



CARPC & MPO Regional Planning Agencies

**Presentation to Dane County Board
Committee of the Whole**

MARCH 16, 2023

David Pfeiffer, Steve Steinhoff & Mike Rupiper – CARPC
Colleen Hoesly – MPO



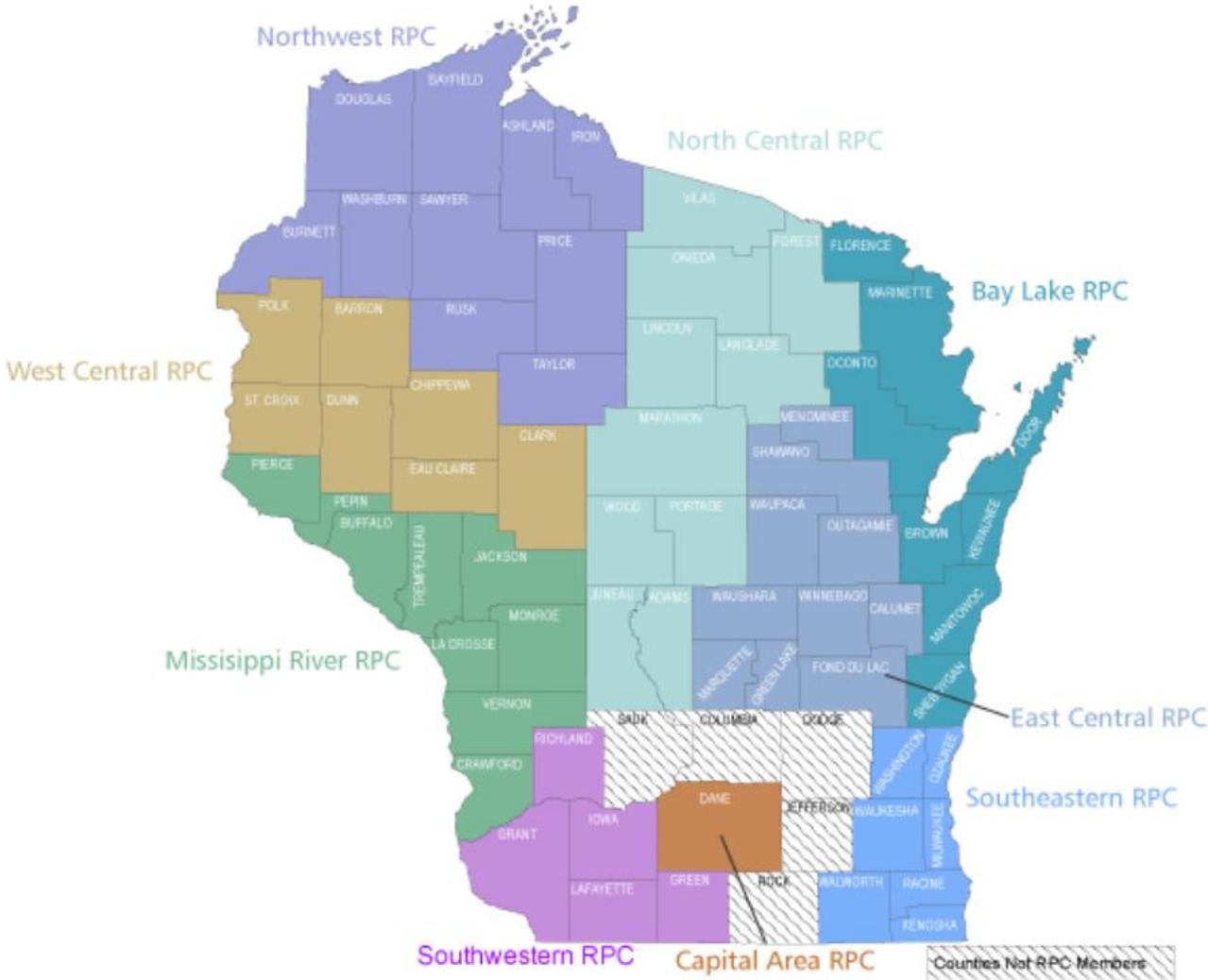
01

**The Capital Area
Regional
Planning
Commission**

WHO WE ARE &
WHAT WE DO



Wisconsin Regional Planning Commissions



CARPC Creation: Executive Order #197 (2007)

“Local governments need to work together to meet challenges that transcend municipal boundaries and effectively protect the natural resources and beauty of the capital area, as well as promote economic growth and sound land development practices.”



Advisory Land Use Authority

Wis. Stat. § 66.0309(8)(a)2.

“The functions of the regional planning commission shall be **solely advisory** to the local governments and local government officials comprising the region.”

Wis. Stat. § 66.0309(9)

“The regional planning commission shall have the function and duty of **making and adopting a master plan for the physical development of the region.**”

Wis. Stat. § 66.0309(10)

“The purpose and effect of adoption of the master plan shall be **solely to aid the regional planning commission and the local governments** and local government officials comprising the region in the performance of their functions and duties.”



About CARPC

MISSION

Strengthen the region by engaging communities through planning, collaboration and assistance

VISION

A region where communities create exceptional quality of life for all by working together to solve regional challenges

Our Staff



Haley Smith
Accounting & Admin. Svcs.



Steve Steinhoff, AICP
Agency Director



Mike Rupiper, PE, ENV SP
Deputy Agency Director



Sean Higgins, AICP
Sr. Community Planner



Matt Noone
GIS Specialist



Caitlin Shanahan
Community Planner



Melissa Breyer
Env. Resources Planner



Nick Bower, PE
Env. Engineer



Allison Madison
WI Salt Wise Program Manager



ABOUT CARPC

What CARPC Does

- ✔ Brings communities together to collaborate on land use and water quality plans
- ✔ Develops a long-range Regional Development Framework that looks ahead 20-30 years.
- ✔ Administers regional Water Quality Management Planning Program for DNR
- ✔ Conducts watershed planning, and future urban development plans
- ✔ Provides planning, mapping and data assistance to local communities



ABOUT CARPC

What CARPC Does NOT Do

- ✘ Regulate land use
- ✘ Establish ordinances or issue permits
- ✘ Conduct transportation, housing, or economic development planning



ABOUT CARPC

Governance Structure



Dane County Executive (3)

Mayor of Madison (4)

Dane County Towns Assn. (3)

Dane County Cities' & Villages' Assn. (3)



ABOUT CARPC

Our Commissioners



Anthony Gray



Nick Zavos
Treasurer



Peter McKeever
Exec. Cmte.



David Pfeiffer
Executive Chairperson



Kris Hampton
Secretary



Cynthia Richson



David Wallner



Caryl Terrell



Heidi Murphy
Vice Chairperson



Maureen Crombie
Exec. Cmte.



Jim Schuler



Barbara
Harrington-McKinney



Steve Greb

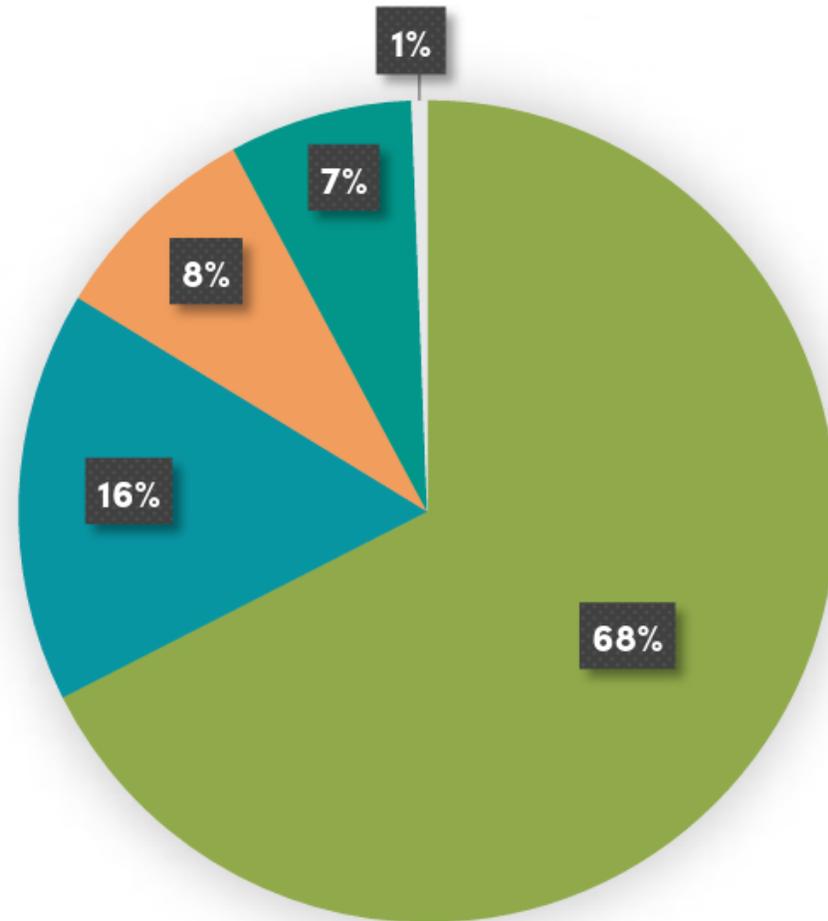


ABOUT CARPC

Funding - 2021

Total Revenues: \$1,419,480

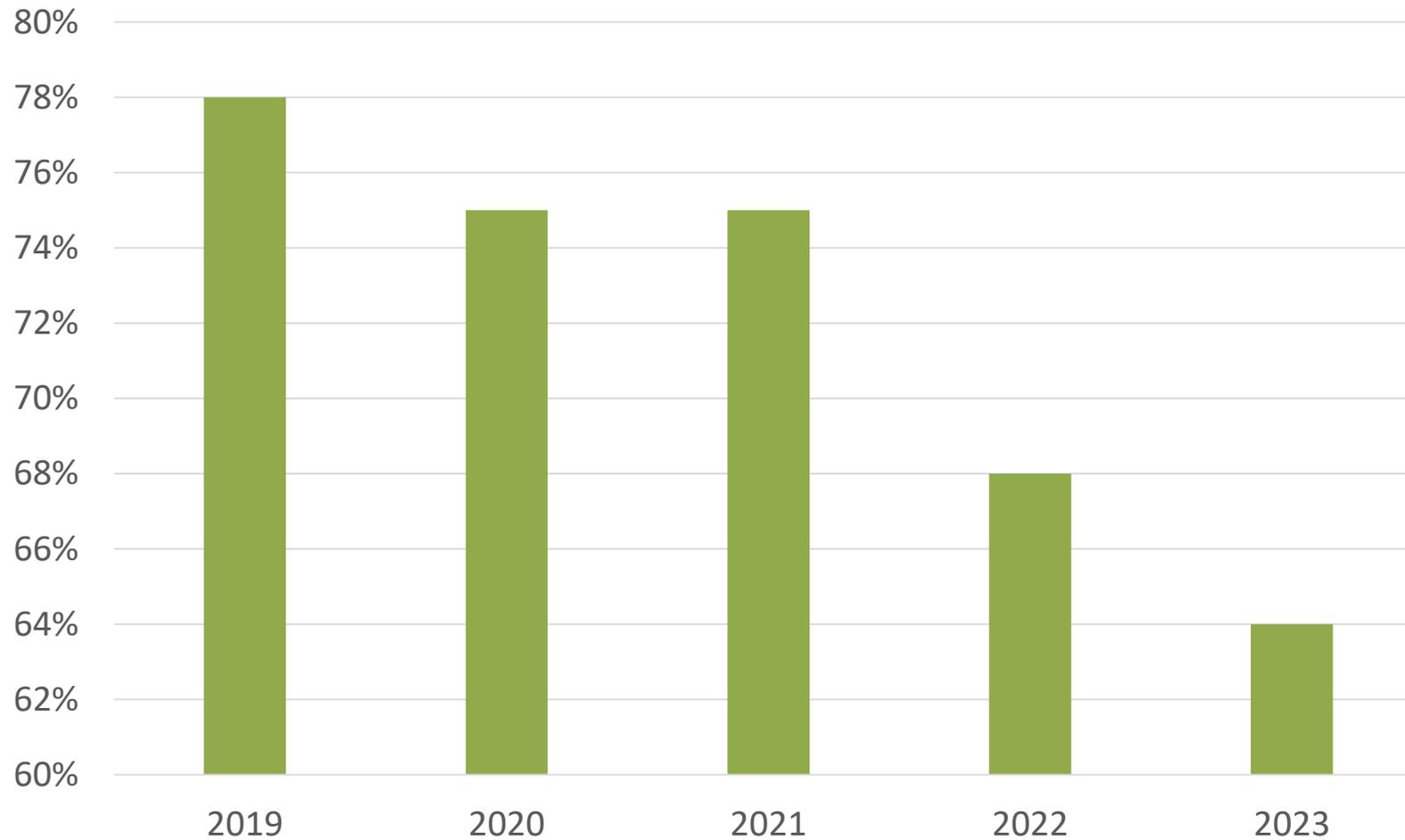
- Property Tax
\$958,559
- Federal & State Grants
\$229,579
- Water Resource Monitoring
\$119,763
- Sewer Extension &
Service Area Review Fees
\$102,865
- Planning & Other Services
\$8,715



ABOUT CARPC

Funding

Levy Percent of Budget



02

The Greater Madison MPO

WHO WE ARE &
WHAT WE DO



MISSION

Lead the collaborative planning and funding of a sustainable, equitable transportation system for the greater Madison region.

