









What is Madison in Motion?: Overview



Madison in Motion: Multi-Modal Transportation Plan

What does Multi-Modal mean?

- → Auto (passenger cars/trucks)
- → Parking Facilities
- → Public Transit (Metro; other?)
- → Bicycle
- → Pedestrian
- Intercity Bus (Van Galder, Badger, Greyhound)
- Air
- Freight (Truck, Rail)



Madison in Motion: Overview/Purpose

- Help Create Walkable, Bikeable, Livable City
 - Strengthen **Neighborhoods**: Existing and New Development
 - Emphasize Transportation Choices and Mode Connectivity

MADISON

- Support Madison's Community Vision
- Resource for Transportation Decision-Making
 - Strategic Implementation Plan
- 2-Year Planning Process
 - Madison in Motion Oversight Committee
 - Strong Public/Stakeholder Participation
 - Partner Agency Coordination: WisDOT, Madison Area MPO

Madison in Motion: Overview/Purpose

- → The Transportation Master Plan: Builds Upon Existing Transportation Plans and other Adopted City of Madison Plans/Policies
- → Existing/Concurrent Plans
 - Land Use/Neighborhood Plans/Special Area Plans
 - Numerous Transportation Plans (City/Regional Street/Highway, Bicycle, Metro Transit, etc.)
 - Improve Coordination and Connectivity



Madison in Motion: Overview/Purpose

- → Emerging Issues: Madison in Motion
 - Technological Advances
 - Demographic Changes and Behavioral Trends
 - Emerging Equity Challenges
 - Health Impacts of Transportation
 - Changing Economy: City's Strategy/Goals



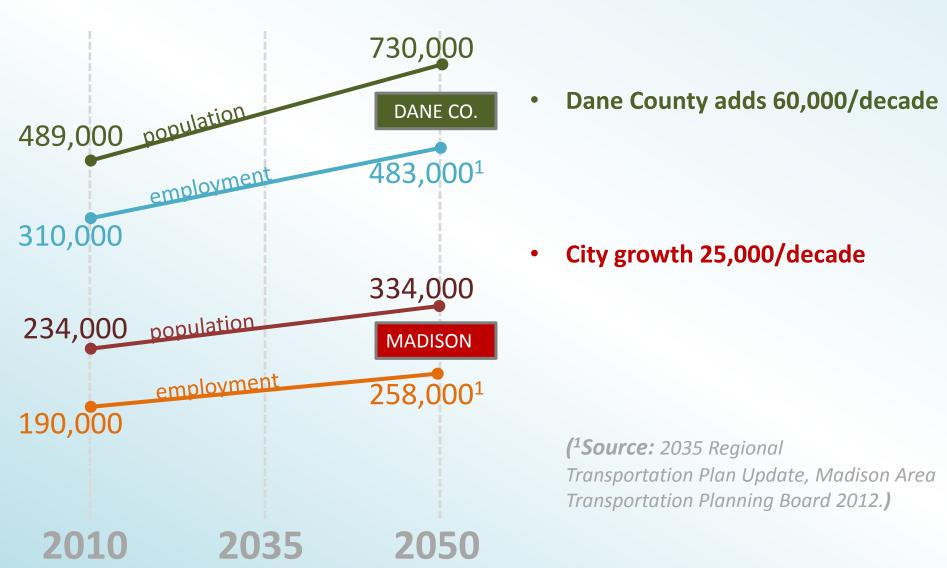
Land Use,
Growth &
Development



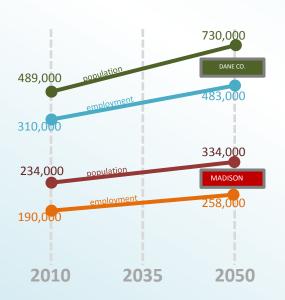


Emerging Trends affecting Transportation

City/Regional Growth Assumptions



Madison Area Growth



MADISON IN MOTION

- The Madison area is growing
 - Epic plans to add 800/year for next 4 5 years
 - Health care footprint is growing
 - Innovation ecosystem/technology sector
 - Youthful workforce pipeline UW/Madison College/Edgewood
- Madison's geographic form shapes our options
- Neighborhoods value stability above change
- Madison's growth is limited to a handful of areas
- Surrounded by aggressive growth communities
- Prime agricultural land; environmental resources

