Madison & Anchorage

How to Create a Truly Multi-Modal Transportation System in a Winter City

Mayor Paul R. Soglin April 5, 2017

Madison & Anchorage: Two birds of a feather?

3,435 miles or \$450 round trip between the two!

MADISON

- Population: 243,344 (2013)
- UW Students: 43,300
- Big Wheels of Cheese
- Lots of room for growth and redevelopment??



ANCHORAGE

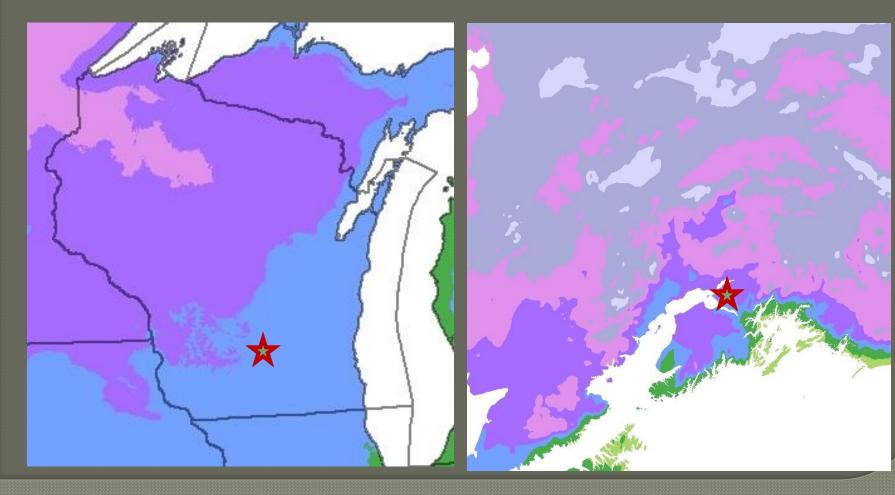
- Population: 300,950 (2013)
- UAA Students: 21,000
- Gigantic vegetables
- Lots of room for growth and redevelopment??



Climate Map Comparison

• Madison: 5a

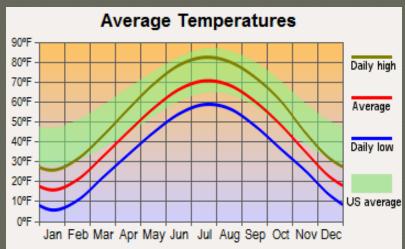
• Anchorage: 4b



Climate Comparison

MADISON

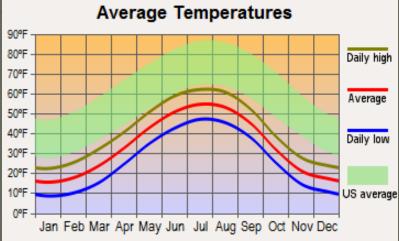
43" Annual Snowfall





ANCHORAGE

75.5" Annual Snowfall





Surface. Parking. Lots. How did we get here?

MADISON

1960's Urban Renewal



ANCHORAGE

1964 Good Friday Earthquake



1960s Urban Renewal In Madison



State Street vs. 4th Avenue

1960s State Street

2010s State Street





State Street vs. 4th Avenue

1960s 4th Avenue



2010s 4th Avenue



State Street vs. 4th Avenue

- Madison: Capitol Square Dane County Farmers Market
- Anchorage: Farmers market on 15th Street





State Street vs. 4th Avenue

• Madison: Festivals

• Anchorage: Festivals

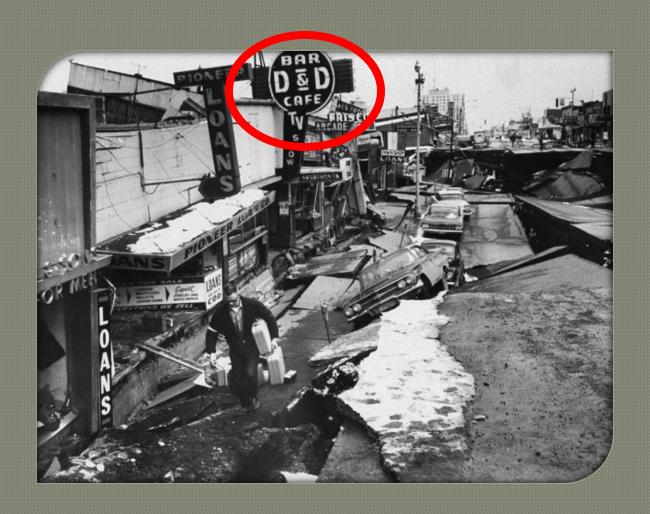






1960 Iditarod

View of 4th Avenue before Earthquake



Good Friday 1964 Earthquake – 4th Avenue



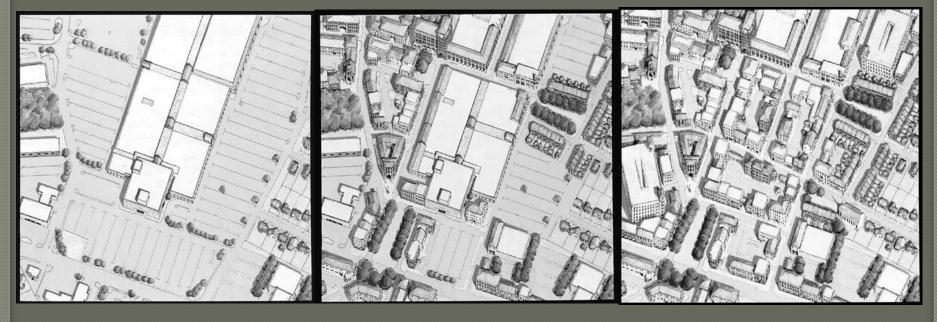
Iditarod on 4th Avenue - today

4th Avenue is immune from surface parking lots due to its importance in Anchorage's tourism, culture and history.

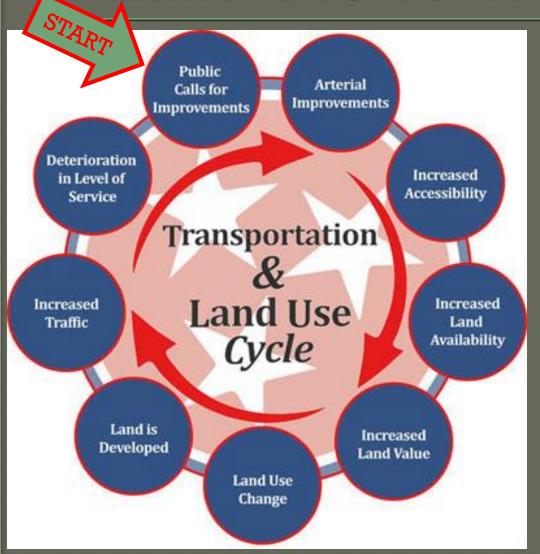
Surface. Parking. Lots.

• How do we go from

This.....To.....This?



