

Network Redesign



Public Meeting

Choices Report

Virtual | March 3rd | 6:00 – 7:30 PM









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



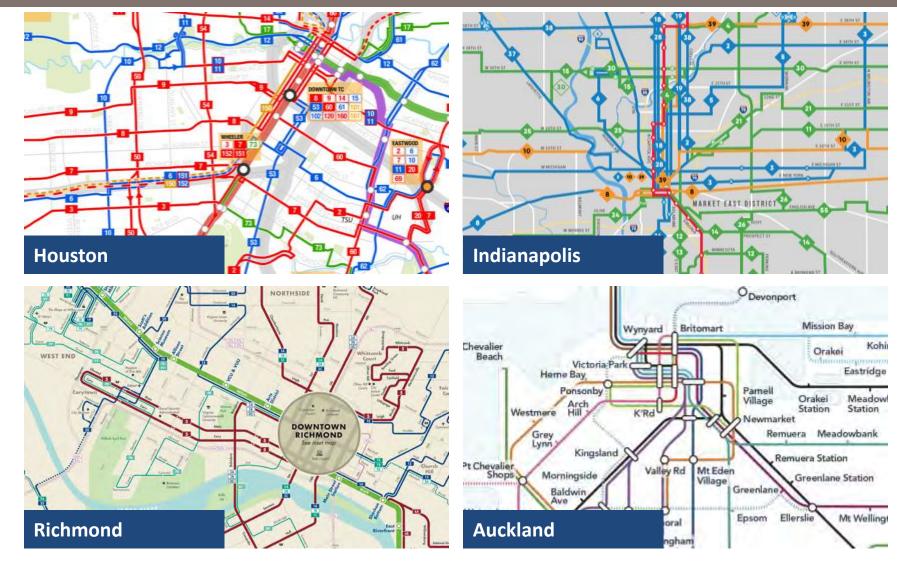
Jarrett Walker
Daniel Costantino

Who Are We? Why Are We here?



We foster clear conversations about transit, leading to confident decisions.

