

#### **East-West Bus Rapid Transit**

Common Council Executive Committee July 13, 2021

#### 2017-2020 (4yrs) Madison approved 10,000 dwelling units creating 80,000 daily trips

Chalence

2017-2020 (4yrs) Madison approved 5 million square feet of office, commercial, industrial, and institutional space – (15,000 parking spaces?)

# Employment 200,000 jobs in 2010 200 -98,000 projected for Dane Co 2050 +46,000 projected for Madison 2050 -14 to 18,000 in Isthmus III

#### Previous Rail/ High Capacity Transit Studies

- + 1980-81 Dane County Transit Technology Corridor Study (DCRPC)
- + 1985-86 Dane County Transit Priority Corridor Study (DCRPC)
- + 1990-92 Light Rail Transit Corridor Study (C. Madison)
- + 1996 Study to Evaluate Commuter Rail Implementation (Dane Co)
- + 1998 Dane County Commuter Rail Feasibility Study (Dane Co)
- + 1999-2003 Transport 2020 Commuter Rail Alternatives Analysis (City/C FTA told us to turn back
- + 2005-2008 Transport 2020 Commuter Rail Preliminary Engineering/Els, We wouldn't qualify
- + 2011-13 Bus Rapid Transit Preliminary Feasibility Study (MATPB)

→ 2018-19 Bus Rapid Transit East-West Planning Study (C. Madison)



#### FEATURES WITHIN A 10 MINUTE WALK OF EAST-WEST BRT

residents

 $\mathbf{30}$ 







**4** with complementary Service





Proposed BRT Routes

Madison, WI



Fighte Clouds



\$9.5 billion in economic development along BRT corridor in Cleveland

The HealthLine has been credited with having <u>the highest return-on-investment of any</u> <u>public transit project</u> in the nation, leveraging \$190 for every transit dollar invested.

> **For every \$1** communities invest in public transportation, **approximately \$4** is generated in economic returns APTA

Benefits

### Bus Rapid Transit

- Direct routes and fewer stops
- Frequent, all-day service
- Bus-only lanes
- Branded stations & buses
- Transit signal priority
- Faster fare payment



## Cap East District

DNL

BUS

21





#### State Street in BRT Routing



#### State Street in BRT Routing



2019-20

(Legistar 59665)

(Center Running)

### State Street Routing

- Goes to where people want to go.
- Provides access to the visible and cultural center of the City
  - Three museums
  - Performing arts center
  - Retail and Restaurants
- Station and people oriented
- Free from most traffic delays
- Fast and direct (rather than circuitous)



### Transit Use On State Street

- 950 people per weekday boarded at the stops that will be consolidated into the State Street BRT station
- About 250,000 people per year
- Many times more pass through State Street on the bus and see the opportunities







#### 2019 Upper State and Square Weekday Access









Pending Route Redesign Study



#### **State Street Station Options**



#### **Basic BRT** Dimensions



~50'

Street



**EB-2** Overture

233

O Overture

#### Not Proposed

**EB-2** Overture

8



**EB-2** Overture

8

D

- CE Civer








# Not Proposed

#### EB-1 MMoCA

dia.

