



2017 **M** 201



Transit Development Plan

For the Madison Urban Area

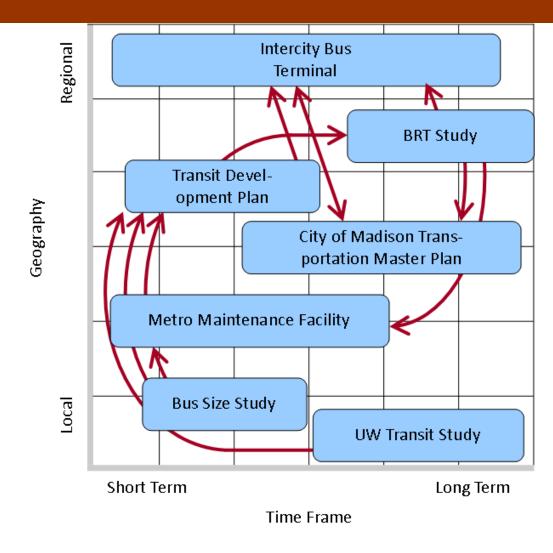
Background

- Five-year strategic plan (2013 2017)
- Developed by MPO in cooperation with Metro Transit
- Intended to guide planning activities, service and facility improvements, and budgets
- Primarily for Metro Transit, but also intended to support other transit providers

2013 – 2017 TDP

- Overcrowding
- Route performance guidelines
- Bus Stop Spacing
- Other major transit-related studies
 - Maintenance Facility
 - Bus Rapid Transit
 - Bus Size Study
 - Intercity Bus Terminal
 - City of Madison Transportation Master Plan
 - Others

Ongoing Transit-Related Studies



Summary of Current Transit Service

- Metro Transit (City of Madison)
 - Regular Fixed Route (Routes 1-74)
 - Campus Circulators (Routes 80-84)
 - Supplemental School Day Service
 - Metro Paratransit
- Monona Transit
- Sun Prairie Shuttle and Shared-Ride Taxi
- Stoughton Shared-Ride Taxi
- Specialized Transportation Services

Metro Transit Fixed-Route

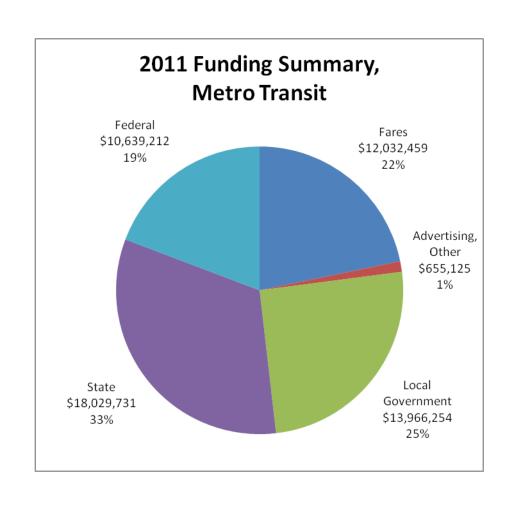
- Core Routes Medium frequency, all-day, transfer point-to-transfer point
- Peripheral Routes Low to medium frequency, peripheral areas, often loops
- Commuter Routes Peak period only
 - Roughly 7-9 a.m., 4-6 p.m.
- Circulator Routes Medium to high frequency, all-day, shorter routes

