



# Public Meeting Choices Report

Virtual | March 3rd | 6:00 – 7:30 PM





**J A R R E T T W A L K E R** + associates



# Agenda

- 1. Welcome from Mayor Rhodes-Conway
- 2. Zoom Meeting Protocols
- 3. Introductions
- 4. Choices Report Presentation Daniel Costantino, Jarrett Walker + Associates
- 5. Discussion
- 6. Engaging the Community -- Marcus Pearson, Urban Assets

# **Zoom Meeting Protocols**

- Turn your video off to save bandwidth.
- Remain on Mute during the presentation.
- To ask a questions during the presentation, use the Chat function.
- To ask a question after the presentation, click Participants and select Raise Hand.
- Please introduce yourself before speaking.
- Once your question is addressed, lower your hand.
- If you called into the meeting, use \*9 to raise and lower your hand.

Questions during the meeting or technical difficulties, please email quinn@urbanassetsconsulting.com

# Introductions | City Staff

Tom Lynch, Director, Department of Transportation Justin Stuehrenberg, General Manager, Metro Transit **Reuben Sanon, Deputy Mayor** Mike Cechvala, Department of Transportation Tim Sobota, Metro Transit Drew Beck, Metro Transit

Ben Lyman, Metropolitan Planning Organization

# Introductions | Consultant Team

Daniel Costantino – Jarrett Walker + Associates Chris Yuen – Jarrett Walker + Associates Melissa Huggins – Urban Assets Marcus Pearson – Urban Assets Quinn Heneghan – Urban Assets



### Metro Transit Network Redesign

#### **Choices Report**



Jarrett Walker Daniel Costantino

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#### Who Are We? Why Are We here?

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Let's think about transit

We foster clear conversations about transit, leading to confident decisions. Completed redesigns that are better serving local goals



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### HUMAN TRANSIT

How Clearer Thinking about Public Transit Can Enrich Our Communities and Our Lives

Jarrett Walker

You are the experts on your communities and their goals.

We're the experts on network redesign studies.

So let's fuse those two kinds of expertise!

# Flow

#### Phase I - Winter/Spring Existing Conditions and Key Choices

- Choices Report (March 2021)
- Survey
- Public Meeting
- Focus Groups
- Interviews
- Stakeholder Workshop

#### Phase II – Summer/Fall Develop Network Alternatives

- Alternatives Report (August 2021)
- Survey
- Public Meeting
- Focus Groups
- Tabling at Events
- Stakeholder Workshop

#### Phase III - Fall/Winter 2022 Develop Draft Network Plan

- Draft Network Plan (January 2022)
- Survey
- Public Meeting
- Focus Groups
- Tabling at Events
- Stakeholder Workshop

Demographics, Ridership, Covid Impact

### Some Key Things we Know

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The wall around your life.

### Who has access to what?

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When we measure access, we measure



- People's ability to go places so they can do things.
  - Economic benefit
  - Civil rights / racial justice imperative
  - Freedom!
- Describes how network design affects ridership.
  - Sustainability benefits.
  - Revenue

#### Where could I be in 45 min?



#### Low Access - North Side

How far can I travel in 45 minutes from This map shows the areas of Madison you could reach in 45 minutes on average if Northside Town Center starting the trip between 12:00pm and 1:00pm using the October 2020 Madison Metro transit network. Jobs reachable 18,400 2 3 mi Residents reachable 41,100 18,400 jobs

reachable in 45 min.

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## **Trip Example: Retail Worker**



FromRaymond Road & Whitney WayToWest Towne Mall

**Distance: about 3 miles** 

Drive Time: 10-15 minutes Walk Time: 1 hour

### **Calculating Travel Times**

Walking to and from a stop

• Waiting for the next bus (3 minutes)



• Riding to your destination



• Waiting for the start of your activity

#### Example 1: Arrive by 10 AM on a Weekday Option 1



Start trip at home near Raymond Rd. and Whitney Way at 9:31am

Walk 2 minutes to a stop on Raymond Rd.

Wait 3 minutes for Route 50.

Ride Route 50 for 7 minutes to Gammon Rd. & Watts Rd.

Walk 12 minutes and arrive at West Towne Mall at 9:55am

Wait 5 minutes for start of work at 10:00am.

**Total Time: 29 Minutes** 

- ★ 13 minutes walking
- C 8 minutes waiting
- J minutes riding

#### **Example 1: Arrive by 10 AM on a Weekday** Option 2



**Start** trip at home near Raymond and Whitney at **9:13am** Walk 2 minutes to a stop on Raymond Rd. Wait 3 minutes for Route 52. **Ride Route 52 for 8 minutes** to West Transfer Point. Wait 4 minutes for Route 67. Ride Route 67 for 15 minutes to West Towne Mall. Walk 1 minute to get to the front entrance at 9:45am. Wait 15 minutes for the start of work at 10:00am.

**Total Time: 47 Minutes** 

3 minutes walking
22 minutes waiting
22 minutes riding

#### Example 2: Arrive by 10 AM on a Saturday Option 1



Start trip at home near Raymond Rd. and Whitney Way at 9:01am Walk 2 minutes to a stop on Raymond Rd. Wait 3 minutes for Route 50. Ride Route 50 for 7 minutes to Gammon Rd. & Watts Rd. Walk 12 minutes and arrive at West Towne Mall at 9:25am Wait 35 minutes for start of work at 10:00am.

