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Arterial Bus Rapid Transit

System Policy Oversight Committee April 7, 2014





- Welcome and Introductions
- A Line Project Status
- Shelter and Pylon Development
- Arterial BRT Branding Update
- Anticipating Future Corridors
- Next Meeting and Next Steps





A LINE PROJECT STATUS UPDATE



A Line Project Progress

- \$10 million for A Line in Governor's proposed bonding bill
- \$1.9 million design contract with Kimley-Horn authorized 1/22/14
 - A Line design
 - Pilot station
 - Prototypical arterial
 BRT shelter & pylon





2014: Pilot Station at 7th & Olson



A Line (Snelling Avenue) BRT Corridor Design & Prototype Station Design **DRAFT 2014 MILESTONE SCHEDULE** 2014 S F Μ Μ Α Ν D J Α 0 **Design Input** Inventory, Survey, Site Investigation **PILOT STATION (7th & Olson, Minneapolis)** 50% design 90% design & final bid documents Bidding, award & construction **PROTOTYPICAL BRT SHELTER** Design input & concepts 50% design & Bid documents Bidding & award to manufacturer Shelter fabrication & installation at pilot site A LINE 30-50% design 90% design Final bid documents Review & major public outreach period

Current Activities

Ongoing: Project Outreach



July 2013, January 2014: Open Houses





January: 25 Business Owner Meetings

NEXT STEP: PRELIMINARY DESIGN OUTREACH

May 2014: Broad Outreach & Open Houses



- Limited stop service with better frequency
- Pre-boarding fare payment & faster all-door boarding
- Transit signal priority
- Transit stations at high ridership locations with station amenities
- Distinct, identifiable brand



BRT would become the primary route in the corridor, with increased service on evenings & weekends.
Stations would be sited about every 1/2 mile, compared to local stops every 1/8 mile
Local bus would continue to run serve local trips and off-corridor branches.





Pre-Boarding Fare Payment

& Faster All-Door Boarding

For speedier boarding through all doors of the bus, BRT vehicles won't have on-board fareboxes.
Customers will either purchase a ticket at the station or tap a Go-To card to pay fares.

Each station will have a ticket machine, where customers can buy tickets with cash or credit.



Customers with Go-To cards or passes can tap their card before boarding through any door.





Metro Transit police—not drivers will ensure customers have paid.



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Transit Signal Priority (TSP)

During rush hours today, local buses spend about 25% of their scheduled time stopped at red lights.

With transit signal priority buses can "ask" traffic signals for early or extended green lights to help buses keep moving.

As a BRT vehicle approaches an intersection, it will send a green request to the traffic signal, which chooses whether or not to lengthen a green light for BRT.



Station Amenities





Stations



Waste bins



Ticket machines



Bike parking



Real-Time Info



Lighting



Snow removal



Maps & info



Security cameras



Radiant heat



Emergency phone

Stations will be equipped with more amenities for a safe and comfortable customer experience, similar to light rail.



- Establishes standard design components, features and materials
- Provides a consistent, high-level customer experience at stations across the Arterial BRT service network
- Building blocks to create the shelters/stations of different sizes
- Interchangeable parts for effective and efficient maintenance
- Scalable approach from dozens to hundreds of stations
- Utilized across the country









Example of Approach at "Medium" Station





Example of Approach at "Small" Station





- Creating "station" level improvements
 - Sizing of station shelter based on ridership demand
 - Place what is needed to meet the Arterial BRT service network in the context of station location

 Coordination with local business owners and stakeholders



Creating Functional Spaces







Bumpout Curb Locations



Within-Curb Locations



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Example of Within-Curb/Bumpout Location



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Example of Within-Curb/Bumpout Location



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INTEGRATION WITH COORDINATED INITIATIVES



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	Project	Lead
A	Minnehaha Avenue Reconstruction Minnehaha/46th intersection	Hennepin County
В	Highland Village Streetscape Mississippi River Boulevard to Howell	Saint Paul
С	Ford Parkway Reconstruction Howell to Snelling	Ramsey County
D	Snelling Mill & Overlay + Additional Improvements Selby to Pierce Butler	MnDOT/ City of Saint Paul
E	I-94 Bridge Redeck Snelling/I-94 interchange	MnDOT
F	ADA Improvements To be Determined	MnDOT





STANDARD BRT SHELTER & PYLON DEVELOPMENT

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Current Standard Bus Shelter



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12 corridors, 400+ stations



Initial Concept: Incorporating the Elements



Considering Identities





10 Sketch Concepts

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10 Sketch Concepts

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Station & Pylon Design Concepts



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Station & Pylon Design Concepts

- 1,100 survey responses collected through social media
- Strong preference for two concepts
- Validation of BRT features: heat, substantial stations, security features, off-board fare payment





Preferred Concept & Input to Future Design





ARTERIAL BRT BRANDING UPDATE



System name/ descriptor

Build on strong Metro Transit brand awareness and reaction

Elevated Customer Expectations For Faster, Better Service Line identifiers to signal different experience & differentiate from local bus

Iconic, recognizable shelters & station markers deployed across multiple lines

Distinctive BRT vehicles





ANTICIPATING FUTURE LINES



Customer demand & access

- Station spacing and location of stations
- Service mix: Frequency of local & BRT service
- Potential for local route branching to provide coverage
- Kit of parts at individual stations



Tailoring Arterial BRT to Future Lines

Roadway integration

- Station placement (bumpout / curbside fit)
- Street interaction
- Bike facility interaction
- Transit signal priority







B Line (West 7th Street)

- 2014: Pursue complete funding package; Advance station planning & conceptual design with stakeholder outreach
- Late 2014: Complete conceptual design; obtain environmental clearance
- Early 2015: Purchase vehicles; deadline for obligating funding
- 2016: Construction
- Late 2016: Open



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C Line (Penn Avenue)

- 2014-15: Early planning and community engagement with Hennepin County-led
 Penn Avenue Community Works process
- Results of this work will inform design phase when project advances



Planned system buildout

	201	.2	2013	2014		2015			2016		2017		2018		
A Line Snelling		Advai	nced Planning	Cor De	ncept esign	Fina Desig	l Co m uc	nstr- tion	OPEN						
B Line West 7th					Adva Plan	nced ning	Conce Desi	ept d gn D	Final)esigr	Constr uction	OPEN				
C Line Penn				Ao Peni	dvance n Aven	d Planı ue Con	ning th nmunit	rough y Work	S	Concept Design	Fina Desig	l Constr- n uction	OPEN		
D Line										Advance Plannin	ed Ig	Concept Design	Final Desigi	Constr- uction	OPEN
E Line												Advanced Planning		Concept Design	Fina Desi
F Line														Advanced Planning	
G Line															
H Line															

Future Lines





ROUNDTABLE



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More information: *metrotransit.org/snelling-brt metrotransit.org/arterial-study*

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