Land Use vs. Transportation



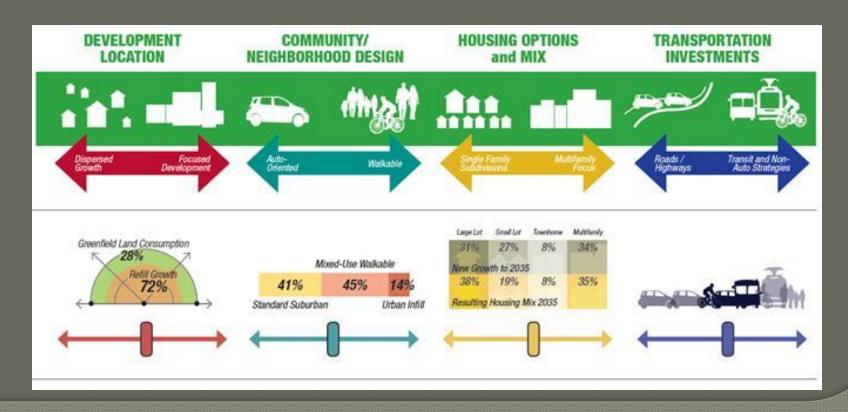
"Old model" Reactive

- Doesn't pay for it self
- Promotes sprawl
- Traffic problems & level of service drives reactive transportation policies
- Doesn't reward innovative thinking

Land Use vs. Transportation

New model - Reflective not reactive!

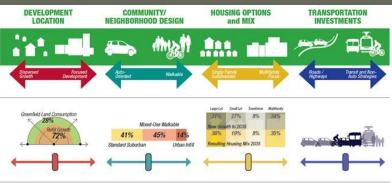
• Transportation policy based on reflecting community priorities & finding balance

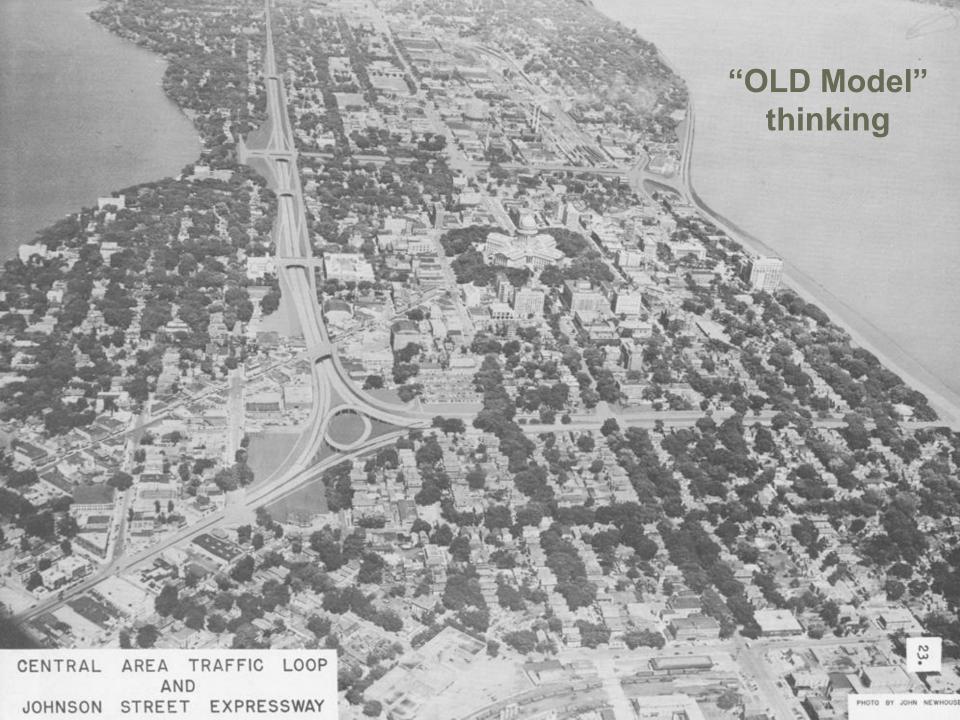


Land Use vs. Transportation

New model - Reflective not reactive!

- Considers benefits of
 - Density/compactness/mixed use,
 - Underground parking
 - Downtown population growth,
 - Demographic changes
 - Strong transit, bicycling and walking
 - conditions/options







Madison's Downtown Data

2000

2010

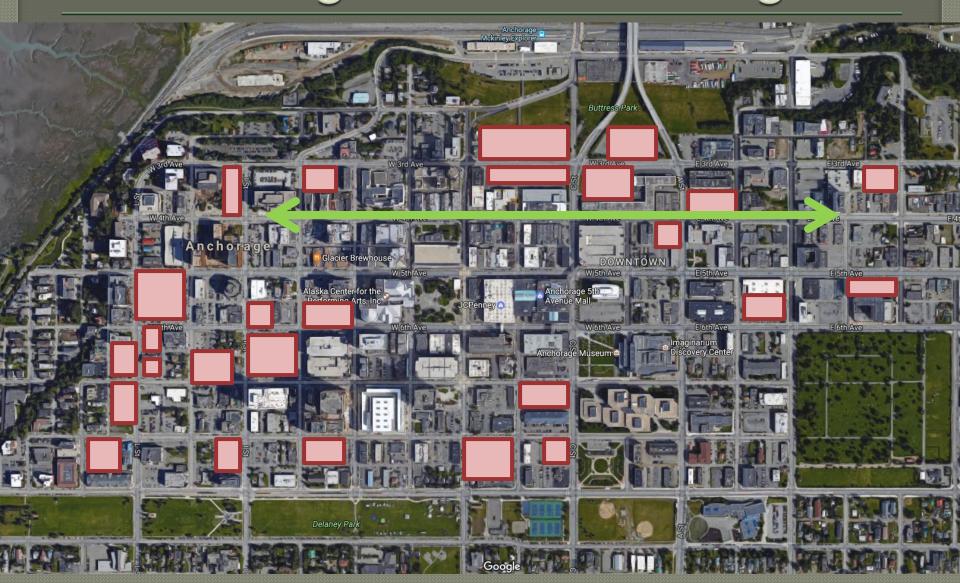
2017

- People
 - 22,168
- AssessmentValue:
 - \$613 Million
 - \$860 Million adjusted for inflation

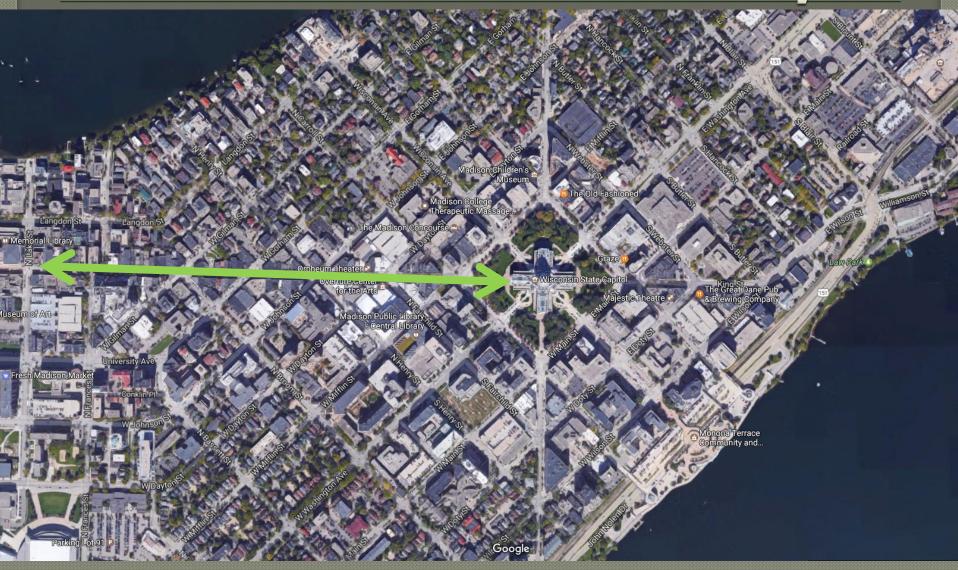
- People
 - 24,009
- AssessmentValue:
 - \$1.04 Billion
 - \$1.15 Billion adjusted for inflation

