MADISON DEPARTMENT



Transportation Demand Management Program

City of Madison Department of Transportation

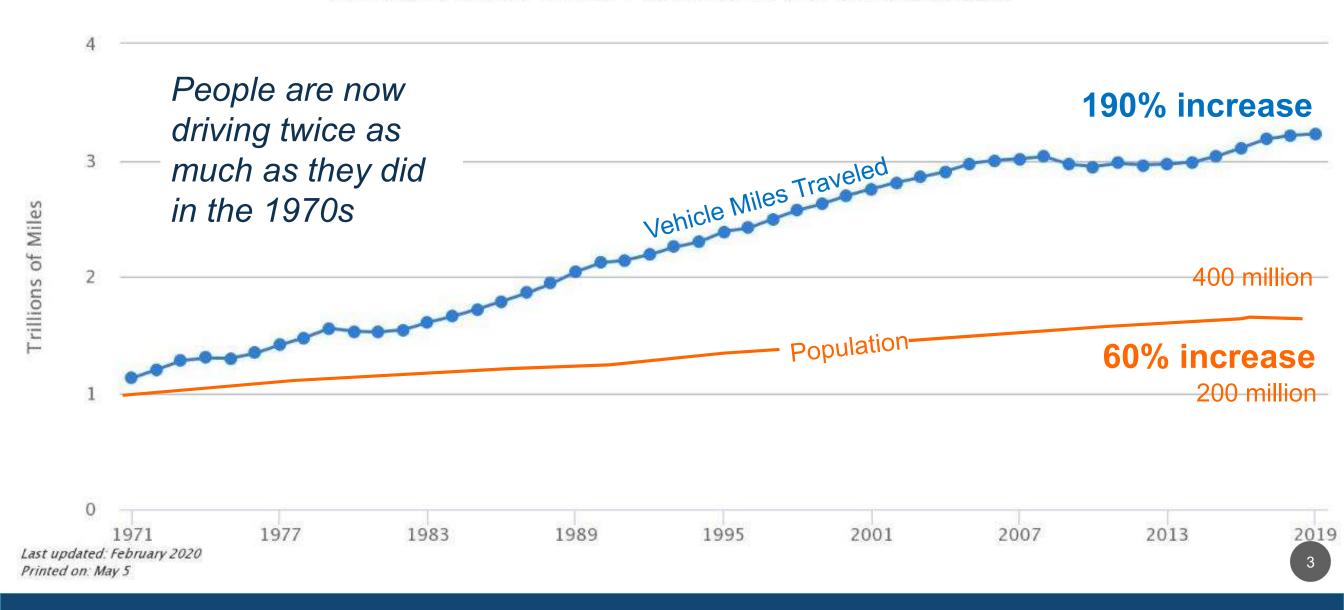
Philip L. Gritzmacher, Jr., AICP

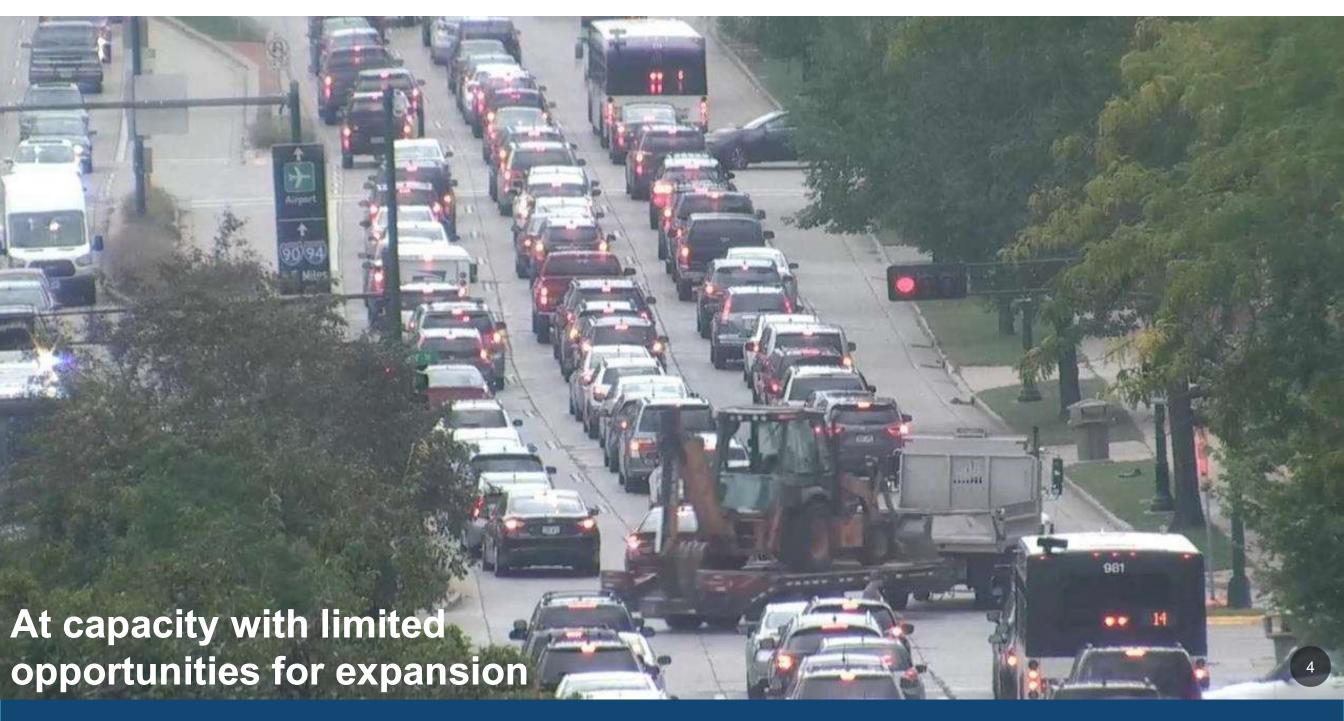
WHAT IS TRANSPORTATION DEMAND MANAGEMENT?