Technology Trends

Comers Separation Pay Mass Pay Story

Smart Phones, apps and IT advancements



Self driving cars

Car/Bicycle Sharing



Demographic & Behavioral Trends

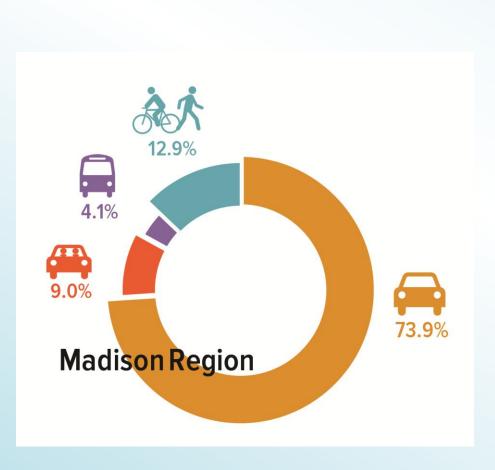


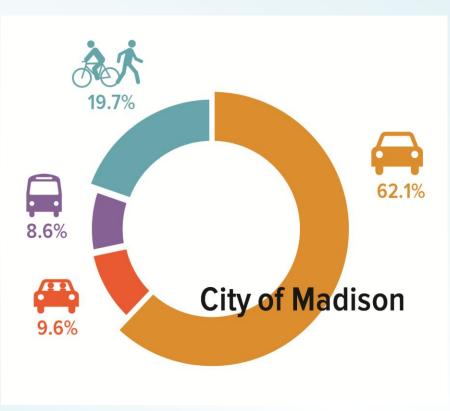
Key Project Issues & Concerns

- Manage growth and economy, protect neighborhoods and critical environmental resources (balance compact urban redevelopment and new edge growth)
- Relatively small amount of growth area remains in Madison (redevelopment and new edge)
- Transportation system capacity need to accommodate growing demand
- Challenges of low-income residents/equity issues
- Demographic and technological change
- Regional commuting to Madison
- Long-term costs/revenue sources for transportation

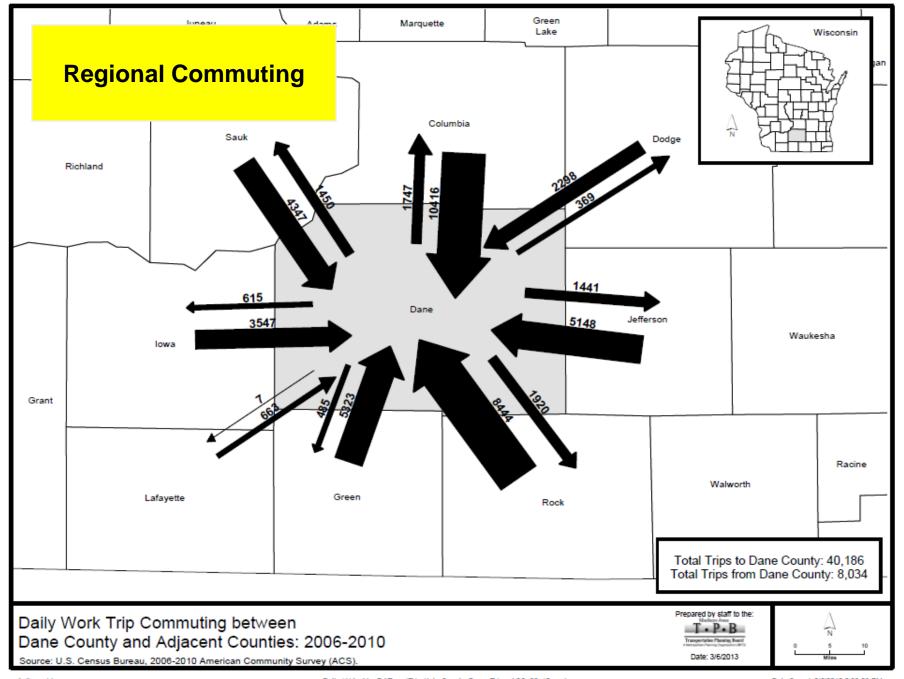


How do area residents travel to work?