Completed redesigns that are better serving local goals





HUMAN

How Clearer Thinking

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 (Marc

- 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

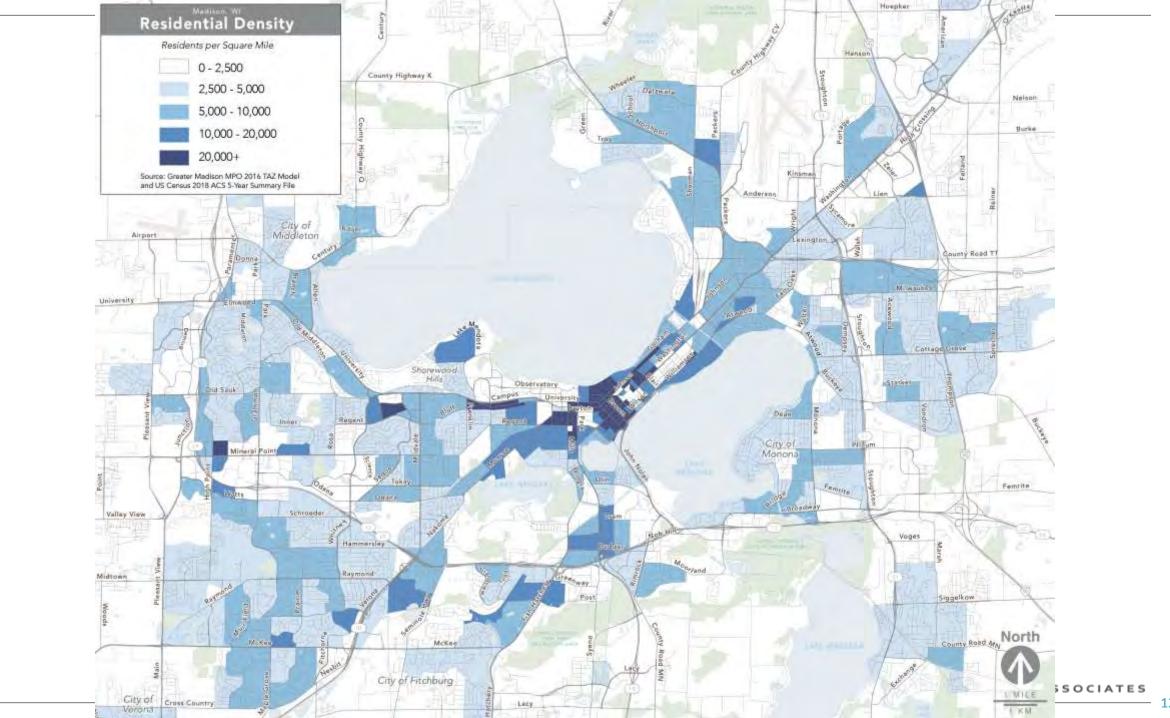
Phase III - Fall/Winter 2022

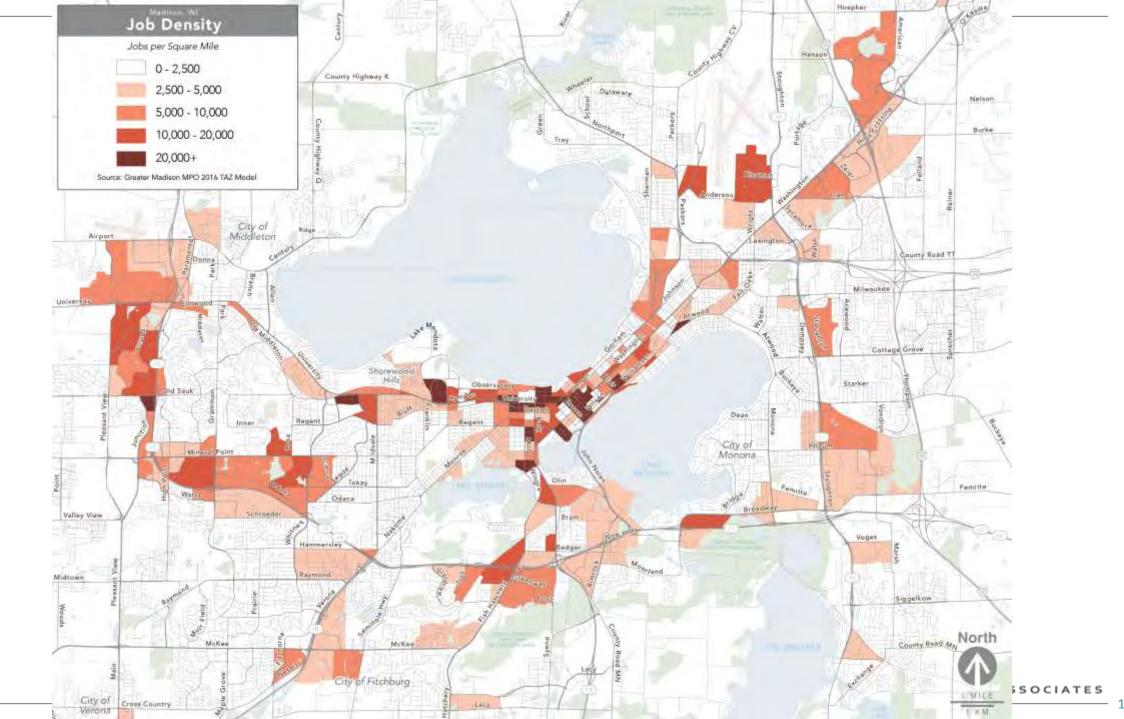
Develop Draft Network Plan

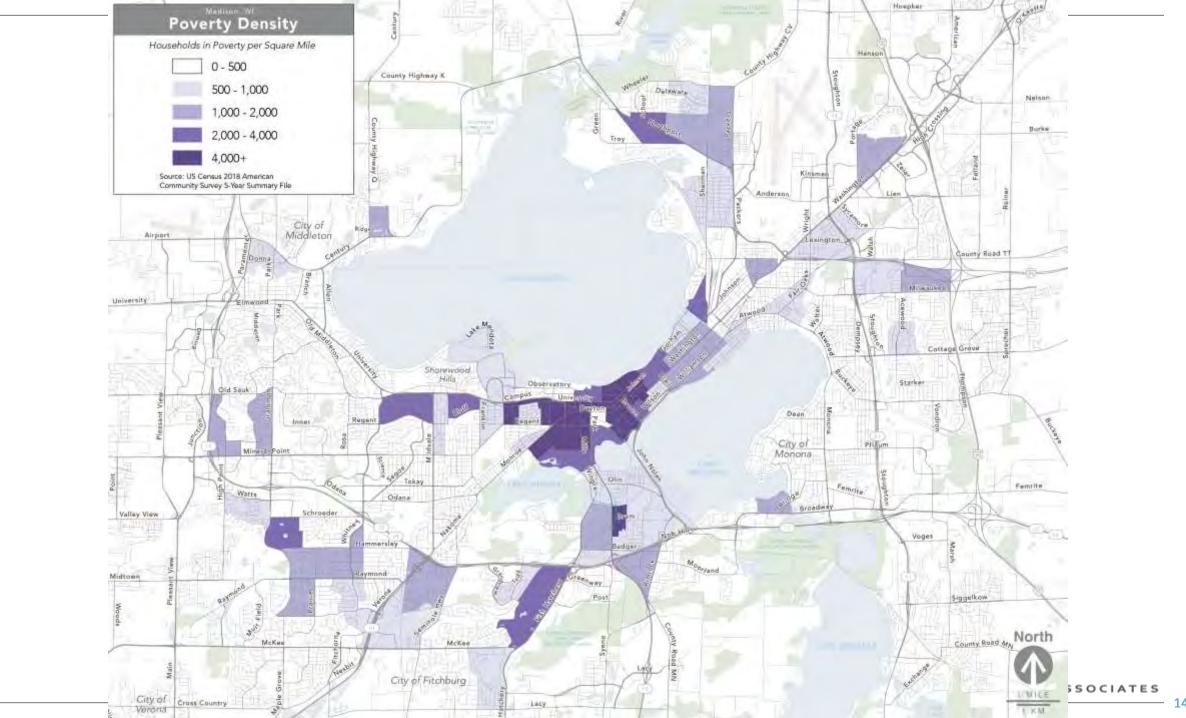
- Draft Network Plan (January 2022)
- Survey
- Public Meeting
- Focus Groups
- Tabling at Events
- Stakeholder Workshop