Metro Transit Facilities



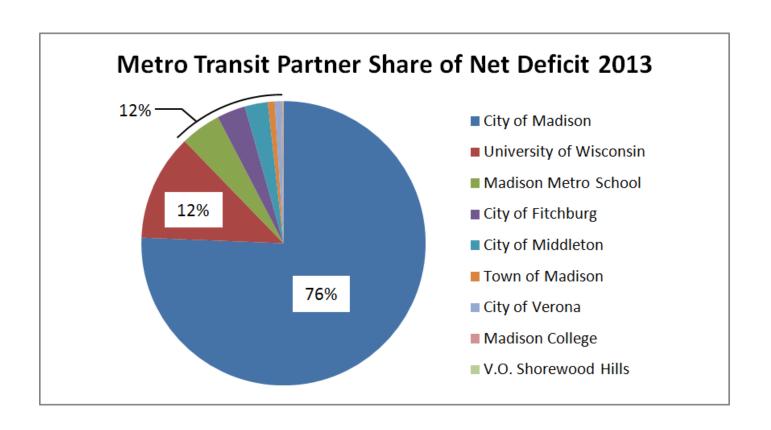
2013 – 2017 Transit Development Plan

Metro Transit Funding



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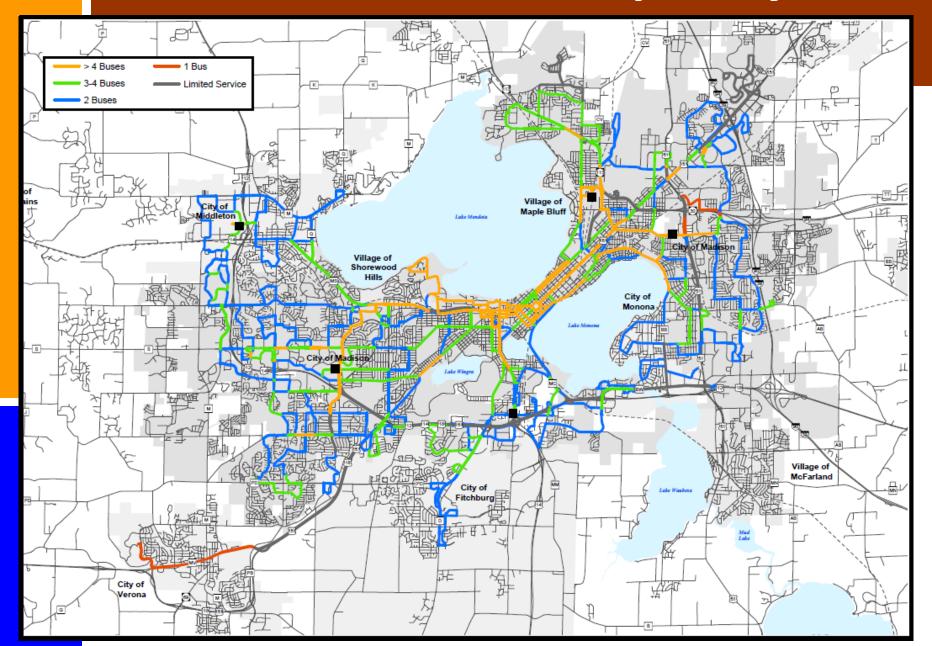
Metro Transit Funding



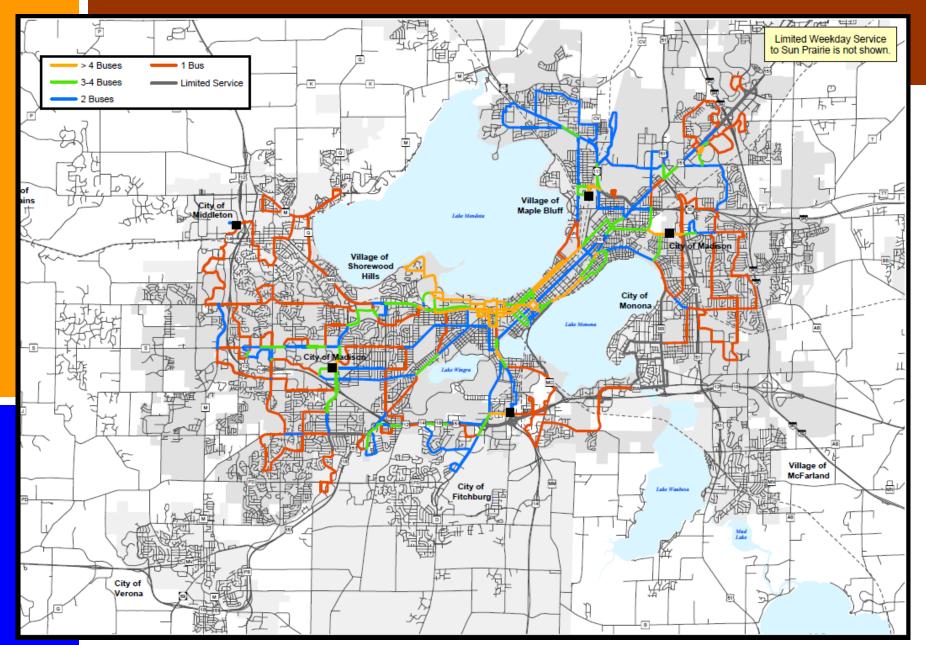
Farebox Boarding Analysis

- Three-week sample in October, 2011
- Metro Transit Fixed-Route only
 - Does not include Supplemental School Day Service, paratransit, Monona Transit, etc.
- Extra bus hours are not counted, but boardings on extra buses are counted
- Routes through downtown are split into radial sections
 - For example, Route 2-West and 2-North