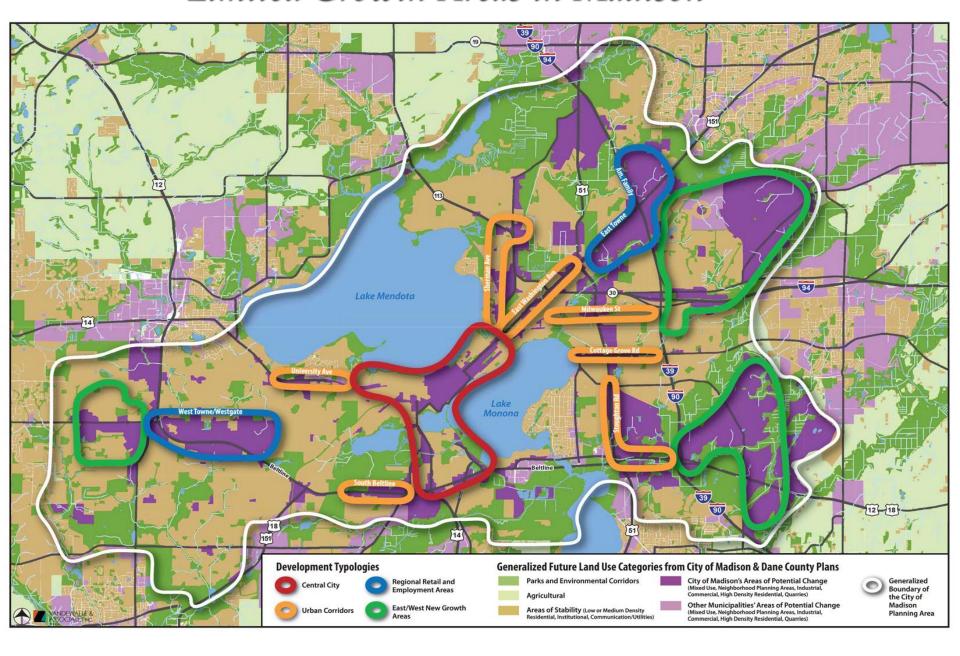




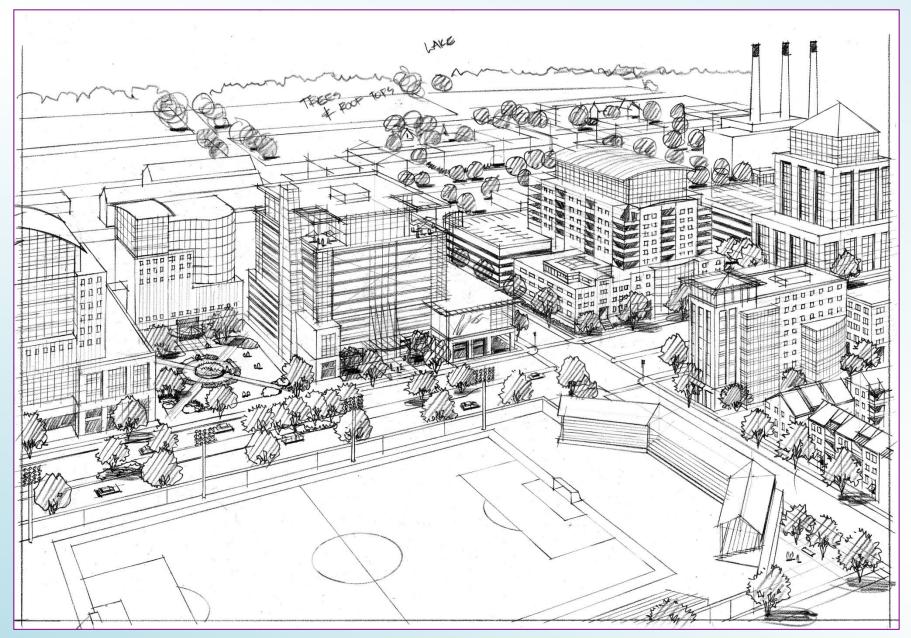
Source: US Census American Community Survey, 2008-2012



Limited Growth Areas in Madison



East Rail Corridor: Redevelopment Concepts



East Rail Corridor: Redevelopment Concepts



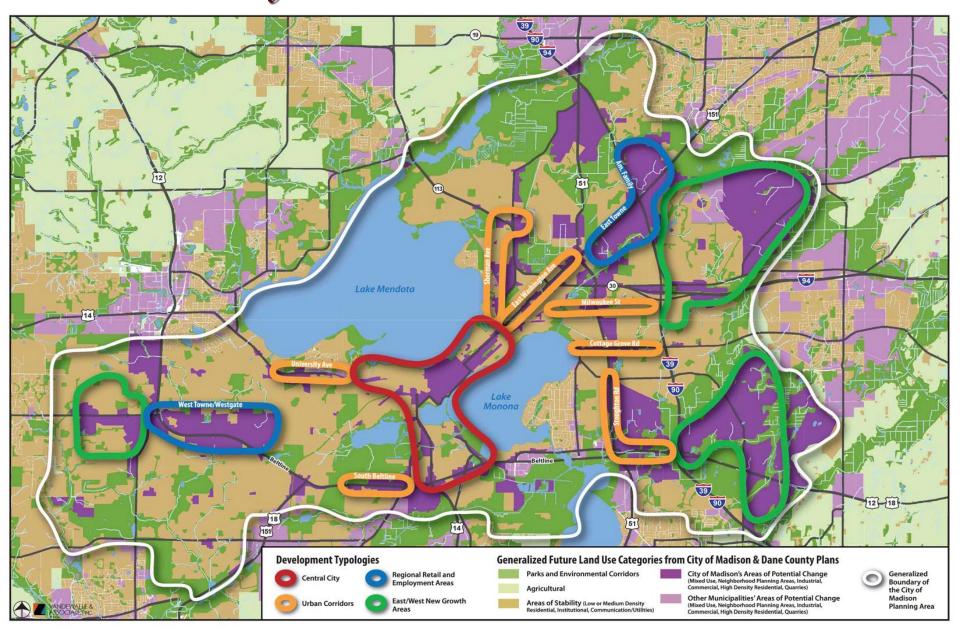
Livable Neighborhood Development Concepts







Activity Centers: Limited Growth Areas



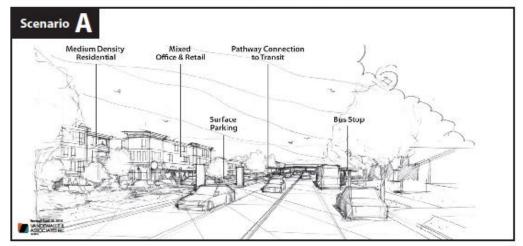
"Activity Center" Concept

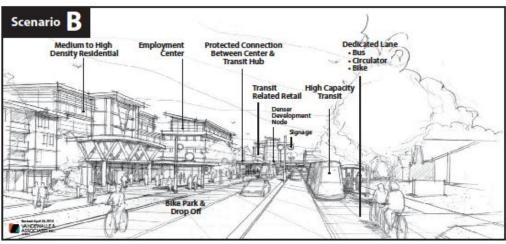
- Transit-Oriented Development
- •High density **mix of land uses** (commercial, residential, community services, etc.)
- High frequency transitservices/transfer opportunities
- Structured auto parking to support development (possible park-and-ride for commuters)
- Secure bicycle parking
- Engaging pedestrian
 environment (lighting,
 streetscapes, etc.)

