#### **Carlos Cruz-Casas**

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Chief Innovation Officer | Miami-Dade County Department of Transportation and Public Works



#### **Introduction to Miami-Dade Project**

#### Intro

Carlos Cruz-Casas & Marta Viciedo

- Miami-Dade Transit Service
- **Better Bus Network**
- **Transit Rider Experience**
- Miami-Dade Project

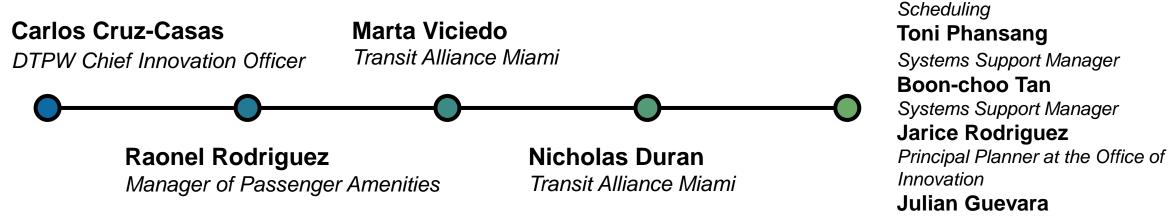


BISCAYNE & 55th STREET





#### **Miami-Dade County Team**

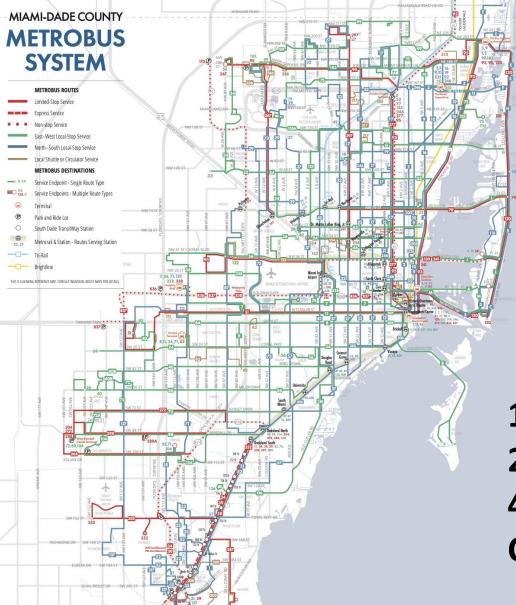


Municipal Manager at the Office of Innovation

Linda Morris

Chief of Service Planning &

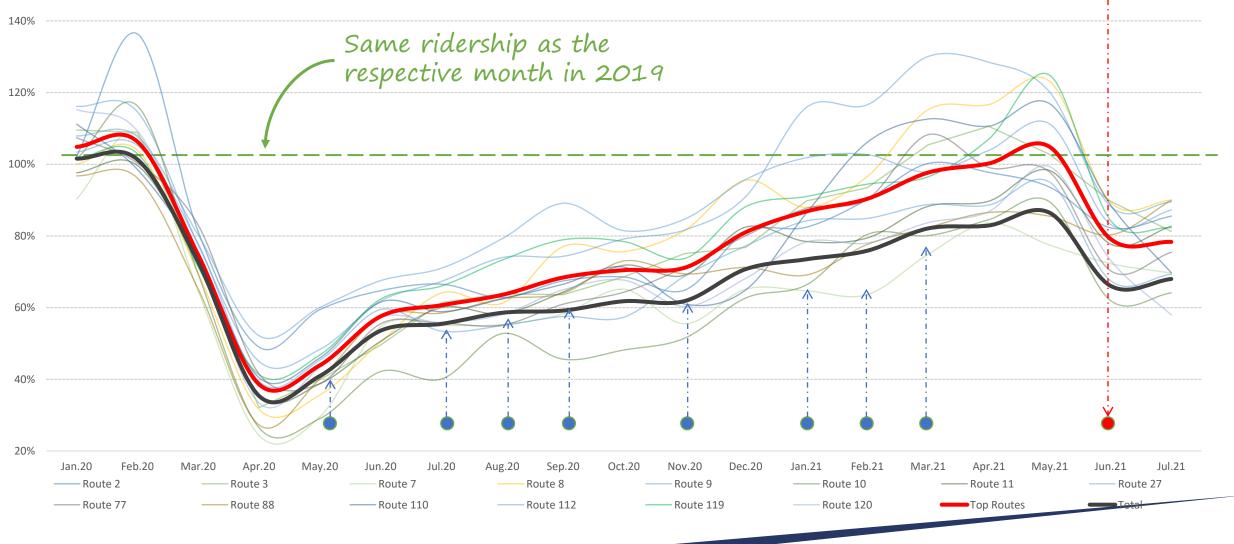




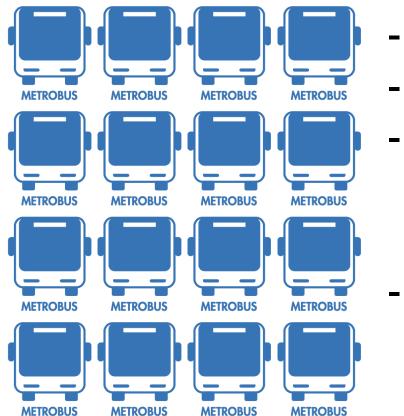
101 bus routes25-mile elevated heavy rail4.4-mile elevated automated peoplemoverCountywide paratransit program