VISION

A sustainable, equitable regional transportation system that connects people, places, and opportunities to achieve an exceptional quality of life for all.

Currently Vacant
MPO Manager



Sherry BonDurant
Admin Clerk



Colleen Hoesly
Planner



Bill Holloway
Planner



David Kanning
Planner



Ben Lyman
Planner

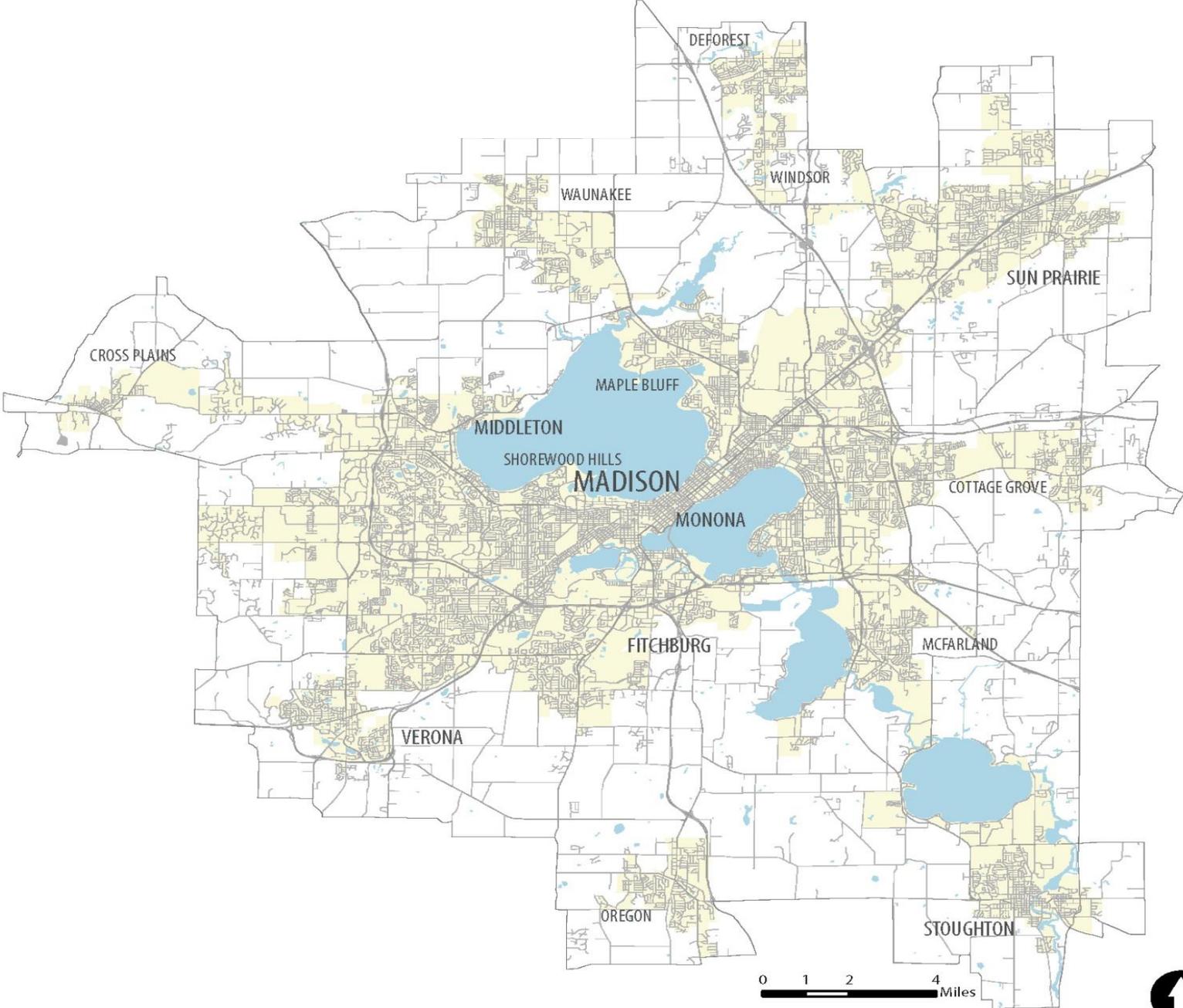


Dan Seidensticker
GIS Specialist



Zia Brucaya
*RideShare Etc.
Manager*

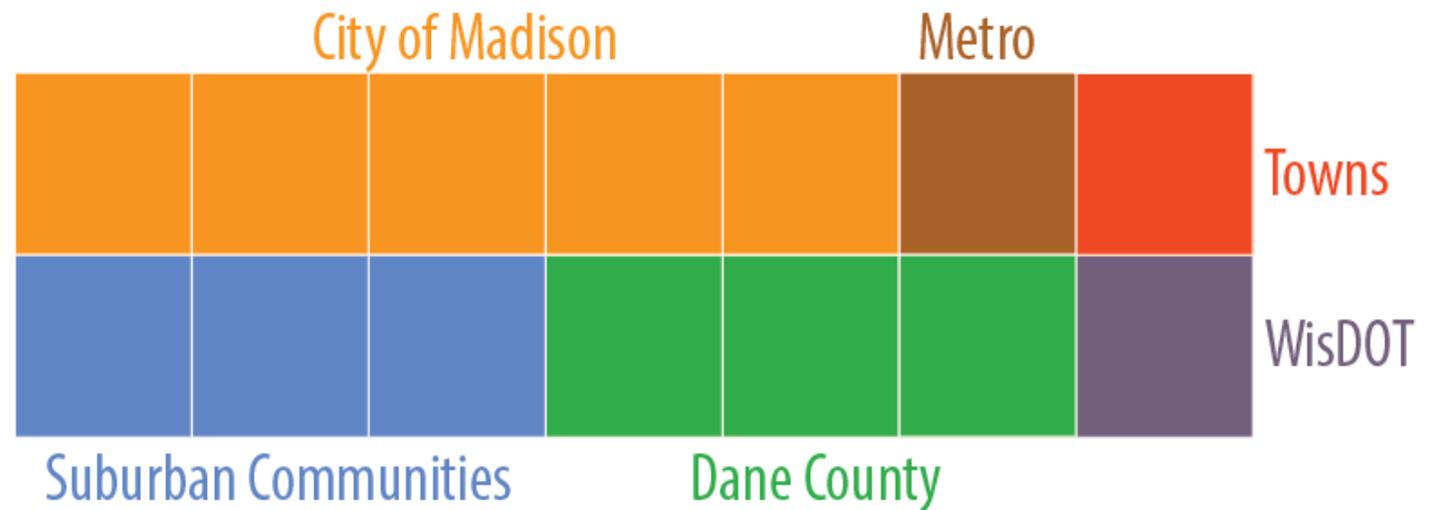
About the Greater Madison MPO





Governance Structure

of the MPO Policy Board



Primary Responsibilities

What the MPO Does



Brings communities together to prioritize, coordinate, and fund transportation projects in our region.



Develops a long-range Regional Transportation Plan (RTP) that looks ahead 20-30 years.



Collects data and develops or supports special plans and studies.



Approves federal funding for projects.



Manages [RoundTripGreaterMadison.org](https://www.RoundTripGreaterMadison.org) and promotes sustainable transportation options such as bicycling, bus, carpool, vanpool and walking.

What the MPO Does NOT Do



Design, construct or maintain roadways or bike paths



Control traffic or enforce traffic laws



Operate public transit service

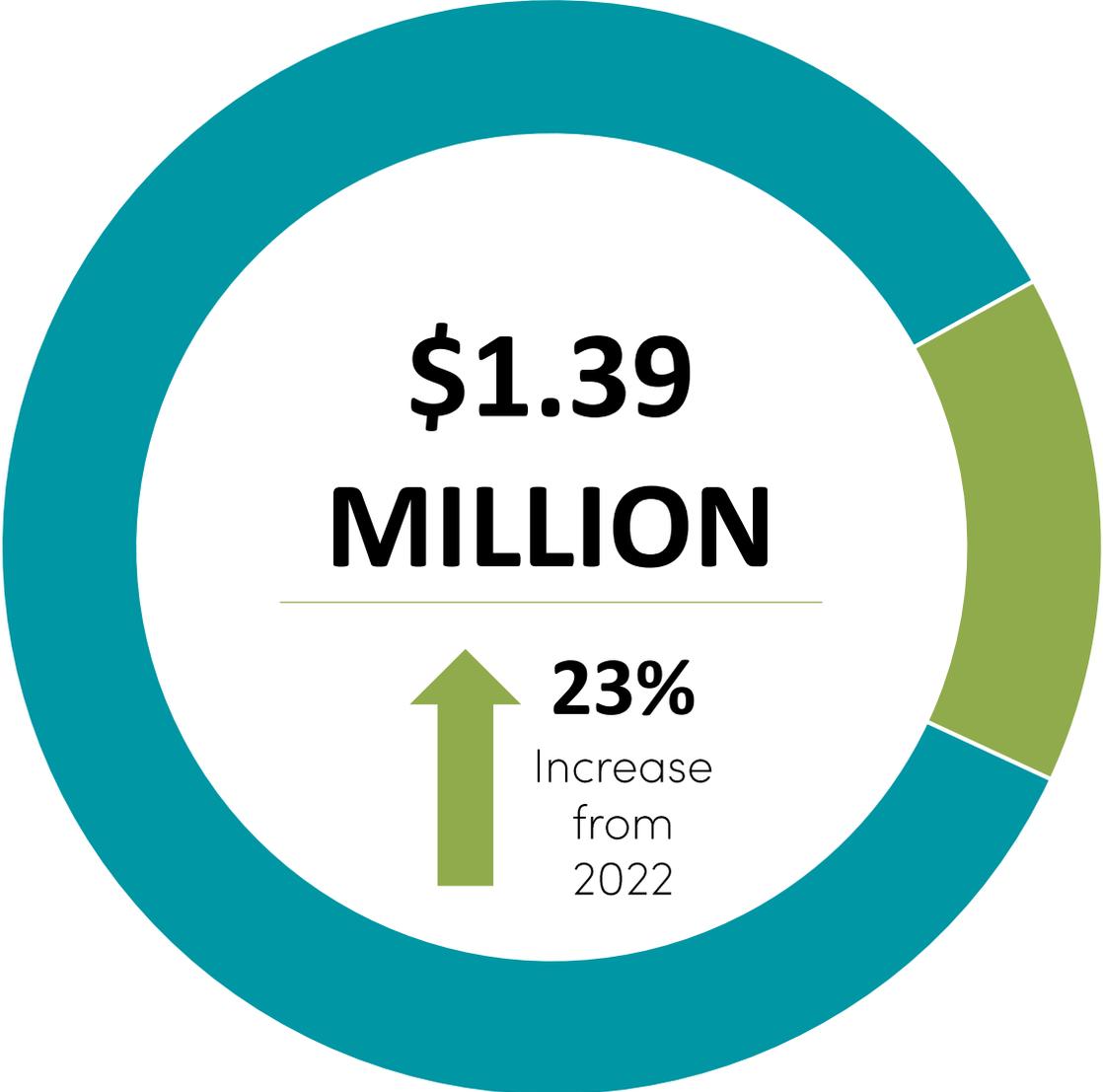


Plan how land is used



2023 MPO Budget

Federal And State
Planning Funds
84%



Local Match
16%



03

Regional Land Use & Transportation Planning

THE CHALLENGE OF
HOW TO GROW



Common Themes of Goals & Policies

Regional Development Framework

- Increase access to jobs, services for all
- Increase compact, mixed-use, walkable development
- Support business, job growth in targeted sectors
- Reduce racial disparities
- Foster climate change resiliency
- Conserve farmland & natural resources, fiscal resources

Connect Greater Madison

Accessibility
Livability
Economic Prosperity
Equity
Sustainability
Resilience
Efficiency
Preservation

Communities
Quality
Environmental Sustainability
Performance



A Greater Madison Vision

HOW WE GROW MATTERS

A Greater
Madison
Vision



Choose among four
alternative futures
greatermadisonvision.com



Over 9,000 people surveyed identified desires, challenges and their highest priorities.