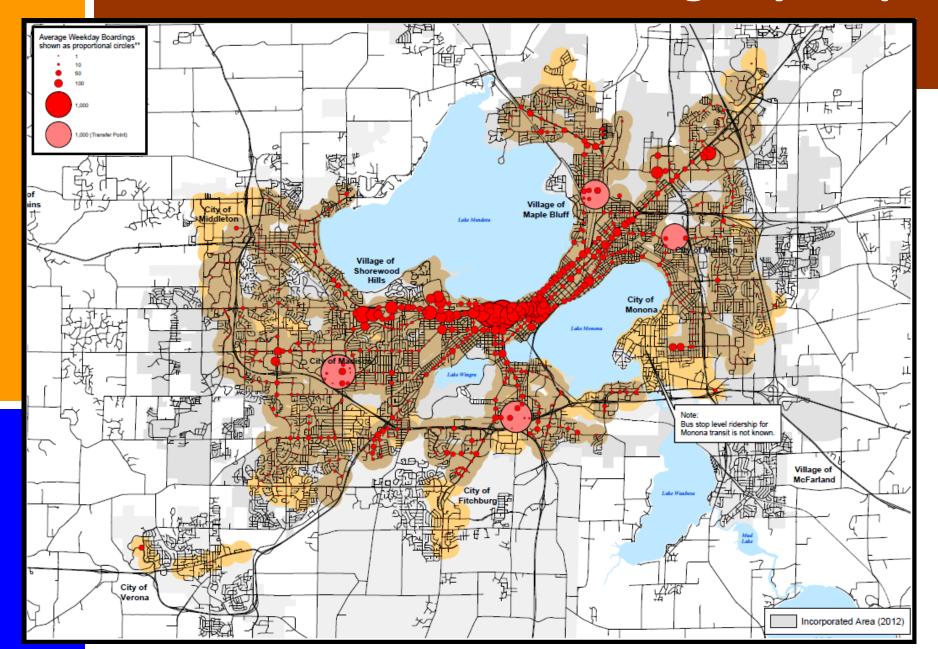
Peak Period Frequency



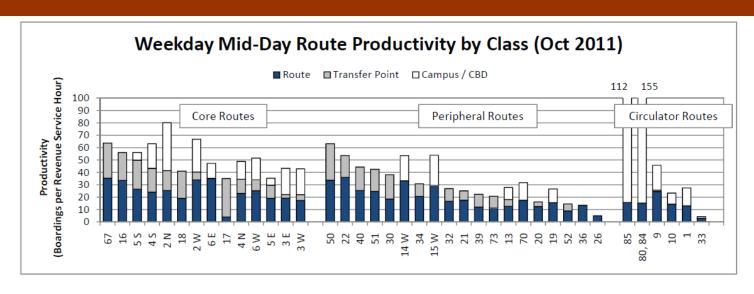
Mid Day Frequency

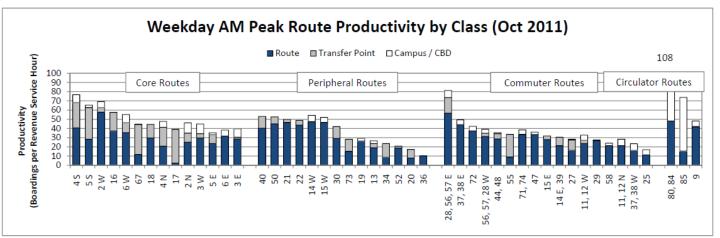


Service Area and Boardings by Stop



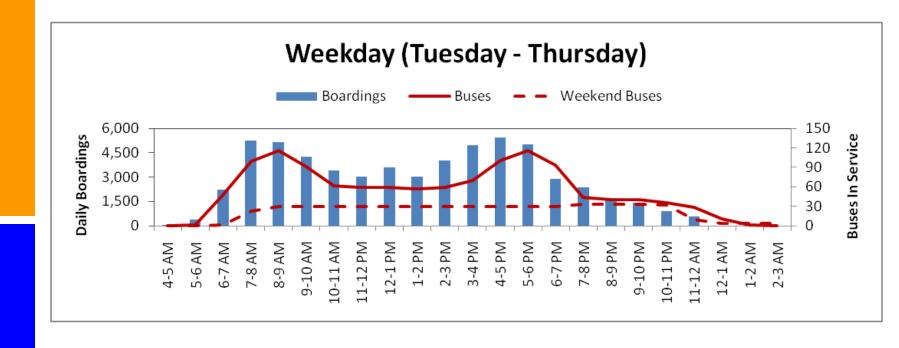
Route Productivity



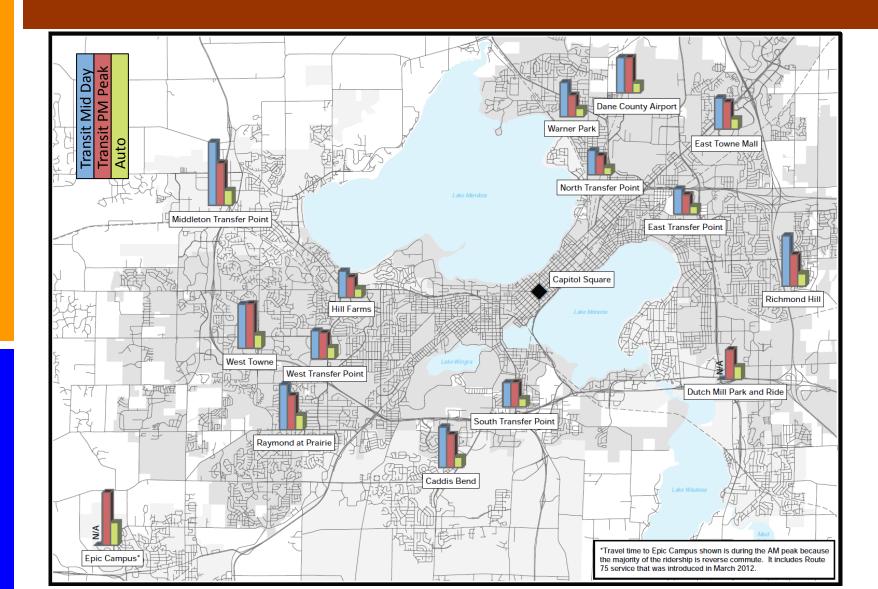


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Boardings by Time of Day



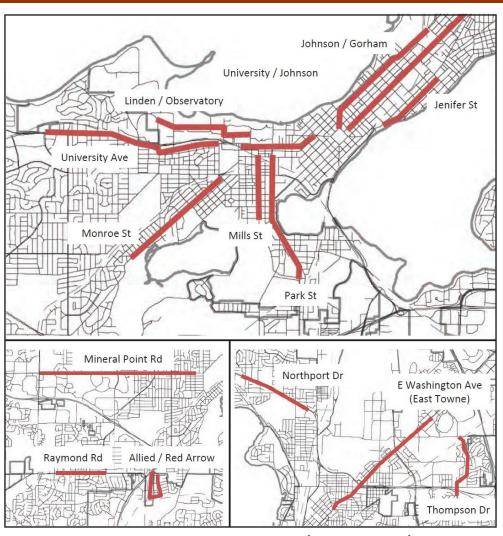
Travel Times from Capital Square



Bus Stop Spacing Analysis

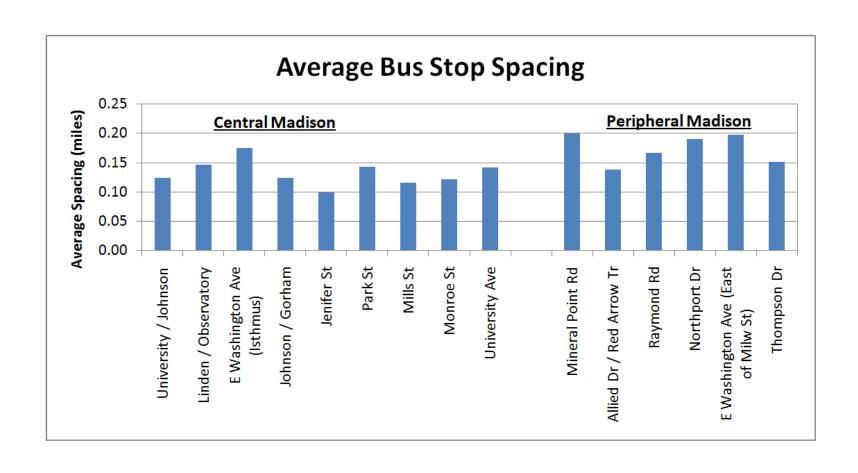
Central Madison

Peripheral Madison



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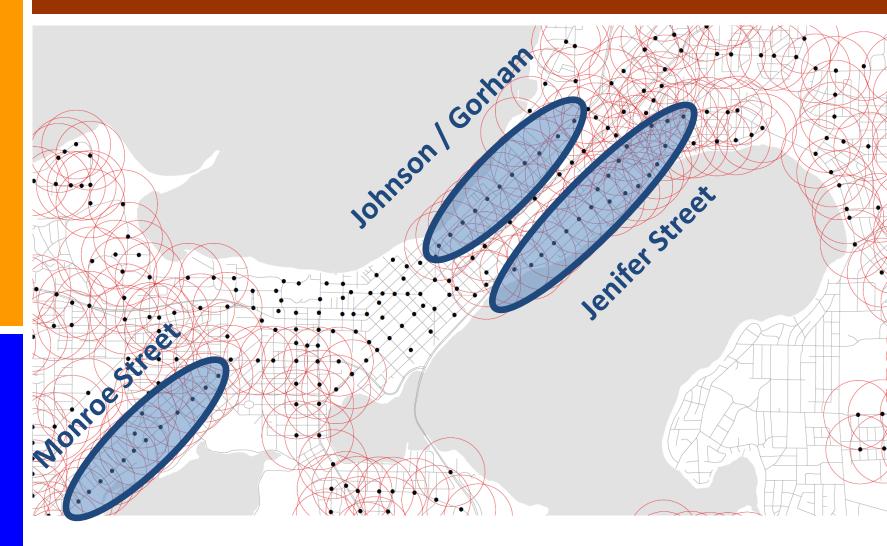
Bus Stop Spacing Analysis