A package of policies and strategies designed to increase transportation system efficiency and shift travel patterns to reduce the number and length of single-occupancy vehicle (SOV) trips.



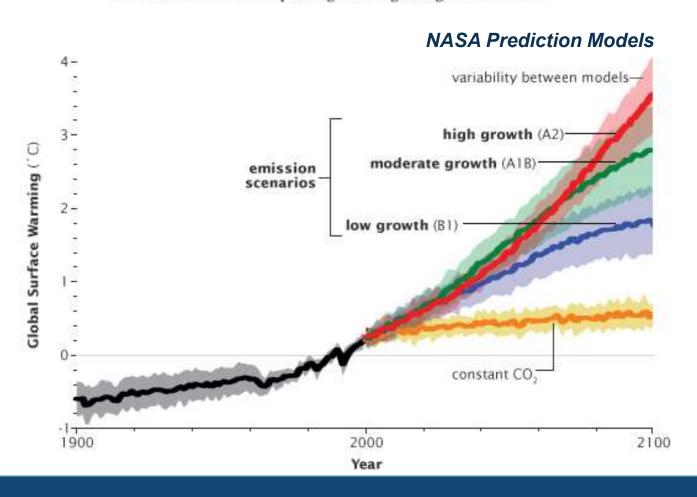
Annual Vehicle Miles Traveled in the United States

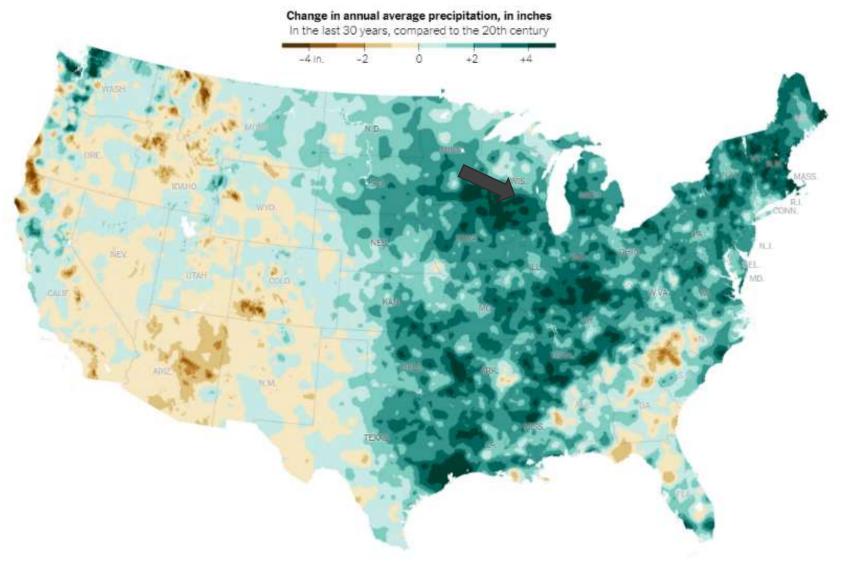




A Hotter Future Is Certain, Climate Panel Warns. But How Hot Is Up to Us.

Some devastating impacts of global warming are now unavoidable, a major new scientific report finds. But there is still a short window to stop things from getting even worse.





