#### March 30, 2016



#### MGO 3.14 Review

City Engineering
Robert Phillips, P.E.
City Engineer

Traffic Engineering & Parking

David Dryer, P.E.

City Traffic Engineer & Parking

Rob Phillips, P.E. rphillips@cityofmadison.com

David Dryer, P.E. CAPP <a href="mailto:ddryer@cityofmadison.com">ddryer@cityofmadison.com</a>



#### CE & TE

#### Are...

- 1. Frontline service delivery agencies—two of the City's core Public Works agencies
- 2. We are considered essential emergency agencies
- 3. TE is largely a maintenance agency, everything that is necessary to operate the surface transportation system
- 4. CE is the construction arm of the City
- 5. TE is one component in the design of streets: maintain, replace & upgrade--street lights, traffic signals, pavement markings, signing, parking system management etc.
- 6. CE design/builds roadway surface, sewer and water, horiz & vertical geometry
- 7. With our partners in Planning & Metro we plan, design and build your public works projects.



### TE/Parking maintains and operates?

**Emergency and PW Communications** 

Signing and marking of Bike Paths

911 Equip. 300+ Traffic Signals

Safety studies Safety Projects

**Bicycle Operations** 

**RP3 Permits** 

**Pavement Markings** 

Access Mgt

Data collection/analysis

Neighborhood Plan/Design

Traffic Control

Fiber Optic Networks

**Permits** 

Reconstruction

Mad Metro

1400 parking meters

ITS components

Parking Ramps

Work Zones

Traffic Cameras

School Zones

Pedestrian operations Plan and Development Review

Traffic Calming 13,000+ Street Lights

Roundabouts

60,00+ Signs

Site design

Radio Towers

Special events

....and much more.

### Who is TE and Parking?

• 132 Employees





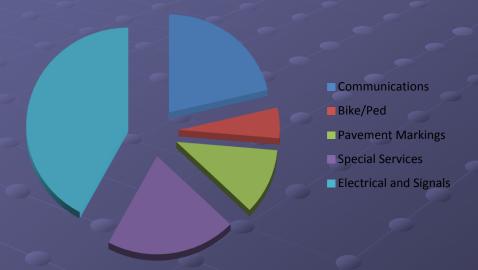


• 121 Field, Maintenance & Support Employees



### How is TE funded?

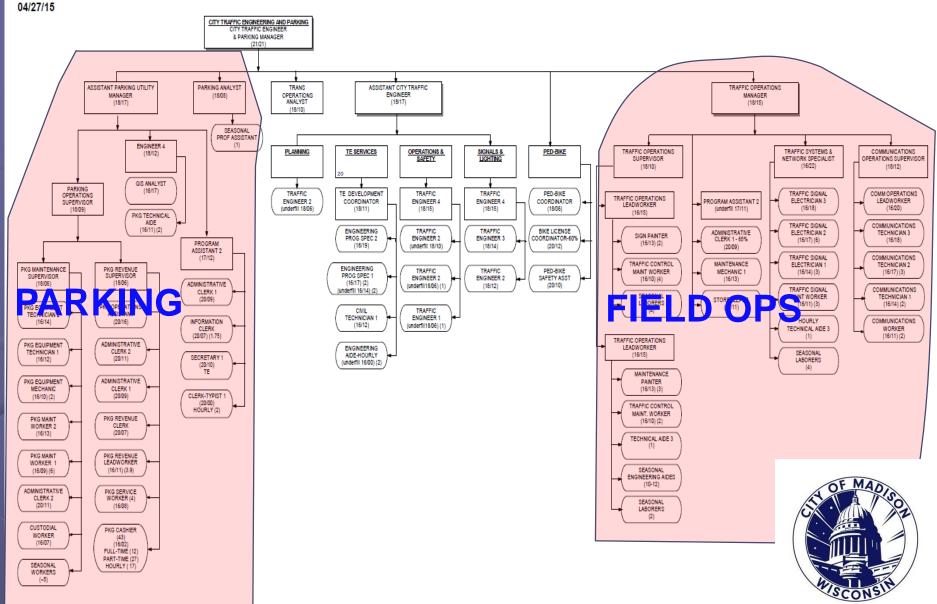




\$5,655,264 2016 Op Budget



TRAFFIC ENGINEERING AND PARKING UTILITY ORGANIZATIONAL CHART 04/27/15



### How is TE/Parking organized?

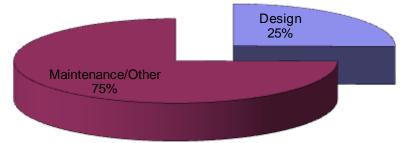
### Eight Sections:

- Administration
- Parking
- Communications
- Electrical
- Field Operations and Maintenance
- Operations and Safety
- Ped/Bike
- Planning and Design



### How are we organized?







### CE maintains and operates?

Design new streets Design Storm Sewers and Sanitary Sewers. Clean out Sanitary Sewers Maintain greenways and ponds **Erosion Control** Design bike paths Transportation Improvement Program Inspect construction Asset management Emergency response Adopt a median program Bid Public Works Projects Median Landscaping **Permits** Closed landfills Street Reconstruction Sewer Capacity Studies Land Surveys Sewer Capacity Studies Rain gardens City Addressing **Utility Permits** Plan and Development Review Repair sidewalks Winter maintenance of bike paths **Board of Public Works** Design City Facilities Televise sewers Brownfields assessment Maintain City Official Map Provide custodial services

....and much more.

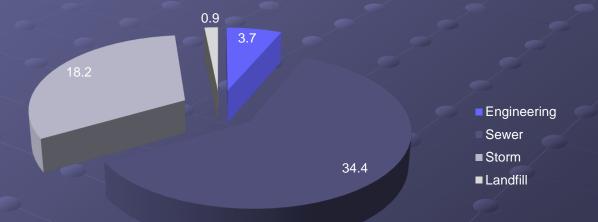
### City Engineering Sections

- Street, Bridges, Bike Paths and Sidewalks
- Mapping and GIS
- Environmental and Closed Landfills
- Storm and Sanitary Sewer Design
- City Facilities and Sustainability
- Construction
- Operations



### How is CE funded?





\$57.2 M 2016 Op Budget



- Streets Bridges Bike Paths and
- Sidewalks Section -
  - Programming
  - Coordination
  - Public Involvement
  - Civil Engineering
  - Assembly of Plans and Specifications



- Mapping and GIS Section -
  - Surveys
  - Determining existing right of way
  - Acquisition of new right of way
  - Official Map



- •Environmental and closed landfills Section -
  - Contaminated soils in right of ways



- Storm and Sanitary Design Section -
  - Permitting
  - Pavement drainage
  - Storm water management
    - Pollution reduction
    - Infiltration
    - Detention
  - Median landscaping contracts
  - Adopt a median program



#### Construction Section-

- Prequlification of contractors
- Bidding
- Construction inspection (along with other departments)
- Construction oversight



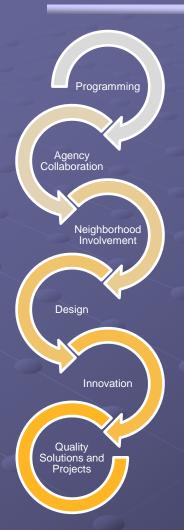
#### Operations Section-

- Maintenance of pavement drainage (storm sewer, detention ponds, etc)
- Plowing of certain Bike Paths
- Snow removal at certain bus stops and sidewalks
- Maintenance of landscaping (certain areas)





The vision for the City of Madison is to be a safe and healthy place to live, work learn and play....



What do we strive to do? Implement transportation programs and projects that enhance mobility and our neighborhoods.









Transportation Programs that shape our City









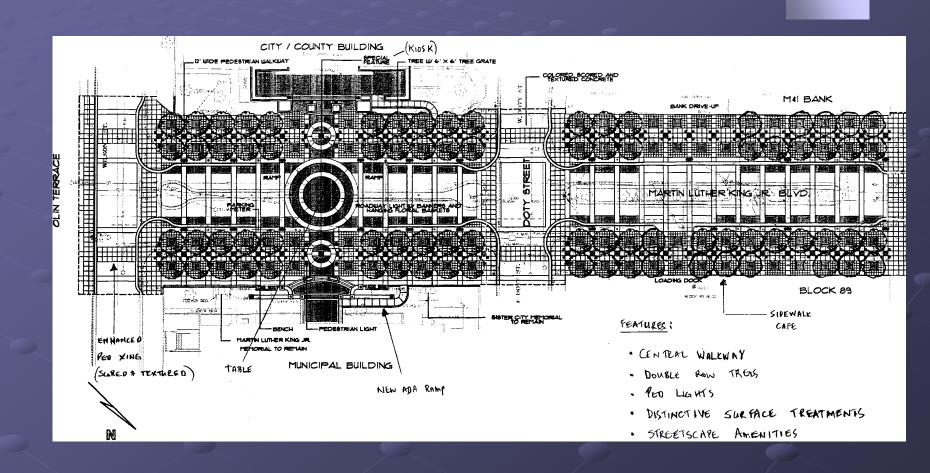


### Streets





## Street Reconstruction MLK Jr. Blvd

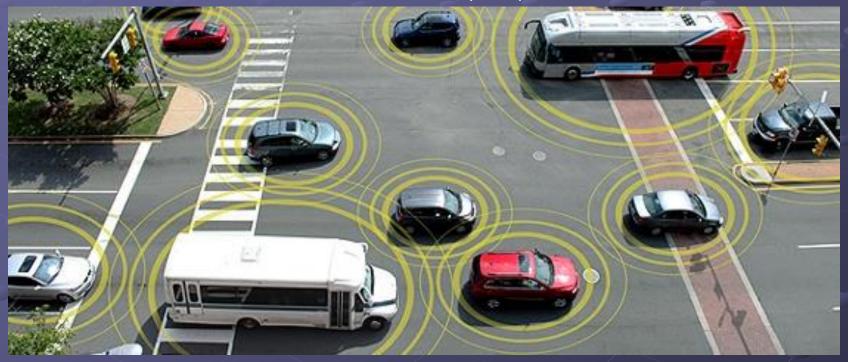


### Street Monitoring & Operation





Vehicle 2 Vehicle Communications (V2V)



**Dedicated Short Range Communications** 

#### **USDOT's Visionfor a Smart City**

To assist cities, the USDOT identified 12 vision elements that are intended to provide a framework for applicants to consider in the development of a city's proposed demonstration without making each item a requirement for award.

