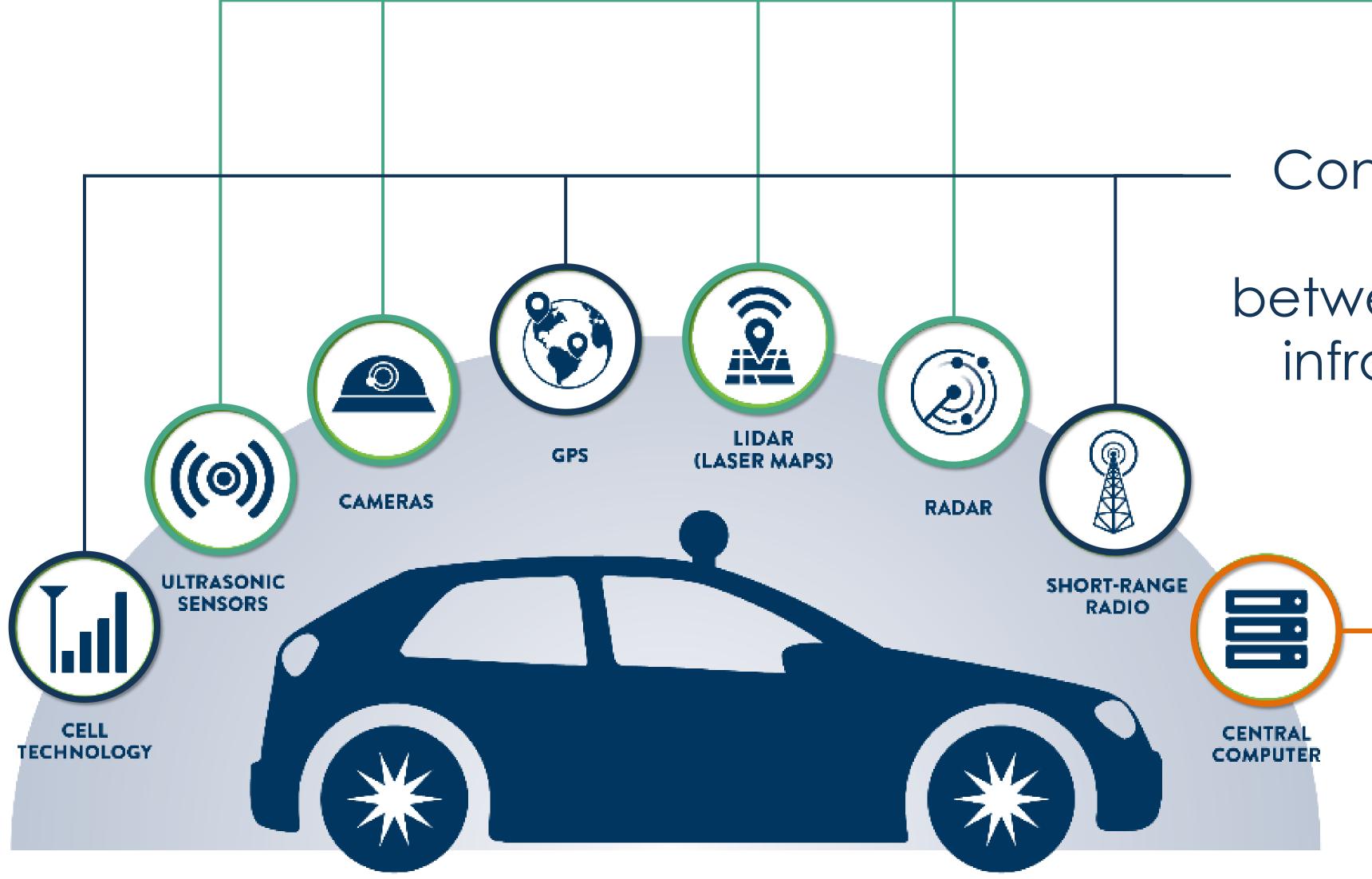
What are CAVs?