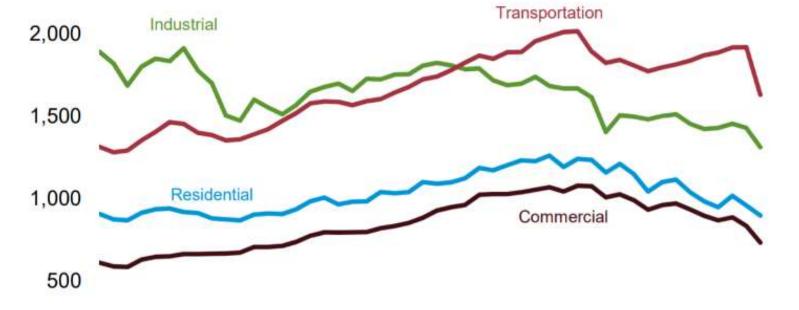


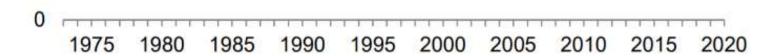
Carbon Dioxide Emissions by Sector

Total [a] by End-Use Sector [b], 1973-2020





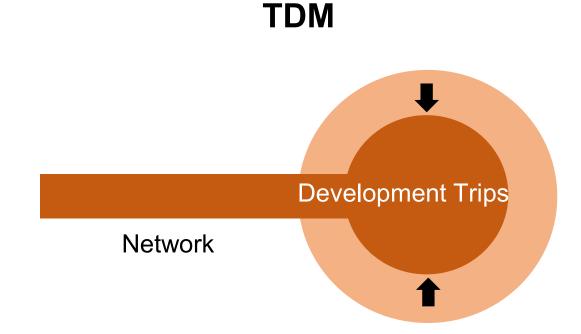




Methods of Facilitating Growth

Traditional Development Trips Network

Increase network capacity to accommodate trips

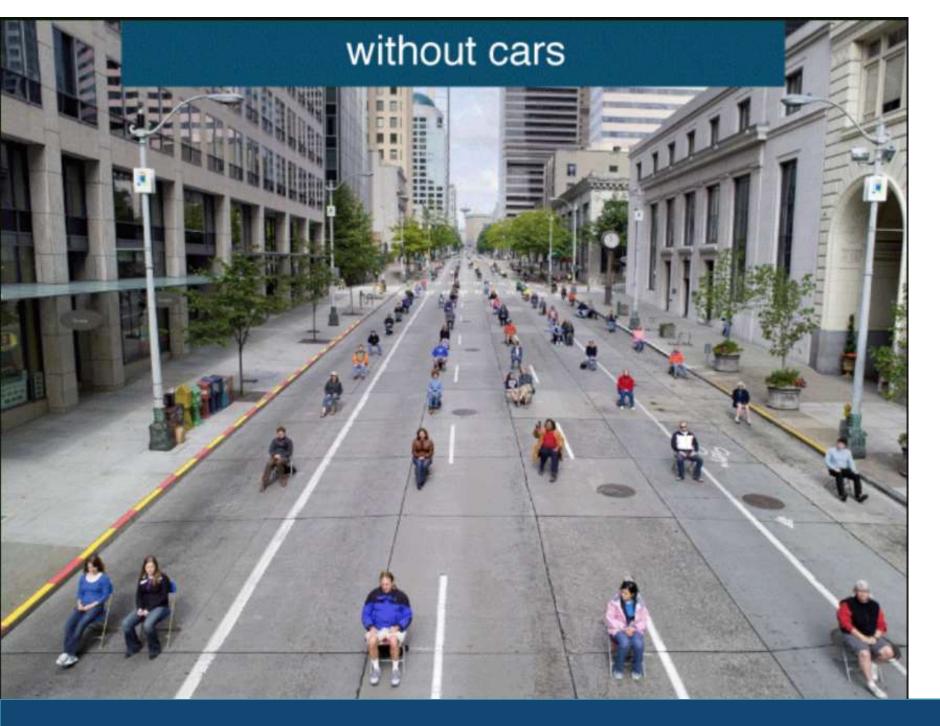


Reduce trips to accommodate network



How Do We Do this?

- Walking
- Biking
- Transit



How Do We Do this?

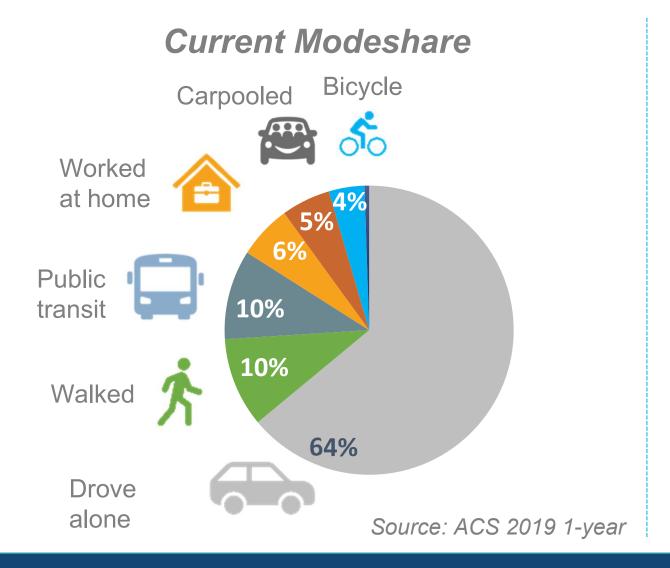
- Walking
- Biking
- Transit



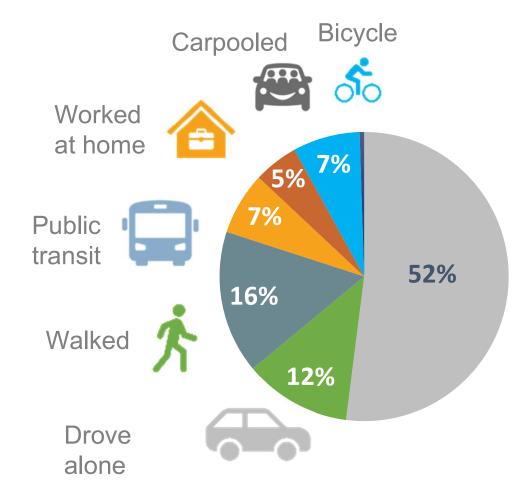
How Do We Do this?