A Greater Madison Vision
how we grow matters



9,186

PARTICIPANTS



2,109

COMMENTS



REGIONAL DEVELOPMENT FRAMEWORK

Goals



Reduce greenhouse gas emissions and foster community resilience to climate change



Increase access to jobs, housing, and services for all people



Conserve farmland, water resources, natural areas, and fiscal resources



REGIONAL DEVELOPMENT FRAMEWORK

Objectives

Goals

| | Climate | Opportunity | Conservation |
|--|---|---|---|
| Increase percent of development that is compact, mixed, walkable, and where feasible, transit supportive |  |  |  |
| Increase the tree canopy |  | | |
| Increase infiltration of precipitation and reduce stormwater runoff |  | | |
| Decrease urban heat island effect |  | | |
| Decrease racial disparities | |  | |
| Generate housing supply to meet demand | |  | |
| Grow business and jobs in targeted sectors | |  | |
| Increase physical access of residents to jobs and services | |  | |
| Enhance stewardship and natural resource areas | | |  |
| Designate and protect regional farmland preservation areas | | |  |
| Increase density and ensure good connectivity among developments | | |  |

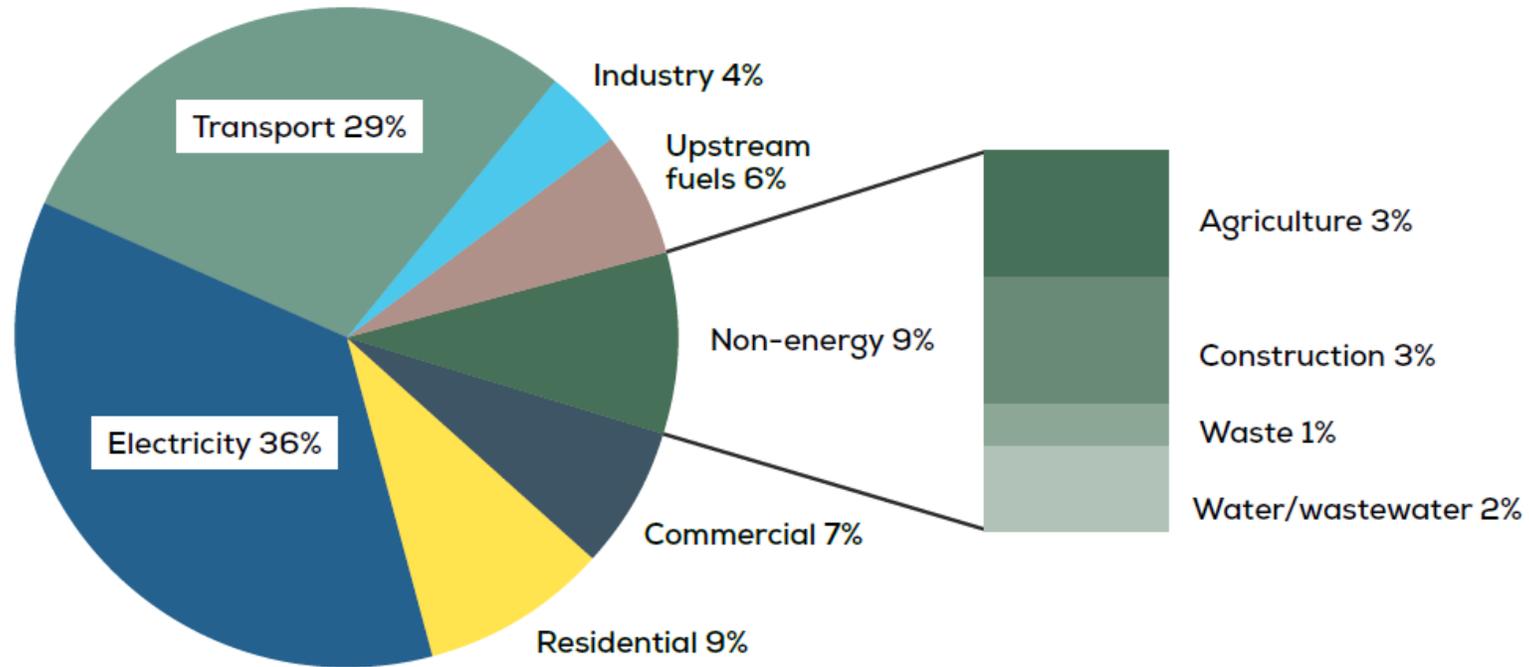


County- CARPC-MPO Collaboration:

Climate Change

| Objectives | Goals | | |
|--|---|--|---|
| | Climate | Opportunity | Conservation |
| Increase percent of development that is compact, mixed, walkable, and where feasible, transit supportive |  |  |  |
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Regional Development & Climate Change



▲ Fig. 8.3: Base year (2017) Dane County emissions (7451 thousand metric tons CO₂ equivalent)

Regional Development & Climate Change

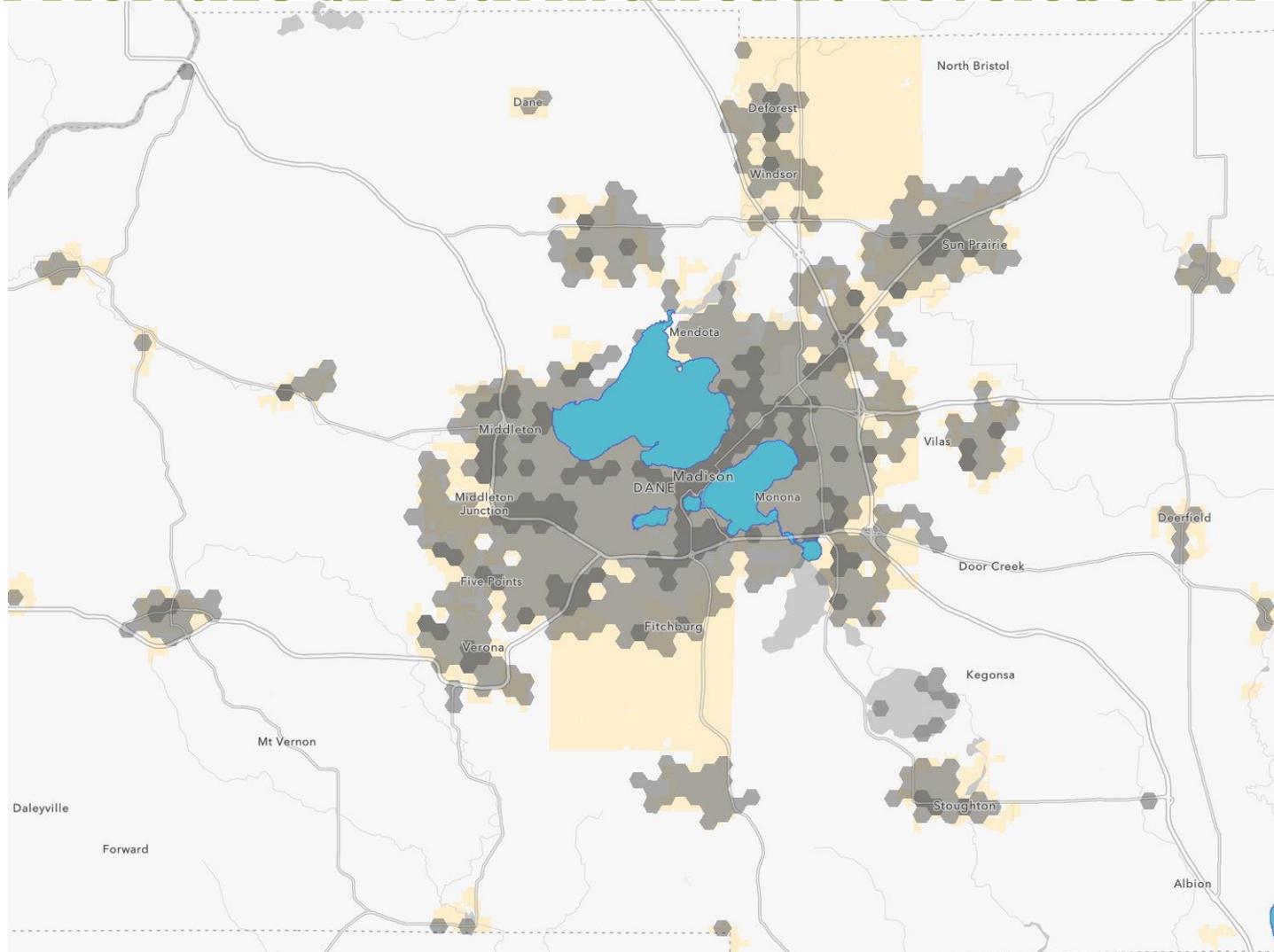
Goals & Modeling

| Policy | Name | Near-term Policy Goals | 2050 Policy Goals |
|--------|------|---|-------------------|
| 1 | VMT | 15% reduction in VMT by 2050 (Low projection) | Same |

| Policy | Name | Near-term Policy Goals | 2050 Policy Goals |
|--------|-----------|--|--|
| 1 | VMT | 15% reduction in VMT by 2050 (Low projection) | Same |
| 2 | EVs | EVs have 57% sales share by 2040 | Same |
| 7 | EE | Reduce energy usage by 2% annually per capita by 2030 | and 3% by 2035, 4% by 2040 (existing COM buildings only after 2030) |
| 8 | Bldgs | Improve performance of new COM buildings starting in 2025 | Savings ramp up to all new buildings having 75% less consumption by 2040 |
| 9 | HP | Convert half of LPG and oil heat to heat pumps by 2030 | and all LPG & oil to heat pumps by 2045, and all new residential construction with heat pumps by 2040 |
| 10 | Digesters | Half of all manure is processed in anaerobic digesters by 2030 | All manure is processed in digesters by 2050. Results in reduction of 27% of Ag methane and 25% of N2O |

REGIONAL DEVELOPMENT FRAMEWORK STRATEGY

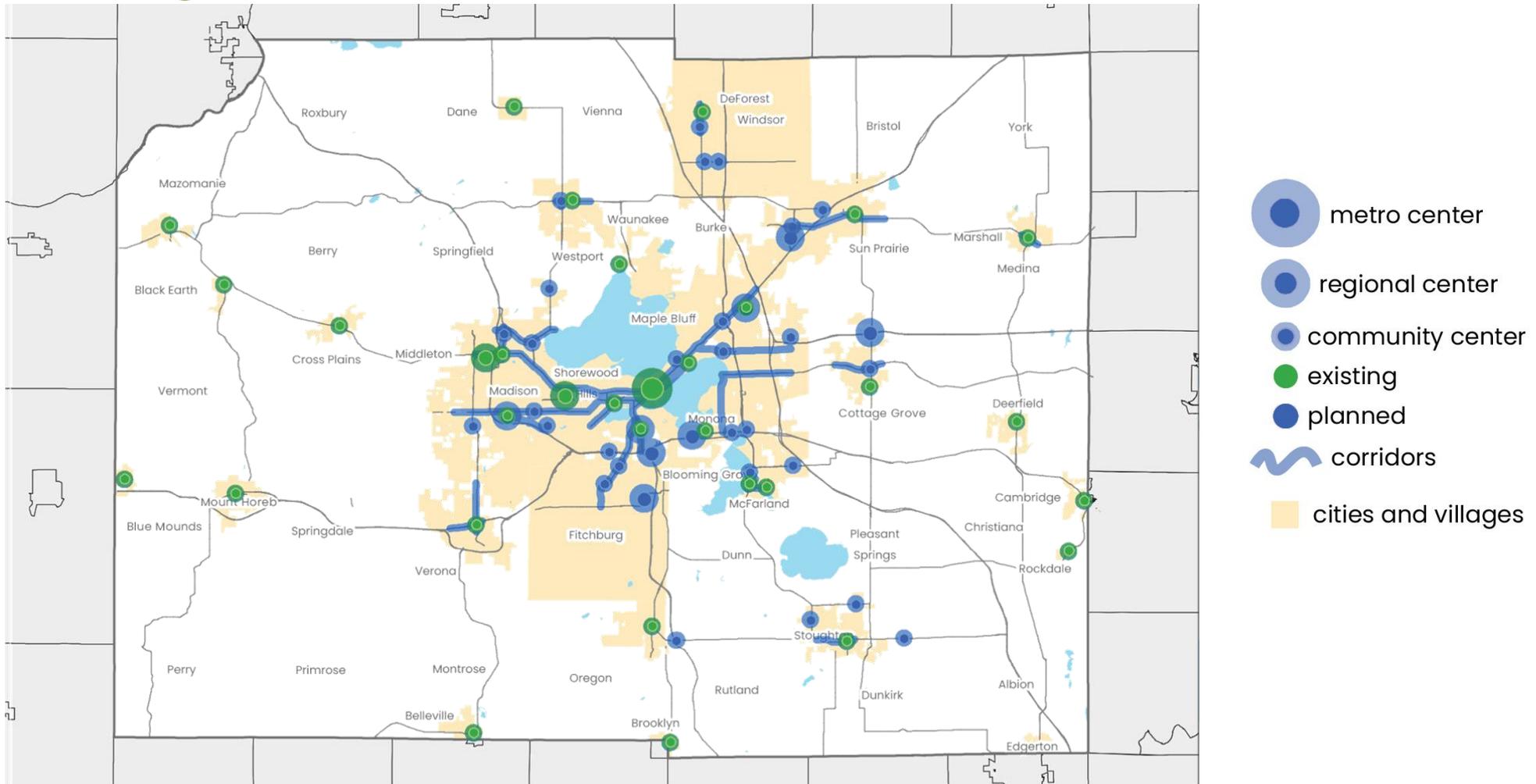
Prioritize growth in already developed areas