TDP Recommendations

- 33 recommendations related to Transit Planning, Facilities, Major Projects, Paratransit, Fleet, Information and Marketing, and Funding, fares, and TDM
- Fixed route service change concepts to be developed if/when funding is available
- Expansion of commuter express service planning

Bus Stop Consolidation Program



2013 – 2017 Transit Development Plan

Bus Stop Consolidation Program

- + Reduced travel time
- + Improved reliability
- + Reduced fuel use and emissions
- + Reduced wear and tear on buses
- + Improved amenities

- Increased walking distance
- Loss of service coverage
- Potential impacts to people with limited mobility

Trade-off

Access to Transit

Speed + Reliability

Bus Stop Consolidation Program

- Goal of increasing distance between stops along corridors
 - Bus stops on the Isthmus are every block (660 feet, 8 per mile) or closer
 - Adopts a standard of 990 1,320 feet (4-6 per mile)
- Further planning and analysis, looking at each stop, land use, resources
- Extensive outreach, public meetings

Conceptual Service Change Concepts

- Short, medium, and long-term
 - Improved frequency of core service
 - More direct routing
 - Service extensions
 - Service restructures to more efficiently use resources
- Not all will be implemented, exercise for identifying needs, opening discussion for use of future funds if available
- Utilizes BRT concepts
- Data-driven