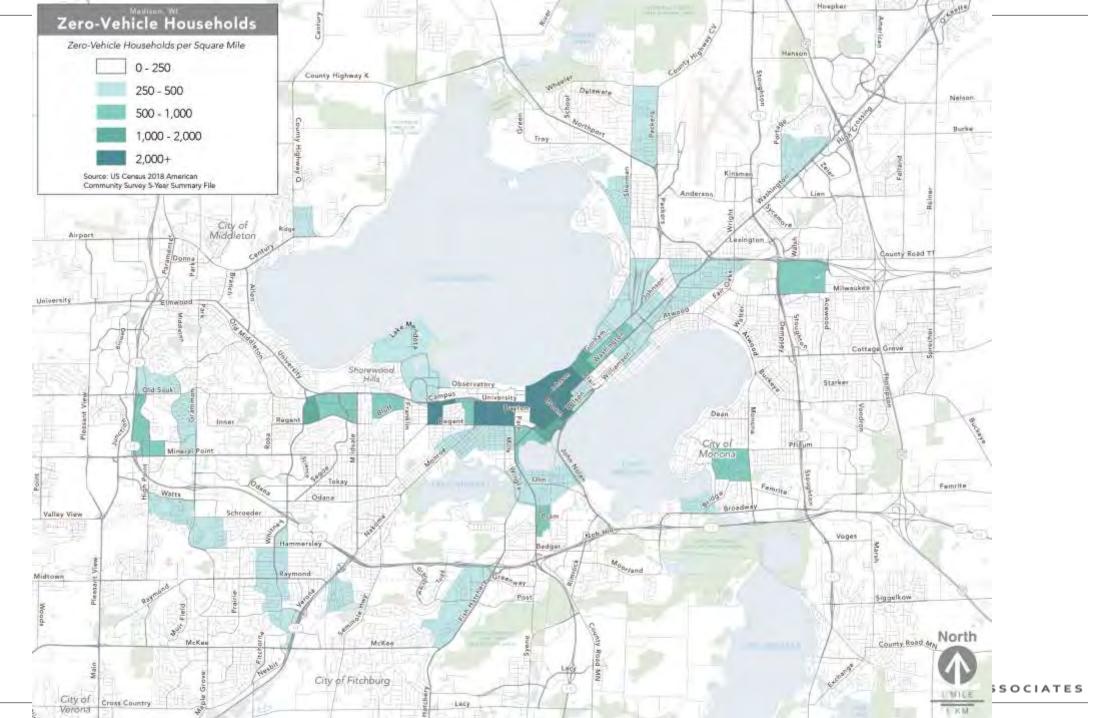
Demographics, Ridership, Covid Impact

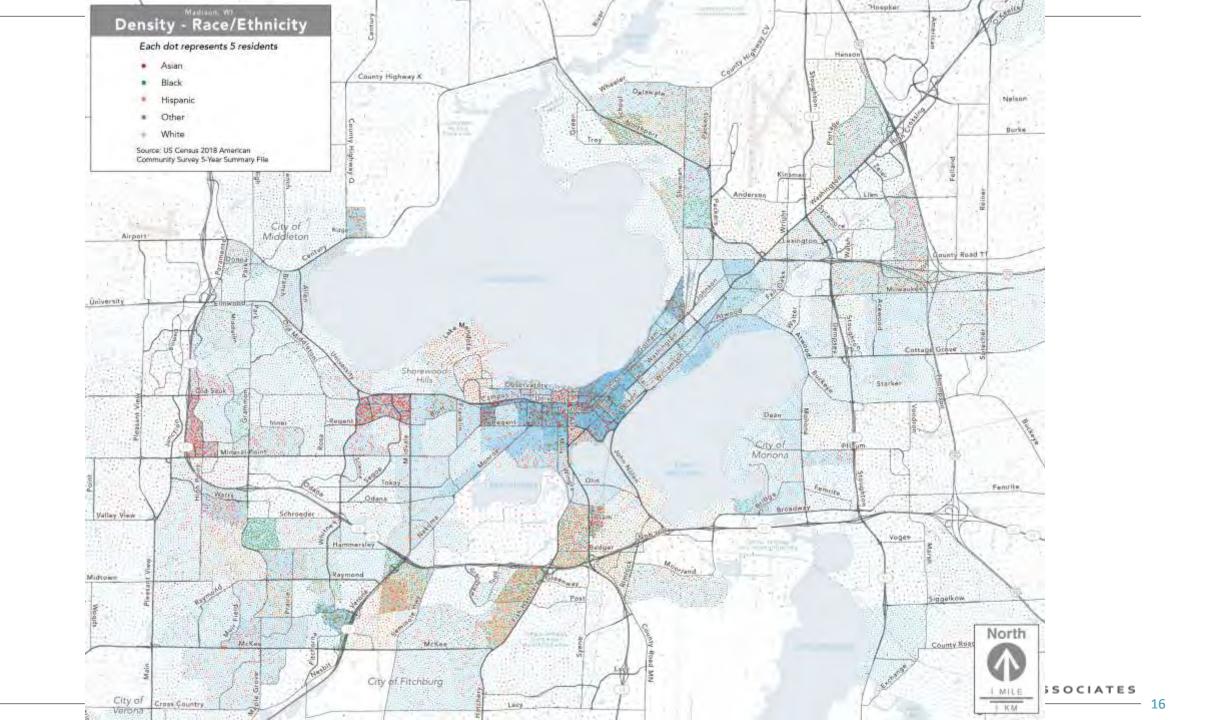
Some Key Things we Know

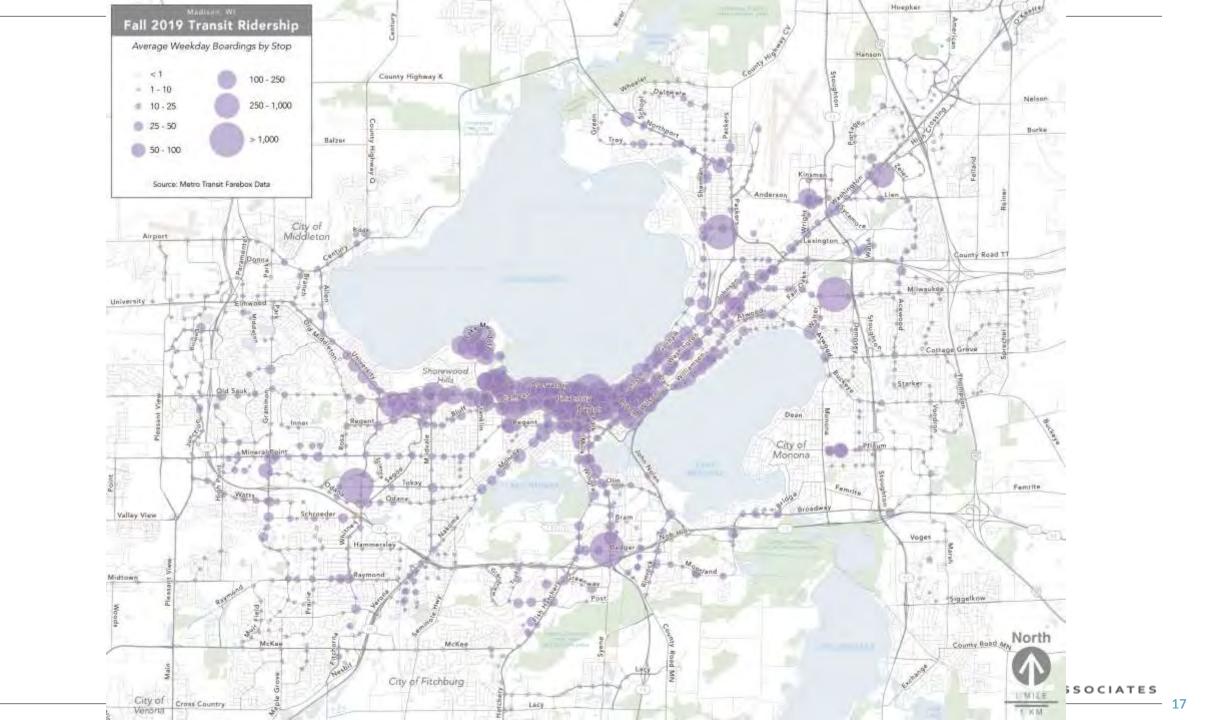


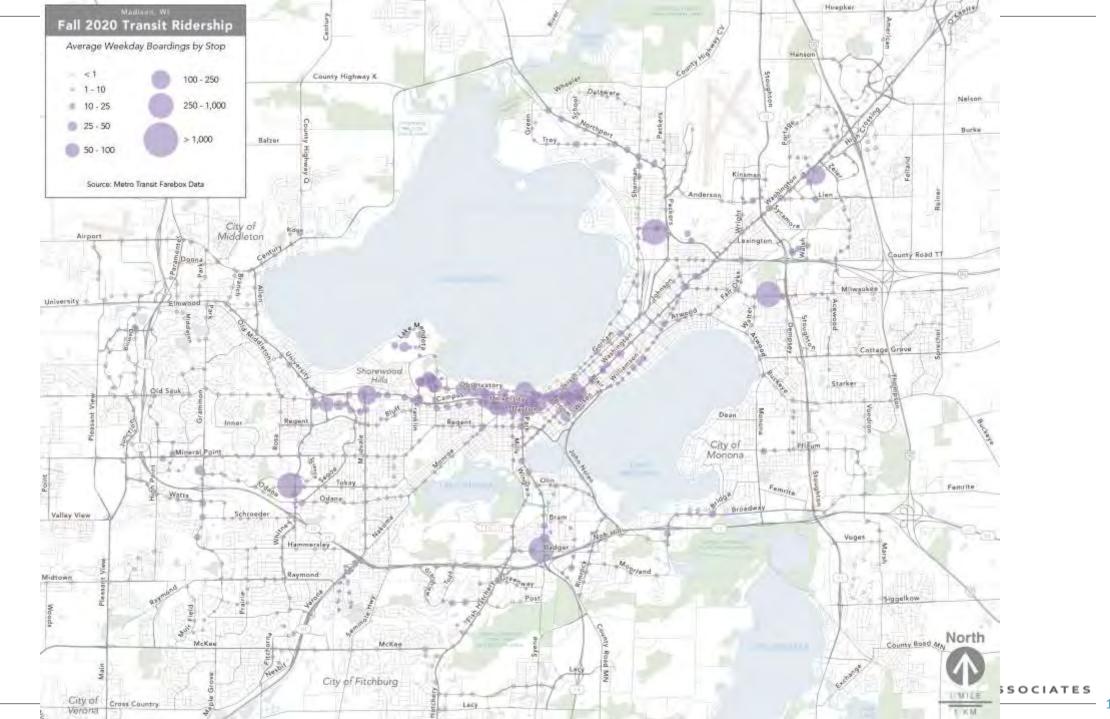


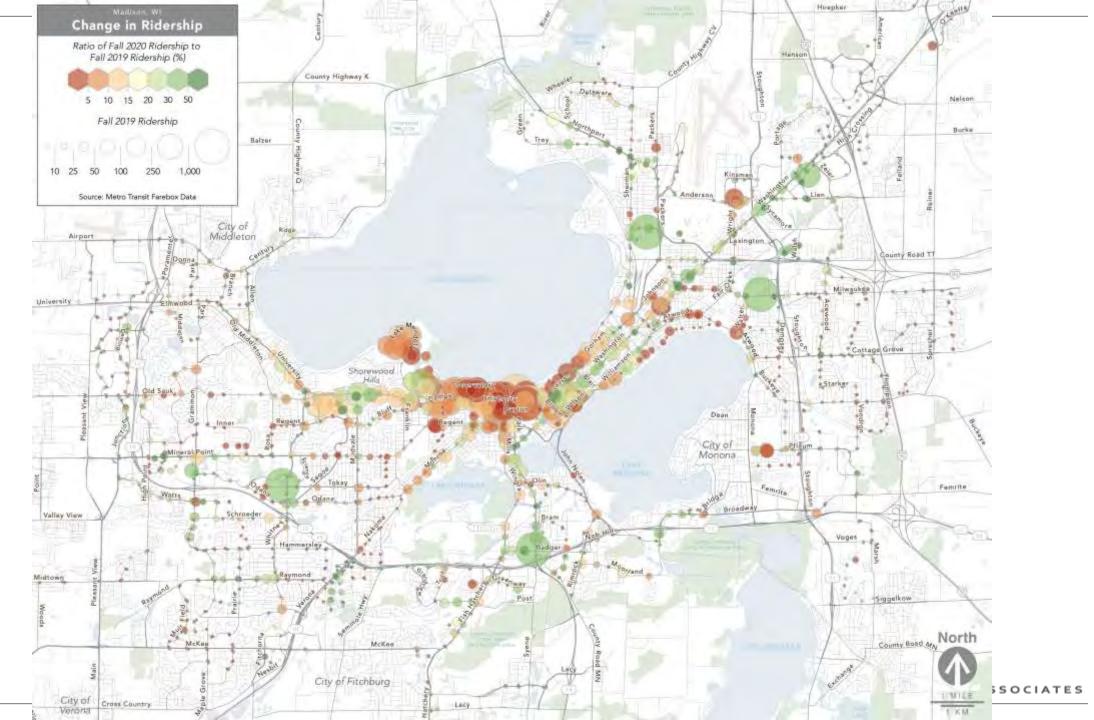


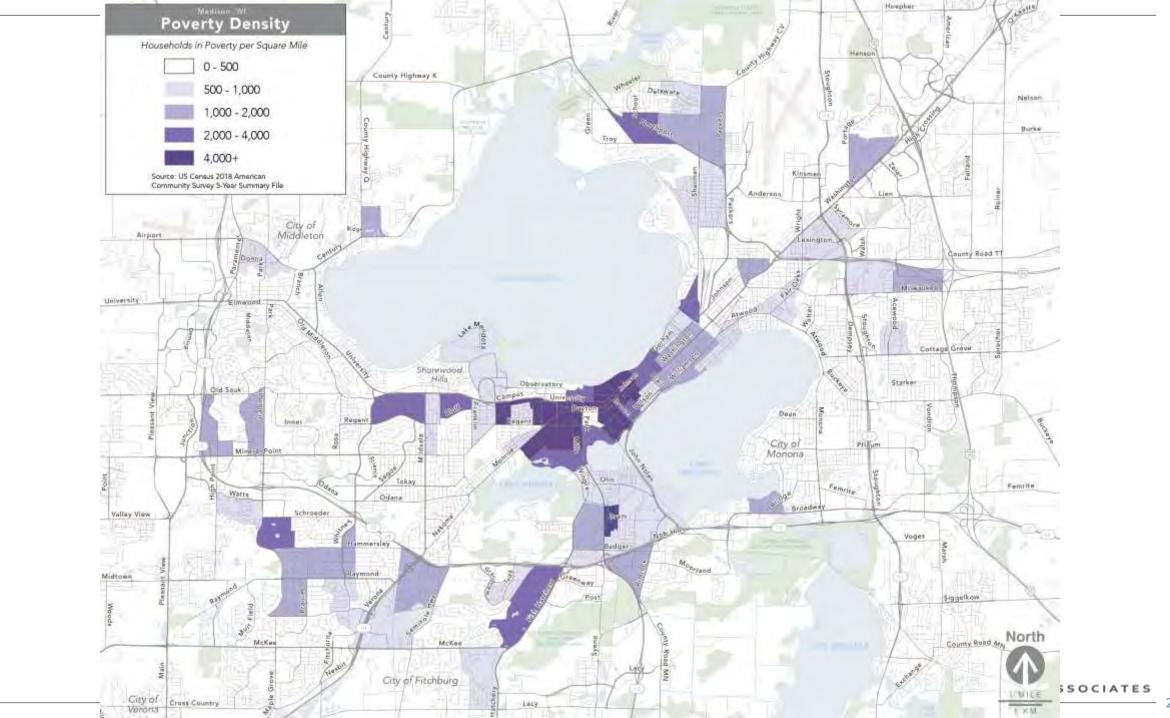






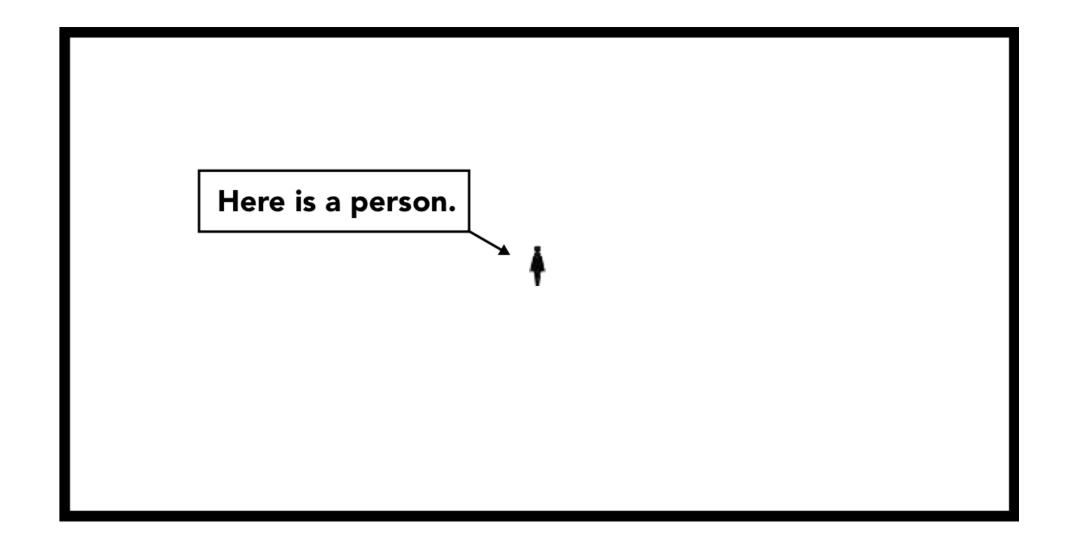


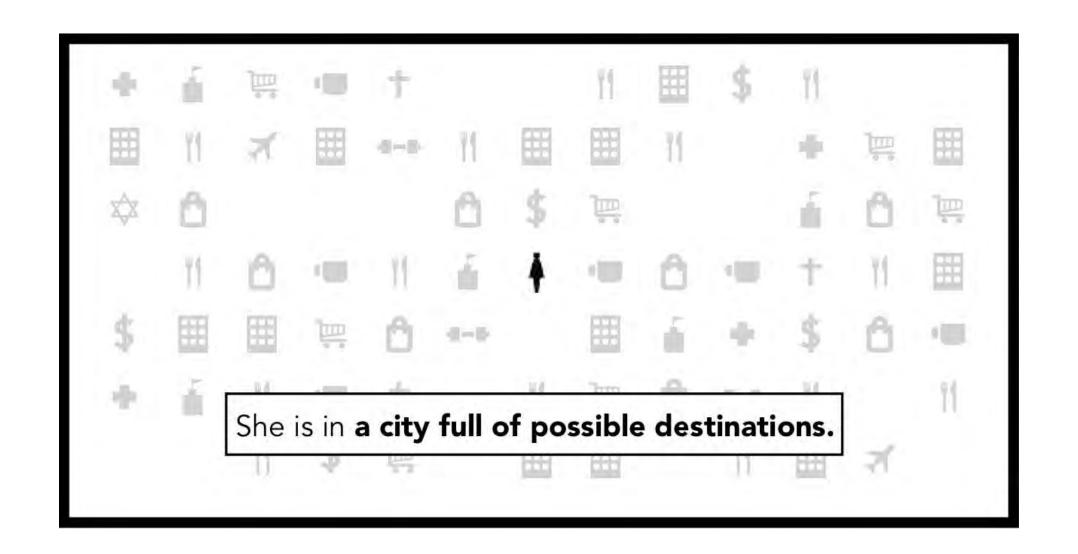


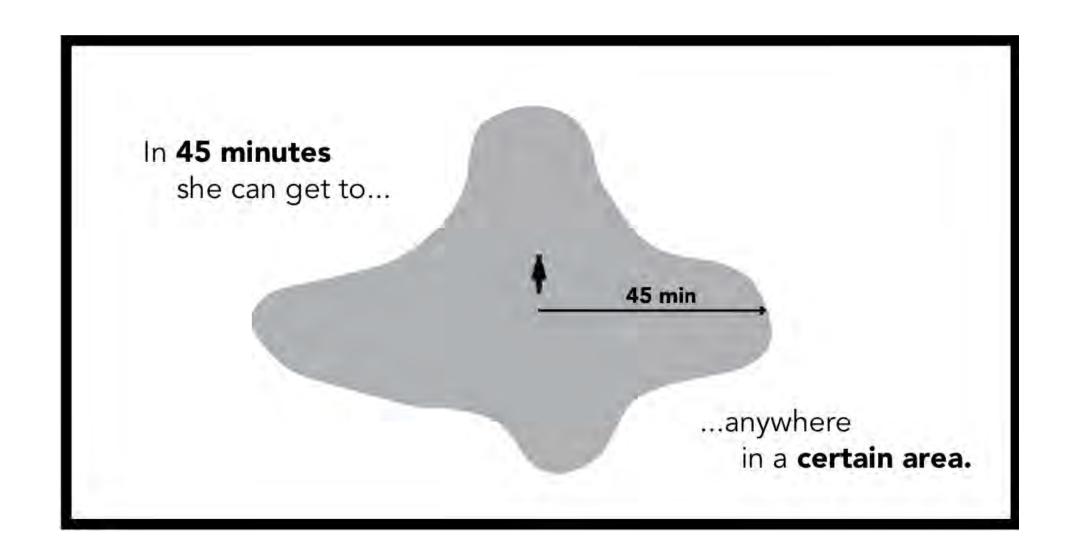


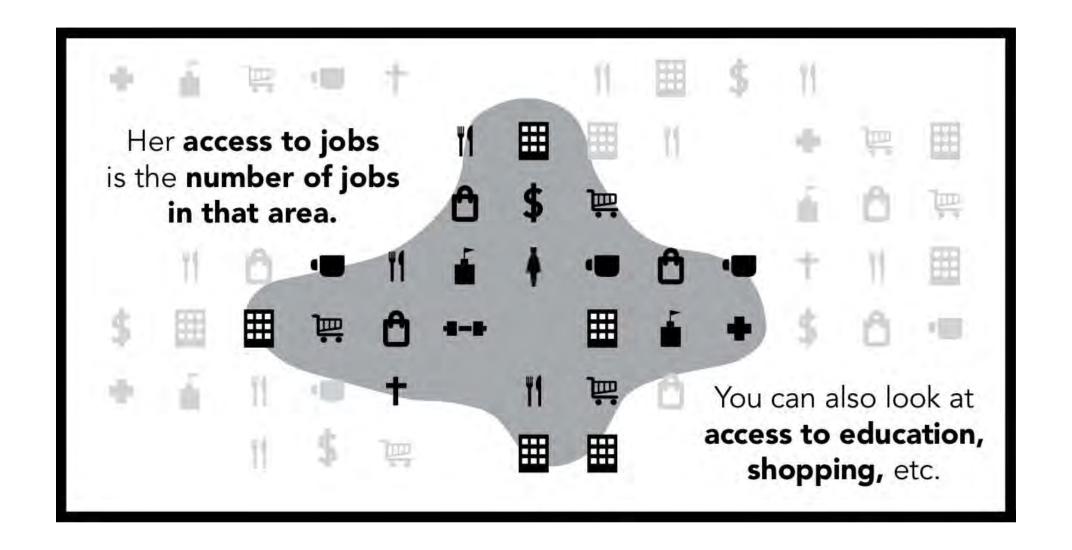