- 2020 development
- 2050 urban growth

REGIONAL DEVELOPMENT FRAMEWORK STRATEGY

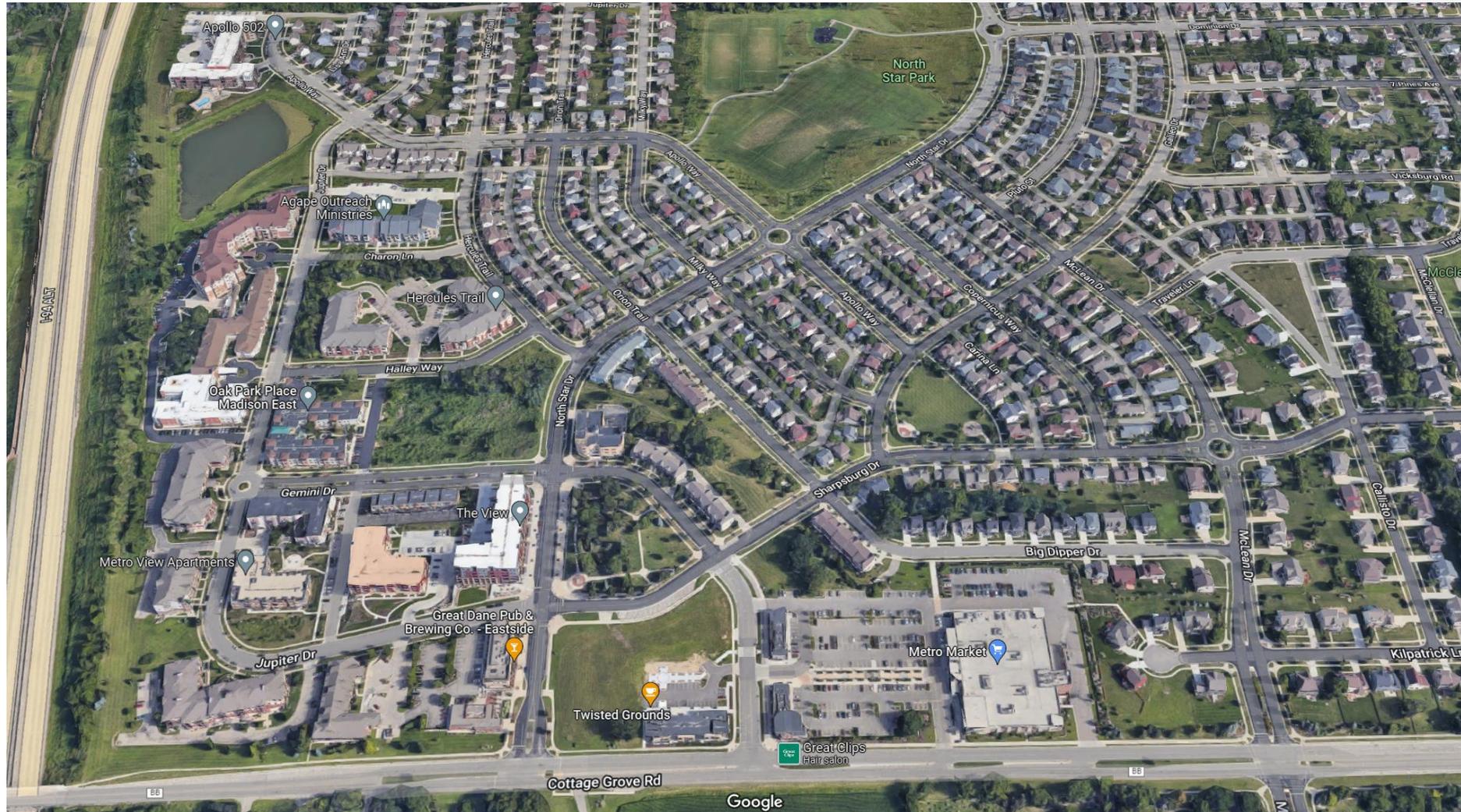
Focus growth in centers & corridors



* These are conceptual maps intended to convey approaches to regional development. They are not prescriptive and may not fully reflect actual, local conditions.
Data Sources: CARPC GIS, CARPC Staff analysis, Dane County GIS, UrbanFootprint, USDA, USGS,WDNR and WDOA.

REGIONAL DEVELOPMENT FRAMEWORK STRATEGY

Plan complete neighborhoods



REGIONAL DEVELOPMENT FRAMEWORK

Performance Indicators & Metrics

Reduce greenhouse gas emissions and increase climate resilience

Increase percent of development that is compact, mixed, walkable, and transit supportive

| Strategies | Indicator | Metric |
|--|------------------------|------------------------------|
| Focus growth in centers and along corridors | Vehicle miles traveled | Total vehicle miles traveled |
| Prioritize growth in already developed areas | | |
| Plan complete neighborhoods | | |

SOLSMART

Regional Organization Designation



SolSmart designees are in 43 states, the District of Columbia, the U.S. Virgin Islands, and Puerto Rico.

SolSmart designees represent over **133 million people.**

484 communities have achieved SolSmart designation.

Empowering Local Governments Nationwide

SolSmart designees include cities, counties, towns, and regional organizations that are distinguished as solar energy leaders. Our team of experts helps these local governments meet national best practices to achieve **SolSmart Gold, Silver, or Bronze designation.**

SolSmart is led by the Interstate Renewable Energy Council and the International City/County Management Association. It is funded by the U.S. Department of Energy Solar Energy Technologies Office.

[SEE OUR DESIGNEES](#)



County-CARPC-MPO Collaboration:

Access to Opportunity

| Objectives | Goals | | |
|--|---|---|---|
| | Climate | Opportunity | Conservation |
| Increase percent of development that is compact, mixed, walkable, and where feasible, transit supportive |  |  |  |
| Increase the tree canopy |  | | |
| Increase infiltration of precipitation and reduce stormwater runoff |  | | |
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| Increase density and ensure good connectivity among developments | | |  |

Regional Development & Opportunity



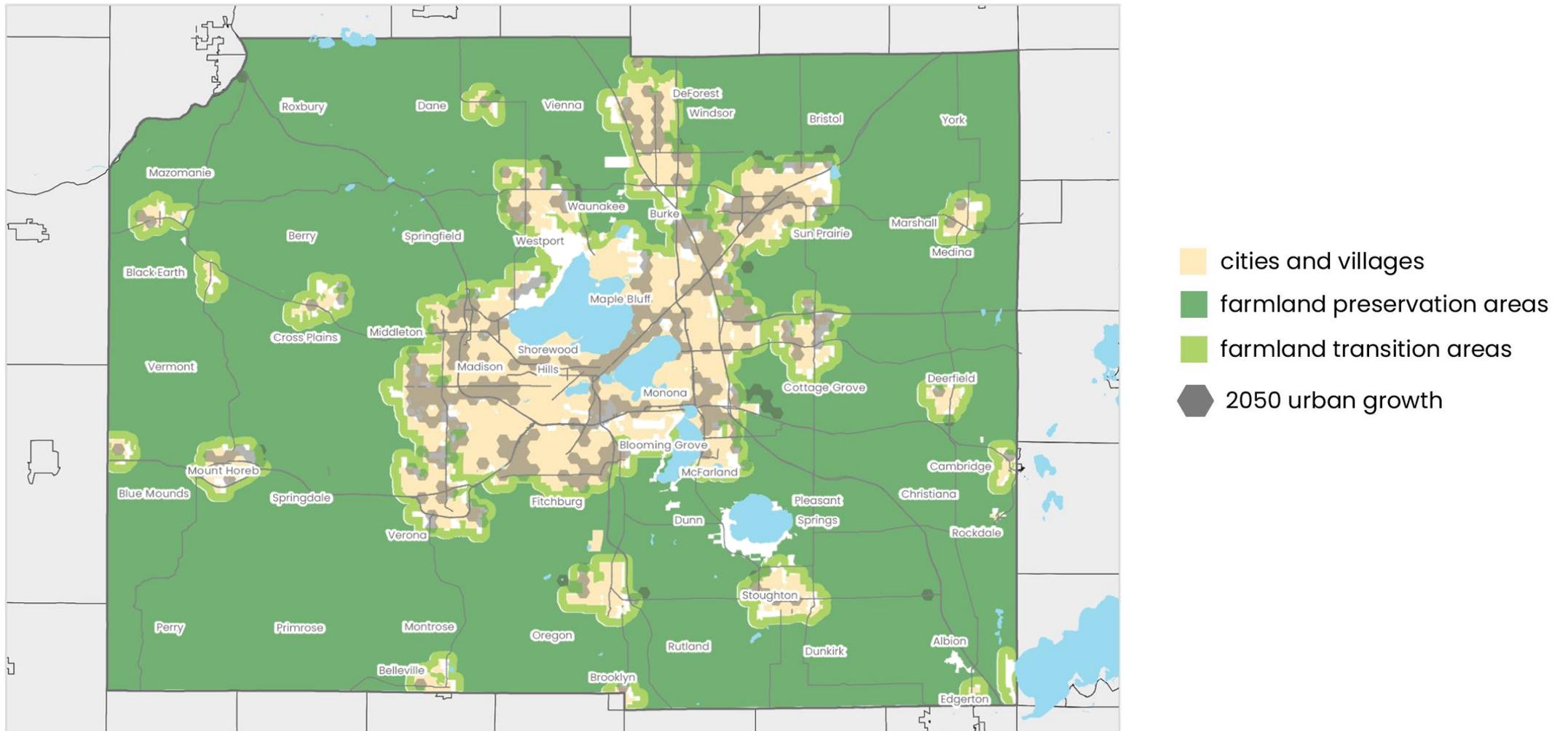
County- CARPC Collaboration:

Farmland Preservation

| Objectives | Goals | | |
|--|---|---|---|
| | Climate | Opportunity | Conservation |
| Increase percent of development that is compact, mixed, walkable, and where feasible, transit supportive |  |  |  |
| Increase the tree canopy |  | | |
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REGIONAL DEVELOPMENT FRAMEWORK STRATEGY

To preserve farming areas



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CONNECT GREATER MADISON

2050

REGIONAL TRANSPORTATION PLAN



What is a Regional Transportation Plan (RTP)?

Continuous, Coordinated, Comprehensive

The RTP sets the **framework** for the future of transportation in the Madison region.

- Official plan for federal and state funding purposes
- Identifies future transportation projects, studies, and strategies/actions to be implemented (20+ years)
- Based upon and designed to support CARPC's Regional Development Framework and local comprehensive plans
- Financially constrained plan
- Refined through corridor, area, and mode specific plans and other planning efforts

What's Included?



How will We Grow?