Priority 1 Service Change Concepts

		Priority 1 Short-Term (1-3 years)				
Index	Routes	Action	Cost *	Goals	Annual Cost **	Annual Hrs
1-1	2, 3	Eliminate Sherman via (Route 2) and Division via		4	\$0	0
		(Route 3). All trips operate via Fordem and				
		Winnebago, respectively.				
1-2	6, 20	Eliminate Route 6 Hayes via, all trips operate via		2, 3, 4, 5,	\$0	0
		MATC.		7, 8, 10		
		Reroute Route 20 via Portage and Hayes.				
1-3	12	Eliminate routing on Lake Point and Waunona.		2, 8, 10	\$0	0
1-4	27, 29	Eliminate Route 29, extend Route 27 to Dane		2, 4, 7, 8,	\$0	0
		County Regional Airport and North Towne Center		10		
		P&R.				
1-5	14, 15, 25,			2, 3, 8, 10	\$0	0
	27	Washington Avenue from the Capitol Square to				
		Milwaukee Street.				
1-6	11, 15, 56,	Establish an express stop pattern on University		2, 3, 8, 10	\$0	0
		Avenue from the UW to Segoe.				
	74					
1-7	2	Improve weekday peak and mid-day service to	\$\$\$ MD	3, 4, 5, 9,	\$337,500	4,500
		every 15 minutes between the West Transfer Point		10		
	····	and Capitol Square.	**		4	
1-8	9, 10, 33	Reduce the number of buses in the mid-day	-\$\$ MD	8	-\$225,000	-3,000
		rotation from six to four, restructure to eliminate				
		service west of UW campus, duplicative service on				
		Johnson / Gorham, and Route 33.	444 517		4007 -00	
1-9	14, 15,	Extend a new peak-only route to Colony Drive and	\$\$\$ PK	2, 3, 5, 10	\$337,500	4,500
	West	west Madison, similar to the peak-period Route 14				
	Madison	routing west of Rosa Road. Reroute the peak-				
		period Route 14 to be similar to the mid-day Route				
		14, and reroute routes 14 and 15 from Sheboygan Avenue to Regent Street and Old Middleton Road,				
		respectively.				
1-10	3, 6, 7	Convert Route 7 to Route 3 on weekends. Reduce	\$\$\$ WD	1, 2, 3, 4,	\$414,000	5,520
1-10	3, 0, 7	Route 6 weekend headways from 60 to 30 minutes.		6	Ç414,000	3,320
1-11	8, 78	Combine routes 8 and 78 into one route from the	\$ Sundays	2, 4, 6, 8,	\$69,000	920
111	0, 70	Capitol Square to Middleton via Bluff. Extend	ÇSanaays	9	\$05,000	320
		Middleton service to include Sundays.		,		
1-12	11, 12, 39	Extend routes 11 and 12 (peak) and Route 39 (off-	\$ PK, WD	6, 9	\$225,000	3,000
	,,	peak) to Owl Creek.	0.5 \$ MD, EV	5,5	V225/666	5,555
1-13	16	Reduce weekday headways from 60 to 30 minutes	1.5 \$ MD, EV	1, 2, 4, 9	\$337,500	4,500
		throughout the weekday.	,	-, -, -, -	,,	,
1-14	18, 40	Reroute Route 18 via Coho to the Beltline Highway	0.5 \$ PK, MD		\$363,000	4,840
	•	between the South Transfer Point and Seminol	\$ EV, WD		. ,	
		Highway. Restructure Route 40 so that alternating	* 7			
		trips are based out of the West Transfer Point.				
1-15	28	Reduce headways from 10-15 minutes to 7.5	ŚŚŚ PK	2, 3, 5, 8,	\$337,500	4,500
		minutes during the school year from the NTP to		10		
		UW.				
1-16	50	Reduce weekday headways from 60 to 30 minutes	0.5 \$ MD, EV	1, 2, 4, 8,	\$112,500	1,500
		throughout the weekday.	-	9		•
Total		·			\$2,308,500	30,780