- People
 - 25,600
- AssessmentValue:
 - \$1.86 Billion

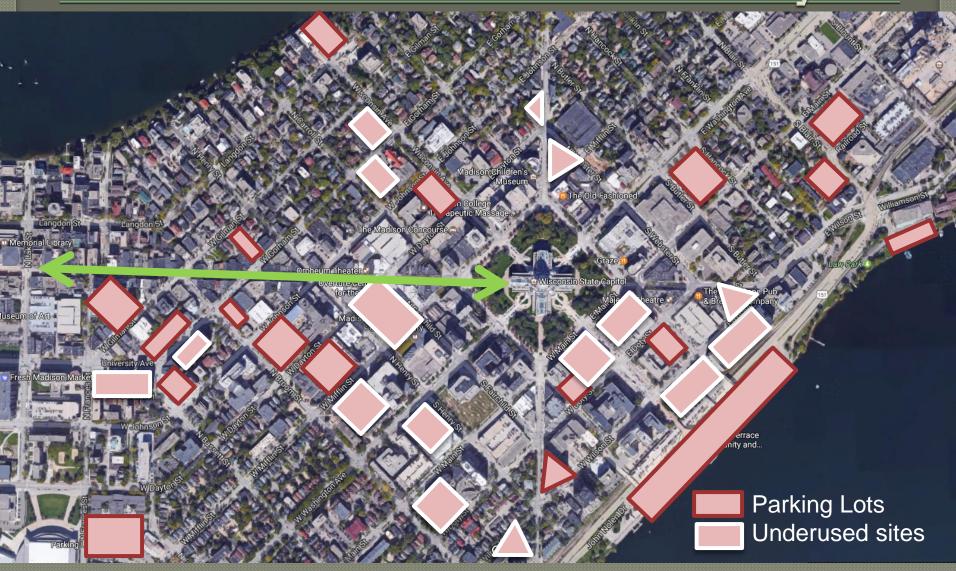
Anchorage Surface Parking Lots



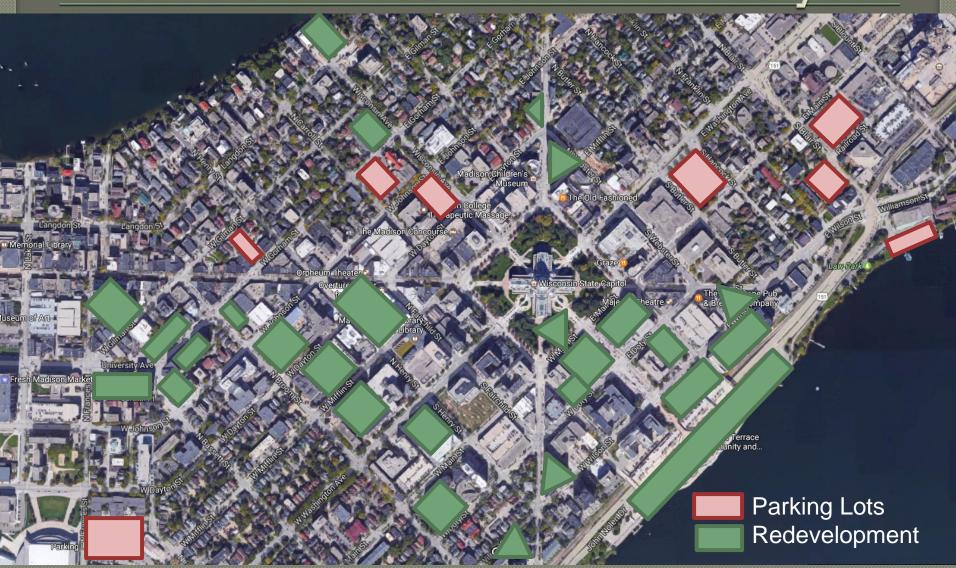
Madison's Redevelopment of Underused Parcels over last 35 years



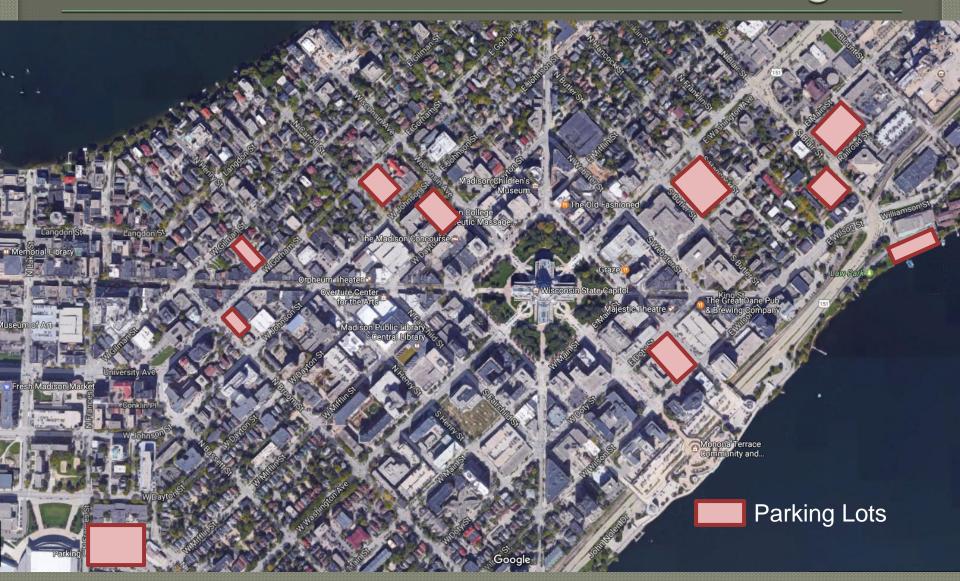
Madison's Redevelopment of Underused Parcels over last 35 years



