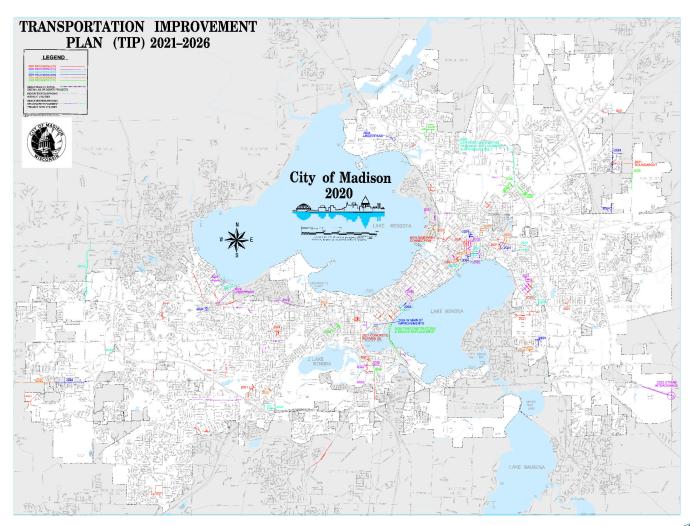


Transportation Project Scoring

Public Works Information Meeting City of Madison Engineering Division Feb 4, 2021

Project Scoring

- How does a project get in the TIP
- Scoring based upon broad group of categories
- Well rounded Improvement Program





Inputs

- Categories
 - Pavement Rating
 - Safety
 - Racial Equity & Social Justice
 - Bicycle Facilities
 - Pedestrian Facilities
 - Failing Underground Utilities
 - Green Infrastructure/Flooding
 - Transit



Pavement Ratings

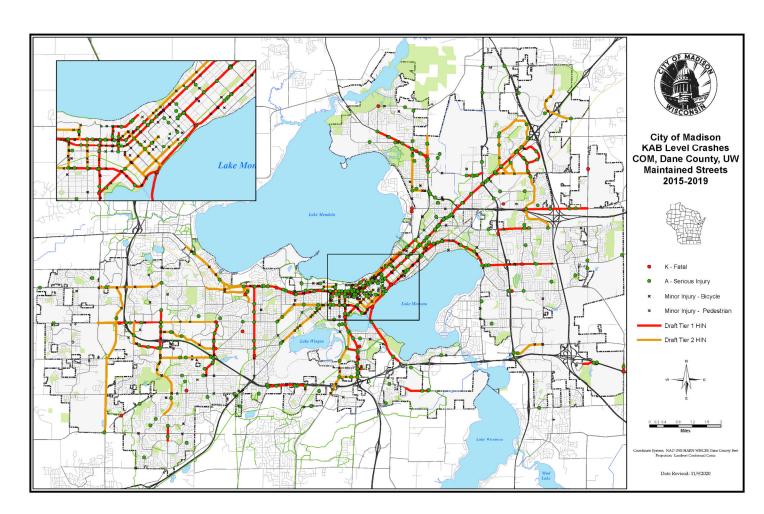
- Pavement rated 1–10, every 2 years
- > 10 is new street
- > 3 is worst condition
- Missing Facility is 10 points

Street Rating	Points
3	10
4	9
5	8
6	7
7	5
8	0
9	0
10	0



Safety

Vision Zero High Injury Network

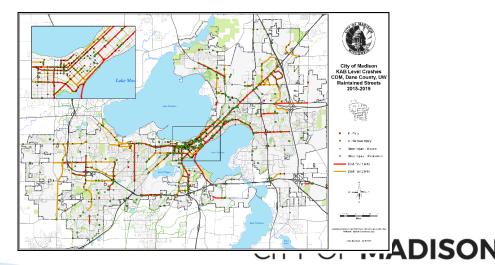




Safety

- Use Vision Zero High Injury Network Map, Traffic Engineering reports
- Only receive points if we feel we can improve upon the current condition