- Trends and Forecasts



Our Transportation System Today

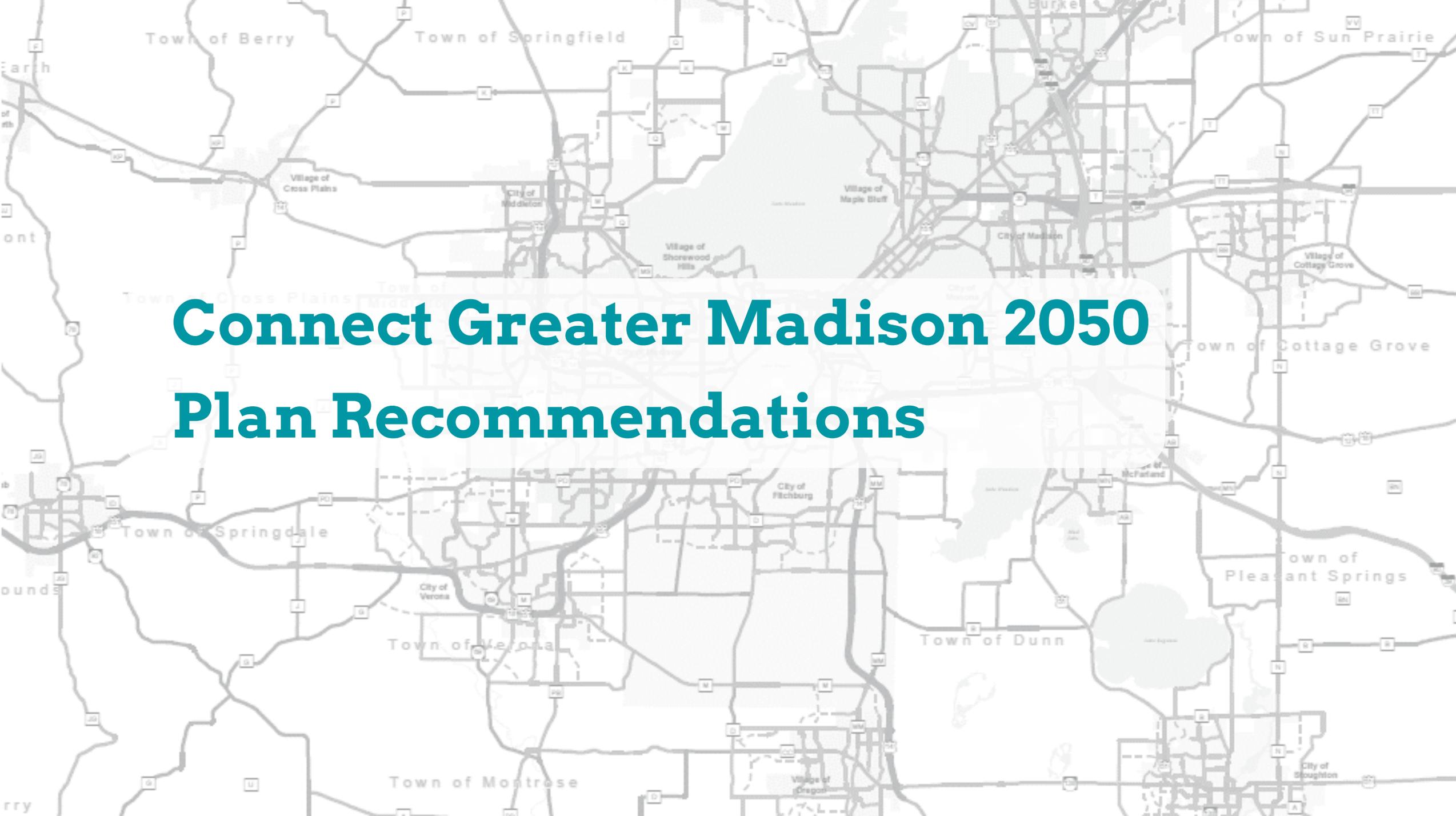
- Analysis of Existing Conditions



Our Transportation System Tomorrow

- Future System Projects, Plans, and Recommendations



A detailed map of the Greater Madison area, Wisconsin, showing various municipalities and transportation infrastructure. The map includes labels for several towns and villages, such as Berry, Springfield, Sun Prairie, Cross Plains, Madison, Maple Bluff, Shorewood Hills, Cottage Grove, Springdale, Verona, Verona, Dunn, Montrose, Oregon, and Pleasant Springs. Major roads and highways are depicted with route markers. A semi-transparent white box is overlaid on the map, containing the title text.

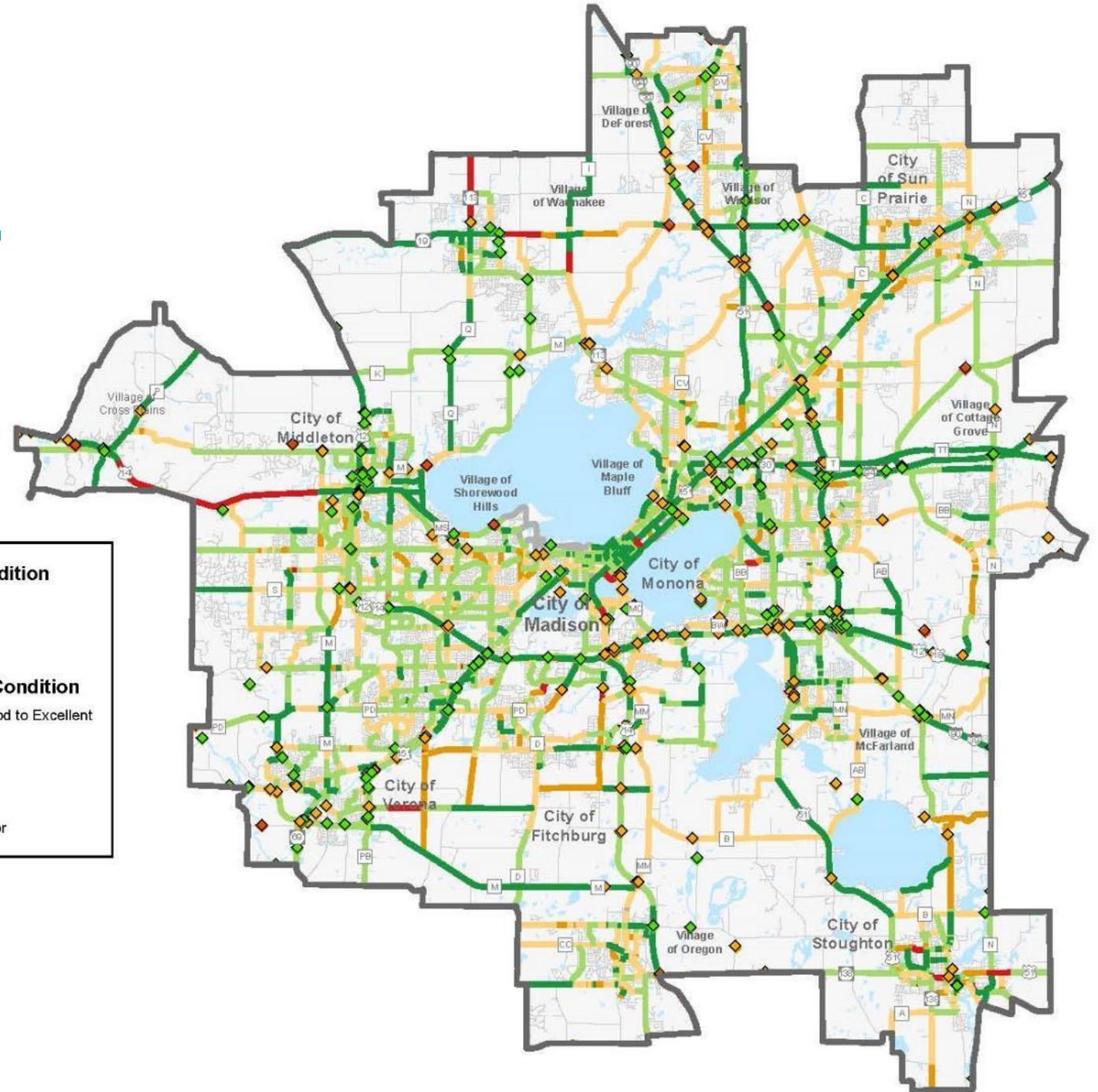
Connect Greater Madison 2050 Plan Recommendations



System Preservation

Recommendation

Preserve and maintain the region's street and highway system in a manner that minimizes their life cycle cost, maintains safety, and minimizes driver costs while reducing their impact on the environment





Improve Safety

Recommendation

Adopt a Safe System Approach for addressing safety needs on the regional roadway system through a comprehensive approach

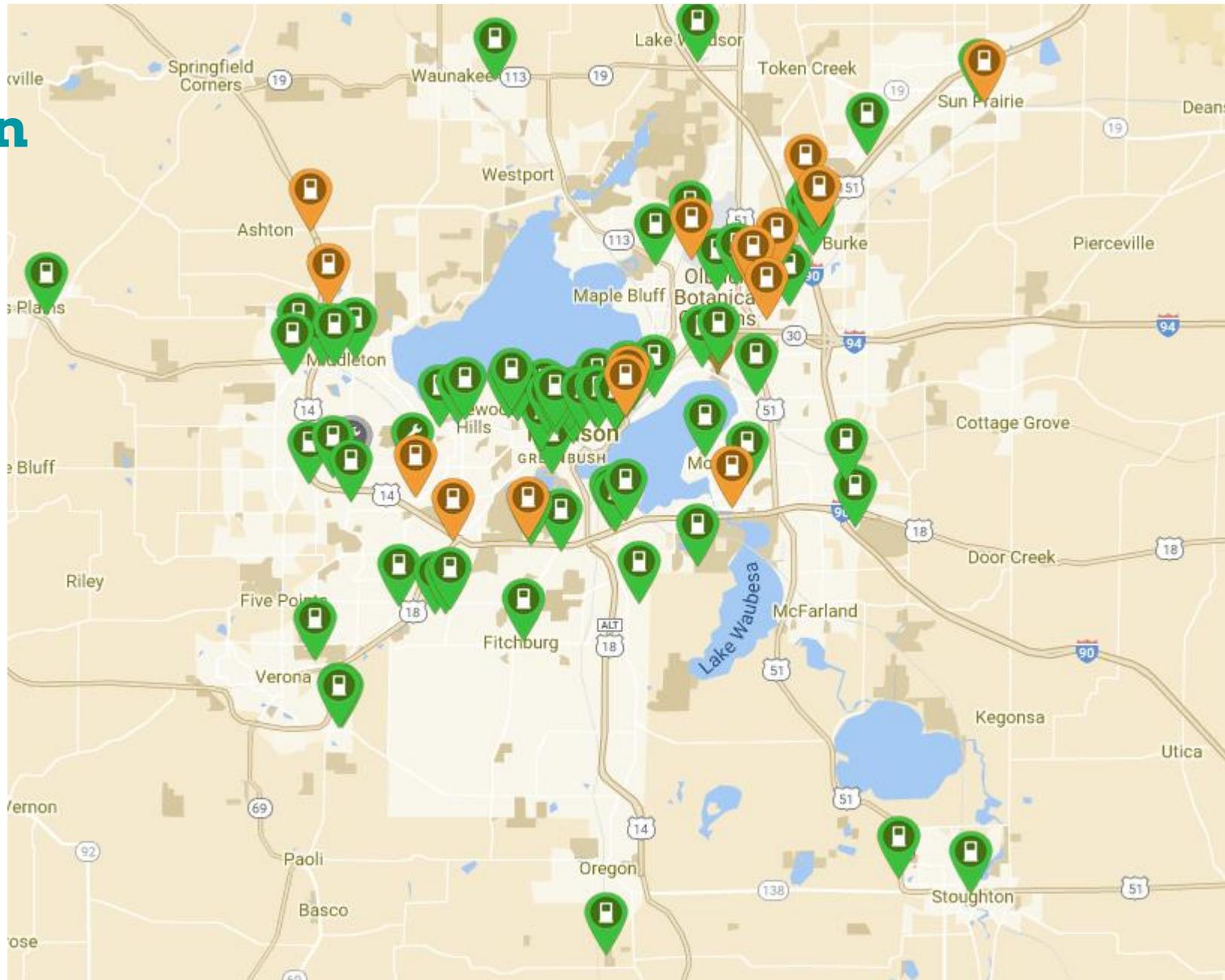




Vehicle Electrification

Recommendation

Promote transition towards electric vehicles to reduce greenhouse gas (GHG) emissions by developing charging infrastructure.