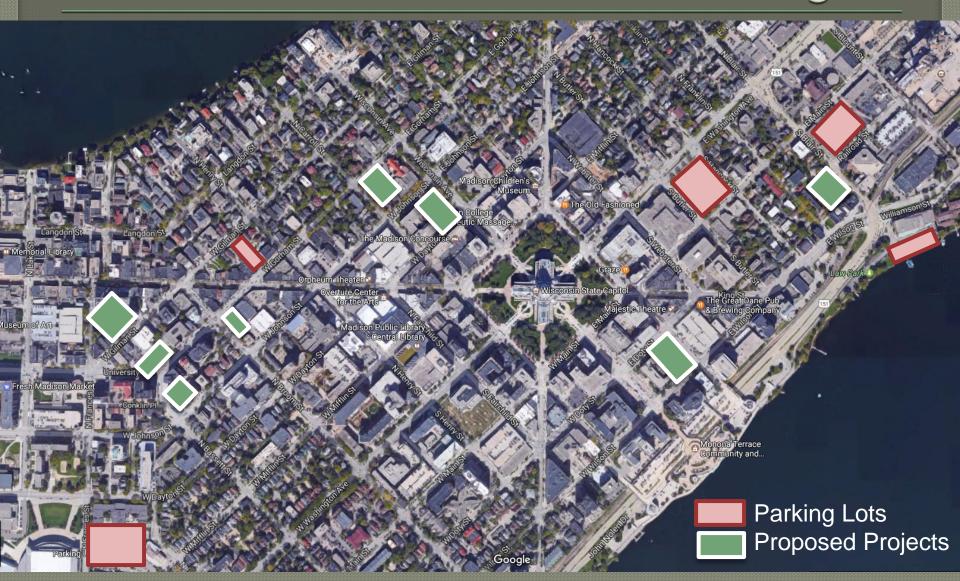
Madison's Redevelopment of Underused Parcels over last 35 years



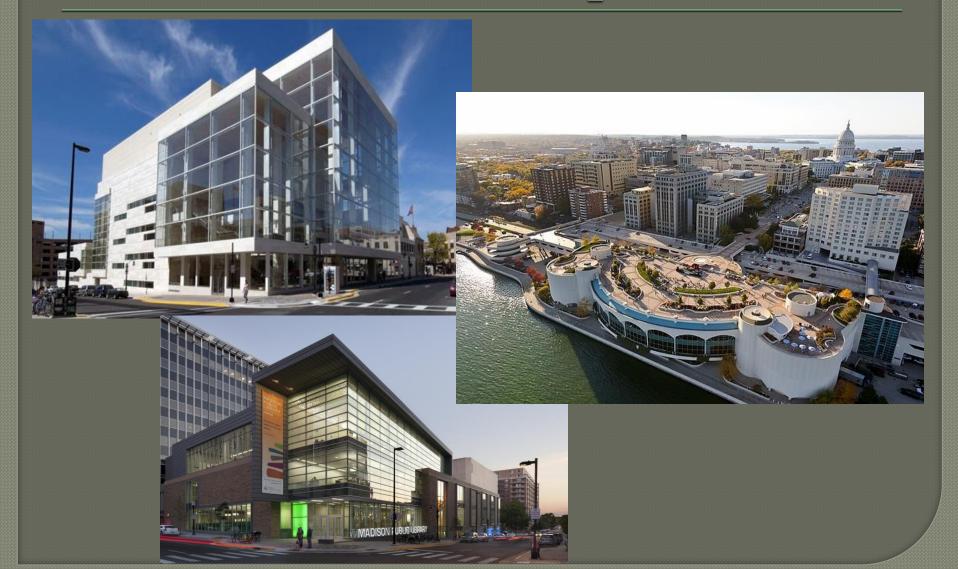
Madison's Current Surface Parking Lots



Madison's Current Surface Parking Lots



Downtown Redevelopment: Civic



Downtown Redevelopment: Office



Downtown Redevelopment: Residential







Downtown Redevelopment: Residential



Madison Surface Parking Lots: Capitol East District



Madison Surface Parking Lots: Capitol East District



Capitol East District Redevelopment







Law Park / John Nolen Drive c1957



Monona Terrace Opened in 1997

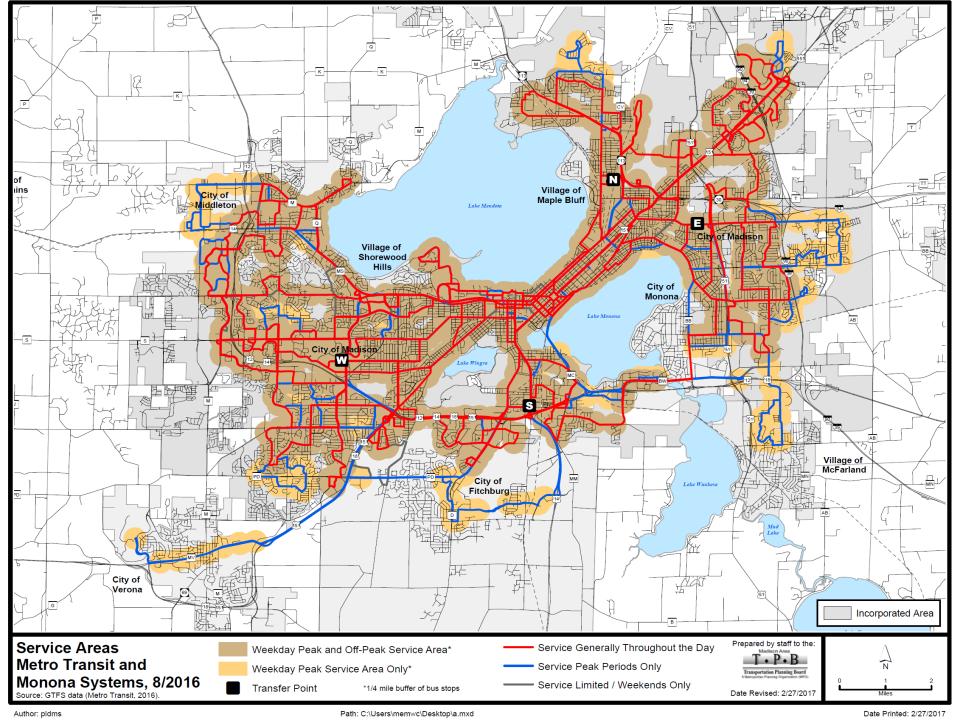


Annual Economic Impact from 2007-2014: \$41,581,300 or roughly 62% of total construction costs

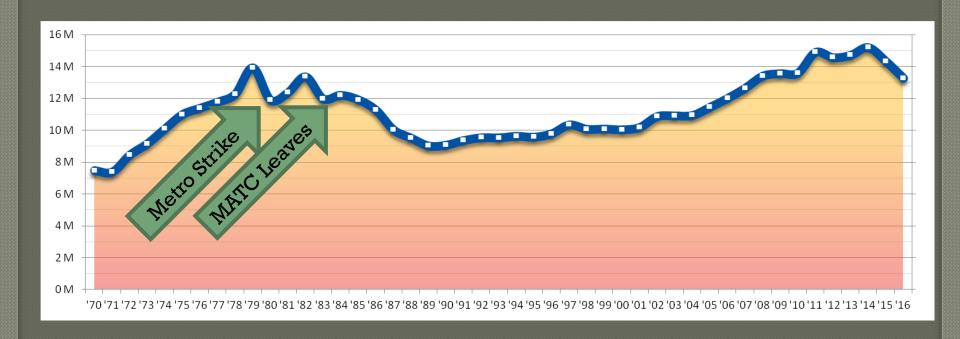


Metro Transit

- © City of Madison Acquired Madison Bus Company in 1970
- Serves Metro Area, 256,000 (158th nationally)
- ② 215 buses (67th nationally)
 - · 194 diesel, 21 hybrid diesel-electric
- 14,000 annual boardings (70th)