#### Technology Elements (Highest Priority)



Vision Element #1
Urban Automation



Vision Element #2
Connected Vehicles



Vision Element #3 Intelligent, Sensor-Based Infrastructure

#### Innovative Approaches to Urban Transportation Elements (High Priority)



Vision Element #4
User-Focused Mobility
Services & Choices



Vision Element #5
Urban Analytics



Vision Element #6
Urban Delivery &
Logistics



Vision Element #7
Strategic Business
Models & Partnering



Vision Element #8 Smart Grid, Roadway Electrification, & EVs



Vision Element #9 Connected, Involved Citizens

#### Smart City Elements (Priority)



Vision Element #10
Architecture &
Standards



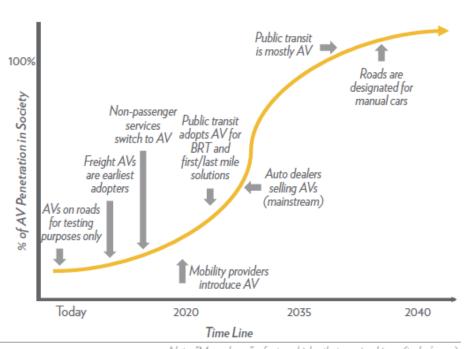
Vision Element #11 Low-Cost, Efficient, Secure, & Resilient ICT



Vision Element #12 Smart Land Use

Vehicle 2 Vehicle Communications (V2V)





Note: "Manual cars" refer to vehicles that require drivers (today's cars).

### Traffic Calming

Improve Livability



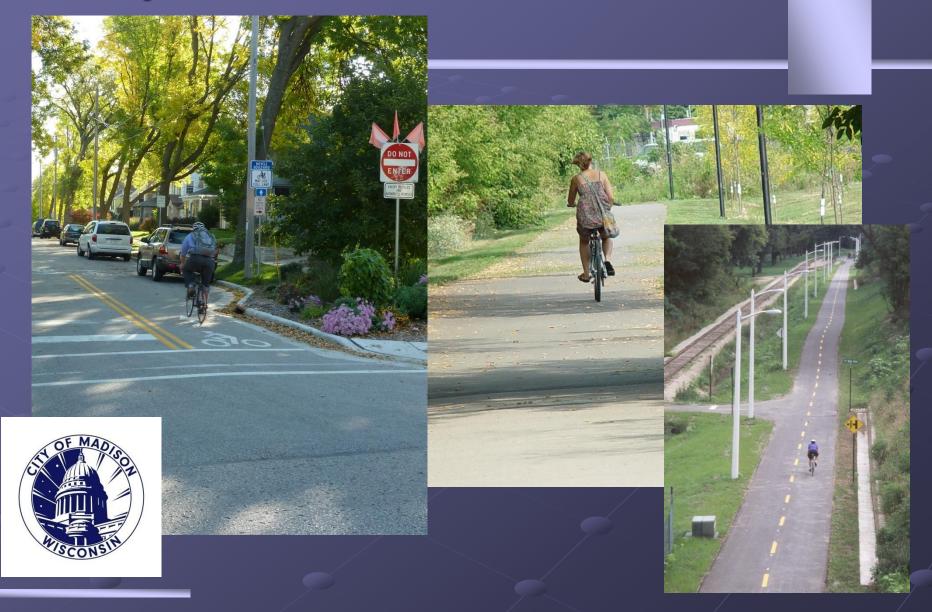


### Bicycle



Source: Capital Newspapers

### Bicycle







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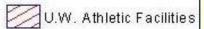
-Provides Commuter access to the Downtown and the University.

rimarily -From anywhere in central Madison, a dedicated trail to the Military Ridge and Capitol City Trails.

-A winter alternative to dangerous slush covered streets.

-Links major University athletic facilities.





John Caleman @ LICGF Oct. 2000 colemanj@calshp.cals.wisc.edu 608-256-8164

## Bicycle



## Bicycle

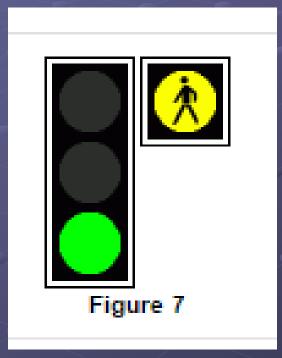


# Bicycle



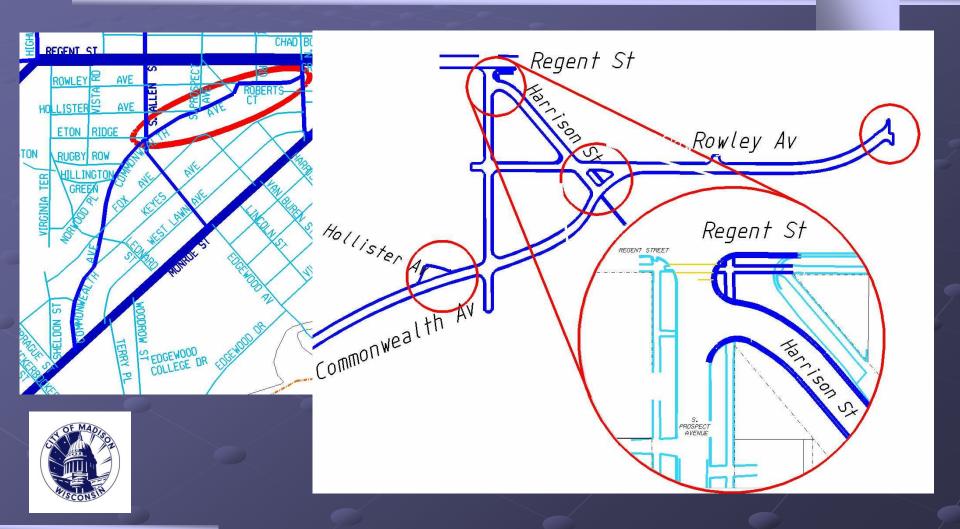






German pedestrian warning signal









Blair at Mifflin
Pedestrian Hybrid Beacon
Mifflin Street bicyclist & pedestrian signals



