Madison East-West Bus Rapid Transit (BRT) Planning Study

APA-Upper Midwest Planning Conference

The Lismore, Eau Claire, WI | October 3, 2019







Consultant Team



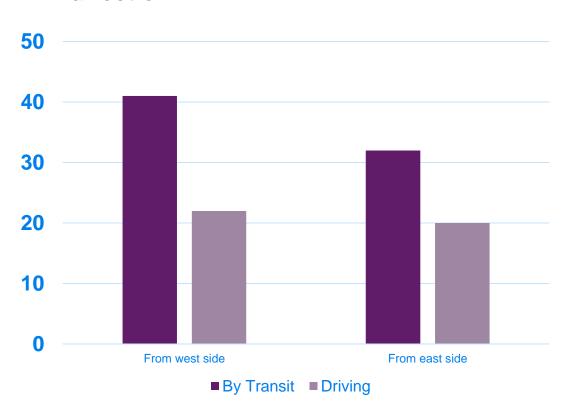
PROJECT OVERVIEW

Goals, Key Steps, Public Engagement Process and Input To Date

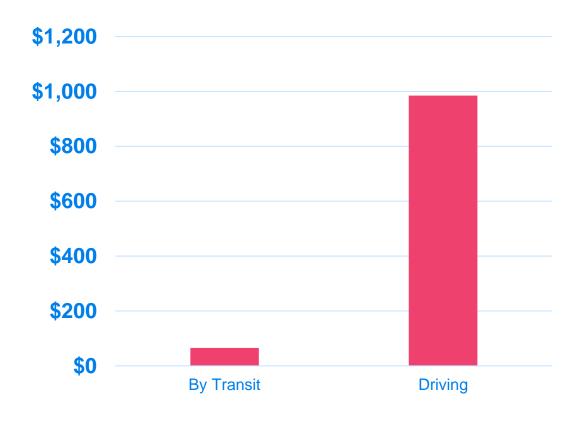


Need #1: Improve travel times throughout the corridor.

One-way trip travel time by mode and direction

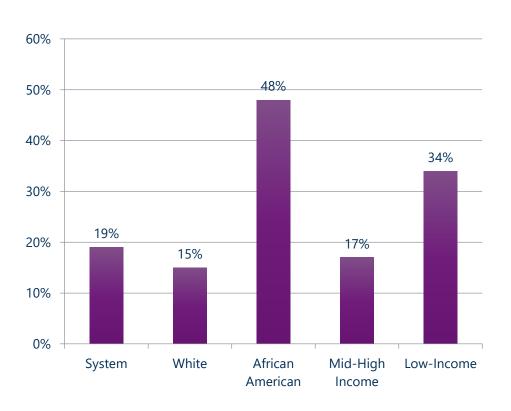


Cost of travel per month

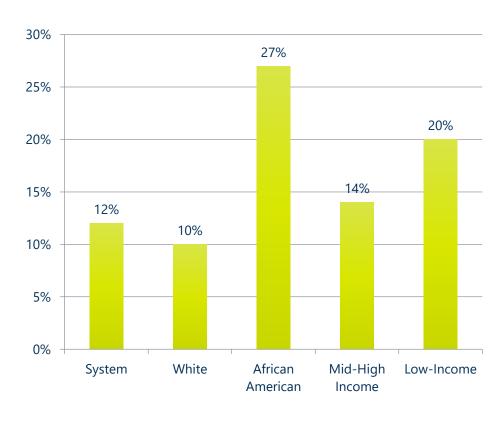


Need #2: Provide higher and more regular service levels connecting all neighborhoods.