- Walking
- Biking
- Transit

What Would a New TDM Program Do?



Modeshare After TDM



TDM is Aligned with City Plan Strategies



Strategy 5 Action:

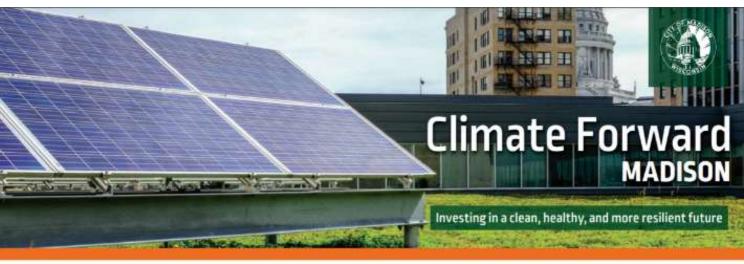
c) Facilitate the creation of transportation management associations and implementation of **TDM strategies to serve high-intensity development** at Activity Centers and along major transit corridors.



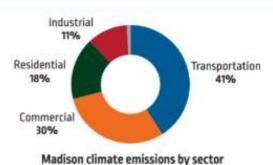
Priority Recommendations:

- 11. Develop a prototype TMA in Madison, at an appropriate area of the city, to organize individual employers and **administer TDM initiatives**.
- 12. Evaluate employer-based **TDM measures to increase the use of alternatives to the SOV** and reduce the need for parking.

Aligned With Sustainability Vision



Climate change threatens our health, our economy, our environment, and our quality of life. Simply put, it is one of the greatest threats of our time, and we all need to do our part to fix it. Madison is ready to do its part. We know that making a big dent in our emissions will mean doing things a little differently. Luckily, changing our ways comes with a lot of benefits — cleaner air and water, lower asthma rates, lower energy bills, less flooding, and more jobs. Madison is ready to step up and build a better economy and community for our future.



Continue to invest in transit and other low-carbon transportation modes

- Charge forward by constructing a bus rapid transit system with clean electric buses
- Continue improving and expanding Metro routing to provide fast, frequent service
- Require new development to incorporate features that help future residents and workers get around without a car
- Construct bike lanes and bike paths to eliminate barriers and reach unserved areas
- Keep improving our street crossing to improve access and connectivity for walking

TDM In Madison Land Use Regulations

Conditional Use

Give consideration to TDM measures and participation in a transportation management association (TMA).

Planned Development District

A TDM plan may be required to resolve traffic and parking concerns. It should include measurable goals, strategies, and actions to encourage travelers to use alternatives to driving alone, especially at congested times of day.

Employment Campus District

Requirement of master plan for any rezoning submittal which needs to have a TDM Plan with measurable goals, strategies, and actions to encourage non-SOV trips.

Mixed Use Center District

City Traffic
Engineer may
require a traffic
impact analysis
(TIA) to determine
the impacts of the
District. A TDM
plan may be
required to resolve
traffic and parking
concerns.

Big-box Retail

Single retail
business
establishments of
or over 40,000 sq.
ft. with 100 or
more full-time
employees are
required to have a
TDM Plan or
participate in a
TMA.

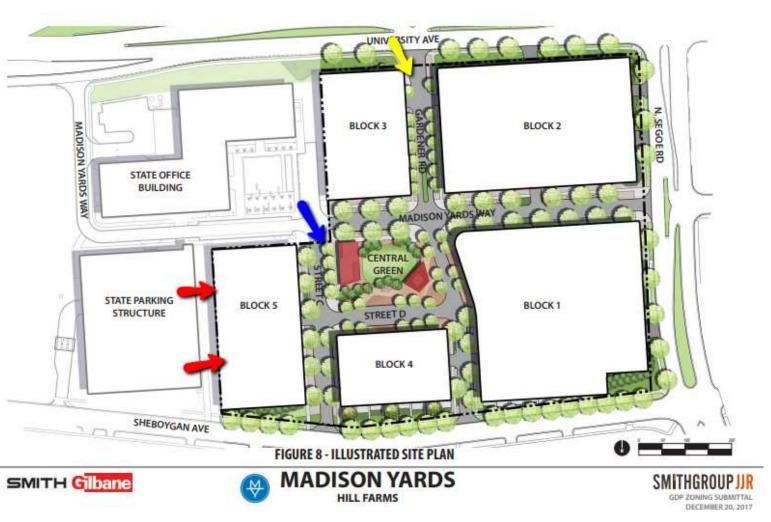


Current TDM Challenges

- Madison has been requesting/requiring some form of TDM and transportation impact mitigation through the development review process for over 20 years.
- Its application has been uneven.
- Developers are unsure what TDM measures may be required.
- Plan Commission and Council members struggle to determine how many TDM measures are enough to warrant approval leading to prolonged discussions.
- Environment of uncertainty for developers and policy makers.