#### EB-1 MMoCA



**WB-1** Noodles

Fresh Sauté & Grill

lttleluxuries





Fresh Sauté & Grill

Tree to be evaluated

Itteluxuries

1000





#### **WB-2 Triangle Market**



#### **WB-2 Triangle Market**







Table 2A -- Capital Investment Grant Program Summary of FY 2022 Project Ratings

SMALL STARTS PROJECTS Phase State, City, Project	ed Sn	nall	Starts	s Pro	jects	al Financial ommitment Rating	Project Justification Rating	Overall Project Rating
Small Starts Project Development								
^ AZ Flagstaff, Transit Spine BRT	\$32.9		\$32.9					
CA Los Angeles, Restoration of Historic Streetcar in Downtown Los Angeles	\$282.2	\$14.2	\$296.4	\$100.0	33.7%	Medium-Low	Medium	Medium-Low
CA Monterey Bay, SURF! Highway 1 Busway and BRT	\$55.0		\$55.0	\$40.0	72.7%			
+++ CA Sacramento, Downtown Riverfront Streetcar Project	\$117.0		\$117.0	\$50.0	42.7%	Under Review	Under Review	Under Review
CA San Bernardino, West Valley Connector BRT Project	\$261.5	\$1.2	\$262.7	\$86.8	33.0%	High	Medium	Medium-High
^ FL Orlando, SunRail Connector to the Orlando International Airport	\$175 - \$225		\$175 - \$225					
& FL Tampa, Tampa Streetcar Extension and Modernization	\$234.5		\$234.5	\$99.9	42.6%	Under Review	Under Review	Under Review
IN Indianapolis, IndyGo Blue Line Rapid Transit	\$209.7	\$10.3	\$220.0	\$100.0	45.5%	High	Medium	Medium-High
IN Indianapolis, IndyGo Purple Rapid Transit Line	\$151.7	\$3.3	\$155.0	\$77.5	50.0%	High	Medium	Medium-High
^ LA Baton Rouge, TramLinkBR	\$169.8		\$169.8	\$84.0	49.5%			
MN Rochester, Rochester Rapid Transit	\$114.5	\$0.0	\$114.5	\$56.1	49.0%	Medium-High	Medium	Medium-High
NC Chapel Hill, North-South Bus Rapid Transit	\$141.3	\$0.0	\$141.3	\$100.0	70.7%	Medium	Medium	Medium
NC Raleigh, Wake Bus Rapid Transit: New Bern Avenue Project	\$71.5	\$0.0	\$71.5	\$35.1	49.1%	High	Medium	Medium-High
^ NC Raleigh, Wake Bus Rapid Transit (BRT) - Western Corridor Project	\$180.0		\$180.0					
NY Albany, Washington/Western Bus Rapid Transit	\$81.2	\$0.0	\$81.2	\$60.9	75.0%	Medium	Medium	Medium
NY New York City, Woodhaven Boulevard Select Bus Service	\$258.8	\$0.0	\$258.8	\$97.2	37.5%	High	Medium	Medium-High
OR Portland, MAX Red Line Extension and Reliability Improvements	\$206.0	\$0.0	\$206.0	\$100.0	48.5%	High	Medium	Medium-High
PA Pittsburgh, Downtown-Uptown-Oakland-East End Bus Rapid Transit	\$249.9	\$0.0	\$249.9	\$100.0	40.0%	High	Medium-High	High
TN Memphis, Memphis Innovation Corridor Project	\$87.0	\$1.6	\$88.6	\$43.8	49.4%			
TX Austin, Expo Center Bus Rapid Transit Project	\$35.6	\$0.0	\$35.6	\$17.8	50.0%	High	Medium	Medium-High
TX Austin, Pleasant Valley Bus Rapid Transit Project	\$36.6	\$0.0	\$36.6	\$18.3	50.0%	High	Medium	Medium-High
^ TX Austin, South Lamar Bus Rapid Transit Project	\$26.0		\$26.0					
^ TX Waco, Rapid Transit Corridor	\$18.3 - \$19.4		\$18.3 - \$19.4					
UT Ogden, Ogden/Weber State University BRT	\$99.7	\$0.0	\$99.7	\$64.5	64.7%	Medium	Medium	Medium
^ UT Salt Lake County, Midvalley Connector Project	\$85 - \$105		\$85 - \$105					
^ VA Alexandria, West End Transitway	\$119 - \$140		\$119 - \$140					
WA Everett, Swift Orange Line BRT	\$81.0	\$0.0	\$81.0	\$37.2	45.9%	High	Medium	Medium-High
WA Seattle, Madison Street BRT	\$133.4	\$0.0	\$133.4	\$59.9	44.9%	High	Medium-High	High
WA Seattle, RapidRide I Line	\$117.6	\$0.0	\$117.6	\$55.6	47.3%	High	Medium	Medium-High
^ WA Seattle, RapidRide K Line BRT	\$89.8		\$89.8		47.570	riigii	wiedium	mediam-ringh
WA Seattle, Roosevelt RapidRide Project	\$90.2	\$0.0	\$90.2	\$45.0	49.9%	High	Medium-High	High
WA Seattle, Seattle Center City Connector	\$285.5	\$0.0	\$285.5	\$75.0	26.3%	High	Medium-High	High
WA Tacoma, Pacific Avenue/SR 7 BRT	\$170.0	\$0.0	\$170.0	\$75.2	44.2%	High	Medium	Medium-High
WA Vancouver, C-TRAN Mill Plain BRT	\$49.9	\$0.0	\$49.9	\$24.9	49.9%	High	Medium	Medium-High
WA fallouver, C-TRAW with Flath DRT	047.7	.00.0	049.9	024.7	47.770	riigii	wiedium	Wiedium-ringh

#### **BRT Timeline**

#### Project Development



## Modifications to Respond to Concerns

- Majority of BRT buses electric (low noise, no fume)
- Reduced BRT shelter size 50 to 60 percent
- Located shelters to maximize window visibility
- No streatery or sidewalk vending areas affected
- Stations reduced from 10 to 2\*
- Substantial reduction of buses on upper State St
- Likely NO buses on lower State St\*

\*pending Route Redesign study findings





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