#### **Percent Change when Compared to 2019**



### What we Learned



- Frequency truly matters
  - Consistent Service all day is key
  - We can **reallocate** services effectively without creating a disparate impact
- Data is readily available to help us make important decisions Elements of a good transit network work. Always.

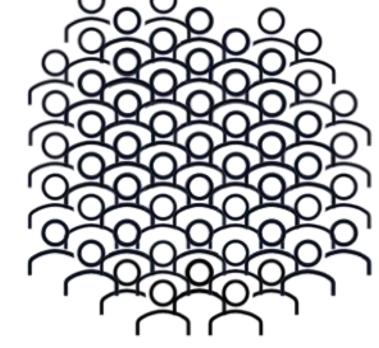
### **Collaborative Effort**





Transit Alliance Jarrett Walker& Associates Department of Transportation and Public Works

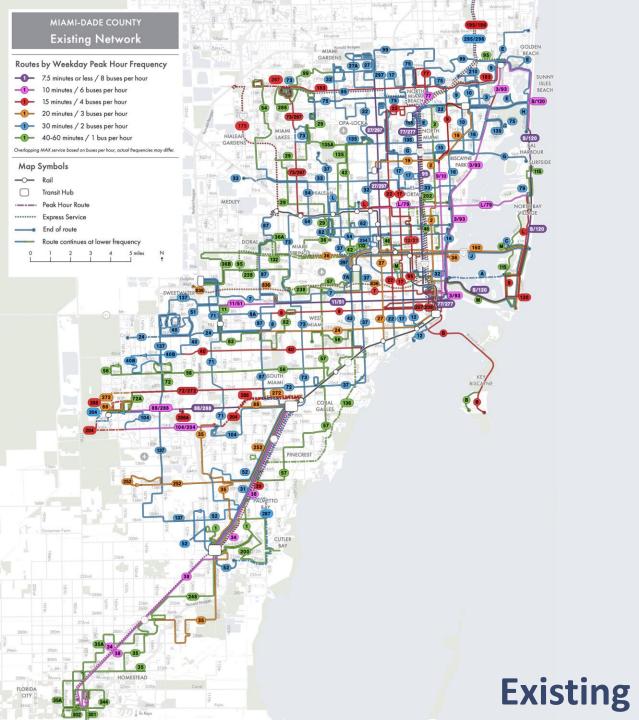
Local stakeholders and partner agencies **Riders and Residents** 