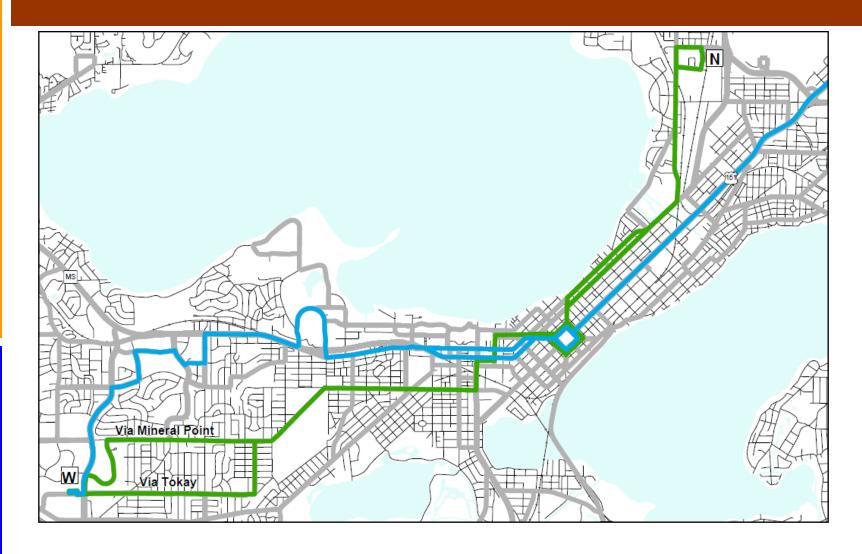
Priority 2 Service Change Concepts

		Priority 2 Medium-Term (3-5 years)			1	
Index	Routes	Action	Cost *	Goals	Annual Cost **	Annual Hrs
2-1	2, 6	Combine Route 2-West with Route 6-East and	\$\$ PK	2, 4, 5, 7	\$675,000	9,000
		reduce weekday headways from 30 to 15 minutes.	\$\$\$\$ MD			
		Combine Route 2-North with Route 6-West.				
2-2	4, 5	Reduce evening and weekend headways from 60 to	\$\$\$\$ EV, WD	1, 2, 4, 9	\$1,002,000	13,360
		30 minutes.				
2-3	10, 38	Eliminate Oakridge via. Reroute from Jenifer and	\$\$ PK	2, 3, 5, 10	\$225,000	3,000
		Broom/Basset to First and East Washington. Extend				
		Route 10 span to include peaks.				
2-4	52, 55	Reroute from Beltline and Verona Road to Whitney	\$ PK	1, 5, 7, 8,	\$112,500	1,500
		Way, Fitchrona, and Nesbitt. Reduce Headways		9, 10		
		from 60 to 30 minutes.				
2-5	51, 56, 57	Eliminate Route 51 and operate routes 56 and 57	\$ MD, EV, WD	4, 6, 9	\$363,000	4,840
		south of the WTP as a two-way loop.				
2-6	3, 58	Eliminate Route 58 and reduce Route 3 peak	-0.5 \$ PK	4, 8	-\$56,250	-750
		headways from 30 to 15 minutes.				
2-7	75	Reduce headways from 90 to 30 minutes.	\$\$\$ PK	1, 2, 7, 10	\$337,500	4,500
2-8	Grandview	Restructure routes 14 and 15 east of the ETP to	\$ PK	6, 10	\$112,500	1,500
	Commons	provide service east of I-39/90.				
2-9	Fitchburg	Introduce a new peripheral route from the WTP to	\$\$ PK, MD, EV	6, 7, 9	\$813,000	10,840
		STP via Red Arrow/Allied, King James, McKee, E	\$WD			
		Cheryl, and Fish Hatchery.				
2-10	West	Restore a commuter loop route from the UW to	\$ PK	2, 4, 7	\$112,500	1,500
	Madison	Mineral Point Road and Odana.				
Total					\$3,696,750	49,290

Priority 3 Service Change Concepts

	Priorit	y 3 Long-Term (New Service as Development and Fu	inding Allows)			
Index	Routes	Action	Cost *	Goals	Annual Cost **	Annual Hrs
3-1	Monona	Provide open-door service on Broadway and Monona Drive. Introduce a via that covers Monona Drive from Nichols/Pflaum to Buckeye		1, 4, 6, 7, 8	\$0	0
3-2	Middleton	Eliminate routes 70 and 78 and operate routes 71 and 72 off peak.	\$\$ MD, EV, WD	2, 4	\$726,000	9,680
3-3	Nine Springs	Extend routes 44 and 48 to E Cheryl and Syene.	\$ PK	6, 7, 10	\$112,500	1,500
3-4		Introduce a new peripheral route from the WTP to Pleasant View via Odana and Watts.	\$ - \$\$	2, 6, 7, 10	\$713,250	9,510
3-5	Sprecher East	Extend Route 36 from High Crossing Blvd to the ETP as a two-way route via Crossroads, Lien, Reiner, Sprecher, and Milwaukee Street.	\$\$ PK \$ MD, EV, WD	6, 7	\$588,000	7,840
3-6	Sun Prairie	Extend Route 26 to serve West Sun Prairie interlined with a new route serving East Sun Prairie as a two-way loop replacing the existing shuttle service to/from East Towne.	\$ MD \$\$ EV, WD	2, 4, 6, 7, 9	\$613,500	8,180
Total					\$2,753,250	36,710