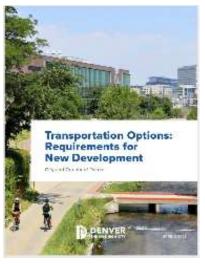
TDM in Madison – Madison Yards

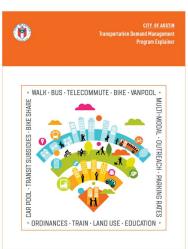
- 4/13/20 PC
- 4/27/20 PC
- 5/19/20 CC
- 6/8/20 PC
- 6/17/20 TPPB
- 7/14/20 CC over 1 hour
- 7/27/20 CC

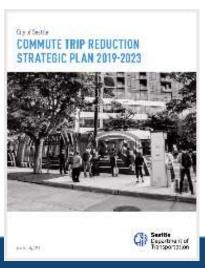


Communities Across the Country are Implementing TDM Programs











Madison's Proposed TDM Process

 Determine applicability

Step 1

Step 2

Determine TDM requirements Create & submit TDM plan

Step 3

Step 4

 Implement TDM measures; reporting and monitoring

Factors That Determine TDM Requirements



Land use(s)

Requirements and measures vary across residential and non-residential uses (employment, commercial, institutional).



Development size

Requirements are proportional to the development size, i.e., number of residential units or non-residential floor area.



Proposed parking

Requirements also depend on parking capacity. Higher parking ratios mean more TDM requirements.