Expand the Transit System

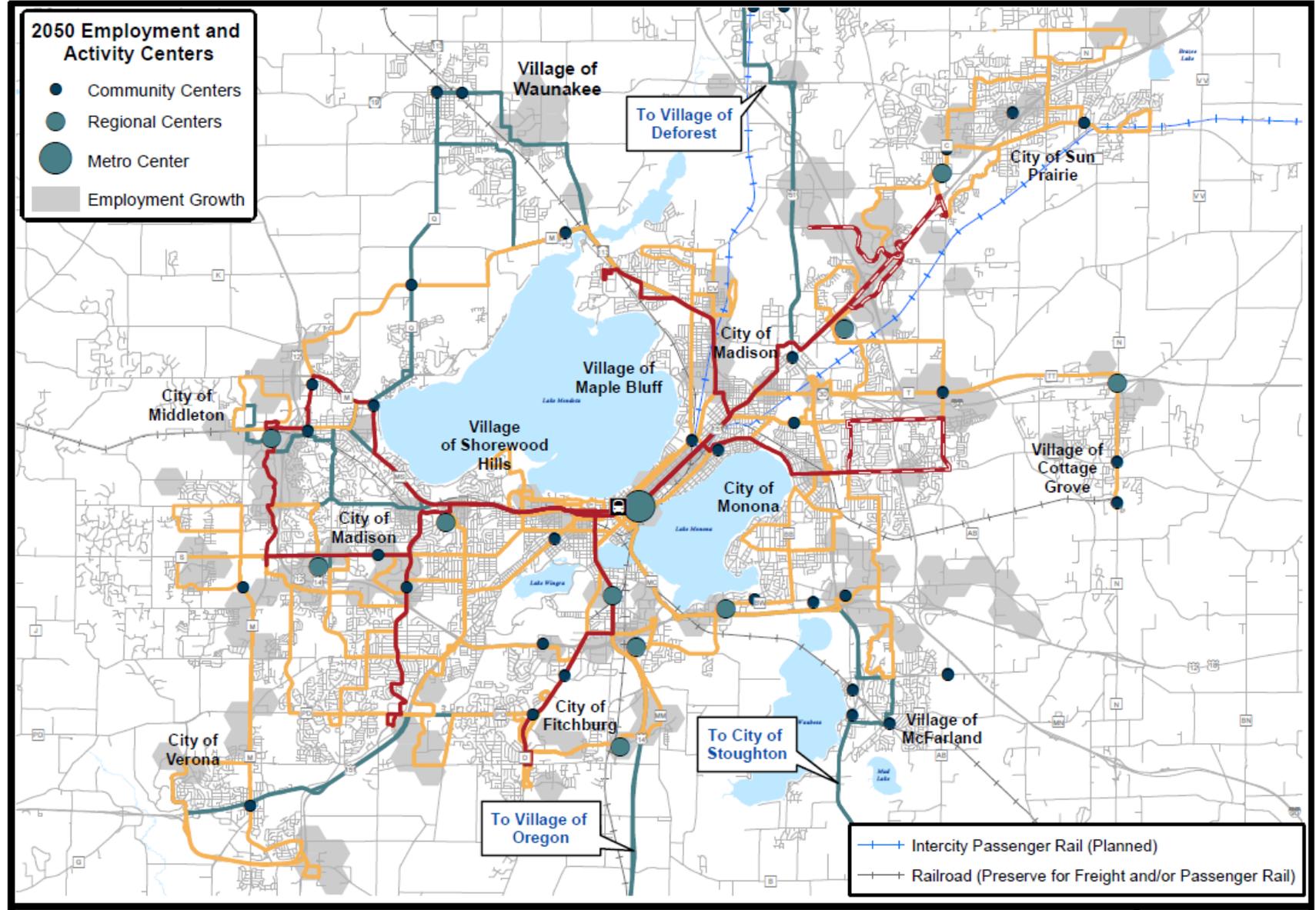
Recommendations

Implement BRT System Vision

Implement regional express network

Add service in developing neighborhoods

-  **Bus Rapid Transit (BRT) Route**
-  **BRT Route- Local Service**
-  **Express/Commuter Route**
-  **Local Route**





Expand TDM - RoundTrip Program



Mission: To connect individuals and organizations in the Madison region with convenient alternatives to driving alone.

- › RoundTrip website and ride-matching platform (www.RoundTripGreaterMadison.org).
 - › Transportation information in Dane County.
 - › Connections to carpool partners, state vanpools, bike buddies, Metro routes, park-n-rides
- › Dane County Emergency Ride Home program
- › Marketing and outreach with regional partners
- › Technical assistance for agencies and employers (surveys, TDM strategies, tools, resources)





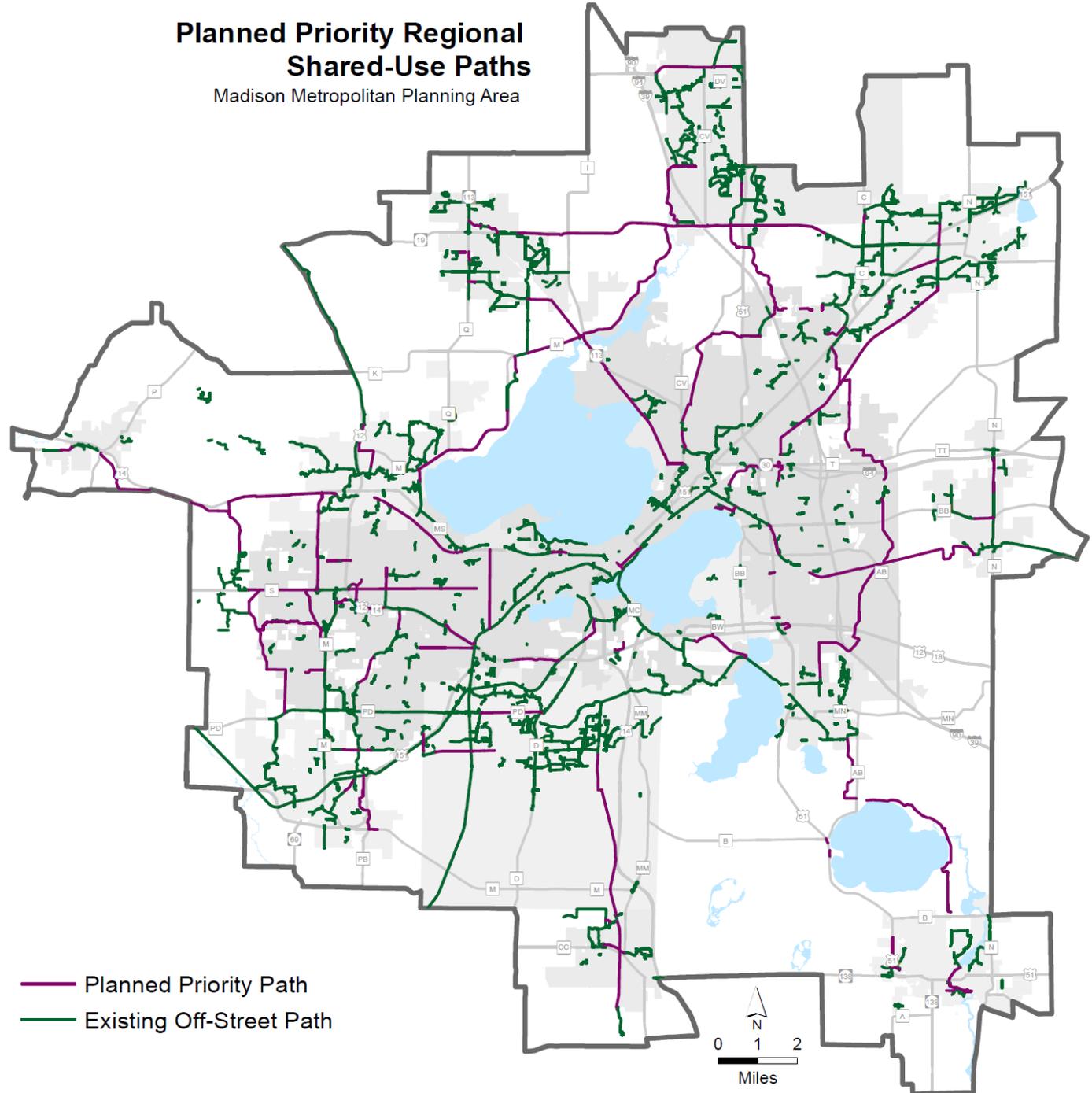
Expand the Bikeway System

Recommendation

Complete regional priority paths connecting communities and major destinations.

Provide enhanced or premium bicycle facilities in key urban arterial corridors within right-of-way where feasible.

Planned Priority Regional Shared-Use Paths Madison Metropolitan Planning Area

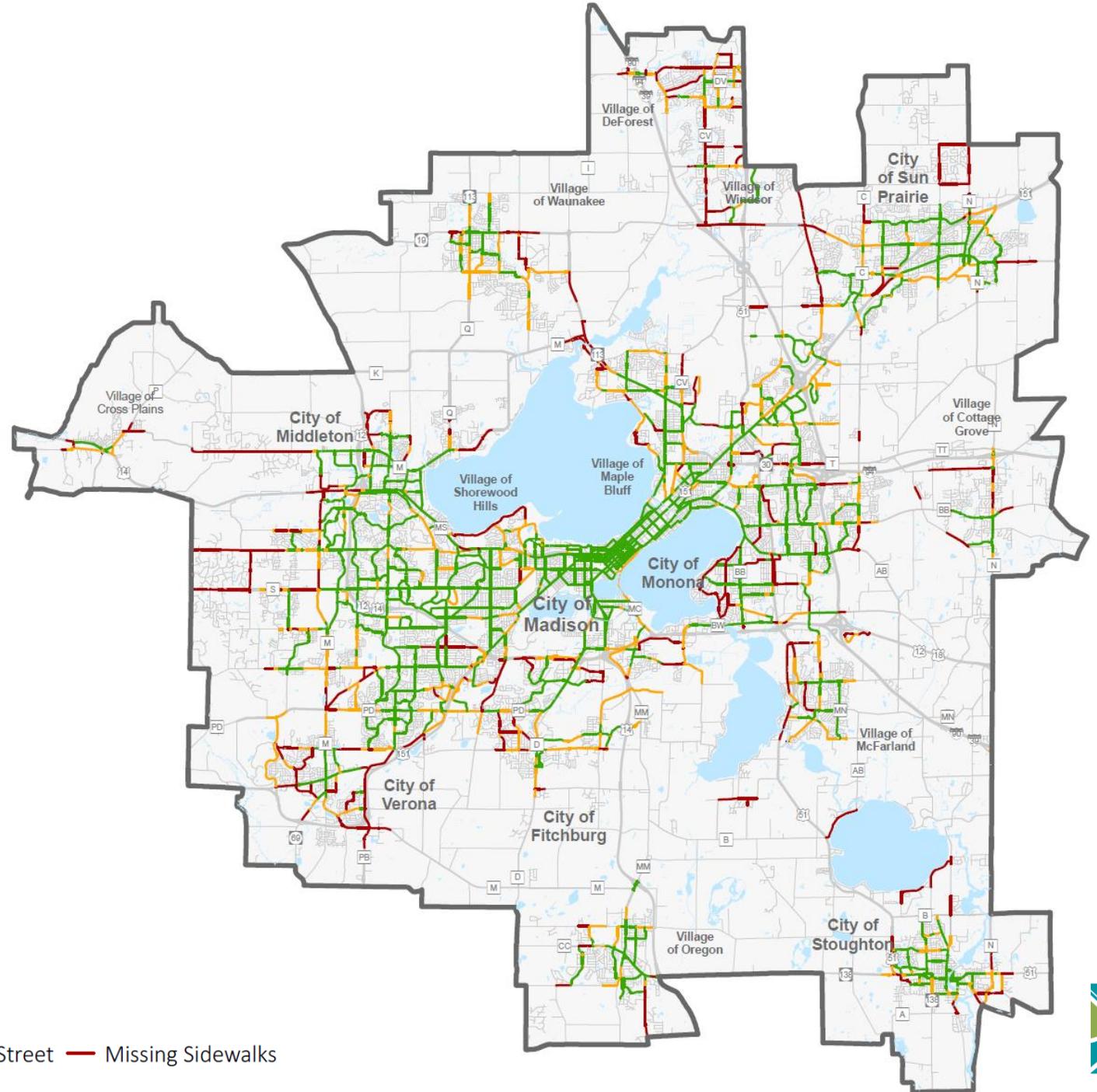




Expand the Pedestrian Network

Recommendation

Prioritize addition of missing sidewalks on arterial and collector streets with higher demand for walking.



04

**Climate
Resilience &
Water Quality
Planning**



Photo by Gateway to The Driftless

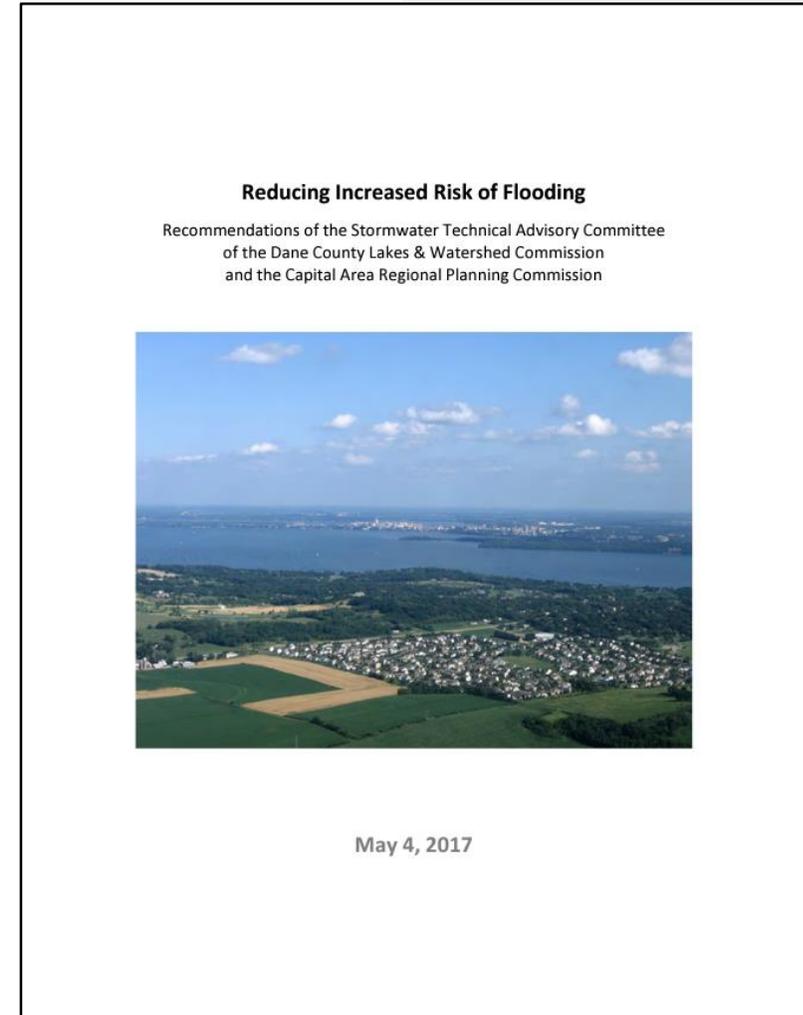
Climate Resilience Planning

| Objectives | Goals | | |
|--|---|---|---|
| | Climate | Opportunity | Conservation |
| Increase percent of development that is compact, mixed, walkable, and where feasible, transit supportive |  |  |  |
| Increase the tree canopy |  | | |
| Increase infiltration of precipitation and reduce stormwater runoff |  | | |
| Decrease urban heat island effect |  | | |
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Stormwater Technical Advisory Committee