The wall around your life.

Who has access to what?

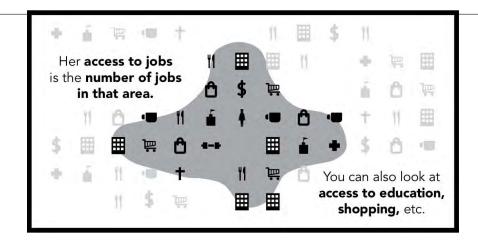








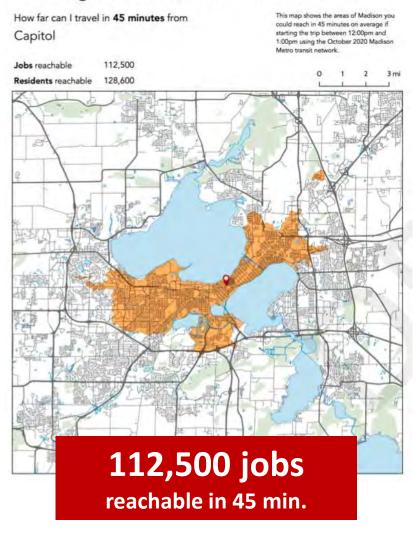
When we measure access, we measure



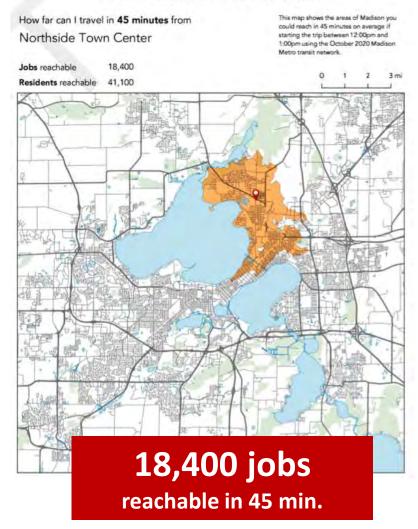
- People's ability to go places so they can do things.
 - Economic benefit
 - Civil rights / racial justice imperative
 - Freedom!
- Describes how network design affects ridership.
 - Sustainability benefits.
 - Revenue

Where could I be in 45 min?