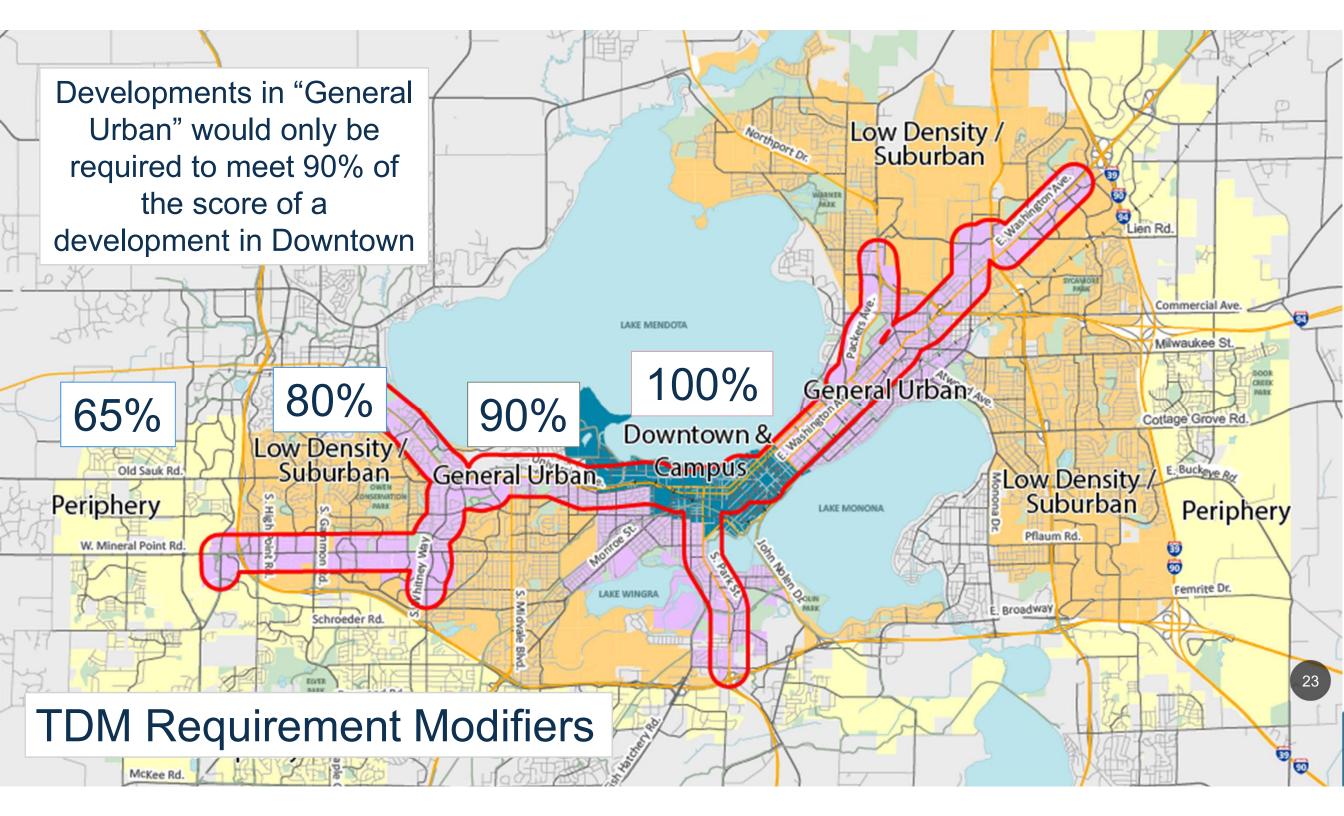
Location

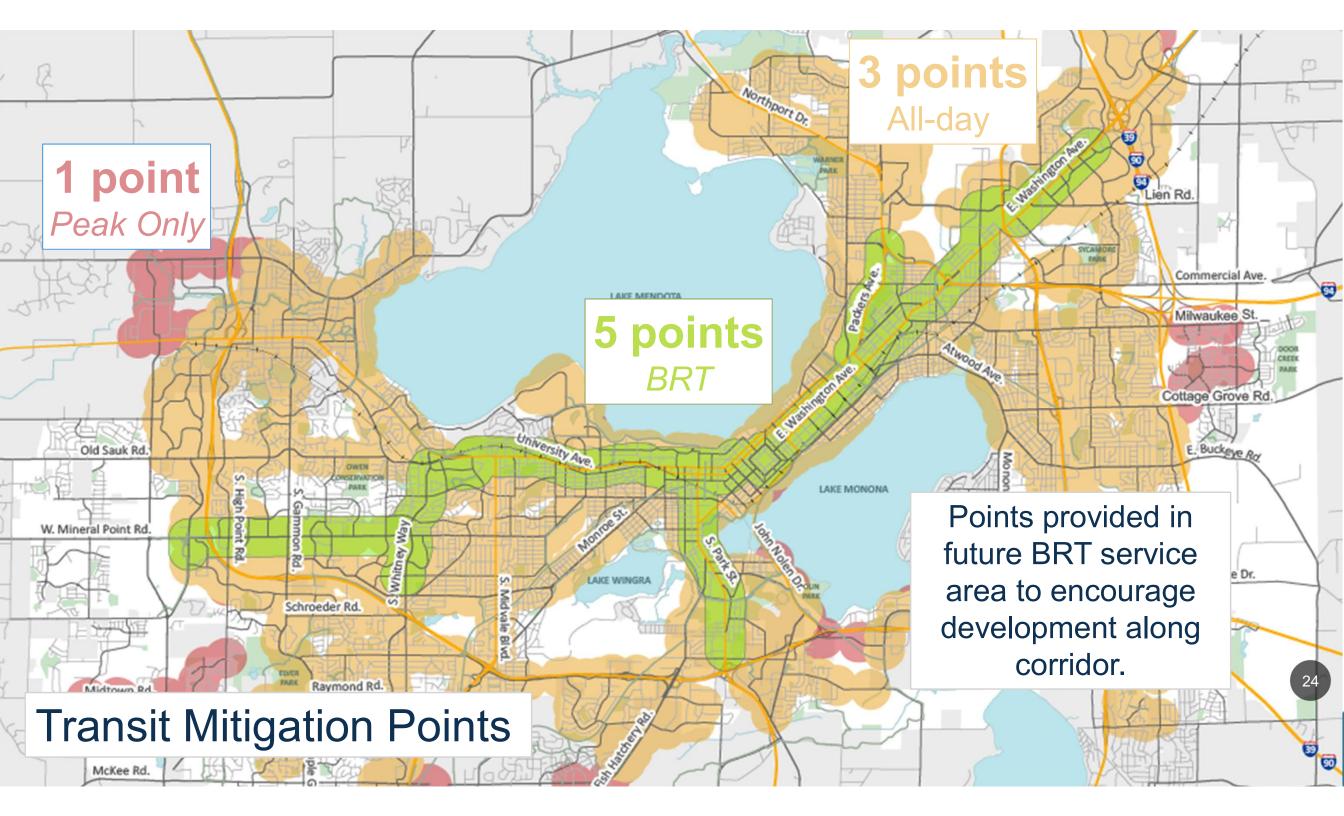
Proximity to transit service provides base points. Ability to implement measures influences TDM requirements.

Identify Mitigation Measures

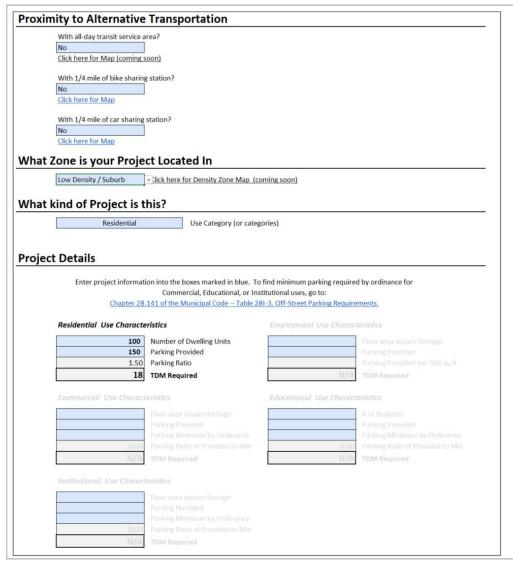
- Each measure is worth points ranging from one to ten.
- Points depend on efficacy in reducing vehicle travel, documented best practices, cost, and contextual relevance for Madison.
- Measures may include modifiers for proximity to transportation services (transit, carshare, bikeshare)