Historical Ridership



- Steady ridership growth since 1990
- Ridership declines in 2015 and 2016

Ridership per Capita

Top 20 United States Bus Systems with 50 or more Buses Ranked by Transit Trips Per Capita, 2015

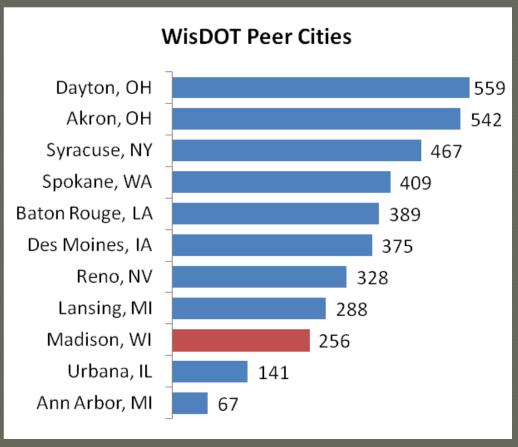
			Buses in	Service Area	Service	Bus Unlinked	UPT per
Rank	System Name	Primary City	Fleet	(Sq mi)	Population	Passenger Trips	Capita
1	CyRide	Ames, IA	111	15	58,100	6,699,351	115.3
2	San Francisco Municipal Railway	San Francisco, CA	525	49	836,620	95,005,347	113.6
3	Univ of Michigan Parking and Transp Services	Ann Arbor, MI	58	12	66,641	7,256,729	108.9
4	University of Georgia Transit System	Athens, GA	68	14	119,648	11,413,231	95.4
5	Champaign-Urbana Mass Transit District	Champaign-Urbana, IL	102	30	141,471	13,391,124	94.7
6	MTA New York City Transit	New York, NY	4,284	321	8,550,405	743,763,755	87.0
7	Chicago Transit Authority	Chicago, IL	2,102	314	3,345,983	274,288,766	82.0
8	Chapel Hill Transit	Chapel Hill, NC	100	62	80,218	6,533,944	81.5
9	City and County of Honolulu DOT Services	Honolulu, HI	523	277	953,207	69,327,213	72.7
10	Centre Area Transportation Authority	State College, PA	72	89	104,360	7,325,851	70.2
11	Gainesville Regional Transit System	Gainesville, FL	128	76	163,990	10,251,248	62.5
12	Blacksburg Transit	Blacksburg, VA	55	28	63,661	3,699,328	58.1
13	Metro Transit System	Madison, WI	215	72	256,150	14,358,261	56.1
14	King County Metro	Seattle, WA	1,371	2,134	2,117,125	102,302,980	48.3
15	Metropolitan Atlanta Rapid Transit Authority	Atlanta, GA	647	504	1,373,958	62,868,806	45.8
16	Southeastern Pennsylvania Transportation Auth	Philadelphia, PA	1,531	839	3,797,325	171,287,633	45.1
17	Milwaukee County Transit System	Milwaukee, WI	412	237	956,406	39,313,139	41.1
18	Santa Monica's Big Blue Bus	Santa Monica, CA	188	51	458,506	18,748,868	40.9
19	Tompkins Consolidated Area Transit	Ithaca, NY	53	476	103,617	4,185,394	40.4
20	Tri-Met	Portland, OR	683	534	1,560,803	62,114,041	39.8

Source: National Transit Database

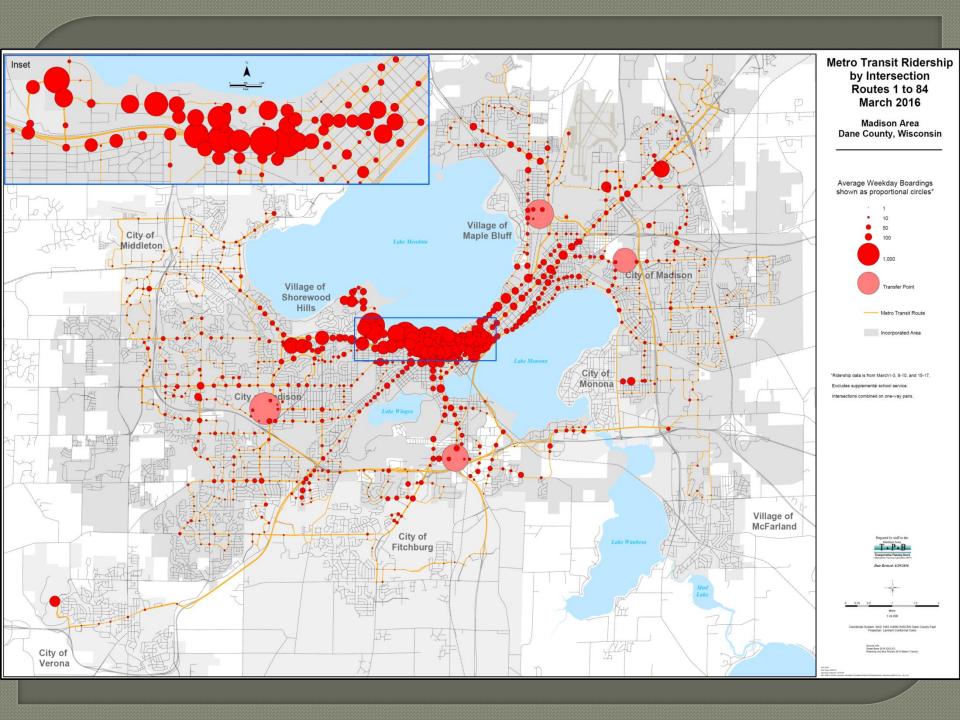
Peer Cities are Larger

Madison has the highest ridership in this group

Service population, thousands



Source: National Transit Database



University Policies Affect our Downtown

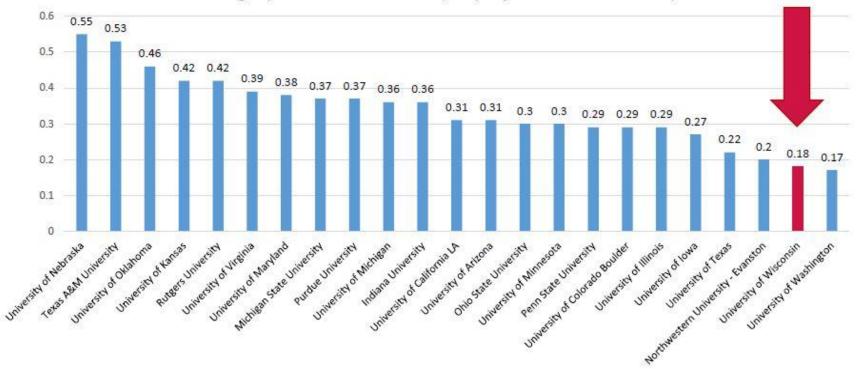
"The modern university is a collection of faculty, staff and students held together by a common grievance over parking"

-Clark Kerr (UC-Berkeley, 1960)

University Parking Policies

Selected Big Ten and Peer Universities

Parking Spaces Per Person (employees and students)





Source: UW Campus Master Plan (2017)

UW: Strong Parking and TDM Policies

Restricted Parking

- Total spaces capped at 13,000 for 43,300 Students and 21,600 Faculty/staff
- Pricing strategies