Bus Transfer Rates for Minorities and Low-Income Populations



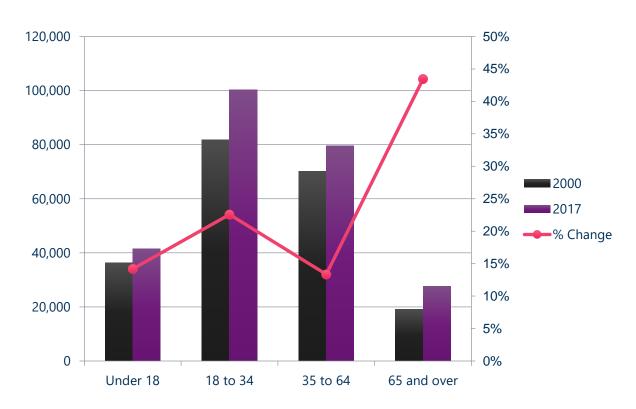
Share of Transit Riders with Travel Times that Exceed 45 Minutes



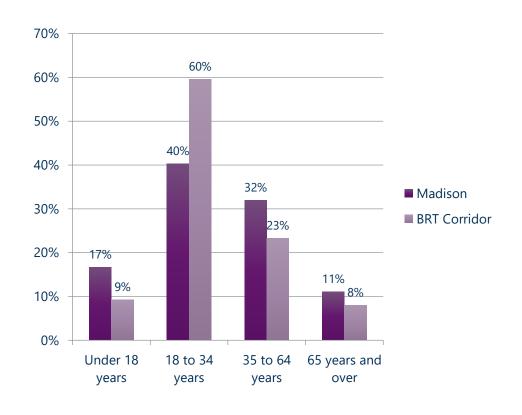
Source: Metro Transit Source: Metro Transit

Need #3: Provide mobility for all age groups.

City of Madison Percent Change in Population by Age Group, 2000 to 2017



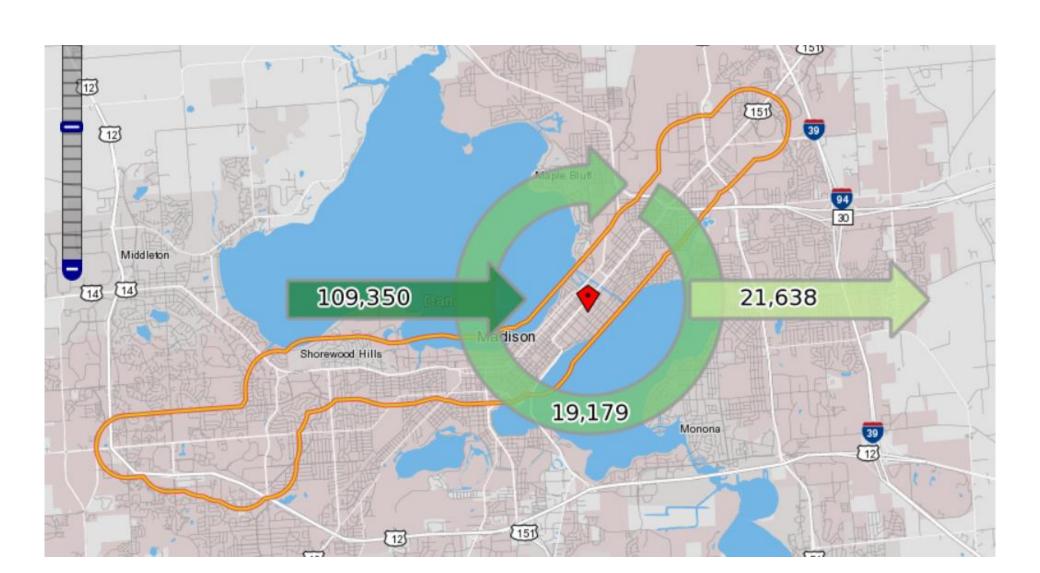
Population Age Distribution of City of Madison and BRT Corridor



Source: U.S. Census, 2000 and 2017

Source: American Community Survey, 2013-2017

Need #4: Accommodate increasing travel demand through multimodal investment.



Need #5: Transit supports Madison's sustainable growth plans and policies.