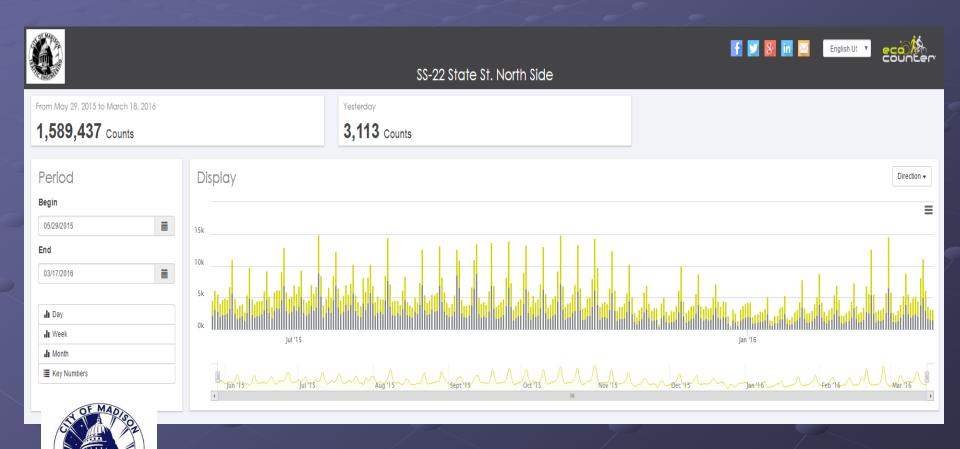








#### Pedestrian/Bike



## Parking



## Parking

>5,500 spaces

5 ramps 3,660 spaces

Madison Parking Utility

On-street meter spaces 1,400

7 Surface Lots 475 spaces



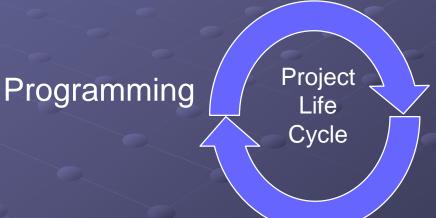
#### Public Pass. Vehicles



# Transportation Solutions Exceptional Neighborhoods



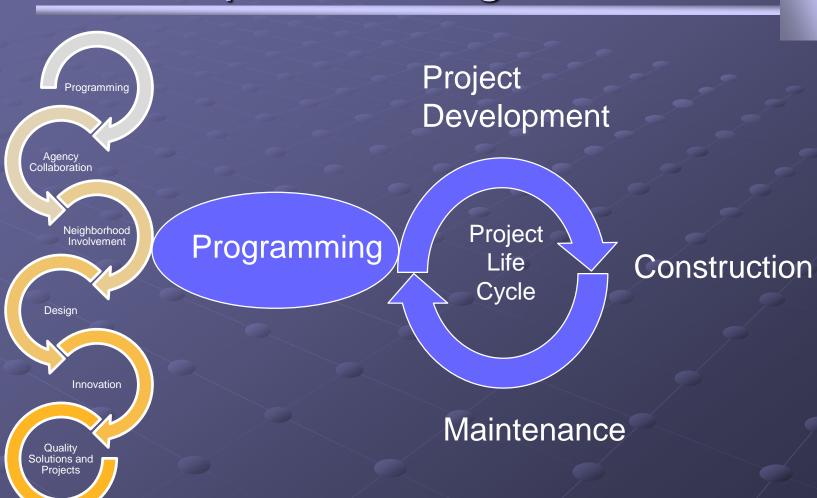
Project Development



Construction

Maintenance

# Transportation Solutions Exceptional Neighborhoods





TIP = BUDGET

Transportation

Adopted

mprovement

Capital

Program

Budget



#### How does a project get into the TIP?

TRANSPORTATION CORRIDORS:
IMPROVEMENTS TO EAST WASHINGTON
AVENUE AND VEHICULAR AND PEDESTRIAN
MOVEMENT IMPROVEMENTS

EAST WASHINGTON AVENUE

 Enhance pedestrian and bicycle networks that improve the safety and connections to frequently traveled locations.

#### Neighborhood Objectives, Issues, and Strategies

The Carpenter-Hawthorne-Ridgeway-Sycamore-Truax Neighborhood has identified three major public improvements that would enhance the stretch of East Washington Avenue from Highway 30 to North Stoughton Road:

# Neighborhood Plans / NRT Recommendation

neignborhood because it serves as the spine uniting the areas neighborhood associations and provides local gathering and shopping areas for its residents. Public and private investment in the East Washington Avenue corridor, especially those that improve the movement of pedestrians, will enhance the livability of the neighborhood.

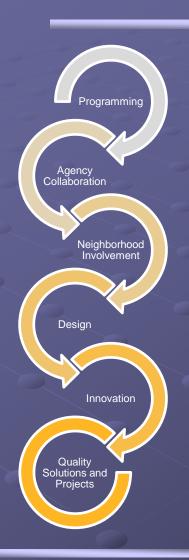
#### Neighborhood Goals

Enhance the aesthetics of East Washington Avenue by installing streetscape amenities, approving high design standards for public infrastructure improvements, and encouraging private enterprises to upgrade their properties to showcase this major gateway into Madison.



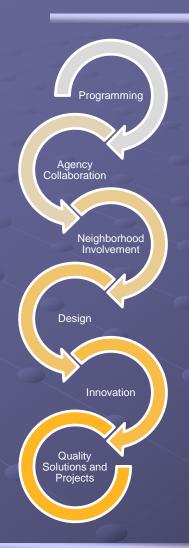
Map 14: Proposed East Washington-North Stoughton Road diamond interchange

Continue to explore the likelihood of a North Stoughton Road underpass at the intersection of East Washington Avenue and North Stoughton Road. Construction of an underpass would facilitate safe pedestrian crossing at the intersection as well as improve the overall appearance of this six-lane intersection (see Map 14).



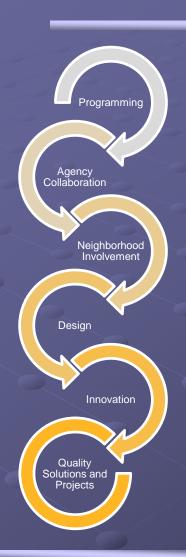
How does a project get into the TIP?





How does a project get into the TIP?

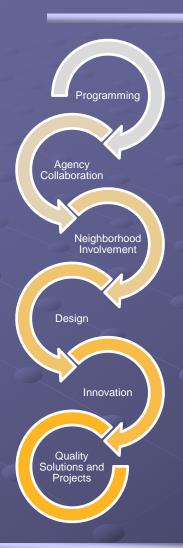




How does a project get into the TIP?

**Traffic Congestion Problem** 





#### How does a project get into the TIP?





What is the number one reason a project gets into the TIP?



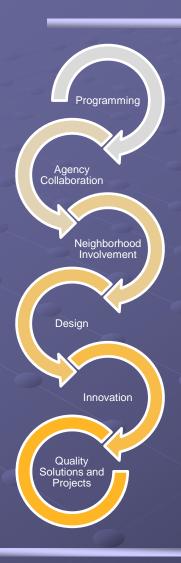




#### How does a project get into the TIP?

- Neighborhood Plan / NRT Recommendation
- Known safety problem
- Facilitate Development
- Traffic congestion problem
- Utility failure or maintenance problem
- Pavement Condition

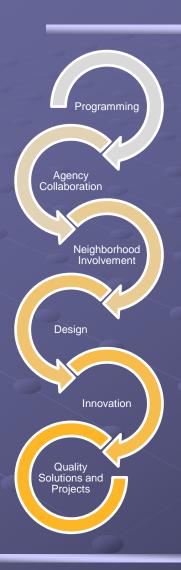
Projects often hit more than one



The Draft TIP is brought to various groups for comments

- •PBMVC
- •LRTPC
- •BPW
- Small Business Advisory Council
- •BID
- •CC

Comments are used to finalize TIP



The TIP is reviewed by other agencies.

- Engineering
- Traffic Engineering
- Planning
- Metro

Comments are used to finalize TIP



# The Draft TIP is submitted to Finance in the form of the Capital Budget

39				
(a)	GO Other	\$	1,000,000	McKee Road (CTH PD)  This project provides funding to Ultimately roadway with bike lanes and sid proposed. The project budge approved by
		\$	1,000,000	the construction year is 2017.  Mayor and
Ø Ø	GO	ė	1,900,000	McKenna Boulevard Reconstruct  This project will improve sofety by
3).	Other	, _	.,	This project will improve safety by  of a median to assist pedestrian crossings a project limits are from Morraine View to he included from
or o		\$	1,900,000	Schroeder Road to Pilgrim Road. 2016 construction will include resurracing McKenna Boulevard from Hammersley Road to Schroeder Road, including the construction of a median from Morraine View to Hammersley Road. 2017 construction will include resurfacing of McKenna Boulevard from
9				Hammersley Road to Pilgrim Road.
9	GO Other	\$	130,000	Mineral Point Road (West Beltline to High Point)  Project No. 11131 This project will replace the existing pavement and replace sidewalk as necessary. The project limits are the West Beltline Highway to High Point Road. The construction year is 2020.
9		\$	130,000	