© Geographic Restrictions/Land Use Policies

- Additional building space through densification and conversion of surface parking
- Limited acquisition of surrounding private development

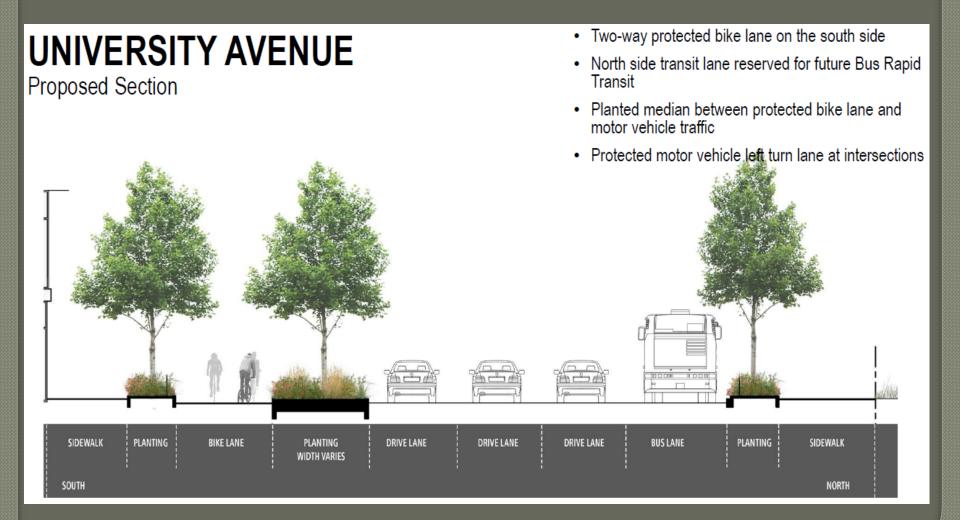
Vanpool Program

Access to surrounding communities

UW: Strong Parking and TDM Policies

- Bicycle Infrastructure Investments
- Emphasis on Pedestrian Safety and Infrastructure
- Perceived "Free" Metro Transit
 - Students receive Bus Pass as part of tuition/fees
- Deeply Reduced Cost Metro Transit
 - Faculty and Staff
- Education and Support Programs
 - Emergency ride home, promotional/informational campaigns, etc.

University Complete Streets Policy



Source: UW Campus Master Plan (2017)

University Complete Streets Policy



Source: UW Campus Master Plan (2017)

Key City Parking Policies

Parking Rates

- No discounts for increasing lengths of stay
- No early bird discounts
- On-street parking priced higher than off-street parking
- Rates are set to coax cost sensitive customers to less used facilities
- Long term lease agreements require TDM Plans
- Partner with private sector to share parking as a way to reduce over building, for example hotel parking provided in evening and overnight.

Key City Parking Practices

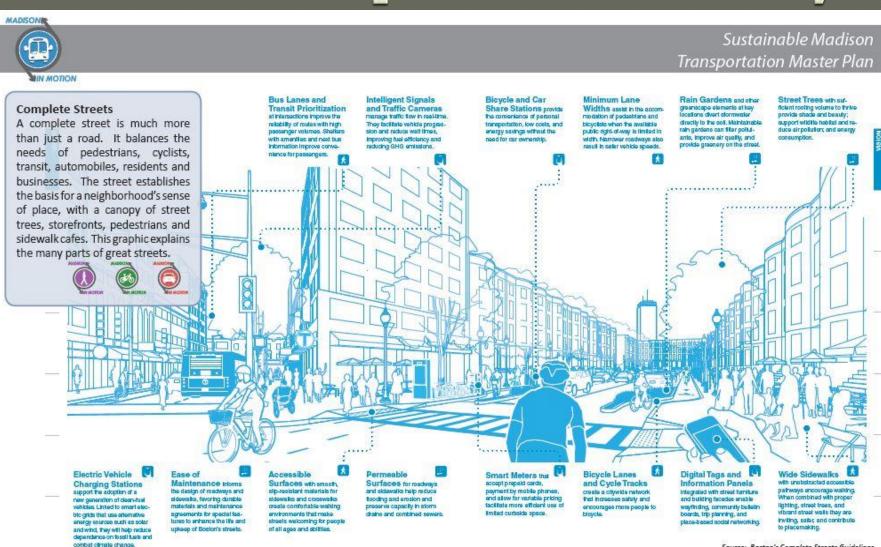
- Real time parking availability is posted on website
- Carpoolers are given first priority for monthly parking permits
- Long term vehicle storage is not allowed
- Pay on entry for special events encourages carpooling

Madison Complete Streets Policy

Incorporate Complete Streets Design into Roadways

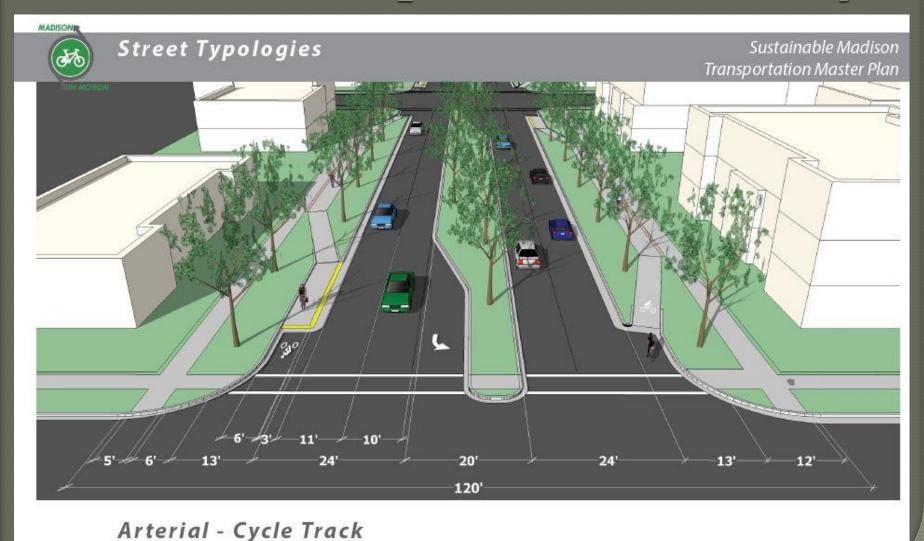
- Pedestrian refuges, medians, and curb extensions
- Narrow lanes: calm traffic, create space for additional uses,
 reduce ped crossing distance & exposure to traffic
- Consider "road diets", w/two-way left turn lanes (TWLTLs);
 incl. bicycle and pedestrian accommodations
- Traffic calming tools like traffic circles, speed tables, and speed boards (where appropriate)
- Bicycle facilities for traffic conditions and urban context (shared streets, bike lanes, buffered bike lanes, cycle tracks)
- Exceptions

Madison Complete Streets Policy



Source: Boston's Complete Streets Guidelines

Madison Complete Streets Policy





Bicycle Policy Beginnings

- reliam

City of Madison, Wisconsin

RESOLUTION

directing the Director of Public Works, Director of Transportation and Planning Director to consider bicycle routes as part of all street construction or reconstruction projects.

Presente Life Hanse, De grande France, De grande

TRANSPORTATION DEPT! on File.....