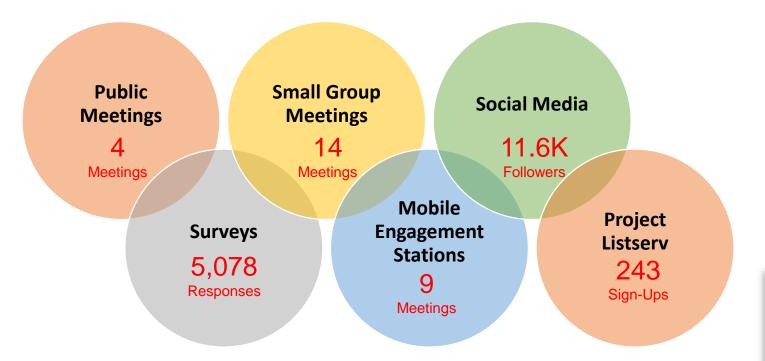


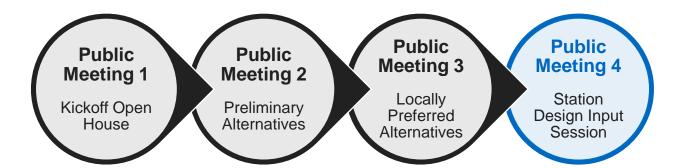






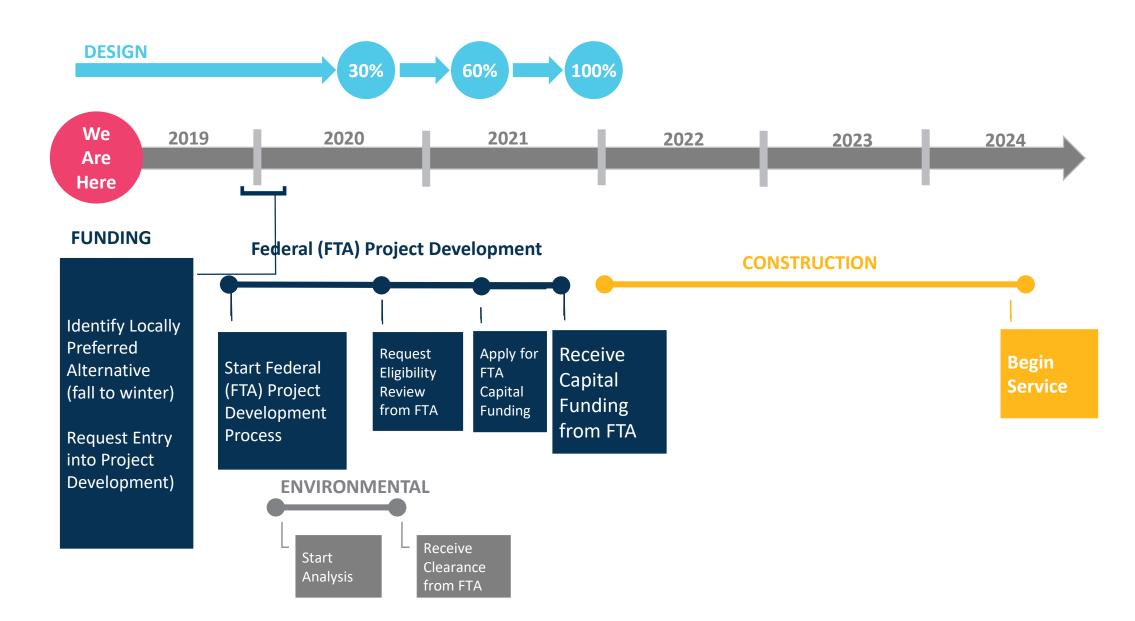
Public Engagement to-Date







Project Development Process



MADISON EAST-WEST BRT Runningway Options

BRT Runningway Options



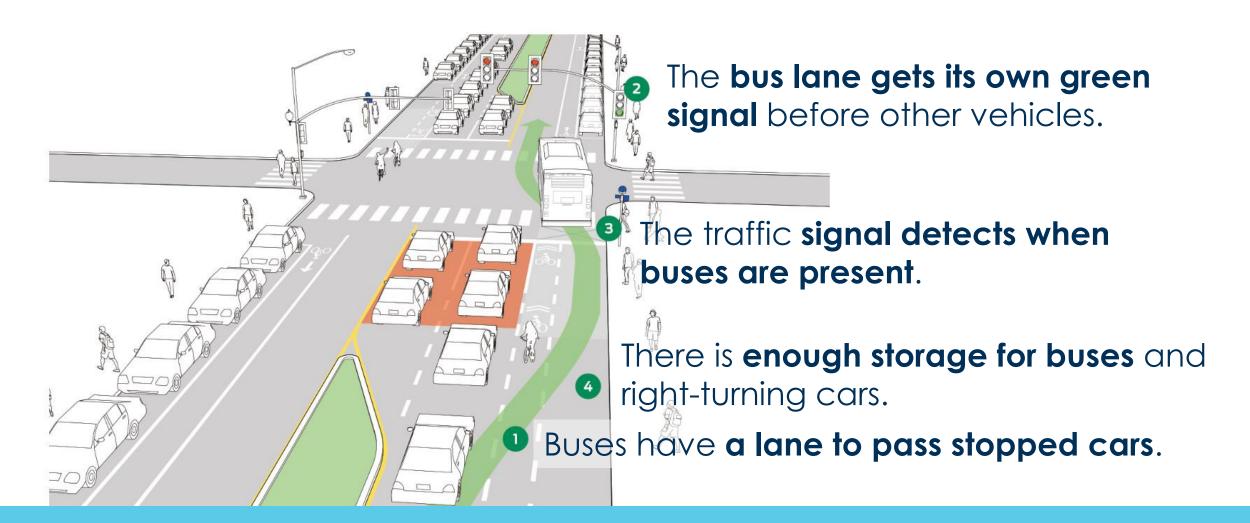
Median Dedicated BRT Lanes: remove one lane of traffic