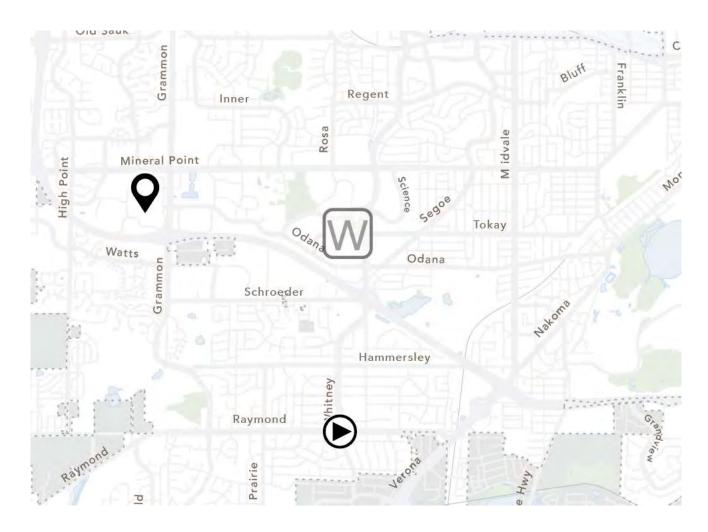
High Access - Downtown Madison



Low Access - North Side



Trip Example: Retail Worker



From Raymond Road & Whitney Way
To West 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.

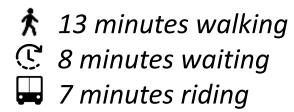
Wait 3 minutes for Route 50.

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



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.

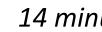
Wait 3 minutes for Route 50.