2016 Major Street Budget

24 Projects and Programs

\$33.3 Million

#### Agency Name: Engineering - Major Streets

1 Anderson Street (Wright to Stoughton) 2 Atwood Ave (Fair Oaks to Cottage Grove) 3 Atwood Avenue (Schenks Corners) 4 Atwood Avenue (Utility Underground) 5 Bridge Repair 6 Buckeye Rd Improvements 7 Capitol Square Pavement Replacement 8 City View Drive 9 Cottage Grove Road 10 CTH M (CTH PD Area) 11 CTH M (Midtown Road Area) 12 Darbo Webb Connection 13 Gammon Road, North 14 Gammon Road, South 15 High Point Rd Bridge Over Beltline 16 Jeffy Trail 17 John Nolen Dr / Blair St Corridor Study 18 Johnson Street, East Reconstruction (Baldwin) 19 Johnson Street, East (Undergrounding Utilities) 20 Martin Luther King Jr Boulevard 21 McKee Road (CTH PD) 22 McKenna Boulevard Reconstruction 23 Mineral Point Road (Beltline to High Point) 24 Mineral Point Road (S Point to Pleasant View) 25 Monroe Street 26 Neighborhood Traffic Management 27 Outer Capitol Loop Southeast 28 Park Street, South (Olin to Railroad) 29 Park St, S (W Wash to Olin, RR to Badger) 30 Pavement Management 31 Pleasant View Road 32 Railroad Crossings & Quiet Zones 33 Reconstruction Streets 34 Royster Clark Development Phase 2 35 Rural To Urban Streets 36 University Ave (Shorewood to Univ Bay) 37 Washington Avenue, East Streetscape	xecutive
3 Atwood Avenue (Schenks Corners) 4 Atwood Avenue (Utility Underground) 5 Bridge Repair 6 Buckeye Rd Improvements 7 Capitol Square Pavement Replacement 8 City View Drive 9 Cottage Grove Road 10 CTH M (CTH PD Area) 11 CTH M (Midtown Road Area) 12 Darbo Webb Connection 13 Gammon Road, North 14 Gammon Road, South 15 High Point Rd Bridge Over Beltline 16 Jeffy Trail 17 John Nolen Dr / Blair St Corridor Study 18 Johnson Street, East Reconstruction (Baldwin) 19 Johnson Street, East (Undergrounding Utilities) 20 Martin Luther King Jr Boulevard 21 McKee Road (CTH PD) 22 McKenna Boulevard Reconstruction 23 Mineral Point Road (Beltline to High Point) 24 Mineral Point Road (S Point to Pleasant View) 25 Monroe Street 26 Neighborhood Traffic Management 27 Outer Capitol Loop Southeast 28 Park Street, South (Olin to Railroad) 29 Park St, S (W Wash to Olin, RR to Badger) 30 Pavement Management 31 Pleasant View Road 32 Railroad Crossings & Quiet Zones 33 Reconstruction Streets 34 Royster Clark Development Phase 2 35 Rural To Urban Streets 36 University Ave (Shorewood to Univ Bay)	-
4 Atwood Avenue (Utility Underground) 5 Bridge Repair 6 Buckeye Rd Improvements 7 Capitol Square Pavement Replacement 8 City View Drive 9 Cottage Grove Road 10 CTH M (CTH PD Area) 11 CTH M (Midtown Road Area) 12 Darbo Webb Connection 13 Gammon Road, North 14 Gammon Road, South 15 High Point Rd Bridge Over Beltline 16 Jeffy Trail 17 John Nolen Dr / Blair St Corridor Study 18 Johnson Street, East Reconstruction (Baldwin) 19 Johnson Street, East (Undergrounding Utilities) 20 Martin Luther King Jr Boulevard 21 McKee Road (CTH PD) 22 McKenna Boulevard Reconstruction 23 Mineral Point Road (Beltline to High Point) 24 Mineral Point Road (S Point to Pleasant View) 25 Monroe Street 26 Neighborhood Traffic Management 27 Outer Capitol Loop Southeast 28 Park Street, South (Olin to Railroad) 29 Park St, S (W Wash to Olin, RR to Badger) 30 Pavement Management 31 Pleasant View Road 32 Railroad Crossings & Quiet Zones 33 Reconstruction Streets 34 Royster Clark Development Phase 2 35 Rural To Urban Streets 36 University Ave (Shorewood to Univ Bay)	217,500
6 Buckeye Rd Improvements 7 Capitol Square Pavement Replacement 8 City View Drive 9 Cottage Grove Road 10 CTH M (CTH PD Area) 11 CTH M (Midtown Road Area) 12 Darbo Webb Connection 13 Gammon Road, North 14 Gammon Road, South 15 High Point Rd Bridge Over Beltline 16 Jeffy Trail 17 John Nolen Dr / Blair St Corridor Study 18 Johnson Street, East Reconstruction (Baldwin) 19 Johnson Street, East (Undergrounding Utilities) 20 Martin Luther King Jr Boulevard 21 McKee Road (CTH PD) 22 McKenna Boulevard Reconstruction 23 Mineral Point Road (Beltline to High Point) 24 Mineral Point Road (S Point to Pleasant View) 25 Monroe Street 26 Neighborhood Traffic Management 27 Outer Capitol Loop Southeast 28 Park Street, South (Olin to Railroad) 29 Park St, S (W Wash to Olin, RR to Badger) 30 Pavement Management 31 Pleasant View Road 32 Railroad Crossings & Quiet Zones 33 Reconstruction Streets 34 Royster Clark Development Phase 2 35 Rural To Urban Streets 36 University Ave (Shorewood to Univ Bay)	-
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8 City View Drive 9 Cottage Grove Road 10 CTH M (CTH PD Area) 11 CTH M (Midtown Road Area) 12 Darbo Webb Connection 13 Gammon Road, North 14 Gammon Road, South 15 High Point Rd Bridge Over Beltline 16 Jeffy Trail 17 John Nolen Dr / Blair St Corridor Study 18 Johnson Street, East Reconstruction (Baldwin) 19 Johnson Street, East (Undergrounding Utilities) 20 Martin Luther King Jr Boulevard 21 McKee Road (CTH PD) 22 McKenna Boulevard Reconstruction 23 Mineral Point Road (Beltline to High Point) 24 Mineral Point Road (S Point to Pleasant View) 25 Monroe Street 26 Neighborhood Traffic Management 27 Outer Capitol Loop Southeast 28 Park Street, South (Olin to Railroad) 29 Park St, S (W Wash to Olin, RR to Badger) 30 Pavement Management 31 Pleasant View Road 32 Railroad Crossings & Quiet Zones 33 Reconstruction Streets 34 Royster Clark Development Phase 2 35 Rural To Urban Streets 36 University Ave (Shorewood to Univ Bay)	165,000
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16 Jeffy Trail  17 John Nolen Dr / Blair St Corridor Study  18 Johnson Street, East Reconstruction (Baldwin)  19 Johnson Street, East (Undergrounding Utilities)  20 Martin Luther King Jr Boulevard  21 McKee Road (CTH PD)  22 McKenna Boulevard Reconstruction  23 Mineral Point Road (Beltline to High Point)  24 Mineral Point Road (S Point to Pleasant View)  25 Monroe Street  26 Neighborhood Traffic Management  27 Outer Capitol Loop Southeast  28 Park Street, South (Olin to Railroad)  29 Park St, S (W Wash to Olin, RR to Badger)  30 Pavement Management  31 Pleasant View Road  32 Railroad Crossings & Quiet Zones  33 Reconstruction Streets  34 Royster Clark Development Phase 2  35 Rural To Urban Streets  36 University Ave (Shorewood to Univ Bay)	-
17 John Nolen Dr / Blair St Corridor Study 18 Johnson Street, East Reconstruction (Baldwin) 19 Johnson Street, East (Undergrounding Utilities) 20 Martin Luther King Jr Boulevard 21 McKee Road (CTH PD) 22 McKenna Boulevard Reconstruction 23 Mineral Point Road (Beltline to High Point) 24 Mineral Point Road (S Point to Pleasant View) 25 Monroe Street 26 Neighborhood Traffic Management 27 Outer Capitol Loop Southeast 28 Park Street, South (Olin to Railroad) 29 Park St, S (W Wash to Olin, RR to Badger) 30 Pavement Management 31 Pleasant View Road 32 Railroad Crossings & Quiet Zones 33 Reconstruction Streets 34 Royster Clark Development Phase 2 35 Rural To Urban Streets 36 University Ave (Shorewood to Univ Bay)	1,150,000
18 Johnson Street, East Reconstruction (Baldwin) 19 Johnson Street, East (Undergrounding Utilities) 20 Martin Luther King Jr Boulevard 21 McKee Road (CTH PD) 22 McKenna Boulevard Reconstruction 23 Mineral Point Road (Beltline to High Point) 24 Mineral Point Road (S Point to Pleasant View) 25 Monroe Street 26 Neighborhood Traffic Management 27 Outer Capitol Loop Southeast 28 Park Street, South (Olin to Railroad) 29 Park St, S (W Wash to Olin, RR to Badger) 30 Pavement Management 31 Pleasant View Road 32 Railroad Crossings & Quiet Zones 33 Reconstruction Streets 34 Royster Clark Development Phase 2 35 Rural To Urban Streets 36 University Ave (Shorewood to Univ Bay)	510,000
19 Johnson Street, East (Undergrounding Utilities) 20 Martin Luther King Jr Boulevard 21 McKee Road (CTH PD) 22 McKenna Boulevard Reconstruction 23 Mineral Point Road (Beltline to High Point) 24 Mineral Point Road (S Point to Pleasant View) 25 Monroe Street 26 Neighborhood Traffic Management 27 Outer Capitol Loop Southeast 28 Park Street, South (Olin to Railroad) 29 Park St, S (W Wash to Olin, RR to Badger) 30 Pavement Management 31 Pleasant View Road 32 Railroad Crossings & Quiet Zones 33 Reconstruction Streets 34 Royster Clark Development Phase 2 35 Rural To Urban Streets 36 University Ave (Shorewood to Univ Bay)	100,000
20 Martin Luther King Jr Boulevard 21 McKee Road (CTH PD) 22 McKenna Boulevard Reconstruction 23 Mineral Point Road (Beltline to High Point) 24 Mineral Point Road (5 Point to Pleasant View) 25 Monroe Street 26 Neighborhood Traffic Management 27 Outer Capitol Loop Southeast 28 Park Street, South (Olin to Railroad) 29 Park St, 5 (W Wash to Olin, RR to Badger) 30 Pavement Management 31 Pleasant View Road 32 Railroad Crossings & Quiet Zones 33 Reconstruction Streets 34 Royster Clark Development Phase 2 35 Rural To Urban Streets 36 University Ave (Shorewood to Univ Bay)	80,000
21 McKee Road (CTH PD) 22 McKenna Boulevard Reconstruction 23 Mineral Point Road (Beltline to High Point) 24 Mineral Point Road (S Point to Pleasant View) 25 Monroe Street 26 Neighborhood Traffic Management 27 Outer Capitol Loop Southeast 28 Park Street, South (Olin to Railroad) 29 Park St, S (W Wash to Olin, RR to Badger) 30 Pavement Management 31 Pleasant View Road 32 Railroad Crossings & Quiet Zones 33 Reconstruction Streets 34 Royster Clark Development Phase 2 35 Rural To Urban Streets 36 University Ave (Shorewood to Univ Bay)	750,000
22 McKenna Boulevard Reconstruction 23 Mineral Point Road (Beltline to High Point) 24 Mineral Point Road (S Point to Pleasant View) 25 Monroe Street 26 Neighborhood Traffic Management 27 Outer Capitol Loop Southeast 28 Park Street, South (Olin to Railroad) 29 Park St, S (W Wash to Olin, RR to Badger) 30 Pavement Management 31 Pleasant View Road 32 Railroad Crossings & Quiet Zones 33 Reconstruction Streets 34 Royster Clark Development Phase 2 35 Rural To Urban Streets 36 University Ave (Shorewood to Univ Bay)	-
23 Mineral Point Road (Beltline to High Point) 24 Mineral Point Road (S Point to Pleasant View) 25 Monroe Street 26 Neighborhood Traffic Management 27 Outer Capitol Loop Southeast 28 Park Street, South (Olin to Railroad) 29 Park St, S (W Wash to Olin, RR to Badger) 30 Pavement Management 31 Pleasant View Road 32 Railroad Crossings & Quiet Zones 33 Reconstruction Streets 34 Royster Clark Development Phase 2 35 Rural To Urban Streets 36 University Ave (Shorewood to Univ Bay)	1,000,000
24 Mineral Point Road (S Point to Pleasant View) 25 Monroe Street 26 Neighborhood Traffic Management 27 Outer Capitol Loop Southeast 28 Park Street, South (Olin to Railroad) 29 Park St, S (W Wash to Olin, RR to Badger) 30 Pavement Management 31 Pleasant View Road 32 Railroad Crossings & Quiet Zones 33 Reconstruction Streets 34 Royster Clark Development Phase 2 35 Rural To Urban Streets 36 University Ave (Shorewood to Univ Bay)	2,650,000
25 Monroe Street 26 Neighborhood Traffic Management 27 Outer Capitol Loop Southeast 28 Park Street, South (Olin to Railroad) 29 Park St, S (W Wash to Olin, RR to Badger) 30 Pavement Management 31 Pleasant View Road 32 Railroad Crossings & Quiet Zones 33 Reconstruction Streets 34 Royster Clark Development Phase 2 35 Rural To Urban Streets 36 University Ave (Shorewood to Univ Bay)	130,000
26 Neighborhood Traffic Management 27 Outer Capitol Loop Southeast 28 Park Street, South (Olin to Railroad) 29 Park St, S (W Wash to Olin, RR to Badger) 30 Pavement Management 31 Pleasant View Road 32 Railroad Crossings & Quiet Zones 33 Reconstruction Streets 34 Royster Clark Development Phase 2 35 Rural To Urban Streets 36 University Ave (Shorewood to Univ Bay)	-
27 Outer Capitol Loop Southeast 28 Park Street, South (Olin to Railroad) 29 Park St, S (W Wash to Olin, RR to Badger) 30 Pavement Management 31 Pleasant View Road 32 Railroad Crossings & Quiet Zones 33 Reconstruction Streets 34 Royster Clark Development Phase 2 35 Rural To Urban Streets 36 University Ave (Shorewood to Univ Bay)	200,000
28 Park Street, South (Olin to Railroad) 29 Park St, S (W Wash to Olin, RR to Badger) 30 Pavement Management 31 Pleasant View Road 32 Railroad Crossings & Quiet Zones 33 Reconstruction Streets 34 Royster Clark Development Phase 2 35 Rural To Urban Streets 36 University Ave (Shorewood to Univ Bay)	100,000
29 Park St, S (W Wash to Olin, RR to Badger) 30 Pavement Management 31 Pleasant View Road 32 Railroad Crossings & Quiet Zones 33 Reconstruction Streets 34 Royster Clark Development Phase 2 35 Rural To Urban Streets 36 University Ave (Shorewood to Univ Bay)	-
30 Pavement Management 31 Pleasant View Road 32 Railroad Crossings & Quiet Zones 33 Reconstruction Streets 34 Royster Clark Development Phase 2 35 Rural To Urban Streets 36 University Ave (Shorewood to Univ Bay)	-
31 Pleasant View Road 32 Railroad Crossings & Quiet Zones 33 Reconstruction Streets 34 Royster Clark Development Phase 2 35 Rural To Urban Streets 36 University Ave (Shorewood to Univ Bay)	-
32 Railroad Crossings & Quiet Zones 33 Reconstruction Streets 34 Royster Clark Development Phase 2 35 Rural To Urban Streets 36 University Ave (Shorewood to Univ Bay)	5,959,370
33 Reconstruction Streets 34 Royster Clark Development Phase 2 35 Rural To Urban Streets 36 University Ave (Shorewood to Univ Bay)	200,000
34 Royster Clark Development Phase 2 35 Rural To Urban Streets 36 University Ave (Shorewood to Univ Bay)	420,000
35 Rural To Urban Streets 36 University Ave (Shorewood to Univ Bay)	2,184,520
36 University Ave (Shorewood to Univ Bay)	3,770,000
	2,676,925
37 Washington Avenue Fast Streetscane	
	_
38 Washington Ave, W (Regent to Bedford)	_
39 Wilson/Williamson St (Franklin to Blount)	-
Total \$	33,298,315