Reducing Increased Risk of Flooding

- Collaboration with Dane County Lakes & Watershed Commission
- 2016-2017 Technical Advisory Committee
- Recommendations for improving control of stormwater runoff volume
- Many adopted as part of the 2021 Dane County Stormwater Ordinance update



Green Infrastructure Plan

Black Earth Creek Watershed

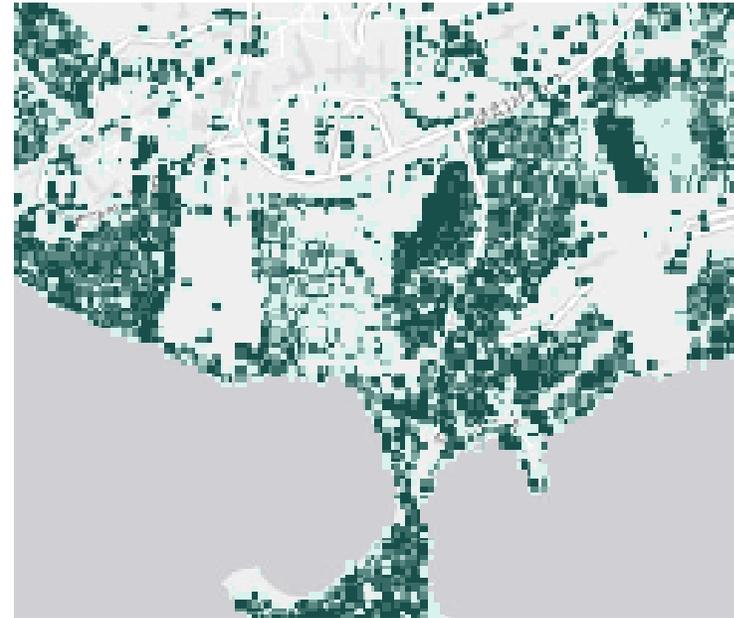
- \$150,000 FEMA / WEM Hazard Mitigation Grant in 2021
- Steering Committee
- Flood protection, water quality benefits, recreational, economic, and ecological benefits
- Plan implementation assistance



Tree Canopy Collaborative

Multi-organization Partnership

- Started in 2022 with the Dane County Office of Energy & Climate Change
- Mapping and analysis of tree canopy changes
- Collectively maintain, protect, and expand public and private tree canopy across Dane County
- NSF CIVIC grant – tree canopy, urban heat island, air quality



2010 & 2017 Tree Canopy
Percent Canopy Cover

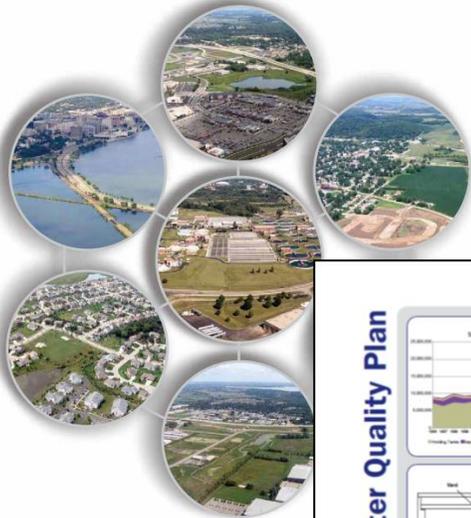


Conservation / Water Quality Planning

| Objectives | Goals | | |
|--|---|---|---|
| | Climate | Opportunity | Conservation |
| Increase percent of development that is compact, mixed, walkable, and where feasible, transit supportive |  |  |  |
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| Increase infiltration of precipitation and reduce stormwater runoff |  | | |
| Decrease urban heat island effect |  | | |
| Decrease racial disparities | |  | |
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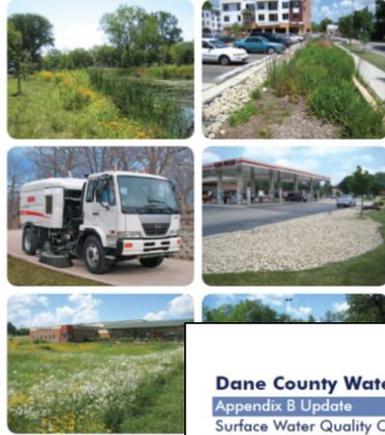
Water Quality Planning

MMSD Collection System Evaluation



January 2009

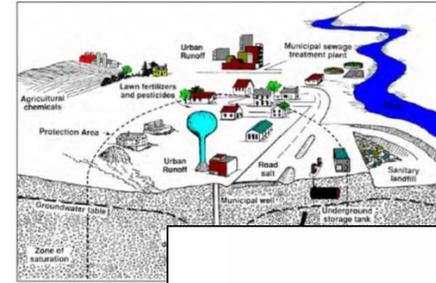
Dane County Water Quality Plan



Appendix D Update Urban Nonpoint Source A...

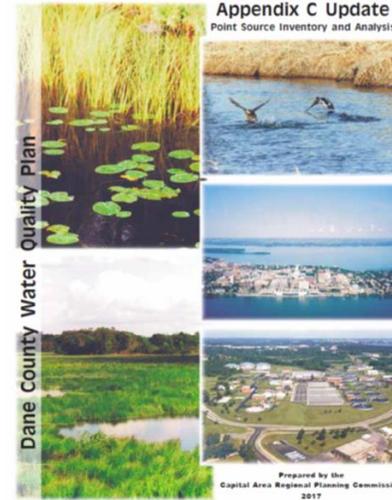
Prepared by the staff of the Capital Area Regional Planning Commission
June 2014

Dane County Groundwater Protection Planning Framework



Appendix C Dane C...

Appendix C Update Point Source Inventory and Analysis



Dane County Water Quality Plan

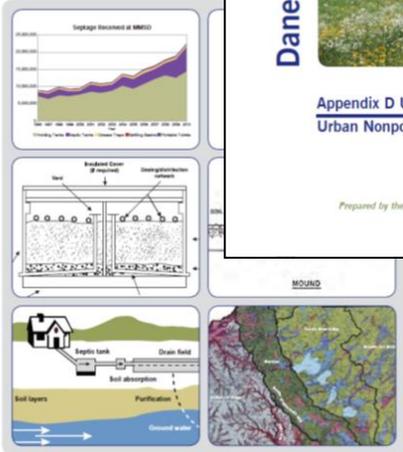
Prepared by the
Capital Area Regional Planning Commission
2017



Dane County Wetland

May 2008

Dane County Water Quality Plan



Appendix I. Private On-Site Wastewater Treatment Systems Management

Prepared by the staff of the Capital Area Regional Planning Commission
March 2013

Dane County Water Quality Plan Appendix B Update Surface Water Quality Conditions



Prepared by the Staff of the Capital Area Regional Planning Commission
March, 2014



Chloride Management Plan

Starkweather Creek Watershed

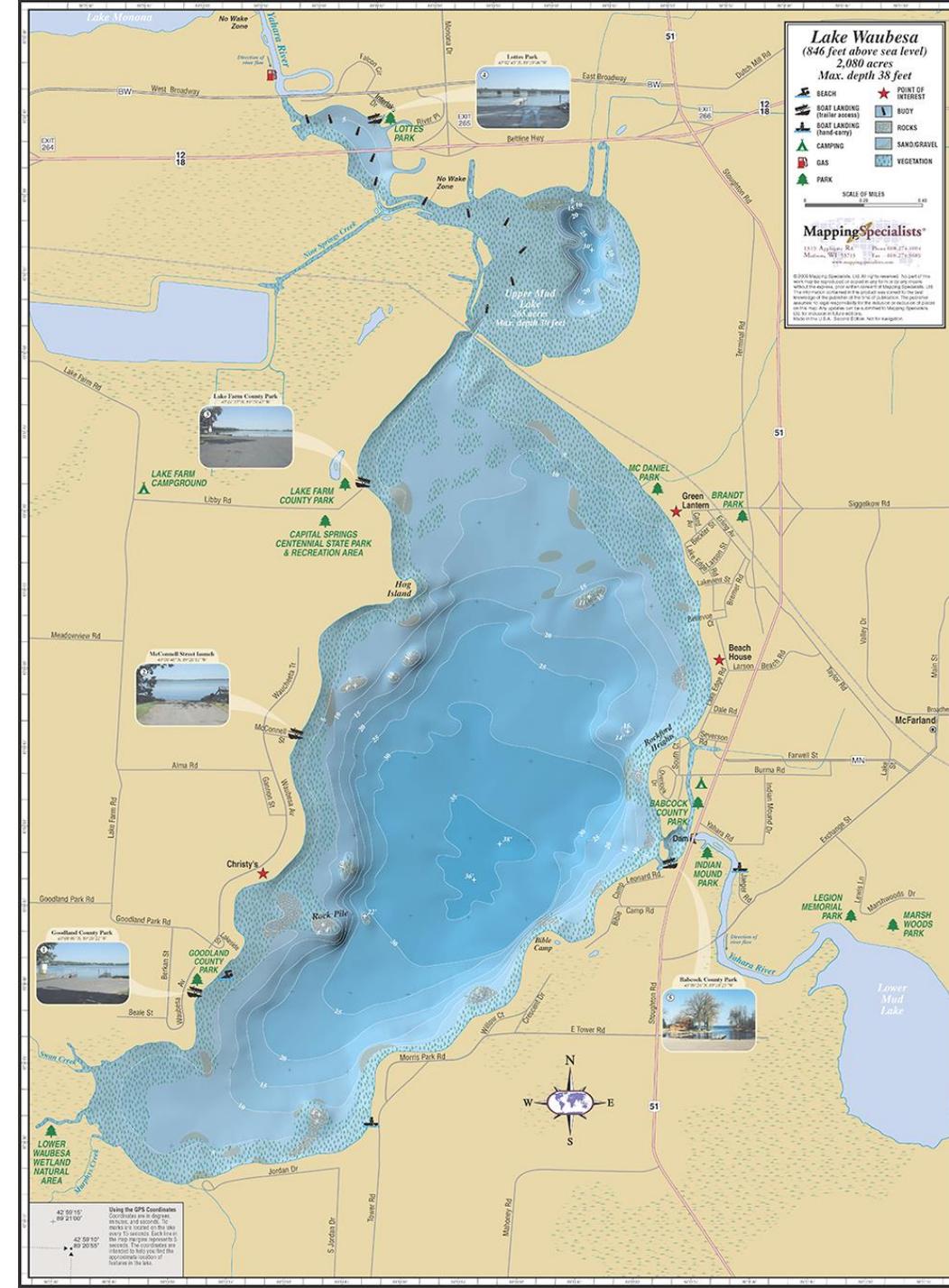
- \$10,000 WDNR planning grant in 2020
- Steering Committee
- GIS analysis
- Chloride monitoring
- Outreach – SaltWise practices