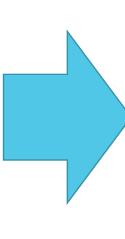
Category	Code	TDM Measures	Max Points
Active	AT-1	Dedicated Access to Bike Parking	1
Transportation	AT-2	Indoor Covered Bike Parking	1
	AT-3	Bicycle Maintenance Facilities	1
	AT-4	Clothes Lockers and Showers	1
	AT-5	Bicycle Lockers or Secure Storage Room	2
	AT-6	Shared Fleet of Bikes for On-site Users	2
	AT-7	Off-site Bike Infrastructure	1-4
	AT-8	Off-site pedestrian infrastructure	1-4
	AT-9	Traffic calming	1-4
Transit	T-1	Validate Transit Passes for Visitors	1
	T-2	Subsidize Monthly Transit Passes OR Daily Passes	1-3
	T-3	Fund Transit Facilities and Amenities	1-4
	T-4	Complementary Transit Passes	7
Parking	P-1	Cash out for employees	10
Management	P-2	Unbundle Parking	10
	P-3	Market-Rate Parking Fees	10
	P-4	Shared Parking Agreement or Off-Site Parking	5
	P-5	Carpool preferential/free parking	1
Shared Mobility	SM-1	Provide a Shuttle bus	3
	SM-2	Provide Vanpool	3
	SM-3	Provide car share parking space.	2
	SM-4	Car share memberships	2
	SM-5	Install a bike share station	6
	SM-6	Provide memberships to employees and residents	2
	SM-7	Emergency Ride Home program	2
	SM-8	Shared Fleet of Vehicles	1
Information &	I-1	Marketing & informational campaign	1
Communication	I-2	Multimodal wayfinding signs	1
	I-3	Alternative Transportation Kiosk	2
Delivery	D-1	Delivery Supportive Amenities	1
	D2	Package Drop-Off Area	2
	D-3	Provide VMT-Reducing Delivery Services	1
Land Use	LU-1	Affordable Housing at 30% AMI	1-10
	LU-2	Affordable Housing at 60% AMI	1-5
	LU-3	Add Land Use Mix	1-5
	LU-4	On-site Daycare Facility	4
	LU-5	Provide Other Specific Trip-reducing Service	1
Employer	EP-1	Flexible Work Schedules Policy	1
Policies	EP-2	Work from Home Policy	1
Other	0-1	Join a Transportation Management Association (TMA)	1
	0-2	Innovative measure	As desired





Would Use TDM Tool For Process





Requi	ired Points		Provided	Point	ts Compliant			
18	Residential	Residential	23	Residen	YES YES			
	Employment			Employ	ment			
	Commercial			Commer	ercial			
	Educational			Education	ional			
	Institutional			Instituti	tional			
Calcula	ited based on your input	ts from Step 1)						
VMT	Reduction S	Strategies						
			All B	lue Boxe	es Require Additional Input. Please Fill In!			
Activ	e Transportation	n Strategies						
v	Infrastructure	Dedicated Access to Bike Parking	Dedicated Access to Bike Parking		Provide a convenient and separate access to the bike parking area without stairs (e.g. on the same level as the entrance, or via a ramp or elevator).			
V	Infrastructure	Indoor covered bike parking near	Entrance	1 1	Locate the bike parking in a covered, indoor space, less than 100 feet from the main entrance.			
V	Infrastructure	Bicycle Maintenance Facilities		1 s	Provide a bicycle maintenance station for on-site employees, tenants, residents and visitors. Tools and supplie should include at minimum: a bicycle pump, wrenches, a chain tool, lubricants, tire levers, hex keys/ Allen wrenches, torx keys, screwdrivers, and spoke wrenches.			
	Infrastructure	Clothes Lockers and Showers		1 F	Provide 1 shower along with 5 clothes lockers for every 30-50 blke parking spaces.			
	Infrastructure	Bicycle Lockers or Secure Storage	Room	2 F	Provide lockers for secure, long-term storage of bikes: 1 locker for every 20 DUs or 30 employees.			
	Programmatic	Shared Fleet of Bicycles			Provide an on-site shared fleet of free loner bicycles for use by residents/ employees. Fleet should include at least 1 bicycle for every 10 DUs or 30 employees, with a minimum of 5 bikes.			
V	Infrastructure	Improve Surrounding <u>Pedestrian</u> Infrastructure		4 5	Improve pedestrian infrastructure (side walks, curb ramps, crosswalk, RRFB, etc.) on adjacent properties withi 500 ft. of project consistent with city plans and ordinances and federal accessibility requirements. 1 point pe 100ft of infrastructure, up to 4 total points.			
	Infrastructure	Improve Surrounding <u>Bicycle</u> Infrastructure		0	Improve bicycle infrastructure (bicycle lanes, cycle tracks, new crossings, bike-ped paths, etc.) within 500 ft. o project consistent with city plans, ordinances, and federal requirements. One point per amenity or one point per 100 ft. of infrastructure, up to 4 points.			
✓	Infrastructure	Traffic Calming Measures		2 (install traffic calming measures such as speed humps and roundabouts. One point per small-dollar measure (e.g. pedestrian flags, temporary speed hump) and two points per large-dollar measure (e.g. RRFB, permanent speed hump). Must be located within 500 ft. of project and be consistent with city plans, ordinances, and federal requirements. One point per amenity or one point per 100ft of infrastructure, up to 4 points.			
Frans	it Strategies							
		thin the all-day transit service area? 50% less if not. (From Step 1)	No					
	Programmatic	Validate Transit Passes for Visito	rs	1	Validate Transit Passes for all residents, employees, or visitors			
	Programmatic	Subsidize Monthly Transit Passes OR daily passes	% subsidy 50%	-	Provide subsidized monthly transit passes to employees/residents (one per DU or employee). 1 point per 25% subsidy, up to 75%.			
	Infrastructure	Fund transit facilities and amenities	# Inc. 0	0 8	Build or fund transit facilities and existing or proposed stops including benches, trash receptacles, shelters, and real-time arrival screens. Up to 1 point per feature, up to a maximum of 4 points. Metro Transit must acce proposal prior to points being awarded.			
	Programmatic	Complementary Transit Passes		3.5 F	Provide complementary monthly transit passes to employees/residents (one per DU or employee).			