#### Agency Name: Engineering - Major Streets

Total

#### Major Streets Through 2021

Project	Reauth	2016	2017	2018	2019	2020	2021
1 Anderson Street (Wright to Stoughton)	-	-	-	-	-	440,000	-
2 Atwood Ave (Fair Oaks to Cottage Grove)	-	217,500	652,500	-	500,000	2,144,000	1,336,000
3 Atwood Avenue (Schenks Corners)	-	-	-	2,420,000	-	-	-
4 Atwood Avenue (Utility Underground)	-	400,000	-	-	-	-	-
5 Bridge Repair	-	50,000	130,000	140,000	150,000	160,000	170,000
6 Buckeye Road	-	165,000	200,000	1,035,000	-	-	-
7 Capitol Square Pavement Replacement	-	1,695,000	1,695,000	-	-	-	-
8 City View Drive	-	2,760,000	-	-	-	-	-
9 Cottage Grove Road	306,000	224,000	1,000,000	2,640,000	-	-	-
10 CTH M (CTH PD Area)	1,500,000	1,500,000	8,300,000	-	-	-	-
11 CTH M (Midtown Road Area)	3,000,000	-	6,400,000	-	-	-	-
12 Darbo Webb Connection	-	-	-	-	780,000	-	-
13 Gammon Road, North	-	-	-	-	-	-	50,000
14 Gammon Road, South	-	-	260,000	2,550,000	-	-	-
15 High Point Road Bridge Over Beltline	-	1,150,000	-	-	-	-	-
16 Jeffy Trail	-	-	510,000	-	-	-	-
17 John Nolen Dr / Blair St Corridor Study	-	100,000	-	-	-	-	-
18 Johnson St, East Reconstruction (Baldwin)	-	80,000	-	200,000	2,185,000	-	-
19 Johnson St, East (Underground Utilities)	-	750,000	750,000	-	-	-	-
20 Martin Luther King Jr Boulevard	-	-	-	-	2,000,000	-	-
21 McKee Road (CTH PD)	-	1,000,000	6,080,000	-	-	-	-
22 McKenna Boulevard Reconstruction	-	1,900,000	750,000	-	-	-	-
23 Mineral Point Rd (Beltline to High Point)	-	130,000	-	-	-	665,000	-
24 Mineral Pt Rd (S Point to Pleasant View)	-	-	270,000	270,000	-	-	-
25 Monroe Street	-	150,000	600,000	10,090,000	-	-	-
26 Neighborhood Traffic Management	-	300,000	310,000	320,000	330,000	340,000	350,000
27 Outer Capitol Loop Southeast	-	-	1,770,000	-	-	-	-
28 Park Street, South (Olin to Railroad)	-	-	-	300,000	-	3,005,000	-
29 Park St, S (W Wash to Olin, RR to Badger)	-	-	-	-	3,090,000	-	-
30 Pavement Management	700,000	5,259,370	6,375,000	11,025,000	11,325,000	11,625,000	11,925,000
31 Pleasant View Road	88,000	112,000	200,000	785,000	1,060,000	-	-
32 Railroad Crossings & Quiet Zones	18,000	402,000	1,200,000	1,020,000	130,000	140,000	150,000
33 Reconstruction Streets	600,000	1,584,520	2,815,000	4,815,000	4,815,000	4,815,000	4,815,000
34 Royster Clark Development Phase 2	2,658,000	1,112,000					
35 Rural To Urban Streets		4,026,925	4,400,000	4,600,000	4,800,000	5,000,000	5,200,000
36 University Ave (Shorewood to Univ Bay)			270,000	270,000			
37 Washington Avenue, East Streetscape							200,000
38 Washington Ave, W (Regent to Bedford)	-	-	-	1,950,000	-	-	-
39 Wilson/Williamson St (Franklin to Blount)	-		_	1,650,000	-	-	