Lake Management Plan

Lake Waubesa Watershed

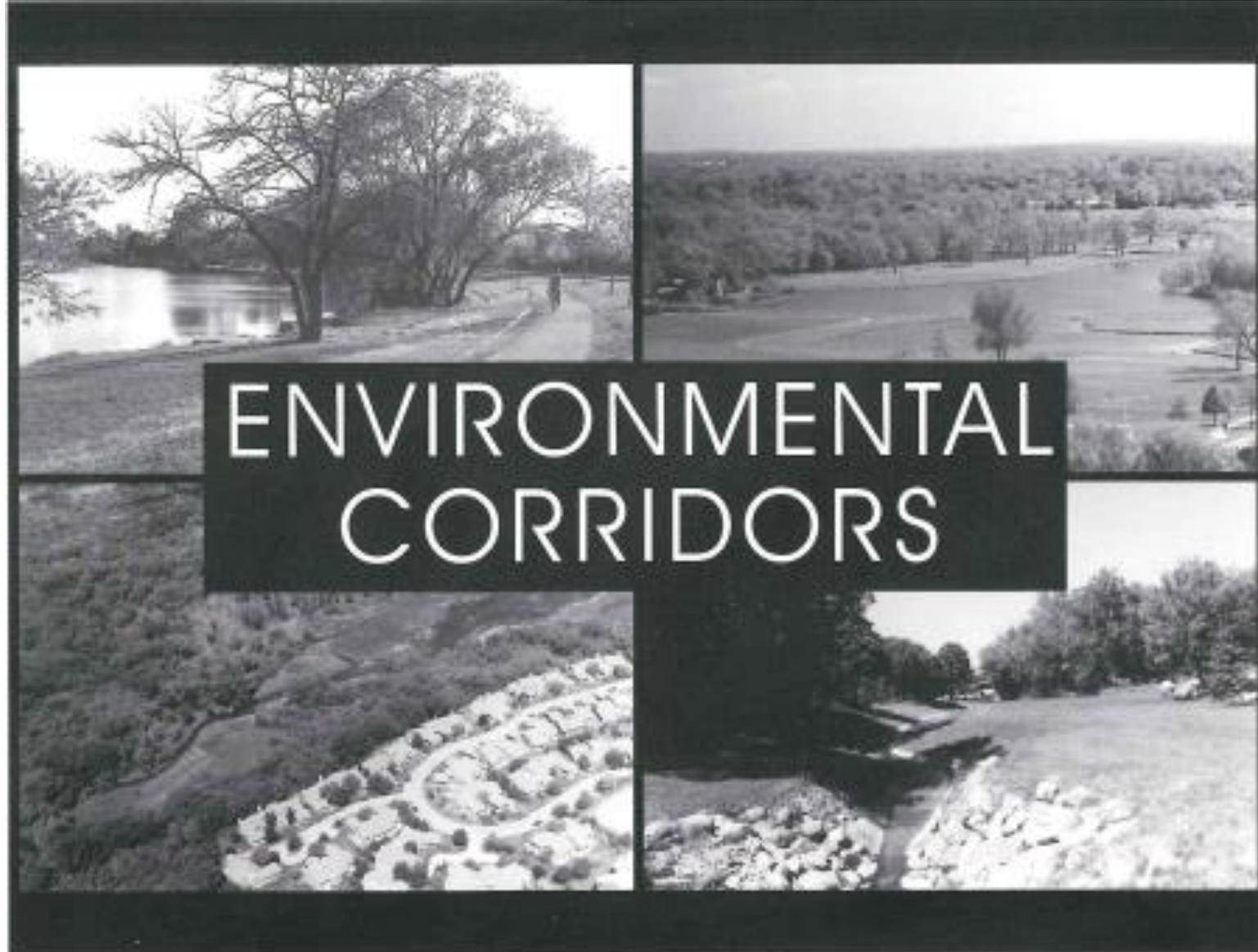
- \$25,000 WDNR planning grant in 2023
- Collaboration with Lake Waubesa Conservation Association
- Steering Committee
- Community engagement, Manage non-point source runoff and AIS, Shoreline habitat



Environmental Corridors Report Update

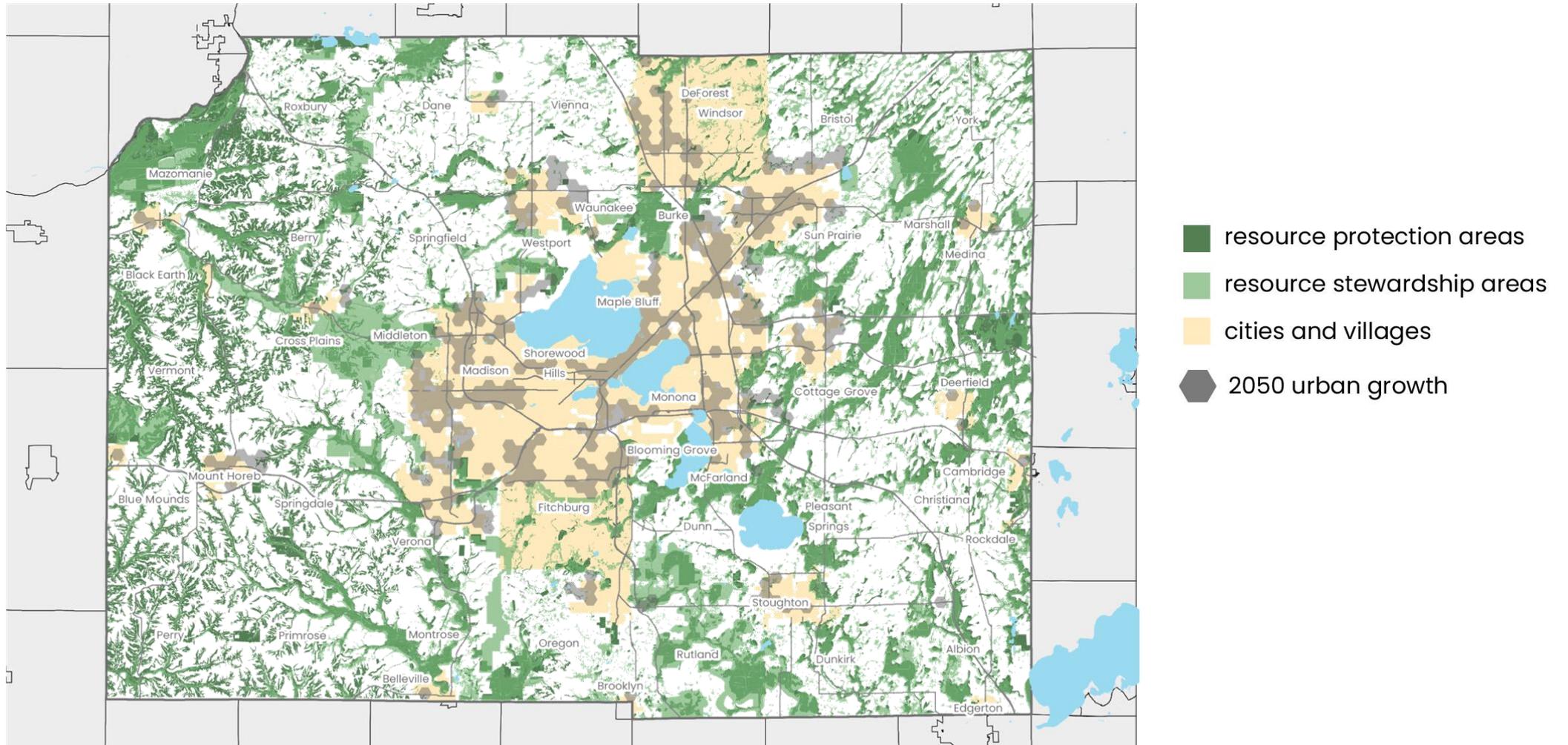
Sewer Service Area Planning

- Environmentally Sensitive Areas in NR 121
- Stewardship Area recommendations include climate change considerations
- Steering Committee



REGIONAL DEVELOPMENT FRAMEWORK STRATEGY

Preserve stewardship areas



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05

Transportation Planning & Funding



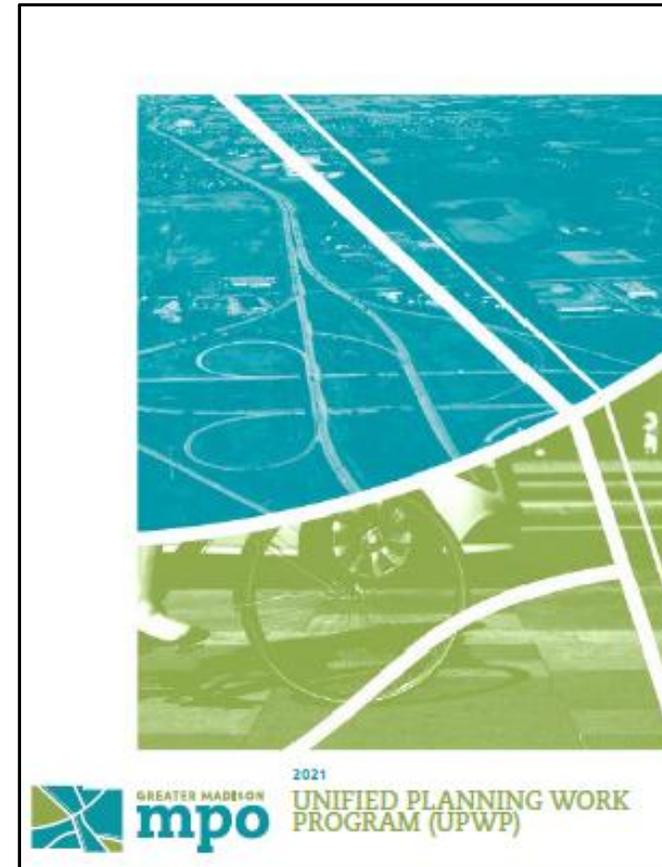
MPO Planning Activities & Assistance

- › Data and mapping
- › Special studies
- › Traffic forecasts for plans and projects
- › Research on best practices
- › Transit and active transportation planning
- › Assistance to employers with employee transportation
- › Others by request

MPO Work Program (UPWP)

Describes planning activities MPO will undertake and be involved in

**Opportunity For
Local Communities
To Request
Assistance On
Major Projects**



Planned and Potential Future Planning Studies and Initiatives

Regional Safety Action Plan (2023)

Releasing RFP for:

- The development of a Regional Safety Action Plan; and
- Assistance with developing a regional safety project implementation grant application through the new Safe Streets and Roads for All program



Regional EV Strategic Plan (2023)

- Develop a Regional Electric Vehicle (EV) strategy, including market analysis, siting recommendations, and policy and incentive recommendations



Additional Activities

- New MPO Communications and Outreach Specialist Position (2023)
- Regional Resiliency Plan (2024)
- RoundTrip TDM Program (2023-2024)
- Local Technical Assistance Program (2024-2025)
- Regional Arterial System Management Plan (2024 or 2025)



Surface Transportation Block Grant (STBG)- Urban



**Flexible,
Multi-Modal
Funding**

**Now around \$9
million annually with
application process
every 2 years**



CTH M



Monona Drive



Metro Buses



YWCA
JobRide
Vans



University Ave



Lacy Road

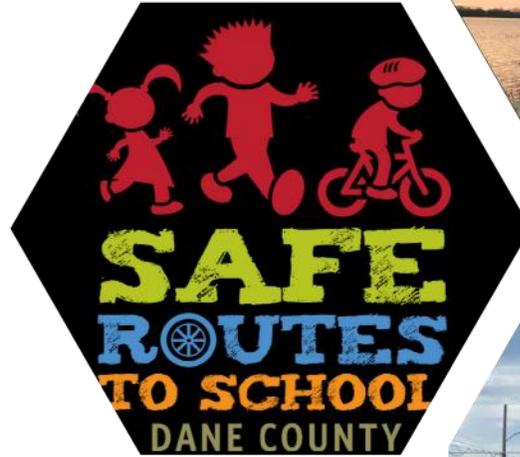


Transportation Alternatives Program (TAP)



For Bicycle and Pedestrian Projects

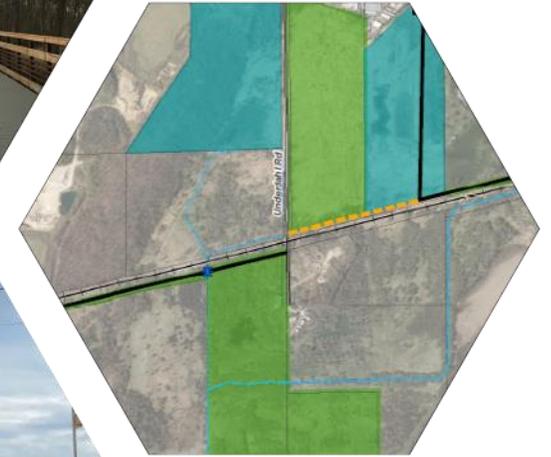
Now around **\$1.2 million annually** with application process every 2 years



DeForest School Improvements



Lower Yahara River Trail



Glacial Drumlin Trail Connector



Gammon Road Underpass

Project selection process, policies, and scoring criteria can be found at:
www.greatermadisonmpo.org/planning/improvementprogram.cfm



NEW-Carbon Reduction Program



For Projects That Reduce
Transportation Related
Emissions

Around **\$1.0 million**
annually with application
process every 2 years



Federal Transit Administration Section 5310 Program



For Projects That Improve Mobility For Seniors And Individuals With Disabilities

Now around **\$460,000 annually** with annual application process for projects that remove barriers to transportation service and expanding transportation mobility options

Sun Prairie Shared Ride Taxi



paratransit



MARC.



Stoughton Shared Ride Taxi



Transportation Call Center

Project selection process, policies, and scoring criteria can be found at:
<https://www.greatermadisonmpo.org/planning/SpecializedTransportation.cfm>



Thank you