BRT Runningway Options



Curbside Dedicated BRT Lanes: remove one lane of traffic or parking

BRT Runningway Options



BRT Operates in Mixed Traffic: transit signal priority and queue jumps

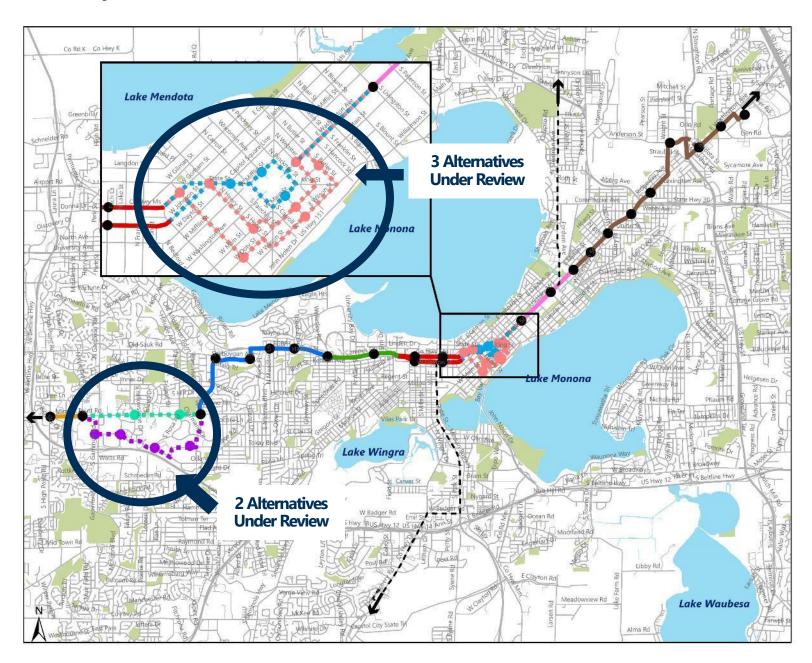


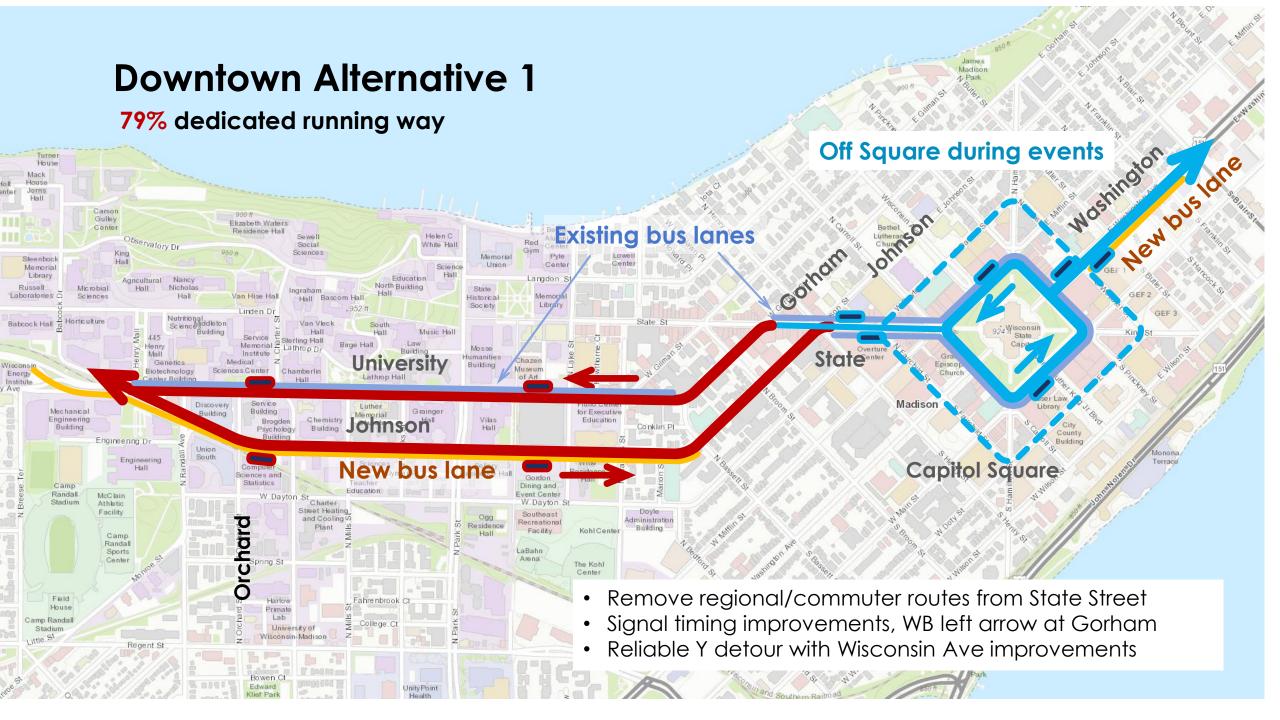


MADISON EAST-WEST BRT

Route Options and Working Locally Preferred Alternative

Working Locally Preferred Alternative Route

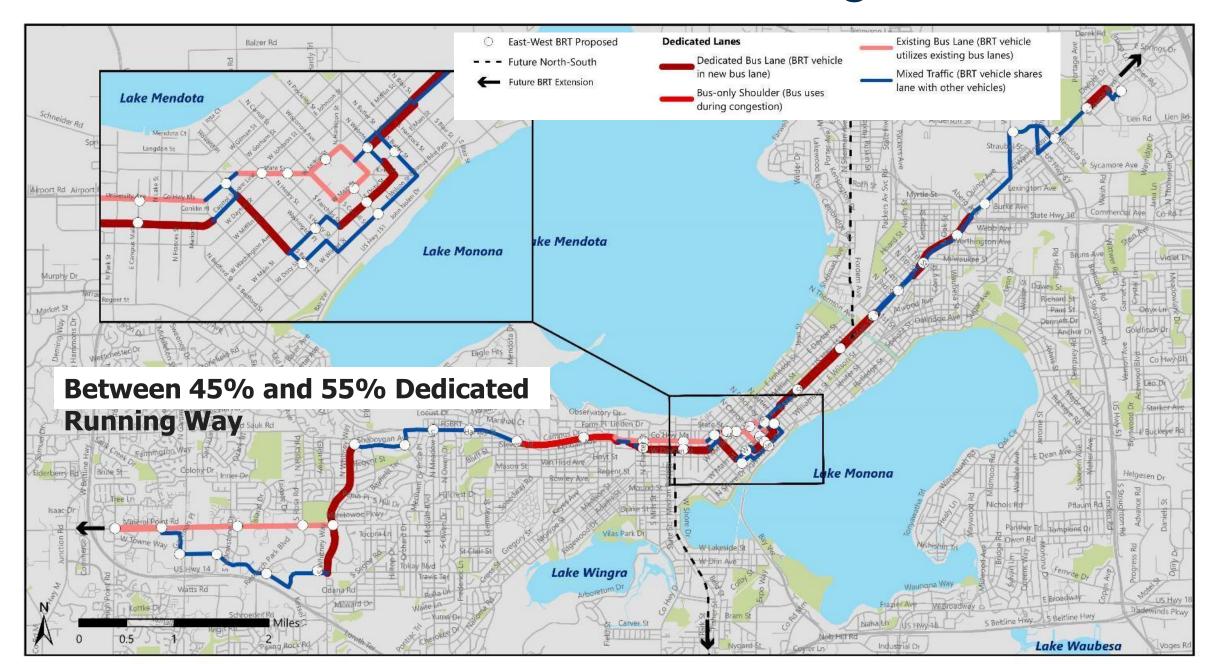