\$ 8,870,000 \$ 25,068,315 \$ 44,937,500 \$ 46,080,000 \$ 31,165,000 \$ 28,334,000 \$ 24,196,000

2016
Pedestrian
and Bike
Capital
Budget

12 Projects

\$7.4 M

Agency Name: Engineering - Bicycle and Pedestrian

Project Name	Executive
1 Bike Station	1,000,000
2 Bikeways Program	680,000
3 Cannonball Path	-
4 Capital City Trail	520,000
5 Goodman Path	490,000
6 Ice Age Junction	470,000
7 Ped/Bike Enhancements	210,000
8 Safe Routes to School	83,000
9 Safe Routes Grants Program	150,000
10 Sidewalk Program	2,685,000
11 State Street 700/800 Blocks	500,000
12 West Towne Path	590,000
13 Whitney Way Bike Crossing	25,000
Total	\$ 7,403,000

# Ped / Bike through 2021

2016 Capital Budget Capital Improvement Program

Agency Name: Engineering - Bicycle and Pedestrian

Project	Reauth	2016	2017	2018	2019	2020	2021
1 Bike Station	-	1,000,000	-	-	-	-	-
2 Bikeways Program	129,000	551,000	779,000	751,000	630,000	670,000	703,000
3 Cannonball Path	-	-	-	-	-	990,000	-
4 Capital City Trail	100,000	420,000	1,090,000	130,000	360,000	770,000	-
5 Goodman Path	-	490,000	350,000	560,000	-	-	-
6 Ice Age Junction	470,000	-	2,900,000	1,660,000	300,000	-	-
7 Ped/Bike Enhancements	-	210,000	216,000	222,000	229,000	230,000	243,000
8 Safe Routes to School	-	83,000	87,000	91,000	96,000	101,000	106,000
9 Safe Routes Grants Program	-	150,000	150,000	150,000	150,000	150,000	150,000
10 Sidewalk Program	-	2,685,000	2,316,000	2,432,000	2,554,000	2,682,000	2,816,000
11 State Street 700/800 Blocks	500,000	-	-	-	-	-	-
12 West Towne Path	-	590,000	1,580,000	2,620,000	1,400,000	-	-
13 Whitney Way Bike Crossing	-	25,000	_	_		-	-
Total	\$ 1,199,000	\$ 6,204,000	\$ 9,468,000	\$ 8,616,000	\$ 5,719,000	\$ 5,593,000	\$ 4,018,000



The TIP is separately approved by the Madison Area Transportation Planning Board



Transportation
Improvement Progr

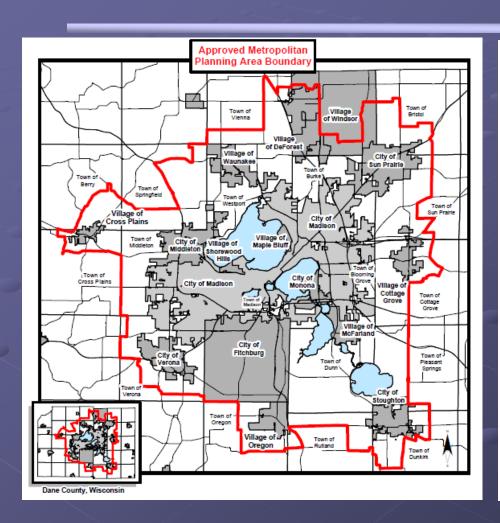
Madison Metropolitan Area & Dane Cou

The Planning Board is the Federally designated Metropolitan Planning Organization (MPO)

Madison Area Transportation Planning Board

A Metropolitan Planning Organization (MPO)

#### Programming – MPO AREA



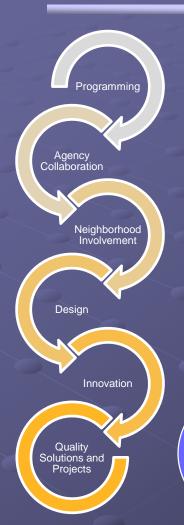
#### Currently consists of:

- Cities of Madison, Fitchburg,
   Middleton, Monona, Stoughton, Sun Prairie, and Verona.
- Villages of Cottage Grove, Cross Plains, DeForest, Maple Bluff, McFarland, Oregon, Shorewood Hills, Waunakee, and Windsor.
- Towns of Blooming Grove, Burke, Dunn, Madison, Middleton, Westport, and a portion of the Towns of Berry, Bristol, Cottage Grove, Cross Plains, Dunkirk, Oregon, Pleasant Springs, Rutland, Springfield, Sun Prairie, Verona, and Vienna.



Who determines what projects and programs Federal Funds are used on?

### Programming



Who determines what projects and programs Federal Funds are used on?



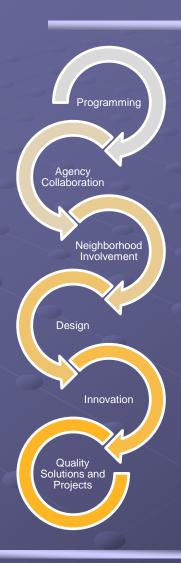
Transportation
Improvement Progr

Dane Cou

The MPO

Federal Funds are provided to the Madison Area by formula

### Programming

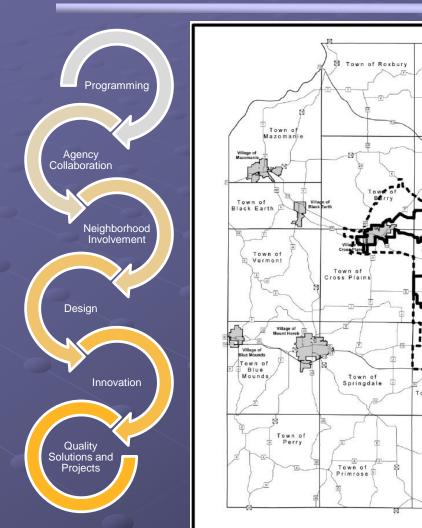


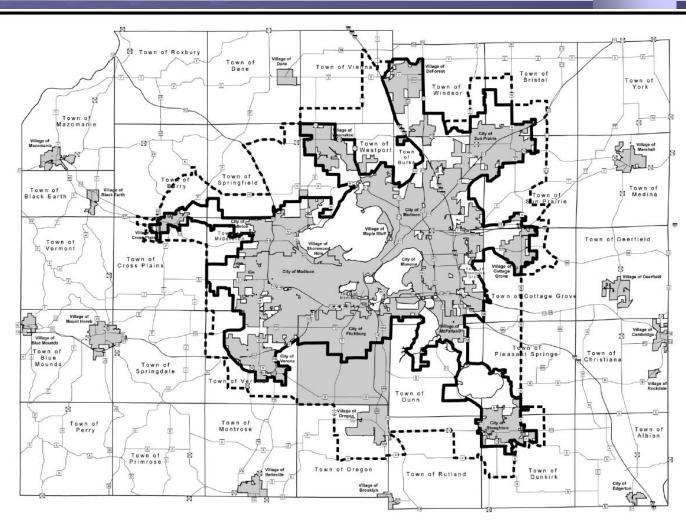
Federal General Transportation Funds ~ \$7 Million per year (STP Urban)

Federal Ped/Bike Funds ~ \$500,000 per year (Transp Alternative Projects)

There are other State and Federal Funds used in the Madison Area that are not under control of the MPO but are reflected in the adopted TIP