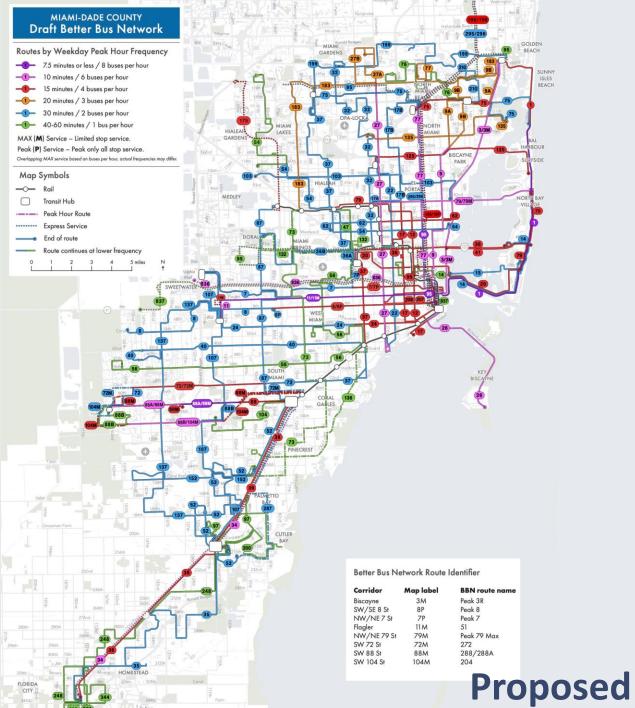


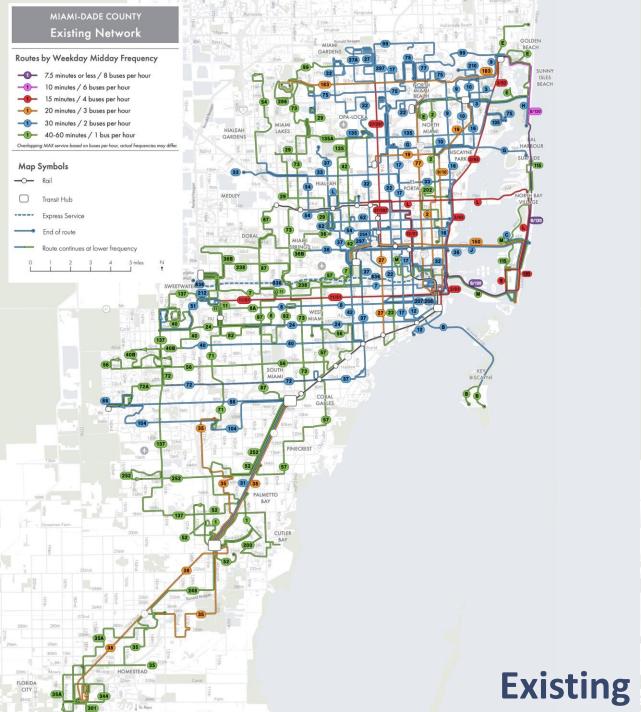


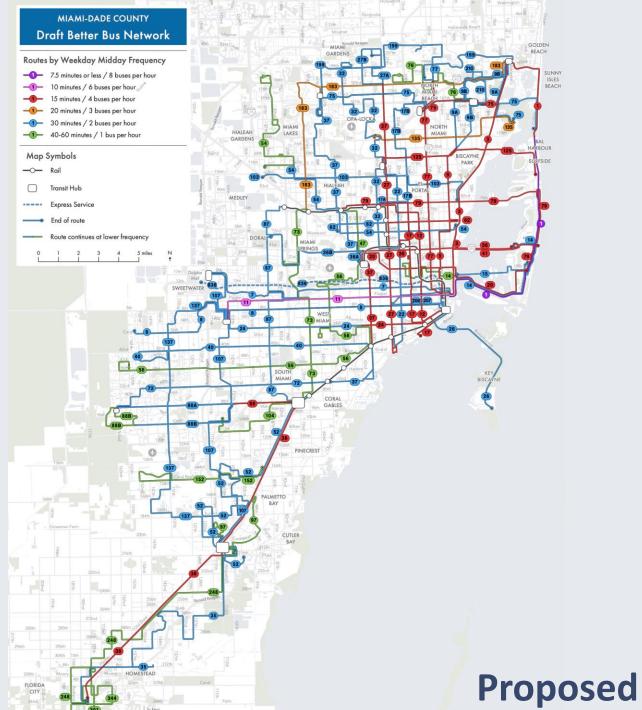
### **Public Engagement**

- Online Survey
- Community Meetings
- Stakeholder Meetings
- Text Message Line
- Phone Scheduler
- Email Desk
- At Stop