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



C 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



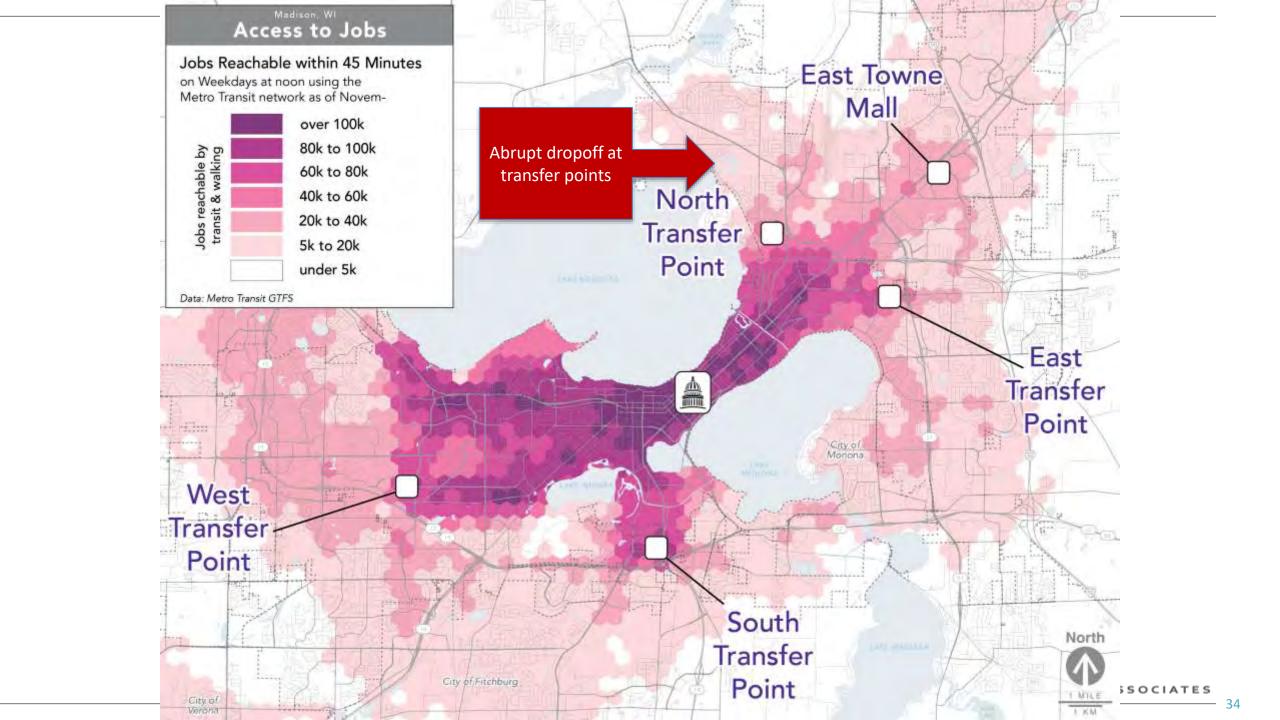
3 minutes walking

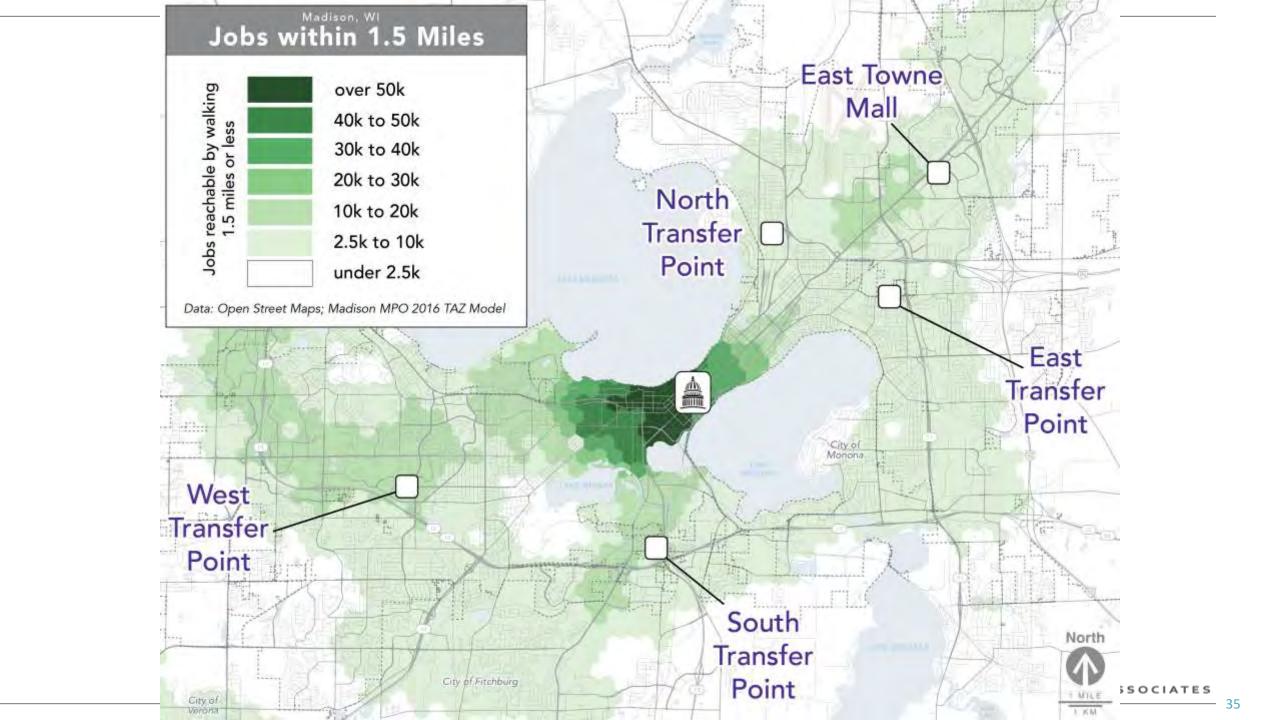


© 30 minutes waiting



14 minutes riding

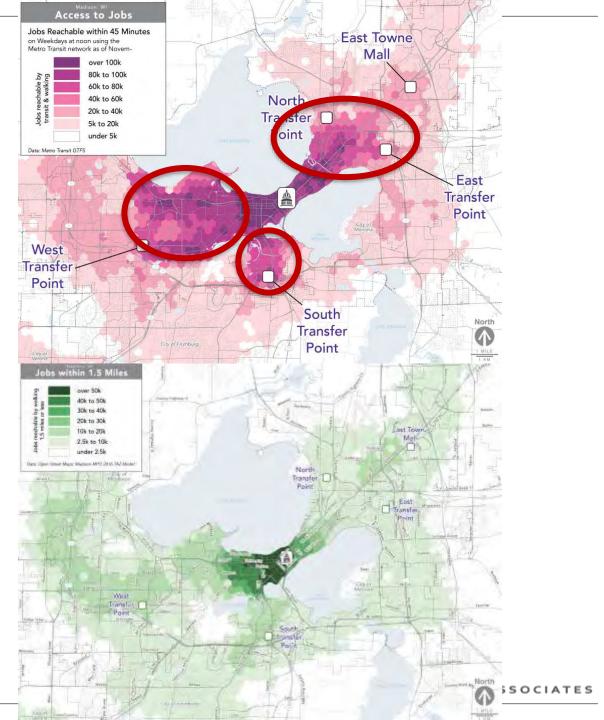




Where is transit adding to access

• • •

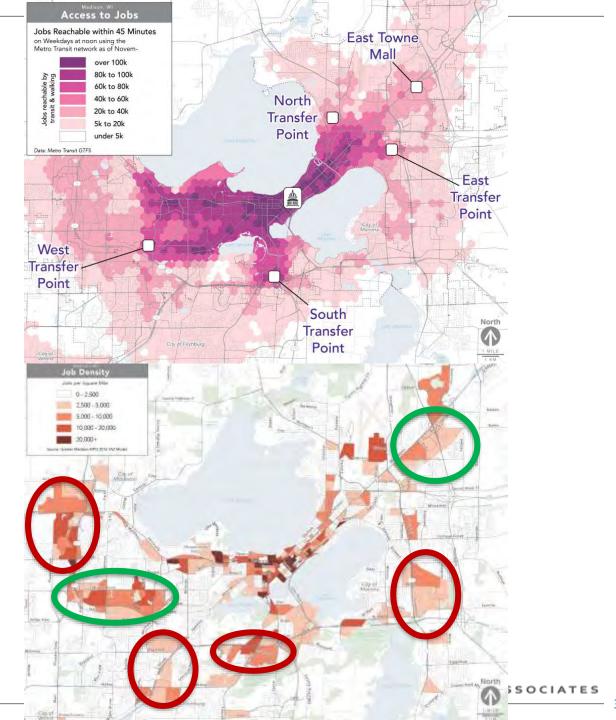
... beyond where people could just walk?



Access and job density

Employment areas with poor access.

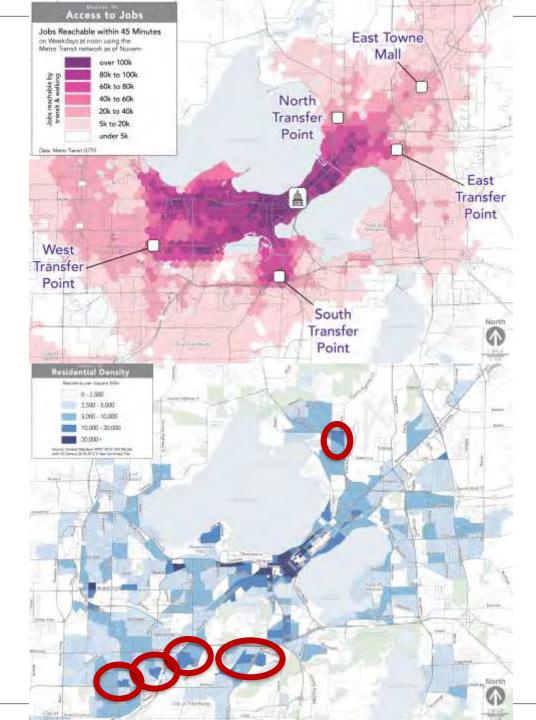
BRT Phase 1 will help with the ones circled in green.