Milwaukee Street - An Urban Corridor Example











"Activity Center" Concept: An Example





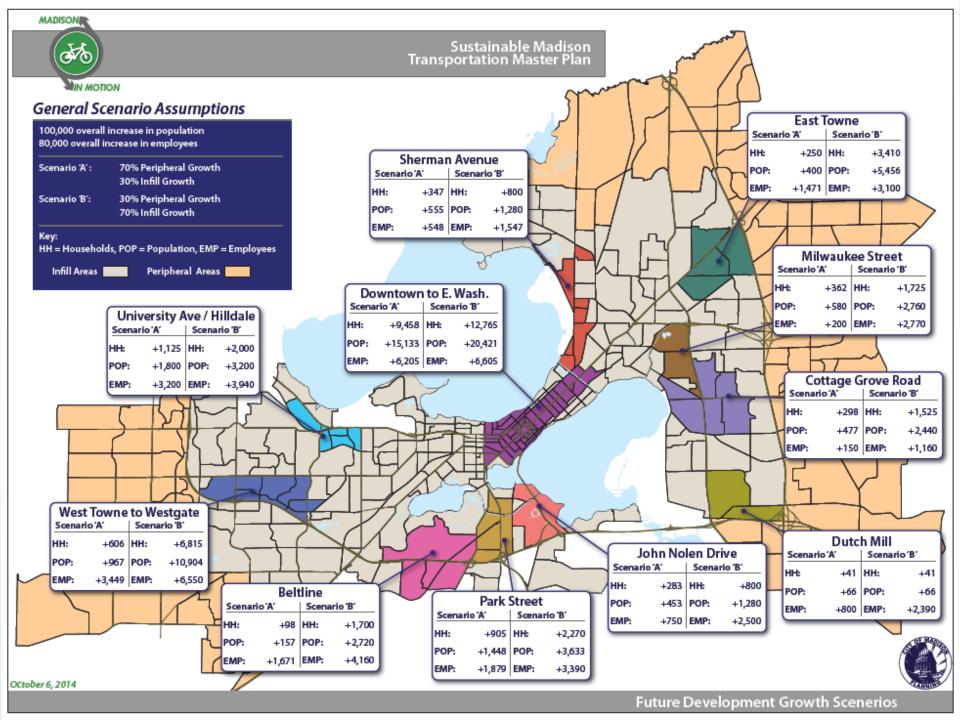




"Activity Center" Concept: Examples



"Activity Center" Concept: An Example





Potential Activity Center/Redevelopment Area



Potential Activity Center/Redevelopment Area









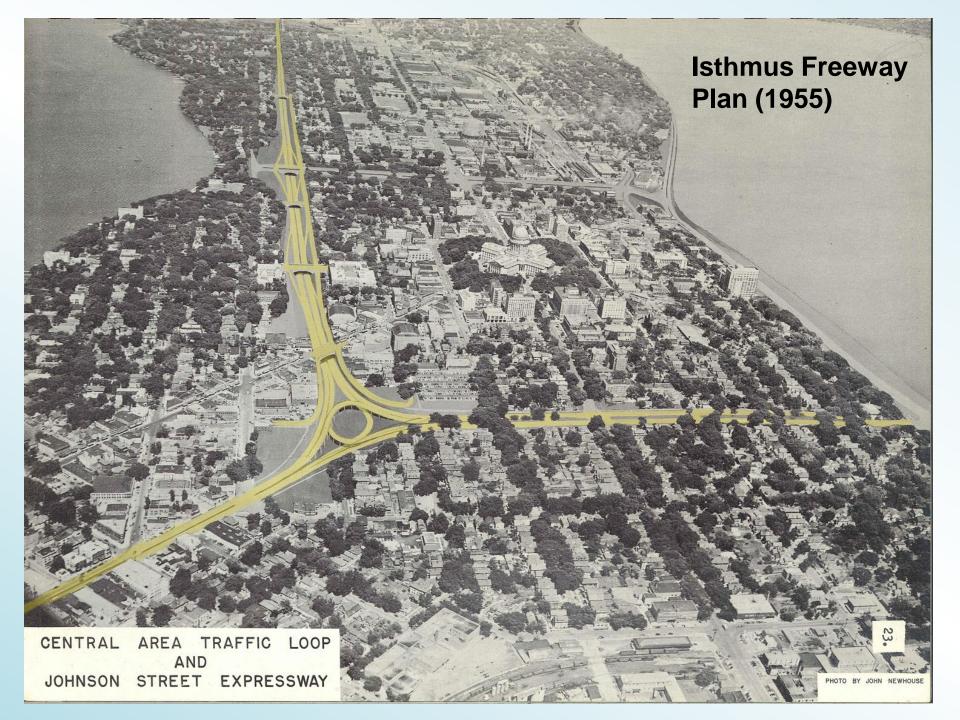
Westgate Area Conceptual Study

Prepared by City Of Madison Planning Divisio

Newsenhar 13, 70

Streets and Roadways

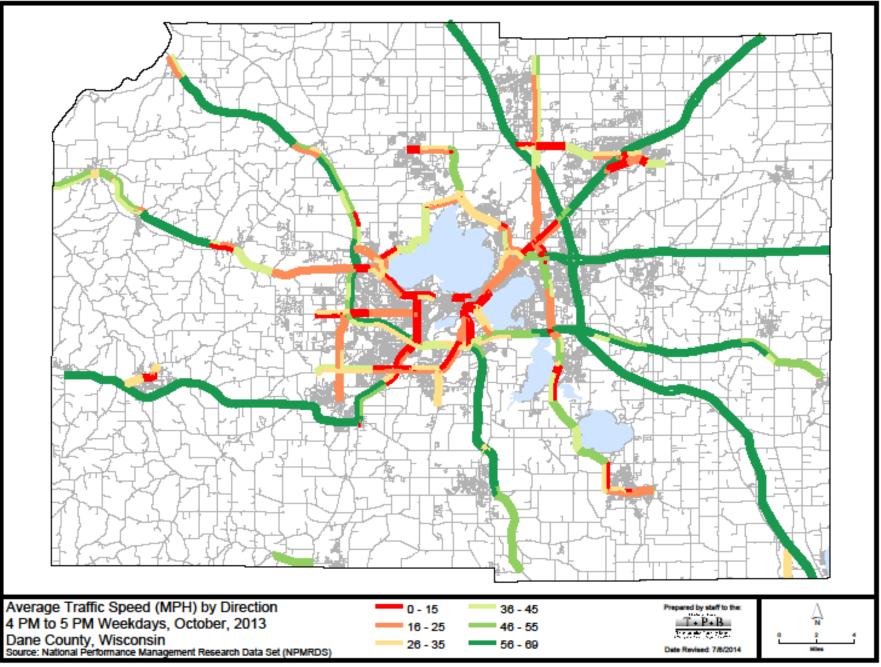




Madison in Motion

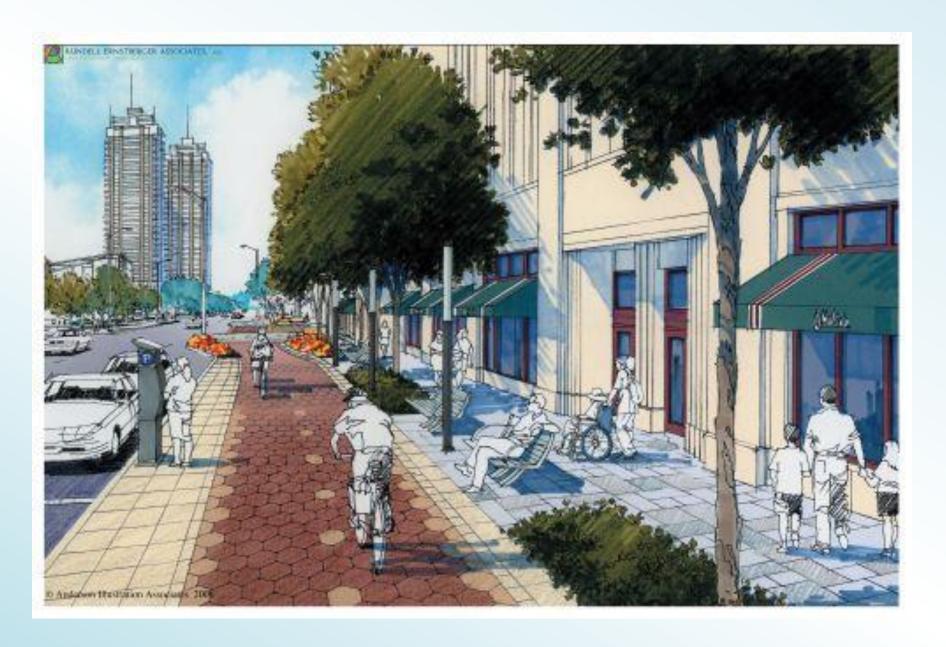
Streets and Roadways: Assumptions & Goals

- → Commitment to maintaining high quality pavement conditions - emphasis on repair of existing streets
- → Ability to add new roadway capacity (new travel lanes) severely limited in Central Area of the City; new capacity only in select areas on periphery
- → "Complete Streets" design approach (bike, ped, transit)
- Utilize State-of-the-Art Technologies and innovative roadway designs
 MADISON





Complete Streets Principles: Arterial



Complete Streets Principles



Pedestrian Network

Multi-Modal Transportation System Alternatives

Pedestrian Facilities

- Address **barriers** to pedestrian mobility
- Identify where **key linkages** in the pedestrian network are missing
- → Identify priority locations for new/improved pedestrian facilities