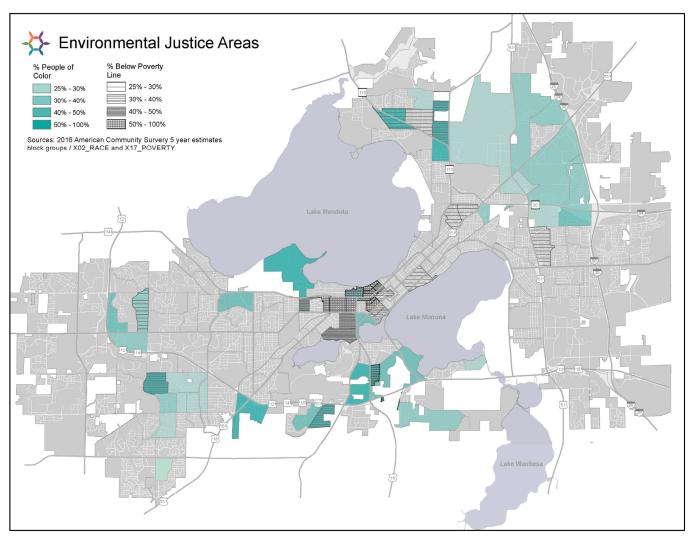
HIN	Points				
Tier 1	10				
Fatality	10				
Tier 2	7				
Create Alternate Route to Tier	5				
Serious Injury	5				
Minor Injury	3				
No Improvement	0				





Equity

- Use AmericanCoummunitySurvey Data
- Neighborhood Resource Team Input





Equity

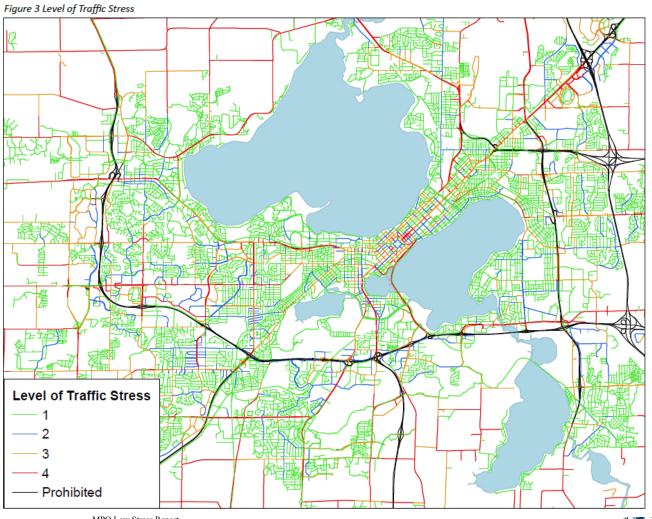
- > % POC, %PBL
- NRT requested projects
- If Project occurs in these neighborhoods, points are scored
- Keep an eye on assessments, our Rural to Urban program has highest assessments

% POC, %PBL	Points
> 25	10
< 25	0



Bike Facilities

> Use Resident requests, Alder requests, MPO Bike Network Plan, Low Stress Report to identify priorities



MPO Low Stress Report

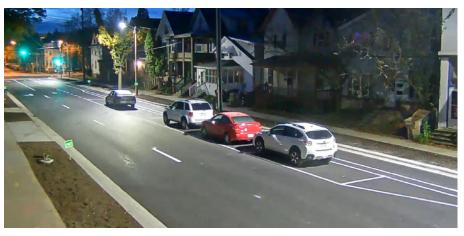


Bike Facilities

Project Scores more with creating low stress, protected facilities

Bike Facilities	Points				
Level of Stress 4	10				
Level of Stress 3	8				
Level of Stress 2	6				
Level of Stress 1	0				

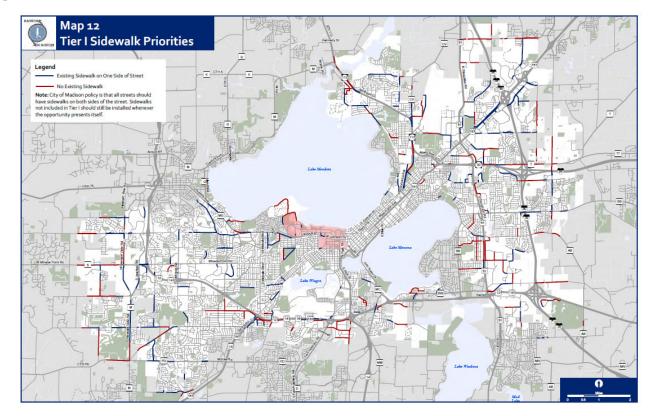






Pedestrian Facilities

Resident Requests,Alder Requests,MIM Priorities







Pedestrian Facilities

Project Scores more with creating new facilities, adjusting grades for ADA access