Sensors support automation

Connectivity lets CAVs share information between other vehicles, infrastructure, network

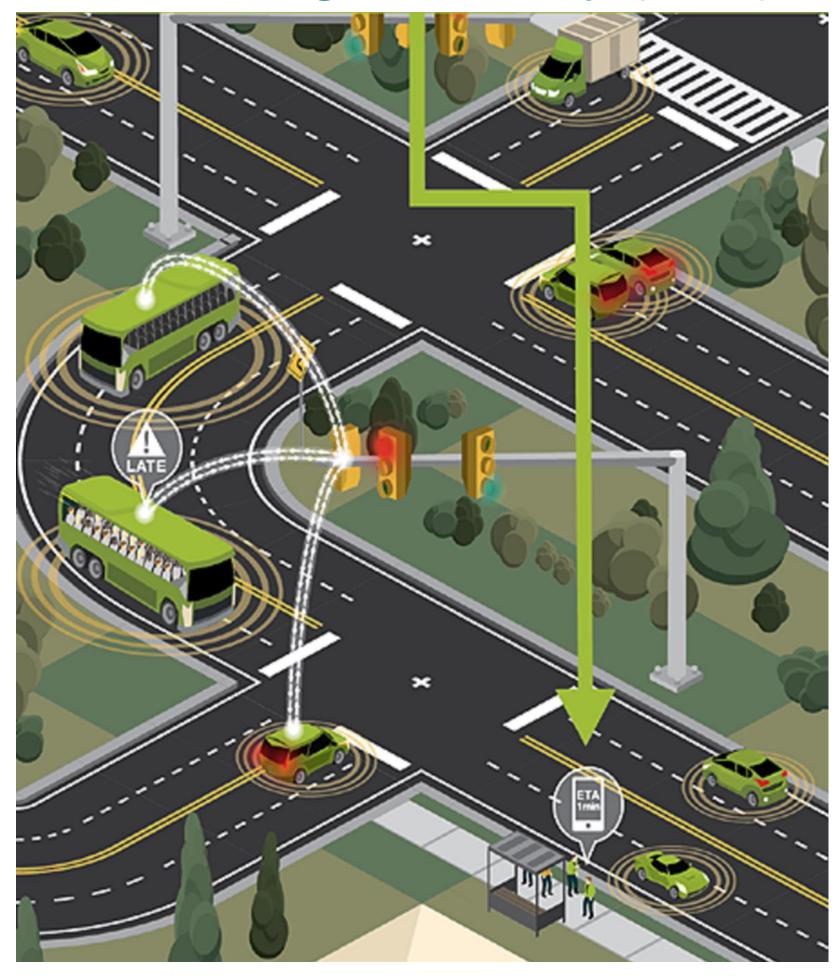
Automated
Driving System

(ADS) is the
"brain" driving a
CAV

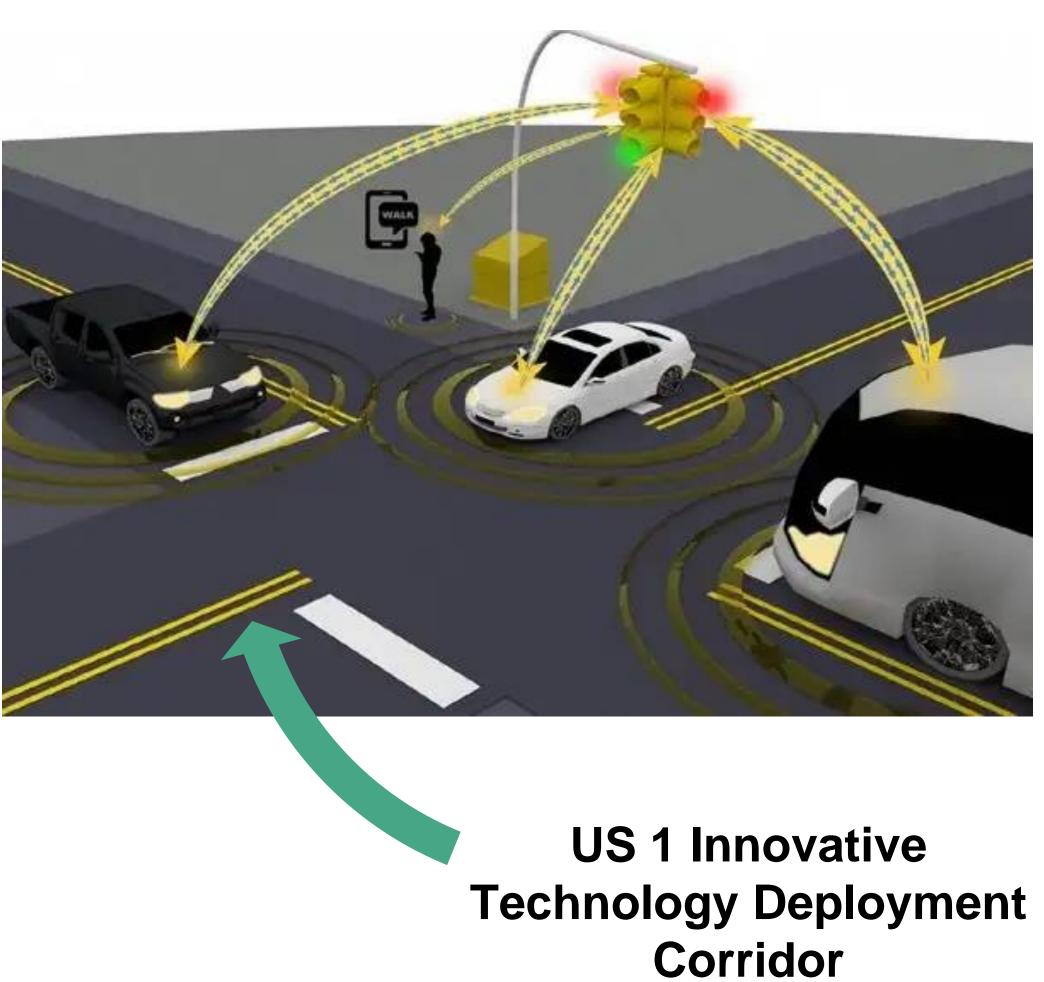


Connected Infrastructure

Transit Signal Priority (TSP)



Connected Vehicle Pilot



Passenger Shuttles





National Harbor

Automated Ridehail & Trucking











Small Package Delivery





Why do we need to plan for CAVs?

Local policies can incentivize impacts or guide development to meet local goals.

Safety

Mobility

Accessibility

Congestion

Environmental

Land-Use

Equity

Labor and Workforce

Data and Privacy

Equitable & Accessible Deployment

Local agencies could consider:



Vehicle & Ride Affordability

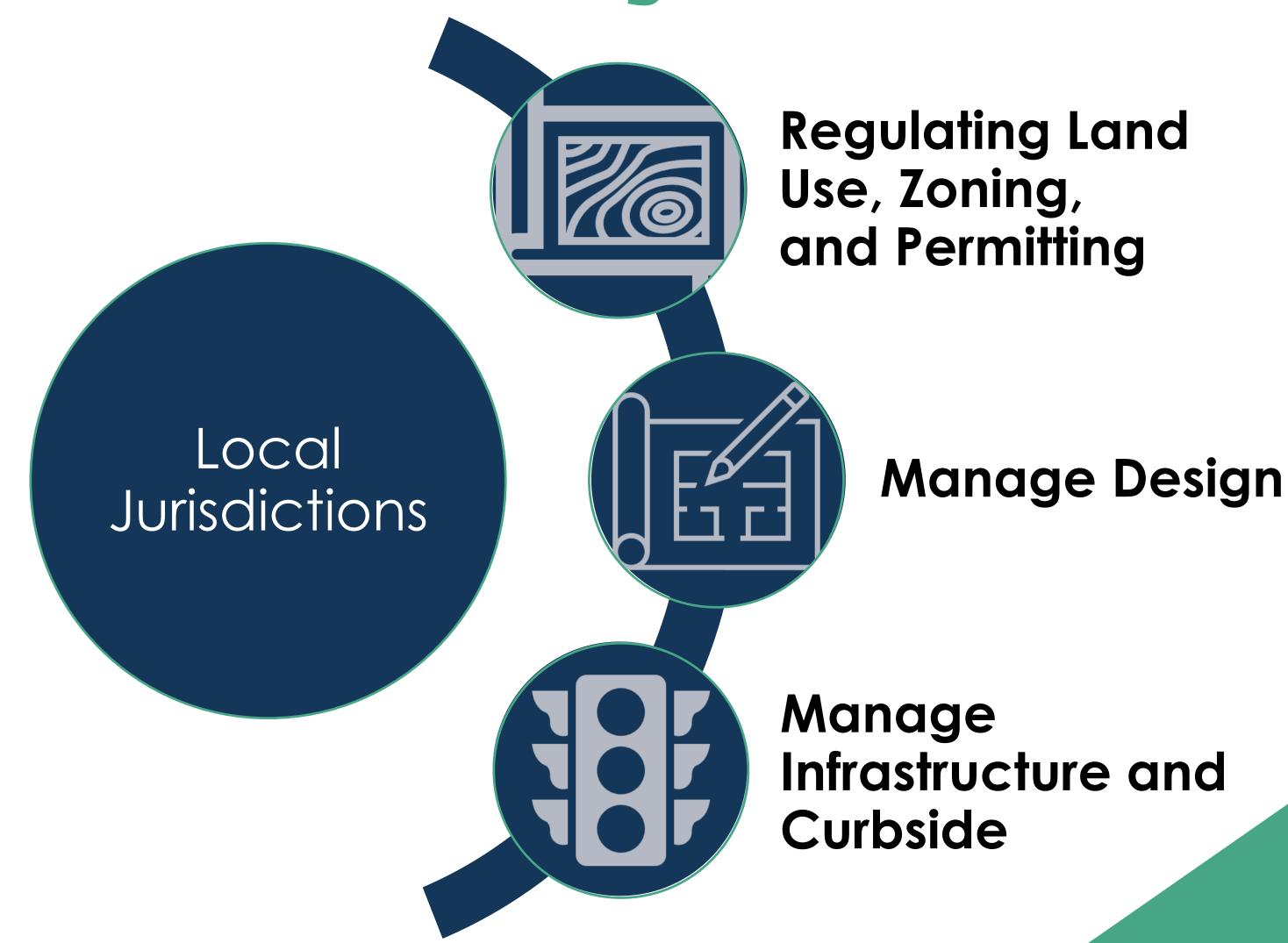


Accessibility



Deployment Location

What role do local jurisdictions play?



How are agencies planning for CAVs?