Other Considerations

- Program would go into effect 6 months after approval
- Program would not impact existing properties until:
 - Expansion of Parking
 - Expansion of Use
 - Change of Use
 - Redevelopment

Modifications due to Stakeholder Feedback

- Have made approximately 40 modifications to program due to developer/stakeholder feedback
- Feedback has made program more feasible & implementable
- Changes hopefully reduce burden while maintain effectiveness



Department of Transportation

Thomas Lynch, PE, PTOE, PTP, AICP, Director of Transportation

Madison Municipal Building 215 Martin Luther King Jr Blvd Suite 109 P.O. Box 2986 Madison, Wisconsin 53701-2986 Phone: (608) 266-4761 Fax: (608) 267-1158

September 28, 2022

Re: Proposed Changes to Draft TDM Measures

From: Philip Gritzmacher, AICP

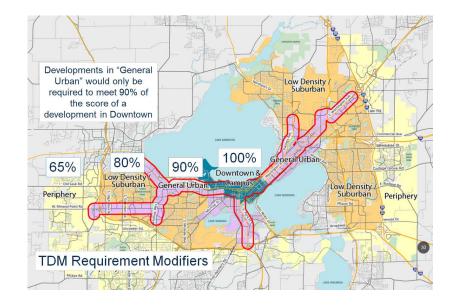
Since developing the final draft of the TDM program in December 2021, DOT staff has revised the program in response for feedback from other city staff, elected officials, and impacted stakeholders. Generally, the plan was revised to ensure that the plan is achievable, equitable, and fair for all that may take part in the program. These refinements include:

Adjustments of Mitigation Measure Definitions and Values

- Indoor Covered Bike Parking Near Entrance allow for indoor covered bike parking to be near any building entrance, rather than just main entrance
- <u>Bike Lockers or Secure Storage Room</u> reduce emphasis on lockers. Removed requirement for specific number of storage lockers, changed to suggestion.
- <u>Bicycle Maintenance Facilities</u> removed requirement for lubricants, changed to suggestion.
- <u>Clothes Lockers and Showers</u> Adjusted language to allow to lockers, showers, or both Increased value of measure to provide 2 points for both lockers and showers, or one point for either lockers or showers alone.
- <u>Shared Fleet of Bikes</u> removed requirement for number of bicycles in shared fleet, changed mandate to recommendation.
- <u>Provide Complimentary Bikeshare Membership or Passes</u> clarified language to specify that passes are only required to be distributed to employees that wish to obtain one.
- Shared Fleet of Vehicles adjust definition for clarity based on stakeholder feedback.
- <u>Emergency Ride Home Program</u> adjusted definition for clarify and to deemphasize Greater Madison MPO.
- <u>Subsidize Monthly Transit Passes OR daily passes and Complementary Transit Passes</u> adjust language to ensure it is clear that passes are only offered to employees/residents that want them.
- <u>Validate Transit Passes or Provide Free Two-Ride Passes</u> removed option for transit pass validation and adjusted definition for clarity.

Modifications due to Stakeholder Feedback

- TDM modifiers to reduce points requirements where TDM measures are harder to implement (periphery).
- Reduced the reliance on Walkscore, which penalized new developments.
- Streamlined measures to reduce complexity.
- More closely aligned point values to coincide with cost to implement
- Developed procedure for existing mall and other multi-use sites.





Modifications due to Stakeholder Feedback

- Point reduction / appeals process added for special circumstances /cases
- Clarify Mitigation Measure Definitions
- Split some measure to make them more achievable
- Moved to bi-annual re-certification to reduce administrative burden for stakeholders
- Adding additional outreach meetings
- Adding report-out after 6 months, to gather feedback from those participating in program



Timeline

- Introduction to Council Nov 1
- Plan Commission Nov 21
- Sustainability Committee Nov 28
- Transportation Commission Nov 30
- TPPB Dec 5
- Consideration at Council Dec 6

equired Points P		Provided	Poin	ts	Compliant									
18	Residential	Residential	23	Residential		YES								
	Employment													
	Commercial													
	Educational													
	Institutional													
alcula	(culated based on your inputs from Step 1)													
/MT	Reduction S	trategies												
		Section of Control	All R	lue Boy	ec Dequire /	udditional Input. Please Fill Inl								
			All b	de box	es nequire /	aditional input. Frease in in								
ctiv	e Transportation	Strategies												
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	Infrastructure	Improve Surrounding <u>Bicycle</u> Infrastructure	0	project con	cycle infrastructure (bicycle lanes, cycle tracks, new crossings, bike-ped paths, etc.) within 500 ft. of sistent with city plans, ordinances, and federal requirements. One point per amenity or one point of infrastructure, up to 4 points.									
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]	Programmatic	Complementary Transit Passes				nplementary monthly transit passes to employees/residents (one per DU or employee).								
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Questions?

Contact Info:

Philip L. Gritzmacher, Jr., AICP

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