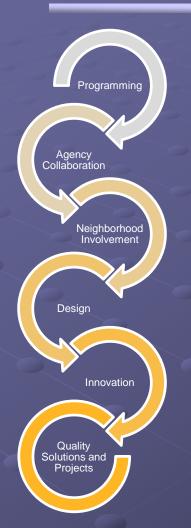
### Programming – MPO Urban Area





### 2016 - 2020 Madison Area STP Urban Priority Projects

Project	Project ID	Score	Construction/ Project Calendar Year	State Fiscal Year	Total Cost (thousands)	Percent (Fed \$)	Federal Funds Currently Approved (thousands)	Proposed Federal Funds (thousands)
Approved Priority Projects (2016-2018)								
MPO Rideshare Program	5992-08-20,30-32		2016-2018	2016-2018	\$315	80	\$253	\$253
City of Madison Ped/Bike Safety Education Program	5992-08-29,33-35		2016-2018	2016-2018	\$366	80	\$293	\$293
Metro Transit Bus Replacements (Up to 7)	5992-10-00		2016-2017	2016-2017	\$3,690	50	\$1,845	\$1,845
YWCA JobRide Program Van Replacements (6)	5992-10-01		2016	2016	\$90	80	\$72	\$72
CTH M (Cross Country Rd. to 2,500' N of CTH PD) AND	5992-09-82		2016	2017				
CTH M (2,500' N of CTH PD to 1,000 S of Valley View Road)	5992-09-85		2016	2017	\$35,800	50	\$14,700	\$17,451
McKee Rd./CTH PD (Meriter Way to Maple Grove Rd.)	5992-09-31		2017	2017	\$13,485	50	\$6,080	\$6,080
Lacy Rd. (City Hall to Syene Rd.)	5849-00-11		2017	2017	\$6,139	50	\$2,000	\$2,854
Buckeye Rd./CTH AB (Monona Dr. to Stoughton Rd./USH 51)	5992-09-41		2018	2018	\$2,130	50	\$920	\$920
								\$29,768
New Priority Projects (2019-2020)								
MPO Rideshare Program	Ongoing	N/A	2019-2020	2019-2020	\$226	80		\$181
City of Madison Ped/Bike Safety Education Program	Ongoing	N/A	2019-2020	2019-2020	\$200	80		\$160
E. Johnson St. (Baldwin St. to First St.) Phase 2	5992-09-14	73	2019	2019	\$4,370	60		\$2,622
University Ave. (Allen/CTH Q to Univ Bay) Adaptive Signal System	New	64	2018	2019	\$456	70		\$317
McKee Rd./CTH PD (Commerce Park Dr to Seminole Hwy.)	New	63	2019	2020	\$5,809	60		\$3,485
Mineral Point Rd. (USH 12 to High Point Rd.)	New	61	2020	2020	\$1,330	60		\$798
Atwood Ave. (Fair Oaks Ave. to Walter St.) Phase 1	New	60	2020	2020	\$5,360	60		\$3,216
Cottage Grove Rd/CTH BB (North Star Dr to Sprecher Rd)	5992-09-26	56	2018	2019	\$5,750	60		\$3,450
								\$14,229
Candidate Future Projects (2021-2022)								
Pleasant View Rd. (USH 14 to Greenway Blvd.) Phase 1	New	61	2021	2021	\$17,120	60		
Atwood Ave. (Walter St. to Cottage Grove Rd.) Phase 2	New	60	2021	2022	\$3,432	60		
Mineral Point Rd./CTH S (Pleasant View Rd. to Veritas Dr.)	New	59			\$5,360	60		
Hoepker Rd. (USH 51 to I-39/90)	New	54			\$2,000	60		
Sprecher Rd. (Milwaukee St. to CTH T)	New	48			\$3,320	60		
Troy Dr. RR Bridge & Street Imp. (Marcy Rd. to School Rd.)	New	36			\$4,640	60		



Project Development

Timeline Varies from 3 months to several years

Programming



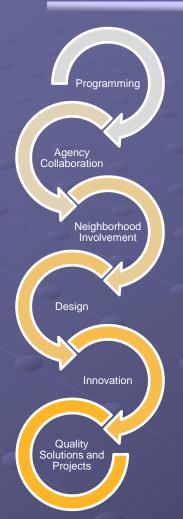
Construction

Maintenance

# Project Development Agency Collaboration



## Project Development Agency Collaboration



TE / CE monthly Pedestrian and Bike Coordination Meetings.

TE / CE Monthly Roadways Project Coordination Meetings

TE / Metro monthly Coordination Meetings.

Regular project collaboration on issues such as traffic modeling, lighting, signals, signing, parking, street trees, Bikes/Ped, Metro & traffic control.

City Planners assigned to assist designers

Detailed involvement with Metro for transit facilities.

Sanitary Sewer, Water Main, Storm Sewer, and Private Utilities

# Project Development Neighborhood Involvement





## Project Development Neighborhood Involvement



At least one neighborhood meeting for every street and bike path project. Multiple opportunities for comments on larger projects.

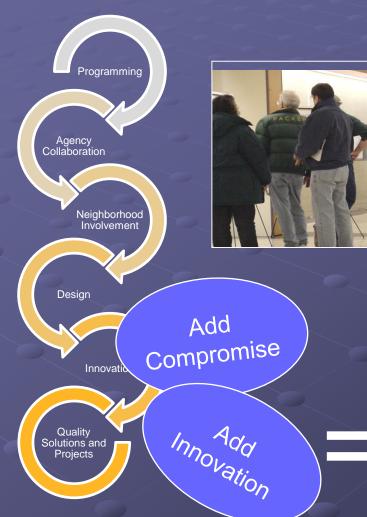
Public involvement plans on complex projects

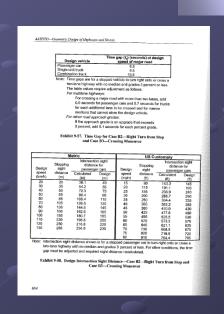
Meeting facilitators on large projects

City team approach, involving Engineering, Traffic Engineering, Planning, Parks, and Metro Transit.

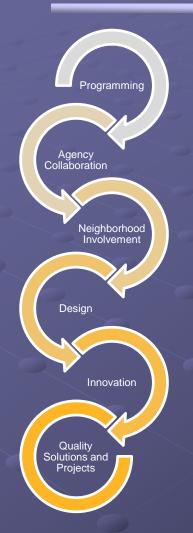
Surveys provide feedback

### Project Development Design



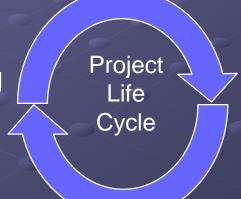






Project Development

Programming



Construction

Maintenance

### Project Development Construction

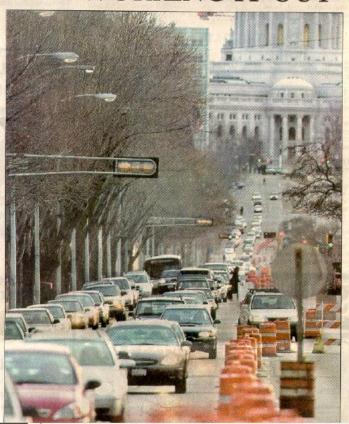


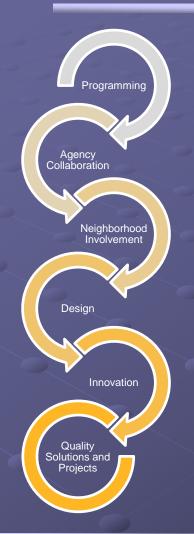
### Project Development Construction









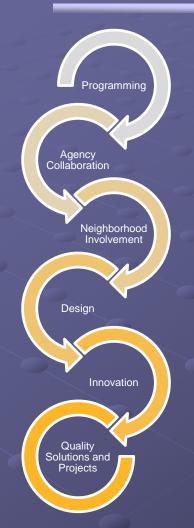


Project Development

Programming Project Life Cycle

Construction

Maintenance



















What started in the 1970's as a policy has become the culture of the City

We build balanced transportation projects.





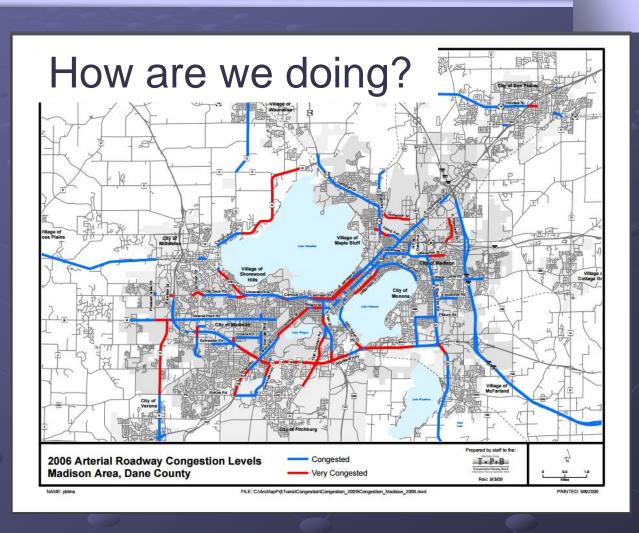
Mode share is accomplished through convenience.

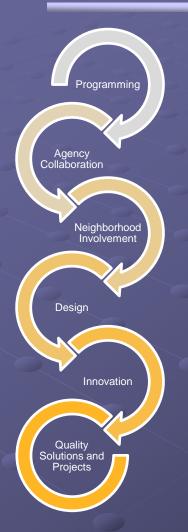


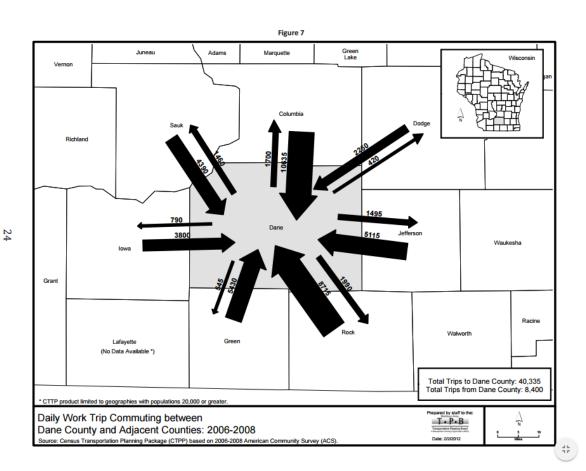
### How are we doing?