RESOLUTION 1974

Resolution No. 24,277

File Number 6796-72

Aldermen Forster and Soglin

7 8 9 10 11 12 1 2 3 4 5 6

WHEREAS, bicycles are being used in increasing numbers as a method of transportation, and

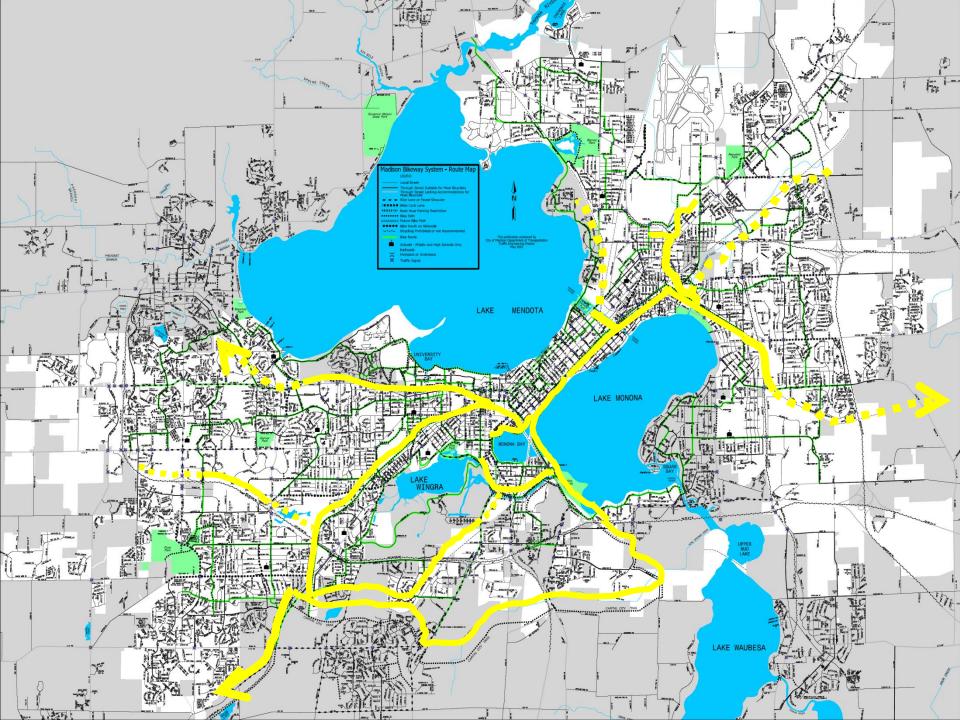
WHEREAS, the City of Madison has an approved Long Range Master Plan Bike Route System and is in the process of constructing Phase One of the Bike Route System, and

WHEREAS, portions of the Bike Route System are located on streets or sidewalks,

NOW, THEREFORE BE IT RESOLVED that prior to initiation of any future street construction or reconstruction project, the Director of Public Works, Director of Transportation and Planning Director provide recommendations to the appropriate body on the necessity of including any part of the Bike Route System on any of the streets in said project as follows:







Shared Use Paths – Along Waterfronts



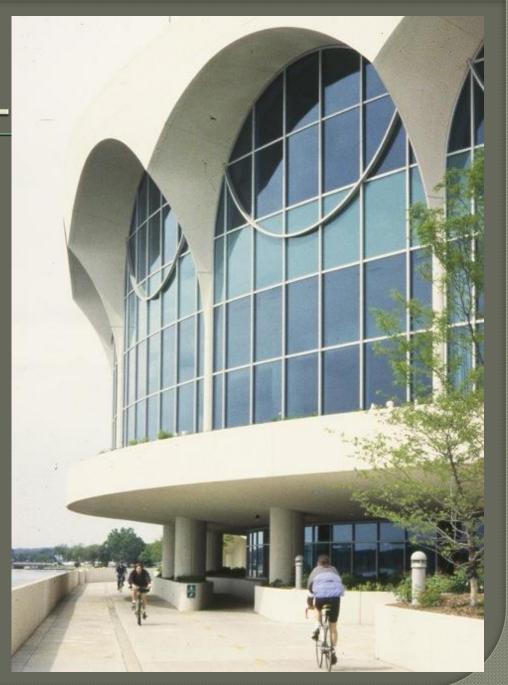
Shared Use Paths – Abandoned Rail Corridor



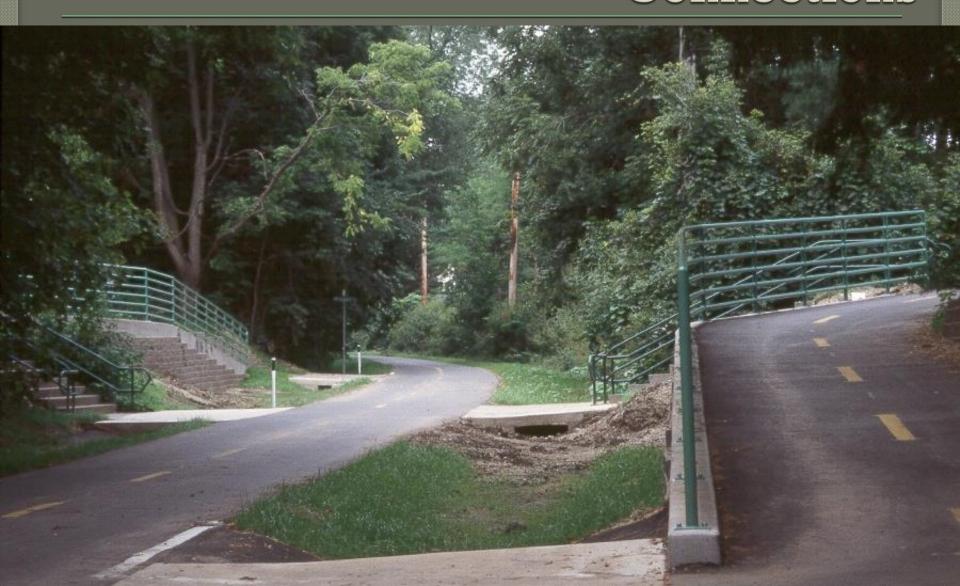
Shared Use Paths - Active Rail Corridor



Shared Use Paths – Integrated with Development



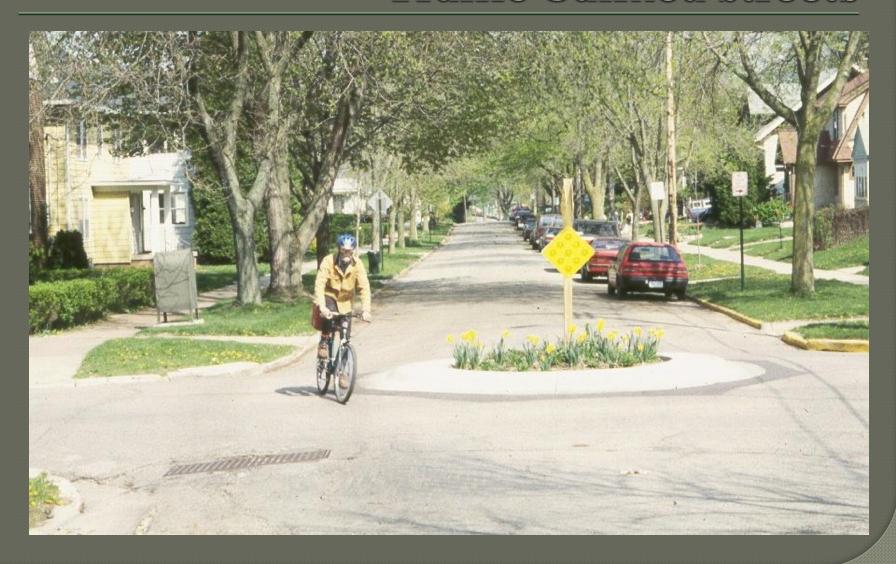
Shared Use Paths – Neighborhood Connections