Access and where people live.

Not a bad fit.

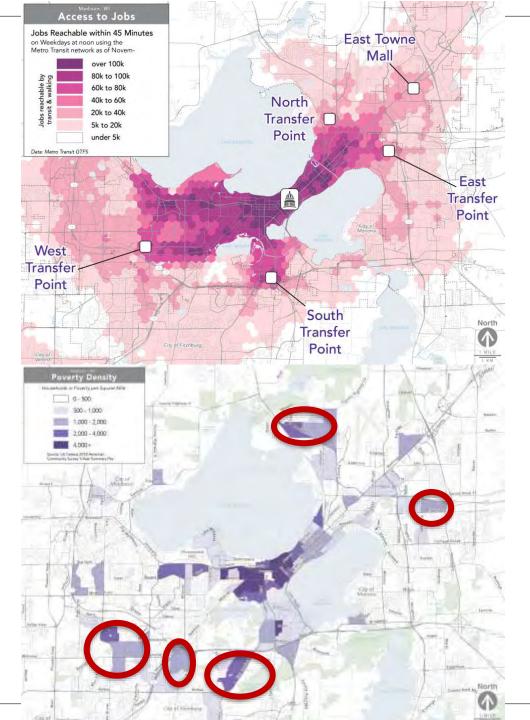
 Isolated patches of freewayoriented density are expensive to serve.



Access and low income.

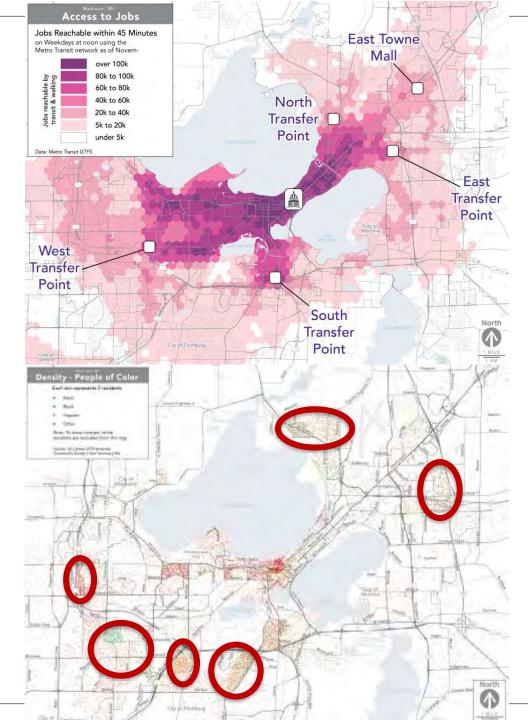
 Isolated low income density is very hard to serve.

 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:

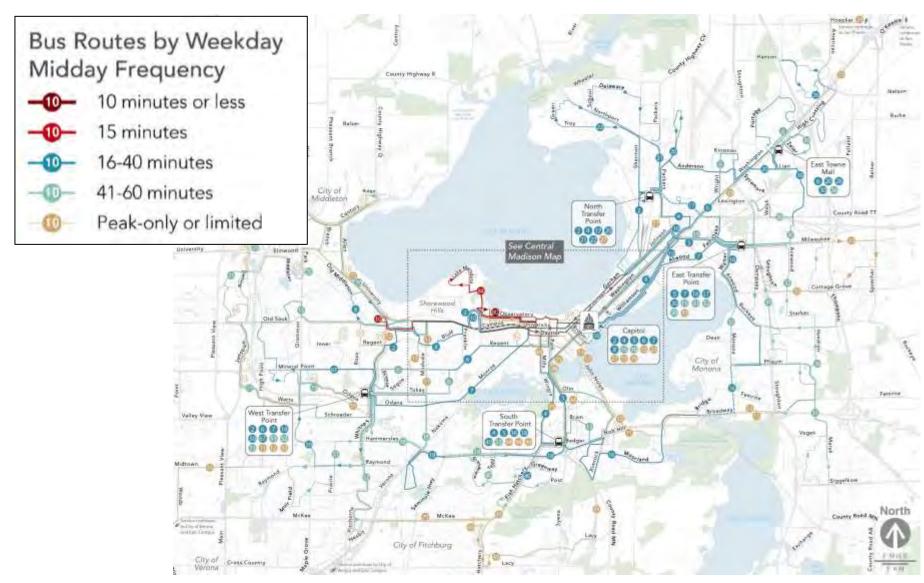
- Go when you want to go.
- Make connections easily, to get to more places.
- Less risk of being stranded by a disruption.

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 ...



Overlap through isthmus



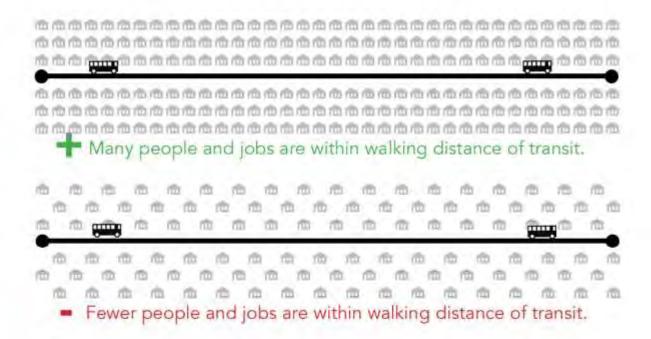
- Routes inevitably overlap as forced to converge.
- Can this service be organized to offer higher frequency?
- Also depends on timing of transfer points.

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

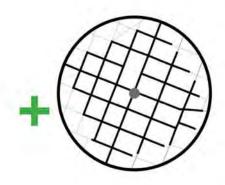
DENSITY How many people, jobs, and activities are near each potential transit stop?

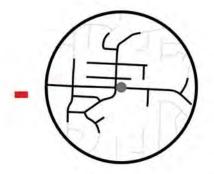


Walkability

WALKABILITY

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







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

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

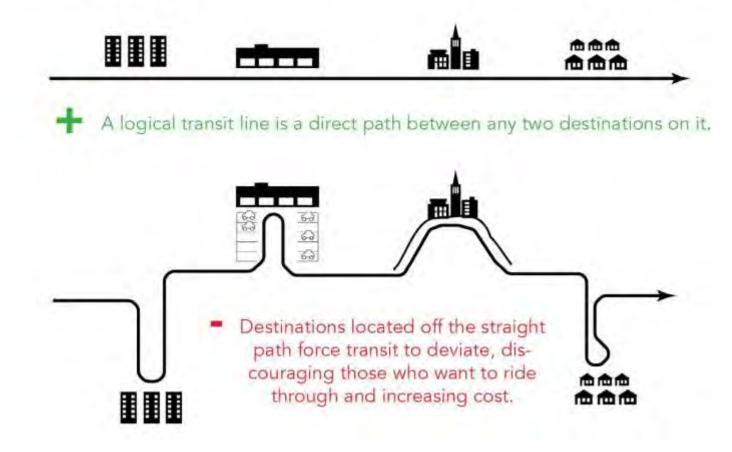


Watts Road at High Point Road, West Madison High Density; Low Walkability



Linearity

LINEARITY Can transit run in reasonably straight lines?



Madison Isthmus - Very Linear



UW Health East Campus - Not Linear

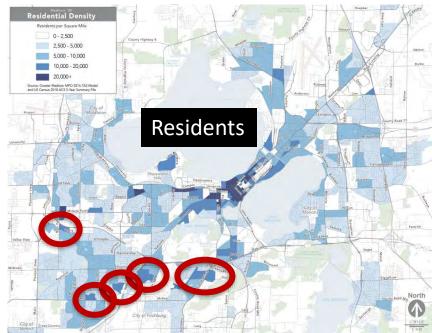


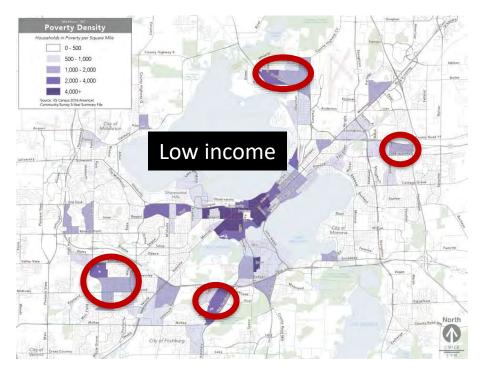
Figure 20: Examples of Linearity in Madison.