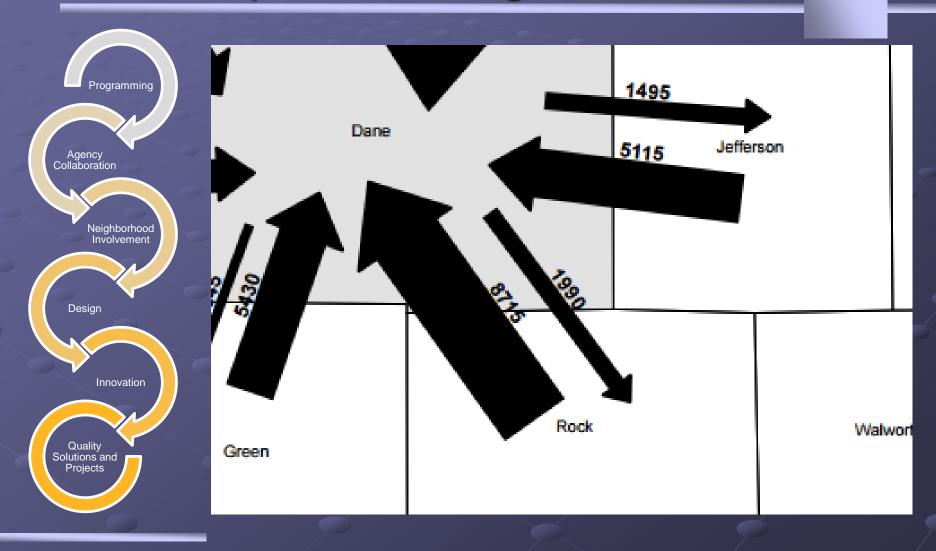
	Arterial, Collector and Local	2001	2010	2011	2012	2013	2014	2015
	% Miles at or below Cond State 10	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
	% Miles at or below Cond State 9	94.5%	97.4%	96.6%	97.1%	98.3%	98.5%	97.7%
	% Miles at or below Cond State 8	87.7%	89.9%	87.3%	89.4%	90.9%	92.2%	93.4%
	% Miles at or below Cond State 7	65.0%	53.2%	48.0%	55.7%	55.6%	68.2%	62.0%
	% Miles at or below Cond State 6	57.2%	37.4%	34.1%	34.6%	33.8%	38.4%	40.7%
Goal	26% % Miles at or below Cond State 5	32.1%	25.0%	24.1%	24.0%	24.6%	25.2%	24.6%
	% Miles at or below Cond State 4	9.3%	6.5%	7.7%	9.9%	10.8%	13.9%	14.4%
	% Miles at or below Cond State 3	1.8%	0.7%	0.9%	0.9%	1.0%	3.1%	2.7%
	% Miles at or below Cond State 2	0.7%	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%
	% Miles at or below Cond State 1	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	% Miles at or below Cond State 0	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

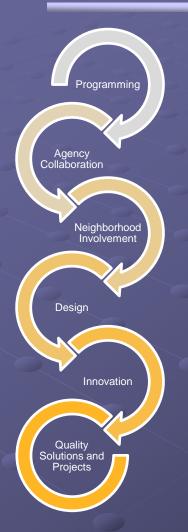












### Dane County had highest population growth in state last year, says Census Bureau

AMANDA FINN afinn@madison.com, 608-252-6139 Mar 24, 2016 🗪 4



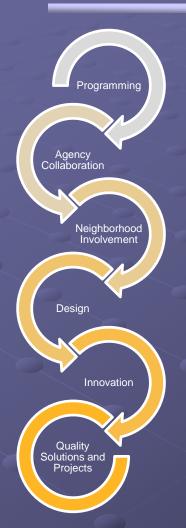
Wisconsin has had a 1.5 percent population growth rate since 2010

### POPULAR IN NEWS

- 1 UW Professor James Baughman getting his day on Saturday, mayor proclaims
- 2 1 killed, 6 injured when limo carrying passengers from Madison area overturns near Chicago
- 3 Man spared prison sentence after shooting at cars on Beltline
- 4 Ted Cruz scores more Wisconsin GOP endorsements; Hillary Clinton arrives next week

Dane County had the highest rate of population growth of any county in Wisconsin in the last year, the U.S. Census Bureau said Thursday.

The county's population rose 1.3 percent between July 1, 2014, and July 1, 2015, the bureau said.



Madison	city,	Wisconsin
---------	-------	-----------

	2014		2011-2013 3 year average			
	Total		Total			
Subject	Estimate	Margin of Error	Estimat	Margin of te Error		
Workers 16 years and over MEANS OF TRANSPORTATION TO WORK	139,244	+/-3,645	134,951	+/-2,031		
Car, truck, or van	69.5%	+/-2.4	71.7%	+/-1.3		
Drove alone	62.1%	+/-2.6	63.5%	+/-1.4		
Carpooled	7.4%	+/-1.5	8.3%	+/-0.9		
In 2-person carpool	5.6%	+/-1.3	6.6%	+/-0.8		
In 3-person carpool	1.2%	+/-0.5	1.3%	+/-0.3		
In 4-or-more person carpool	0.7%	+/-0.5	0.4%	+/-0.2		
Workers per car, truck, or van	1.06	+/-0.01	1.07	+/-0.01		
Public transportation (excluding taxicab)	10.1%	+/-1.6	9.1%	+/-0.8		
Walked	10.3%	+/-1.6	9.5%	+/-1.0		
Bicycle	5.3%	+/-1.0	5.2%	+/-0.7		
Taxicab, motorcycle, or other means	1.0%	+/-0.4	0.7%	+/-0.2		
Worked at home	3.9%	+/-0.7	3.8%	+/-0.4		

Source: American Community Survey (ACS)



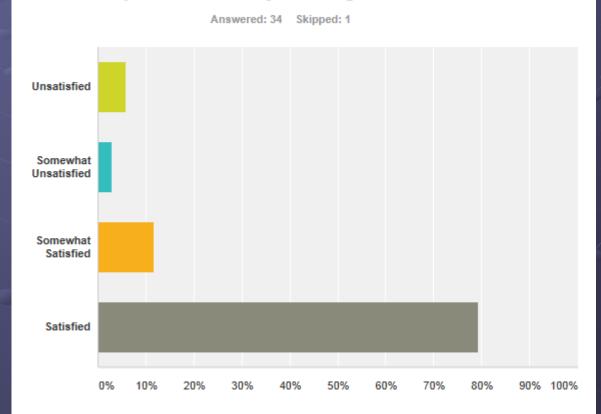


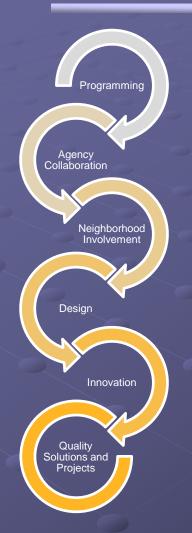
### **Traffic Crashes Before/After**

	Junction Rd-Mineral Pt Intersection	Jug Handle
2011	16	N/A
2012	10	N/A
2013	18	N/A
2014	15	3
2015 (till Nov)	4	5



### What is your overall satisfaction with the improvements in your neighborhood?





### How are we doing?



Madison one of only 5 Communities Nationwide to be awarded Platinum.

Only City East of the Mississippi River awarded Platinum



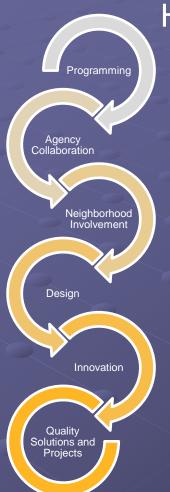








- Madison Ranked U.S. Growth City #4 February 2016 by U-Haul
- Madison Ranked #7 Best Metro Area for STEM Professionals January 2016 by WalletHub
  - Madison Ranked the 10th Best City for an Active Lifestyle January 2016 by WalletHub
- Madison Ranked 5 Stars December 2015 by Yelp.com
  - Madison Ranked the 3rd Healthiest City April 2015 by Livability.com
- Madison Ranked #1 for Successful Aging among big cities and small cities 
   November 2014
   by Forbes.com
  - Madison Ranked the #1 Most Livable City in America September 2014 by Livability.com
  - Madison Ranked the 11th Best City for Families June 2014 by WalletHub





#1 Most Compact Mid-Sized City in U.S. (13th in U.S. Overall)

Smartgrowthamerica.org

- Madison Ranked One of the Top 10 Happiest Cities 

  January 2015

  by National Geographic
- Madison Ranked the 2nd Best Midwest City for Green Commuting May 2014 by HomeownersInsurance.com
- Madison Ranked Among Top Healthiest Cities September 2013
   A national accolade for Madison from Huffington Post for being one of the country's 25 healthiest cities.
  - Madison Ranked #5 in Best Places to Live November 2013 by Livability.com

The Best Cities on Earth for Biking

Yahoo Travel, June 2015

#1 Greenest City in America

Nerdwallet, April 2014

 Madison Ranked #5 in America's Best Cities for Young Professionals August 2014 by Forbes.com



Quality
Solutions and
Projects



"7 reasons why Madison, Wisconsin is the best place to live in America"

Business Insider, September 2014

#3 in Top 100 Best Places to Live 2016

Livability.com, September 2015

#1 in Top 100 Places to Live

Livability.com, September 2014

Most Livable Cities in America

Forbes, April 20, 2015

10 Most Livable Neighborhoods in the U.S.

AARP, April 16, 2015

5 Reasons Madison, WI Might be the World's Best Place to Retire

Huffington Post, February 27, 2015

#1 Best U.S. Cities for Quality of Life

NerdWallet.com, August 2014

#1 Best Small Cities to Live

Credit Donkey, August 2013