City of Madison ity of lonona

Sidewalk Evaluation: East Side













Healthy Pedestrian Environment



Bicycle Network



Multi-Modal Transportation System Alternatives

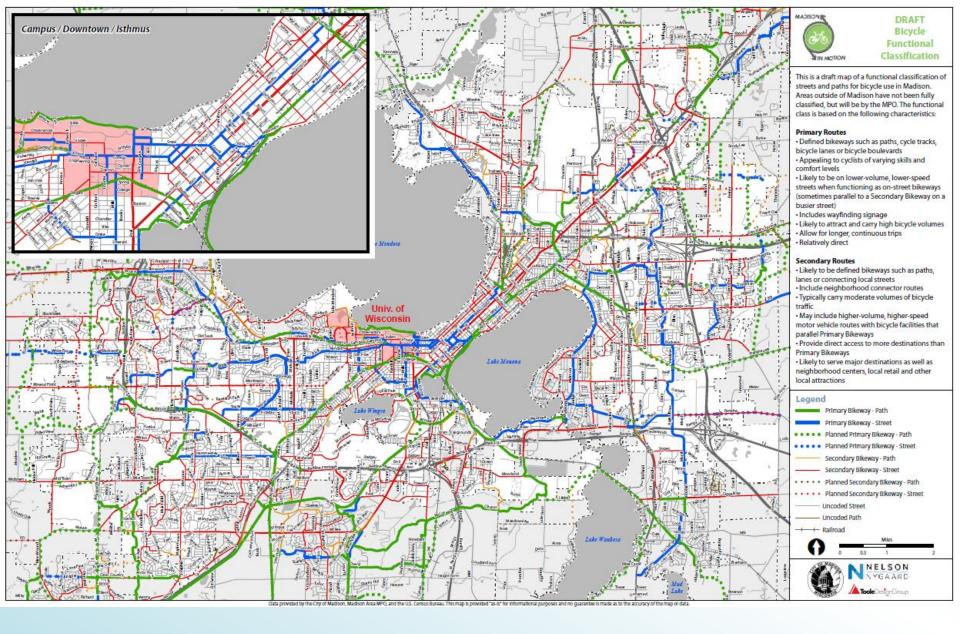
Bicycle Facilities

- Separate bicycle systems for different user types (on-street lanes and off-street paths)
- Identify system gaps/barriers to bicycle mobility
- Evaluate mode connectivity opportunities (park-and-bike and bike-and-transit)

- Evaluate state-of-the-art technologies and innovative

facilities



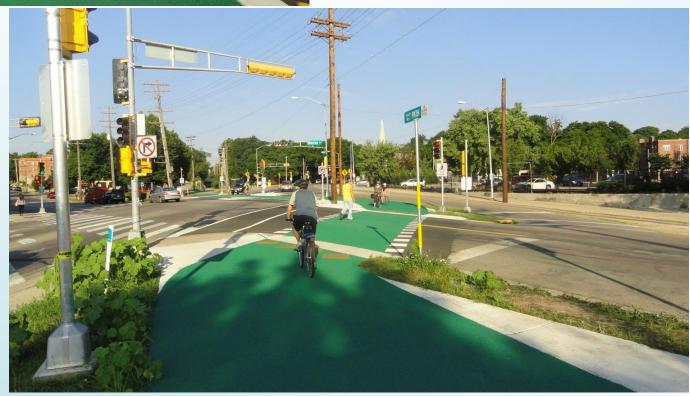


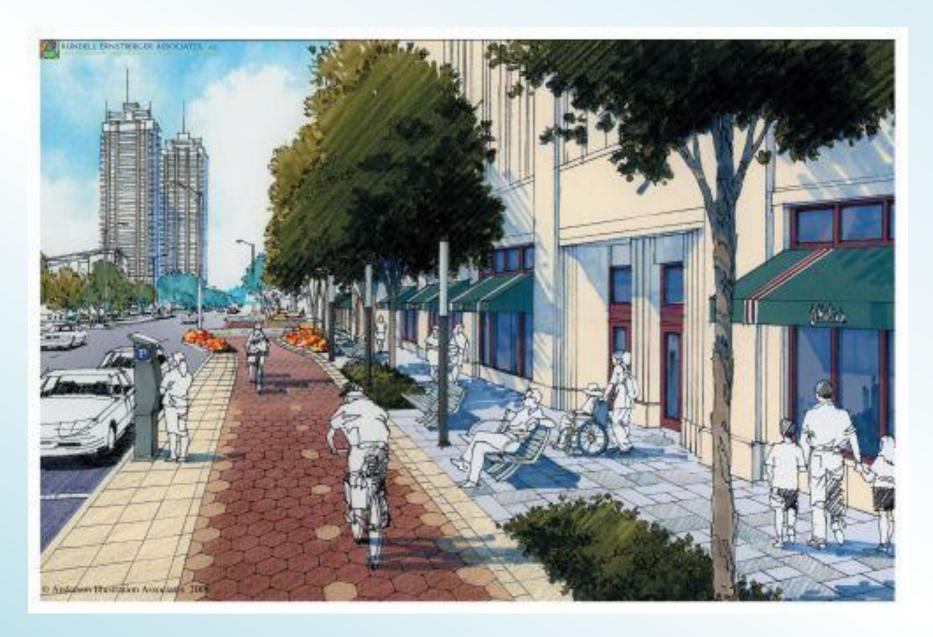
Bicycle System/Functional Classification Map