Pedestrian Facilities	Points					
No Sidewalk	10					
Sidewalk	3					
Reconstructed Sidewalk with ADA compliant Ramps	0					







Failing Underground Utilities

- Want to coordinate failing utility replacement and watershed study solutions with street projects.
- Project Scores more with replacing underground failing facilities
- Project requiring Urgent action scores extra 10

Failing Underground Utilities	Points
Urgent Action Required	10
Failing utility / Flood Issue	7
All good condition utilities	0



Green Infrastructure

Prioritize projects that include green infrastructure potential

Green Infrastructure	Points
No Infrastructure but has potential for Rain Garden, Infiltration, TSS	10
Catch Basin	3
Nothing	0



Transit

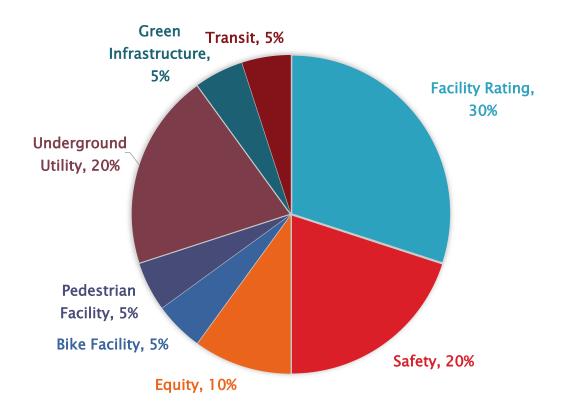
Projects that include Transit improvements gain points

Transit	Points					
Project adds Priority Feature or Bus Lane	10					
On Route, pavement replaced, install ADA compliant Pads	8					
Project adds new sidewalk connection to route	7					
Project doesn't affect Transit	0					



Point System

- > 1-10 points max
- Categories weighted differently
- Bonus Points for areas of Urgent Need





Sample

Project		Blair St. S.		Blair/John Nolen Intersection		Bridge Repair		CTH AB Interchange		John Nolen Dr		Neighborhood Traffic Man		Outer Capitol Loop Southe		Park St	
,		· ·	d Improvement		Improvement		<u> </u>		Project need Improvement		Project need Improvement		Project need Improvement		Project need Improvement		d Improveme
Facilty Rating	30	10	excellent	9	excellent	4	good	10	NA	20	excellent	5	NA	9	excellent	9	excellent
Safety	20	10	fair	10	excellent	5	excellent	20	excellent	10	good	7	excellent	0	same	10	good
Equity	10	10	in area > 25%	10	in area > 25%	10	in area > 25%	0	in area < 25%	10	in area > 25%	10	in area > 25%	0	in area < 25%	10	in area > 25%
Bike Facility	5	10	fair	10	excellent	0	excellent	10	excellent	0	excellent	5	NA	10	good	10	good
Pedestrian Facility	5	3	excellent	3	excellent	0	excellent	10	excellent	3	excellent	3	excellent	3	excellent	3	excellent
Underground Utility	20	7	excellent	7	excellent	5	NA	5	NA	5	NA	5	NA	7	excellent	7	excellent
Green Infrastructure	5	3	fair	3	fair	5	NA	10	excellent	10	good	5	NA	3	fair	3	fair
Transit	5	8	good	8	good	0	NA	0	NA	8	good	5	NA	8	good	8	good
Total	100	86		83		44.5		95		110.5		58		53		83	



Initial Thoughts

- > Still Draft, Through A few iterations
- > A few nuances to work out Project needs, vs Improvement
- Some outliers Bridge Repair program, Railroad Crossings
- Some score low in this system, but are still very important Traffic Calming, Ped Bike Enhancements
- Some projects have Urgent requirements
- > Time consuming, would like to streamline
- Pretty Well Rounded Program many reds/high scores in all categories