Shared Use Paths - Night Lighting



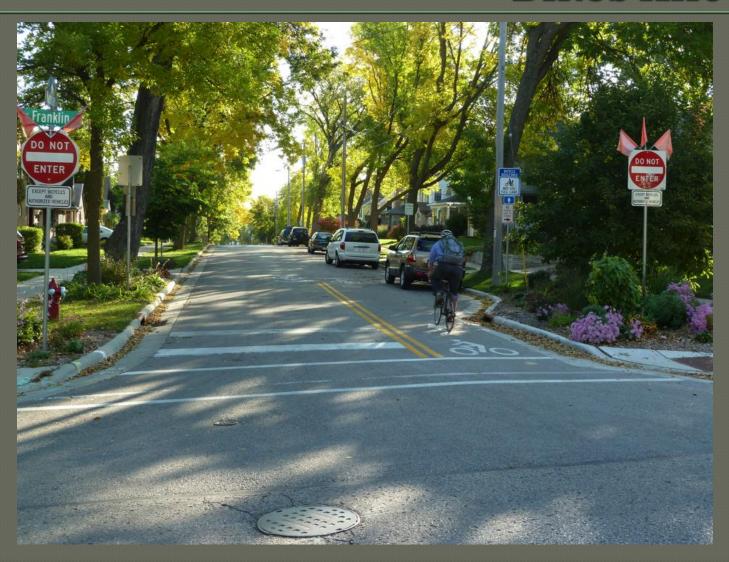
Traffic Calmed Streets



Bicycle Boulevards & Neighborhood Greenways



Access Restrictions for Cars - Bikes Allowed



Arterial Streets – Buffered Bike Lanes



Arterial Streets – Buffered Bike Lanes



Arterial Streets



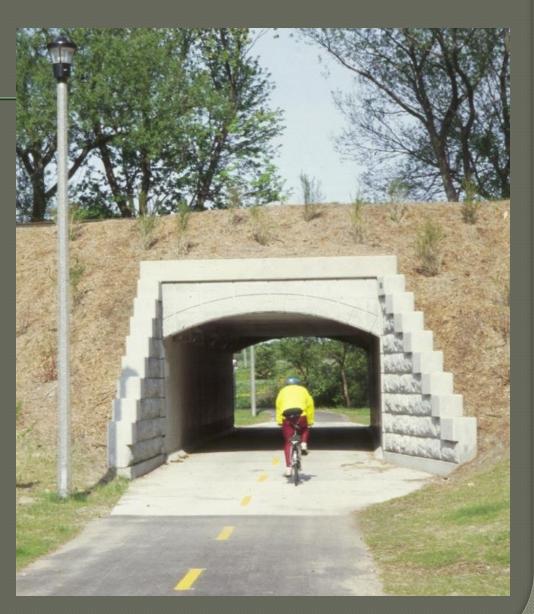
Arterial Streets – Cycle Track



Contra-Flow Lanes



Grade Separation Underpass



Grade Separation - Overpass



Parking Integrated with Building





On-Street Bicycle Parking – King Street





Meter rings for bicycle parking are being installed on many meter posts when areas are converted from coin operation to pay by space

America's 20 Coldest Major Cities

By Jon Erdman Published: Jan 9, 2014, 3:06 PM EST

http://www.weather.com/news/weather-winter/20-coldest-large-cities-america-20140107

#3: Madison, Wisc. (Avg. Dec-Feb Temp: 21.6 degrees)



Madison's all-time record low was -37 degrees set on Jan. 30, 1951. On average, subzero cold occurs 17 days each year, while subfreezing temperatures occur 152 days a year, there. (Andy Manis/Getty Images)



- Major paths are a top priority for snow and ice control.
- Goal is to have these cleared by 7:00 AM, Monday through Friday, to facilitate users commute to work and school.
- Snow removal operations for these path starts no later than
 4:00 AM M F.
- Crews are also assigned to clear these paths during the workday to ensure that commuters can safely return home from work and school.
- Weekend snow removal operations typically begin at 7:00 AM, Saturday and Sunday.
- This enables crews to remove snow more efficiently and effectively prior to it becoming packed down by bicycle and pedestrian traffic.
- Salt and sand are used sparingly and only as necessary to melt ice and provide traction.

We started experimenting this year with using salt brine as an anti-icing agent on one of our more heavily used paths.

- Applied 24 48 hours prior to snow event
- Pavement temp 16 F + (-9 C +)
- Not recommended if rain/drizzle forecast
- Not recommended if high winds forecast at start of storm
- 40 gallons (151 liters) per lane mile



Photo from SnowEx

One 50 pound (22.7 kg) bag of salt treats 4 miles (6.4 km) of 10 foot (3 m) wide shared use path





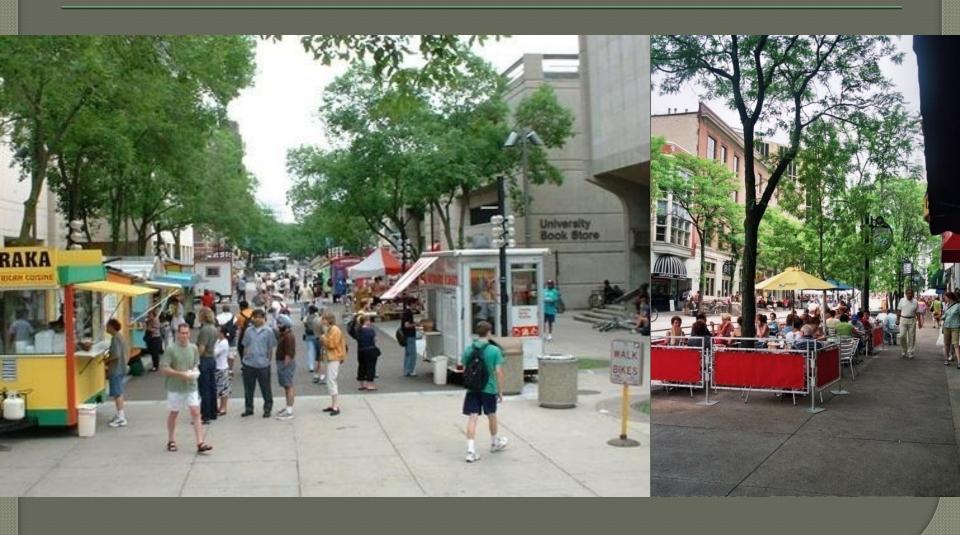


King Street District



Photo credit: Capital Times

Growth of State Street Activities



Questions