Self-Assess



Understand Regulatory Roles



Rethink Your Workforce



Build Partnerships & Champions



Plan for Multiple Future Scenarios



Prepare Infrastructure



Develop Policies

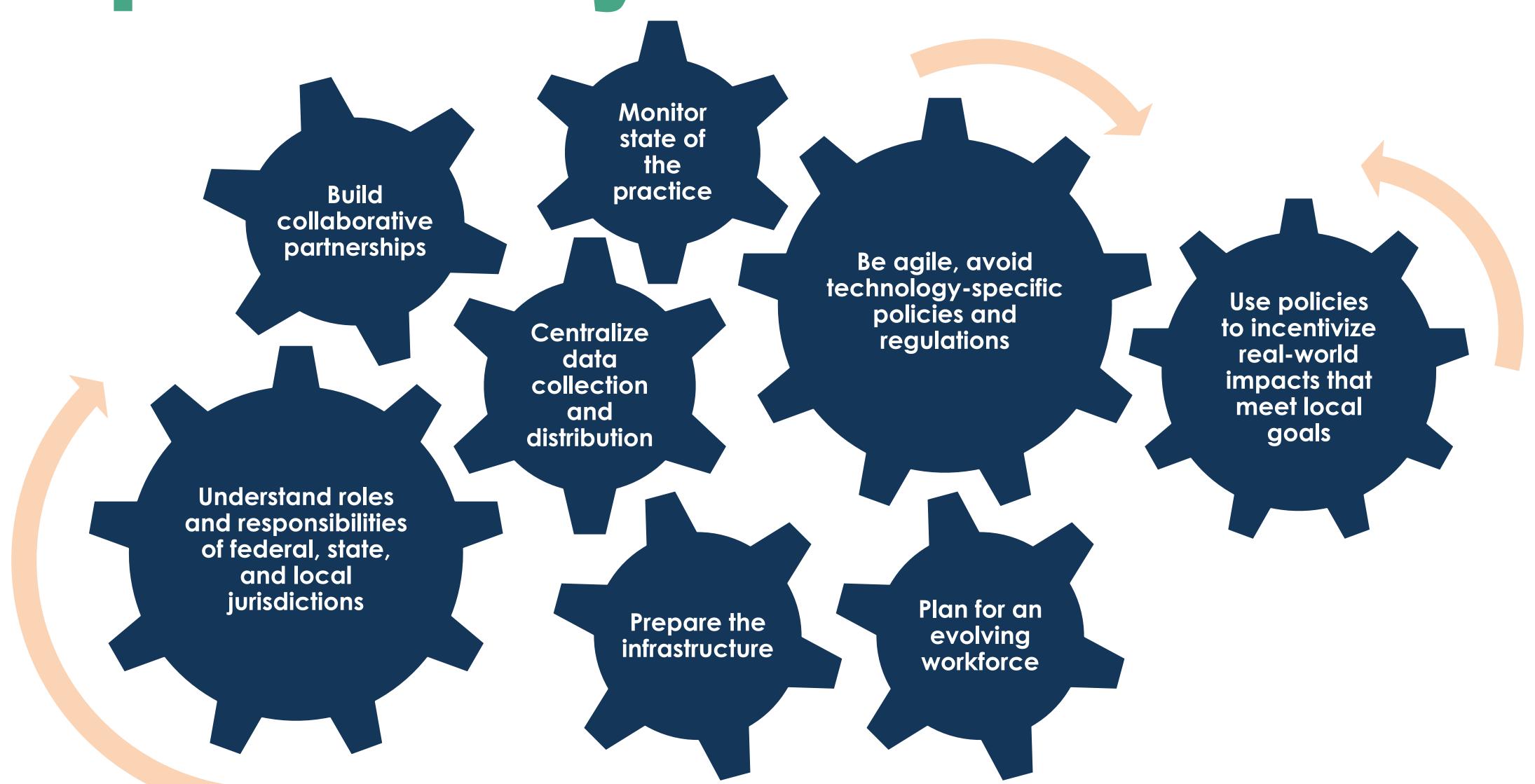


Collect and Share Data



Monitor State of the Practice

Top Takeaways From Lit Review



Next Steps

Literature Review developed and shared with Steering Committee (SC) for informational purposes

November