#### **Total Time: 59 Minutes**

14 minutes walking
38 minutes waiting
7 minutes riding

#### **Example 2: Arrive by 10 AM on a Saturday** Option 2



**Start** trip at home near Raymond and Whitney at **9:13am** Walk 2 minutes to a stop on Raymond Rd. Wait 3 minutes for Route 59. **Ride Route 59 for 7 minutes** to West Transfer Point. Wait 6 minutes for Route 63. Ride Route 63 for 7 minutes to West Towne Mall. Walk 1 minute to get to the front entrance at 9:39am. Wait 21 minutes for the start of work at 10:00am.

**Total Time: 47 Minutes** 

🛠 3 minutes walking

- C 30 minutes waiting
- 📕 14 minutes riding





# Where is transit adding to access

...

... beyond where people could just walk?


# Access and job density

Employment areas with poor access.





### Access and where people live.

- Not a bad fit.
- Isolated patches of freewayoriented density are expensive to serve.



# Access and low income.

- Isolated low income density is very hard to serve.
- But this also tends to be where the need for public services (including transit) is highest.



# Access and race.

 Isolated dense lowincome areas are disproportionately areas where people of color live.



### How transit expands access.

The most efficient access-expanding service is

- Frequent
- Reasonably fast and reliable.
- Available when you need it (span of service)

... focused where there are many people and activities that can benefit.

Why Frequency Matters

Speed and reliability matter, but frequency is often the most neglected element.

Frequency is a "cubed" benefit:

- Go when you want to go.
- Make connections easily, to get to more places.
- Less risk of being stranded by a disruption.

### But frequency is hard to visualize.



Imagine a gate at the end of your driveway that only opens once an hour!

### A mostly 30 min network ...



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### **Overlap through isthmus**



- Routes inevitably overlap as forced to converge.
- Can this service be organized to offer higher frequency?
- Also depends on timing of transfer points.

### But ...

• To get the best average access and aim for the highest possible ridership, you focus frequent service where the highest possible number of people can use it.

### Density

## **DENSITY** How many people, jobs, and activities are near each potential transit stop?

managementation and a set of transit.

### Walkability

Is it possible to walk between the stop and the WALKABILITY activities around it?









It must also be safe to cross the street at a stop. You usually need the stops on both sides for two-way

Downtown Madison, West of Capitol Square High Density; High Walkability



Watts Road at High Point Road, West Madison High Density; Low Walkability



### Linearity

**LINEARITY** Can transit run in reasonably straight lines?



Madison Isthmus - Very Linear



Imagery ©2021 Google, Imagery ©2021, Maxar Technologies, USDA Farm Service Agency

#### UW Health East Campus - Not Linear



Imagery @2021 Google, Imagery @2021 , Maxar Technologies, USDA Farm Service Agency



#### Most of the <u>dense</u> places outside central Madison are not <u>walkable</u> or <u>linear</u>.

That makes them expensive to serve in a way that provides decent levels of access.





### To review

- High-ridership service would run high frequency, offering good access, in places that are dense, walkable, and linear.
- That will include most but not all of the
  - Population
  - Jobs
  - People in poverty
  - People of color.
- If you want service to places that are not dense, walkable, and linear, that wouldn't be high-ridership service. It would be **coverage service**.

The ridership-coverage tradeoff

### What is transit trying to do?

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### Different Goals, Different Service



Imagine you had 18 buses to serve this fictional town.

Dots are the locations of residents and jobs.

### **Ridership Goal**



#### The Ridership Goal

Maximum access for the greatest possible number of people

#### But:

- not available for everyone
- not necessarily available to all the people who need it most.

### **Coverage Goal**



#### The Coverage Goal

*Some* service near everyone, a baseline level of access everywhere.

But it's unlikely to be useful for many people and trips.

### Why both goals matter



**Ridership Goal** 

- Maximum <u>average</u> access to opportunity.
- Lowest subsidy per passenger.
- Support dense and walkable development.
- Emissions reduction.
- Reduction in vehicle miles traveled.



**Coverage Goal** 

- Some service near <u>every</u> home and job.
- Baseline level of access available everywhere.
- Service to every member city or electoral district.

### Where is equity or justice?



**Ridership Goal** 

- <u>Good</u> access for <u>most</u> people.
- BUT no service for <u>some</u>.



**Coverage Goal** 

• <u>Minimal, poor</u> access for <u>everyone</u>.

• No service to areas that are not dense, walkable, linear.

### This tradeoff is unavoidable.







But you CAN choose a deliberate balance point on the spectrum between these goals. ("Devote \_\_\_\_% of our resources to the ridership goal and \_\_\_\_% to the coverage goal.")

# Contrasting network concepts: example

**Higher Ridership** 



**Higher Coverage** 



Example from Eugene, Oregon

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### How much service is enough?

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### Service Quantity: US Peers



Transit Investment Revenue hours per capita



### Service Quantity: Canada Peers



#### Transit Investment Revenue hours per capita



#### Transit Relevance Boardings per capita

# Engaging the Community Next Steps

# **Community Engagement Timeline**



# **Community Survey**

- Released This Week
- English and Spanish
- Open Through May



 Dissemination Through Business, Community, and Neighborhood Organizations



# **Focus Groups and Interviews**

- Middle & High School Students
- College Students
- Seniors
- Businesses
- Service Industry Employees
- BIPOC
- People Living with Disabilities
- Transportation Organizations and Advocates



# **Keep in Touch**

- 1. Project Website & Email
  - <u>www.mymetrobus.com/redesign</u>
  - <u>metroredesign@cityofmadison.com</u>
- 2. Social Media
  - City of Madison
  - Metro
  - Urban Assets Community Engagement Ambassadors



- www.mymetrobus.com/redesign
- @cityofmadison
- @mymetrobus

# **Thank You!**

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