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.







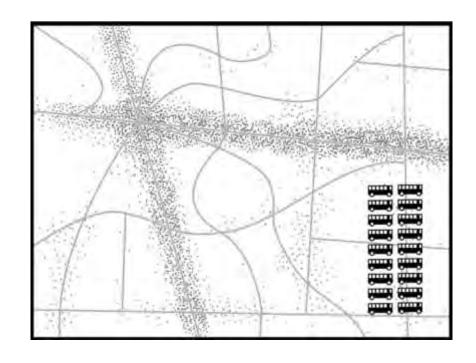
To review

- 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?

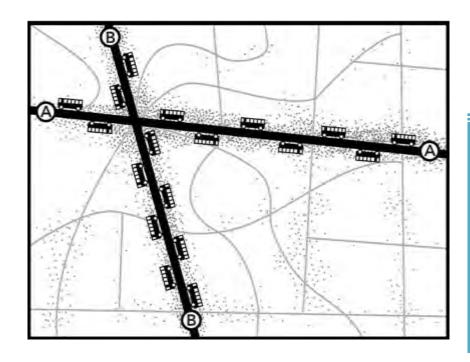
Different Goals, Different Service



Imagine you had 18 buses to serve this fictional town.

Dots are the locations of residents and jobs.

Ridership Goal



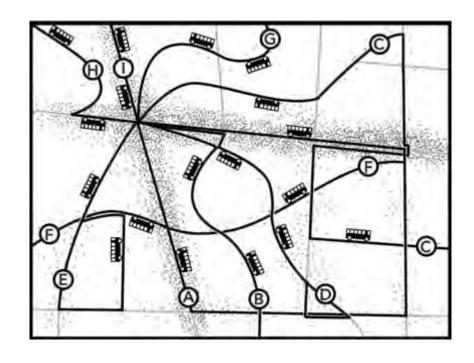
The Ridership Goal

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

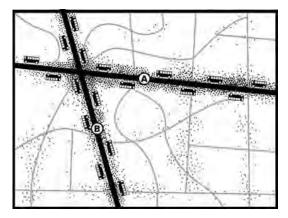


The Coverage Goal

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

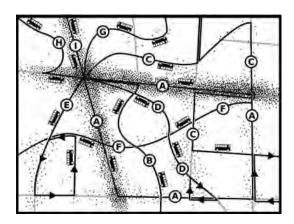
But it's unlikely to be useful for many people and trips.

Why both goals matter



Ridership Goal

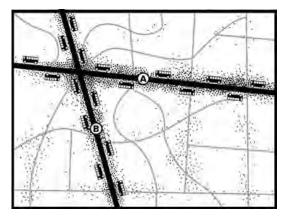
- Maximum <u>average</u> access to opportunity.
- Lowest subsidy per passenger.
- Support dense and walkable development.
- Emissions reduction.
- Reduction in vehicle miles traveled.



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.

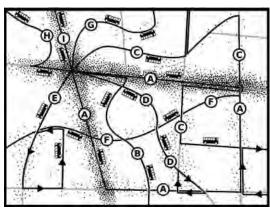
Where is equity or justice?



Ridership Goal

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

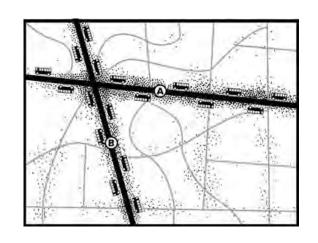
 No service to areas that are not dense, walkable, linear.

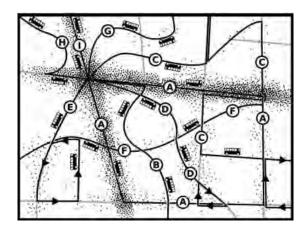


Coverage Goal

• Minimal, poor access for everyone.

This tradeoff is unavoidable.

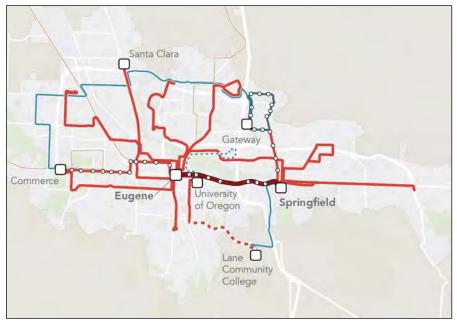




But you CAN choose a deliberate balance point on the spectrum between these goals. ("Devote ____% of our resources to the ridership goal and ____% to the coverage goal.")

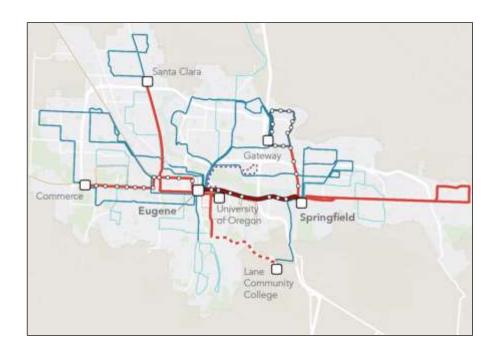
Contrasting network concepts: example

Higher Ridership



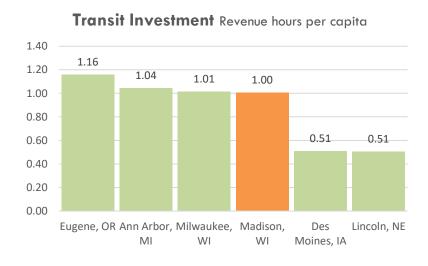
Example from Eugene, Oregon

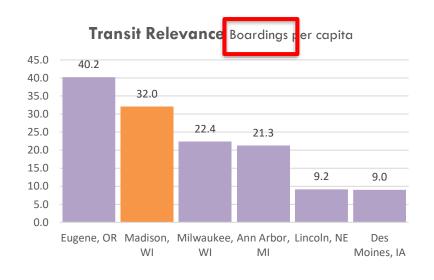
Higher Coverage



How much service is enough?

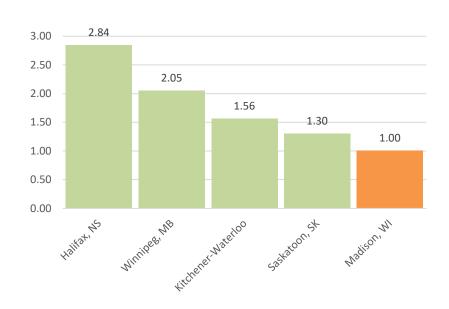
Service Quantity: US Peers



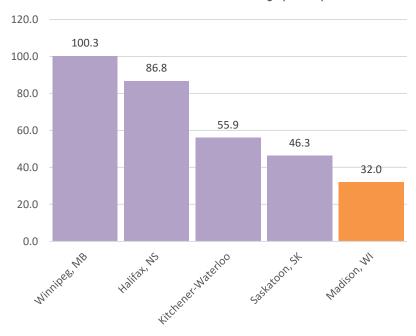


Service Quantity: Canada Peers

Transit Investment Revenue hours per capita



Transit Relevance Boardings per capita



Engaging the Community

Next Steps

Community Engagement Timeline

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

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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

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

2. Social Media

- City of Madison
- Metro
- Urban Assets Community Engagement Ambassadors



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

Thank You!

- Project Contacts:
 - Mike Cechvala, <u>mcechvala@cityofmadison.com</u>
 - Melissa Huggins, Melissa@urbanassetsconsulting.com
 - metroredesign@cityofmadison.com