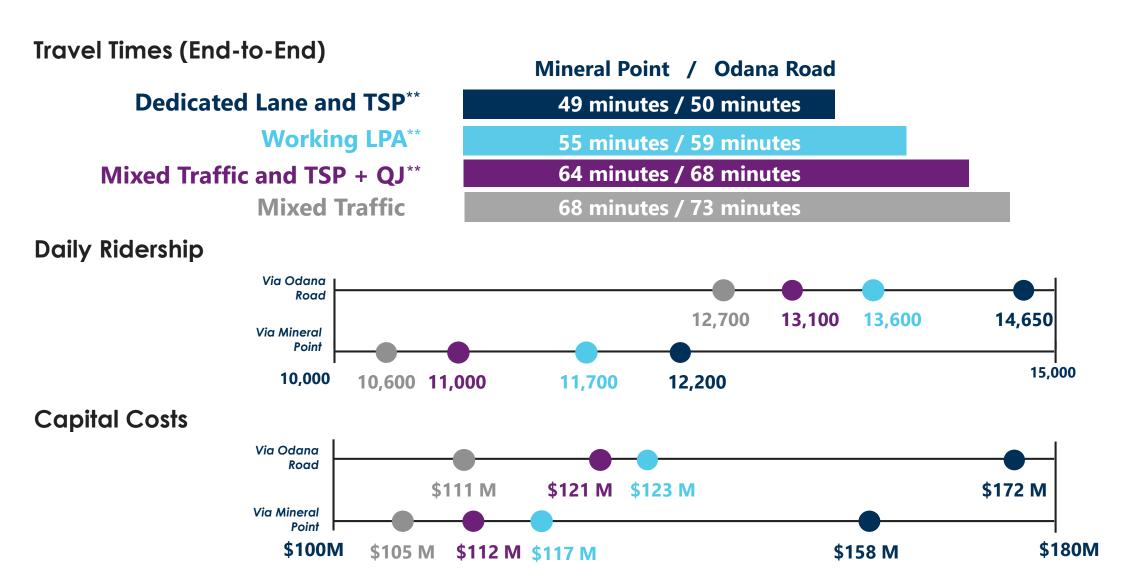


Downtown Alternative 3 Requires ~110 Parking **Spaces and Loading Zones** 72% dedicated running way Existing bus lane Historical Society Overture Episcopal Madison Johnson" Vilas Hall Engineering Dr Engineering New bus lane Randall The Kohl Center Field House Primate Buses go both ways on Broom Using new SB counterflow lane Unity Point

Location of Dedicated Lanes for Working LPA



BRT Travel Time, Ridership, Capital Costs*



^{*}All data reflects the Broom/Wilson downtown option

^{**}LPA = Locally Preferred Alternative, TSP = Transit Signal Priority, QJ = Queue

Next Steps

- Fall 2019-Winter 2020: Apply for entry into federal funding process
- 2020: Continued planning, community engagement and system design

Thank You!

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