Potential Service Change Concepts

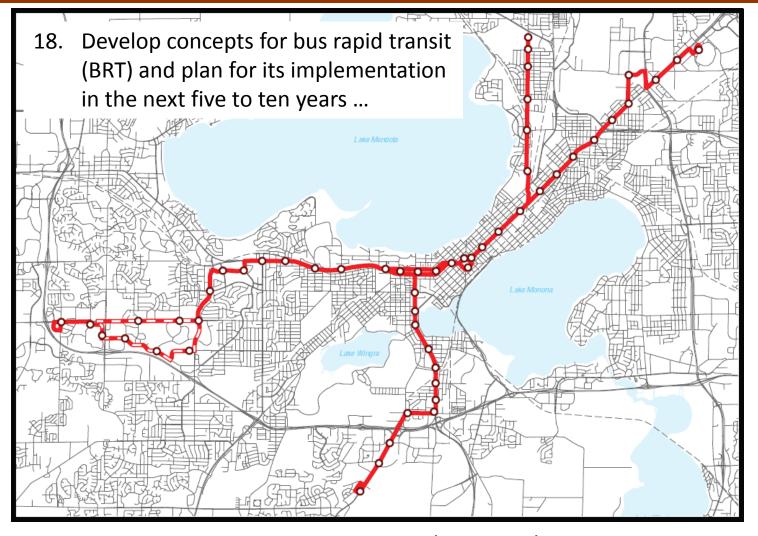


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Other Recommendations

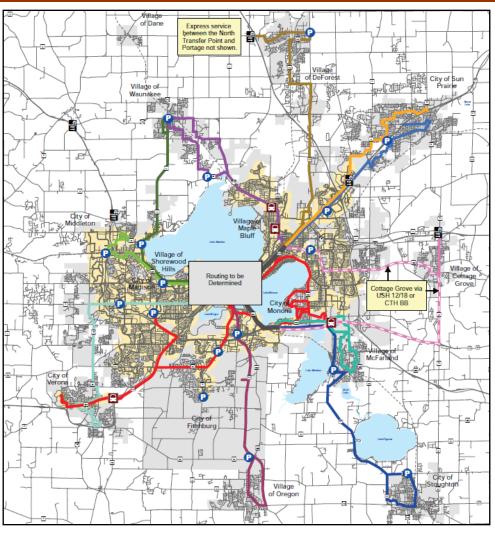
- 6. Improve transit service performance monitoring
- 12. Add boarding platforms, shelters, benches, and other passenger facilities
- 14. Locate a new inter-city bus terminal
- 17. Expand bus storage capacity
- 23. Add smaller and larger buses, if appropriate
- 32. Continue regional efforts to work towards a regional transit authority

Bus Rapid Transit



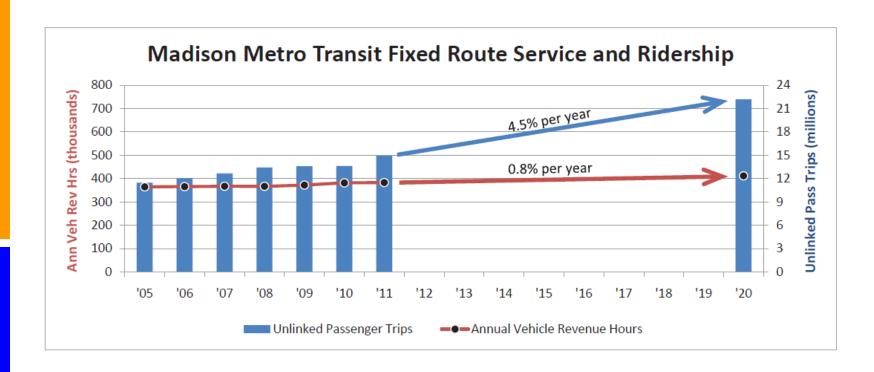
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Commuter Express Service

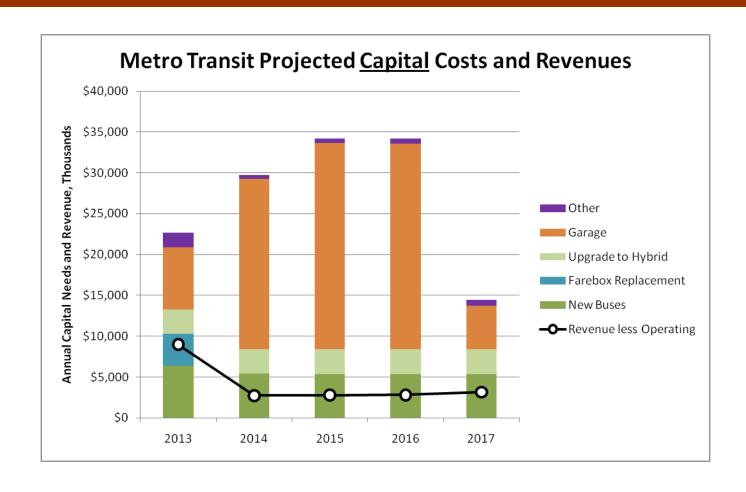


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Funding – Operating



Funding – Capital







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