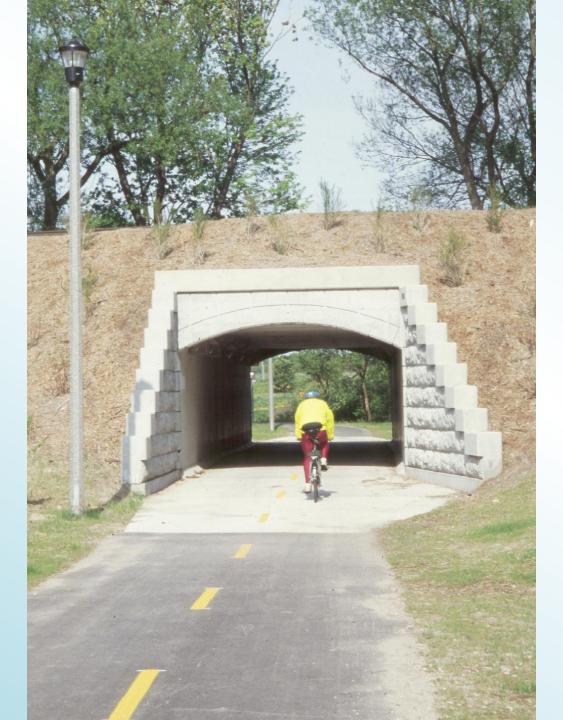


Innovative Bicycle Facilities





Innovative Bicycle Facilities



Addressing System Gaps & Barriers





ACTIVE B-STATIONS

- Wisconsin Ave. & E. Mifflin St.
- N. Webster St. & E. Mifflin St.
- E. Doty St. & S. Pinckney St.
- S. Hamilton St. & W. Main St.
- MLK & E. Wilson St.
- W. Wilson & MLK
- 7. N. Park St. & Spring St.

- 8. S. Breese Ter. @ Camp Randall
- John Nolen Dr. @ Law Park
- 10. N. Park St. @ Memorial Union
- 11. Hawthorne Ct. & State St.
- 12. E. Gorham St. @ J. Madison Park
- 13. W. Gilman St. @ Peace Park
- 14. N. Shore @ Brittingham Park
- 15. E. Gorham St. & N. Brearly St.
- 16. Eastwood Dr. & Division St.
 - 17. Sheraton Hotel
 - 18. Olbrich Gardens
 - 19. N. Thornton Ave. @ Tenney Park
 - 20. S. Few St. & Williamson St.

 - 21. Observatory Dr. @ Natatorium Gym 22. Observatory Dr. @ UW Hospital
 - 23. Union South

- 24. Vilas Park @ Arboretum Dr.
- 25. University Ave. & Charter St.
- 26. W. Washington Ave. & Regent St.
- 27. Wisconsin Ave. & W. Johnson St.
- 28. Williamson St. & Jenifer St.
- 29. Harrison St. & Monroe St. 30. N. Lake St. & Univeristy Ave.
- 31. Knickerbocker St. & Monroe St.
- 32. N. Lake St. & Langdon
- 33. University Ave. & Bassett St.
- 34. W. Mifflin St. @ Central Library
- 35. Highland Ave. @ University Children's Hospital
- 36. University Ave. @ University Station Clinic
- 37. University Ave. @ UW Credit Union
- 38. N. Midvale Blvd. @ Hilldale Shopping Center
- 39. University Row @ UW Digestive Center









madisonbcycle.com Customer Service: (800) 473-4743



Public Transit

Multi-Modal Transportation System Alternatives

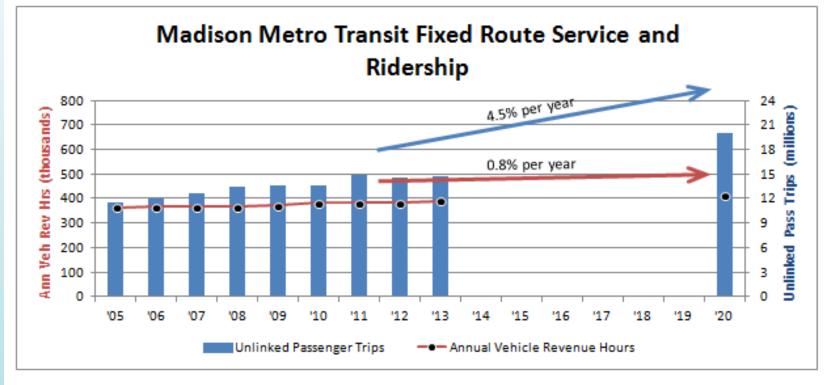
Public Transit Evaluation

- Bus Rapid Transit (BRT) concept
- Park-and-ride opportunities
- Central Area circulator system
- Intercity bus/intermodal terminal locations
- Express bus service (to Dane County communities)









Bus Rapid Transit (BRT) Madison Urban Area System Proposal





Bus Rapid Transit (BRT) Conceptual Elements

BRT vs. Local Bus (differing characteristics)

- Direct Routes/Fewer Stops
- Simple, Frequent All-Day Service (every 10-15 min.)
- Branded Stations and Buses
- Transit Signal Priority
- Off-Board Fare Payment
- Bus-Only Lanes (median or curb; full or partial)



Kansas City MAX (from KC



Bus Rapid Transit (BRT)