Connected & Automated Vehicle (CAV) Integration for Local Governments presentation to BMC Technical Committee

January



Finalization of customized recommendations for Baltimore Region

March

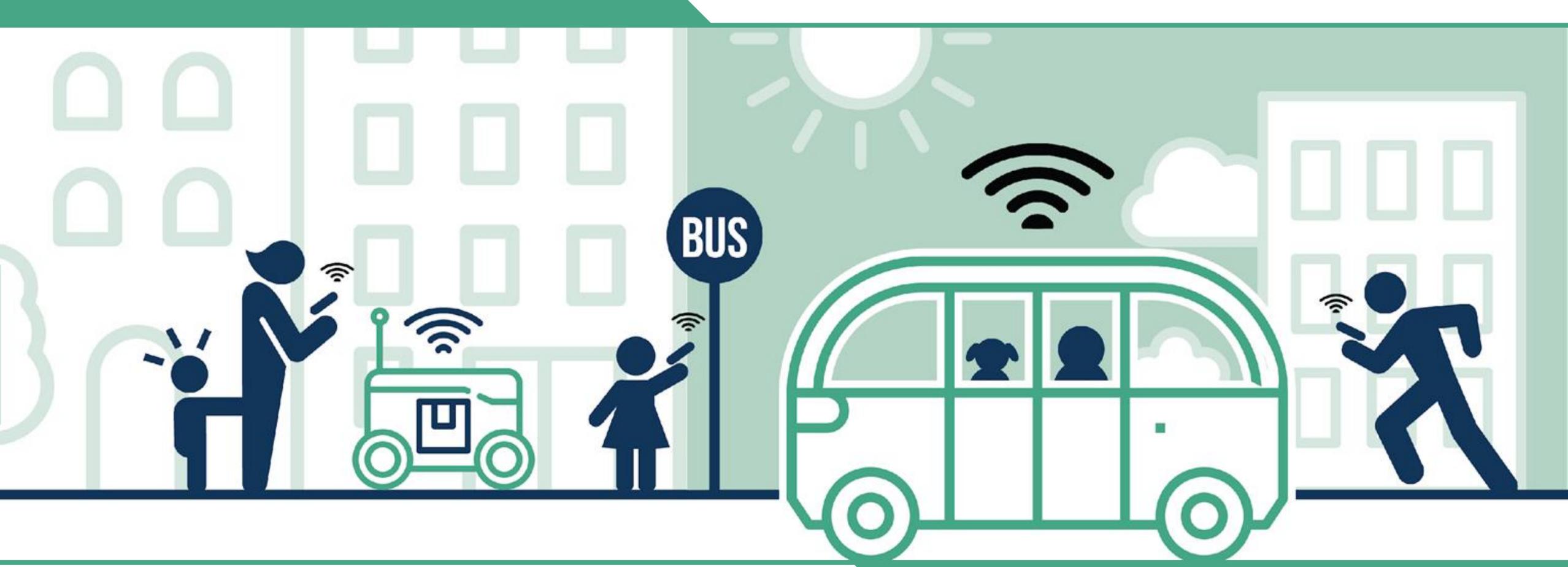
Customized CAV Recommendations for Baltimore Region and User Guide presentation for BMC Technical Committee

June

Executive Summary for Leadership



CAV Integration for Local Governments Steering Committee Kickoff



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