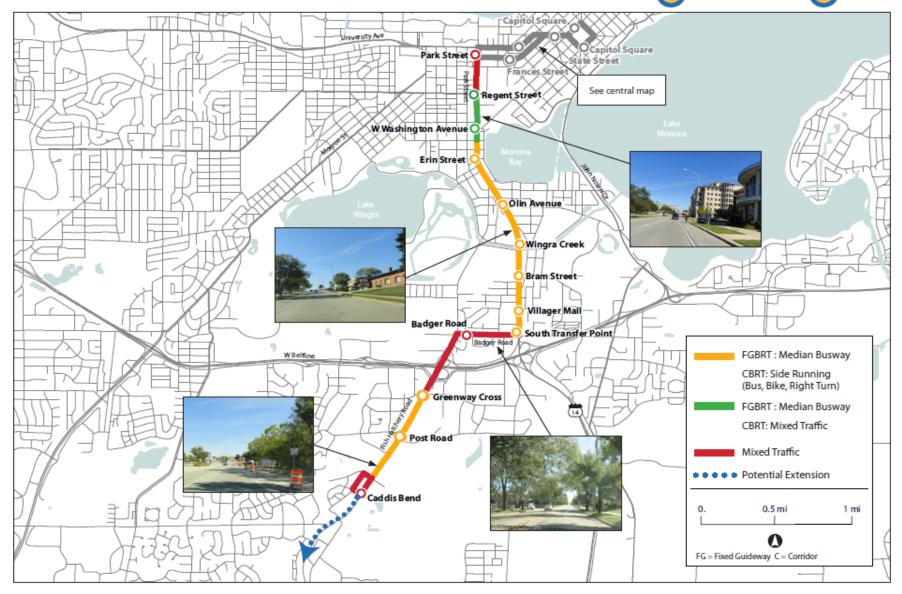




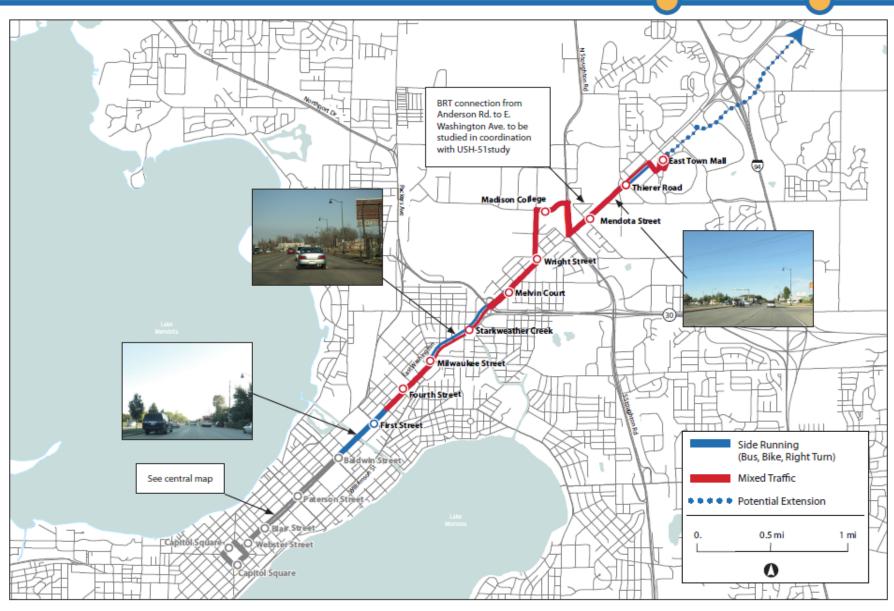




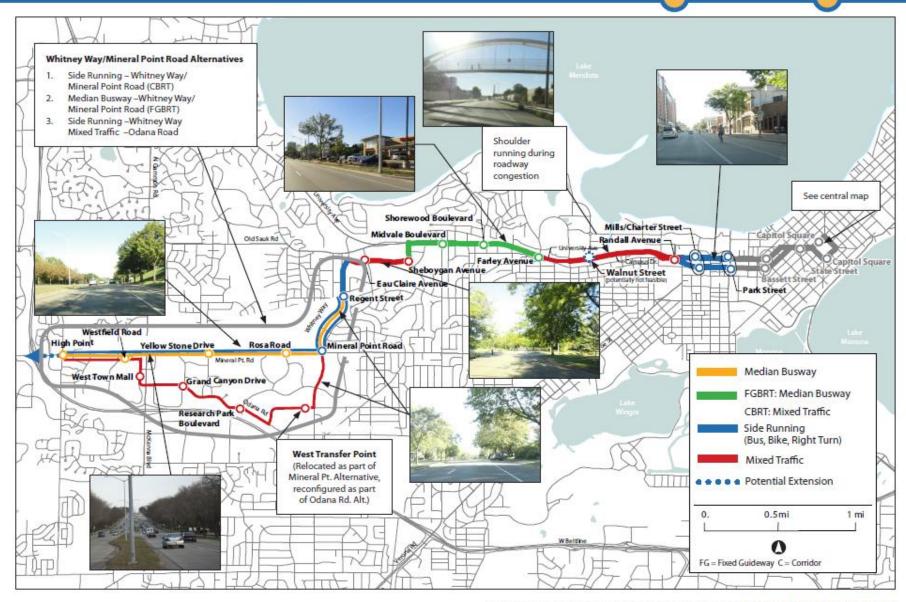
South Corridor: Stations and Runningway Types



East Corridor: Stations and Runningway Types



West Corridor: Stations and Runningway Types



North Corridor: Stations and Runningway Types



Central Corridor: Stations and Runningway Types