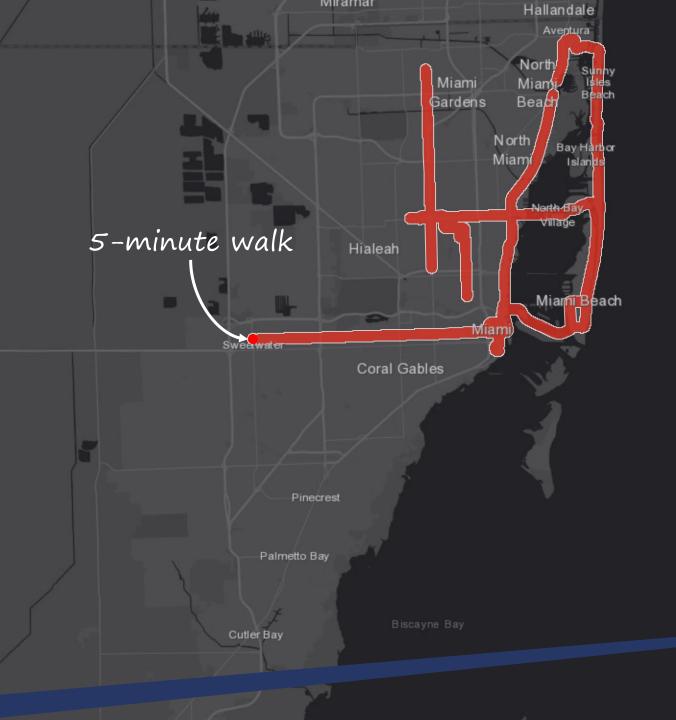






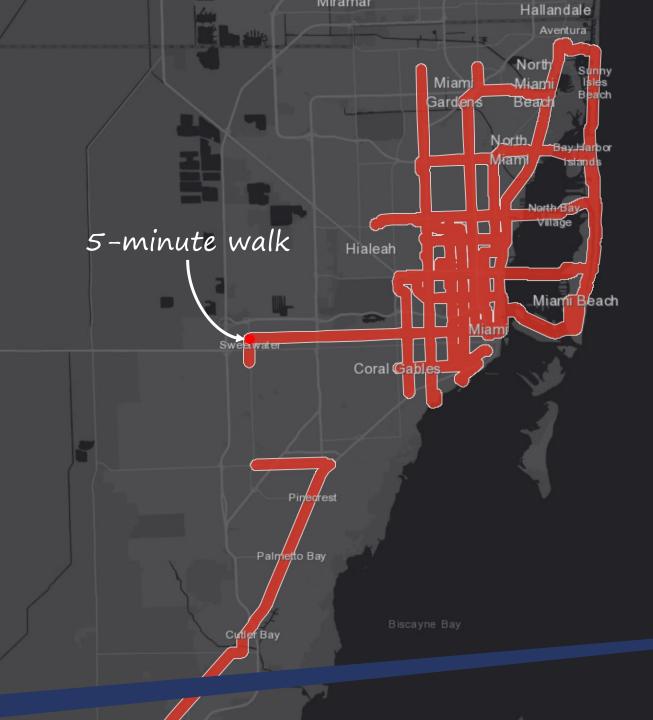


## out of every 50 will have same or better transit service



#### EXISTING FREQUENT CORRIDORS WITH A 0.25 MILE BUFFER

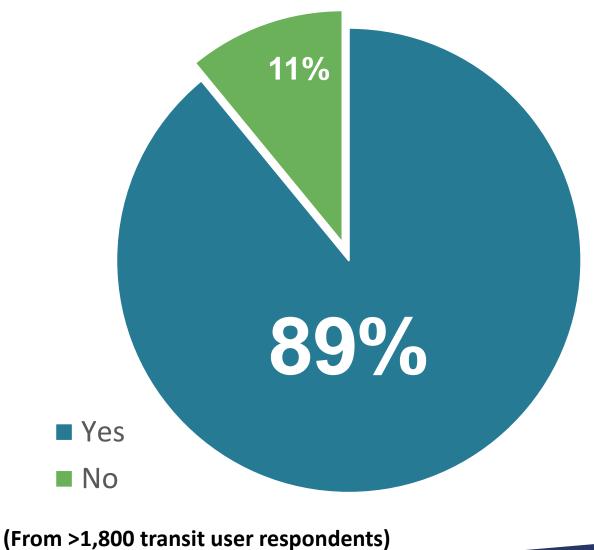




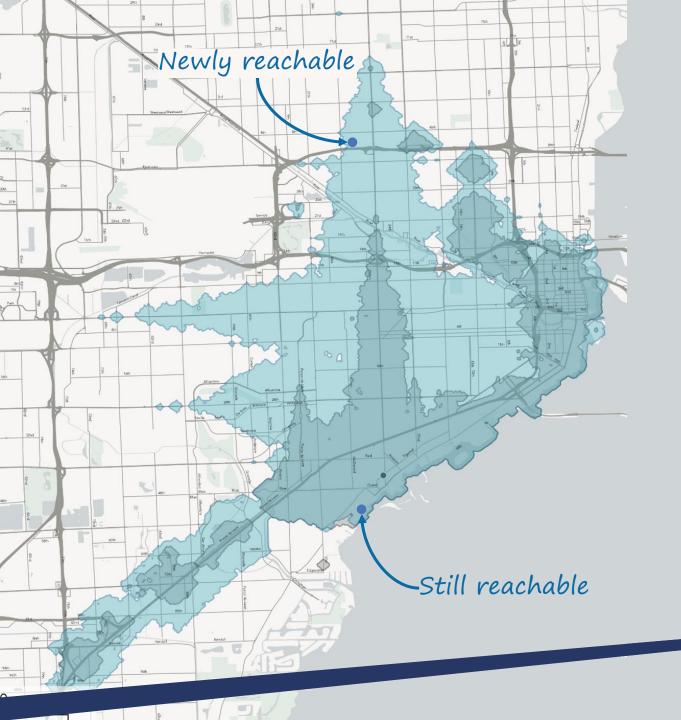
#### PROPOSED FREQUENT CORRIDORS WITH A 0.25 MILE BUFFER



### **2021 SURVEY RESULTS**



Having reviewed the proposed Better Bus Network, would you like to see the changes implemented?

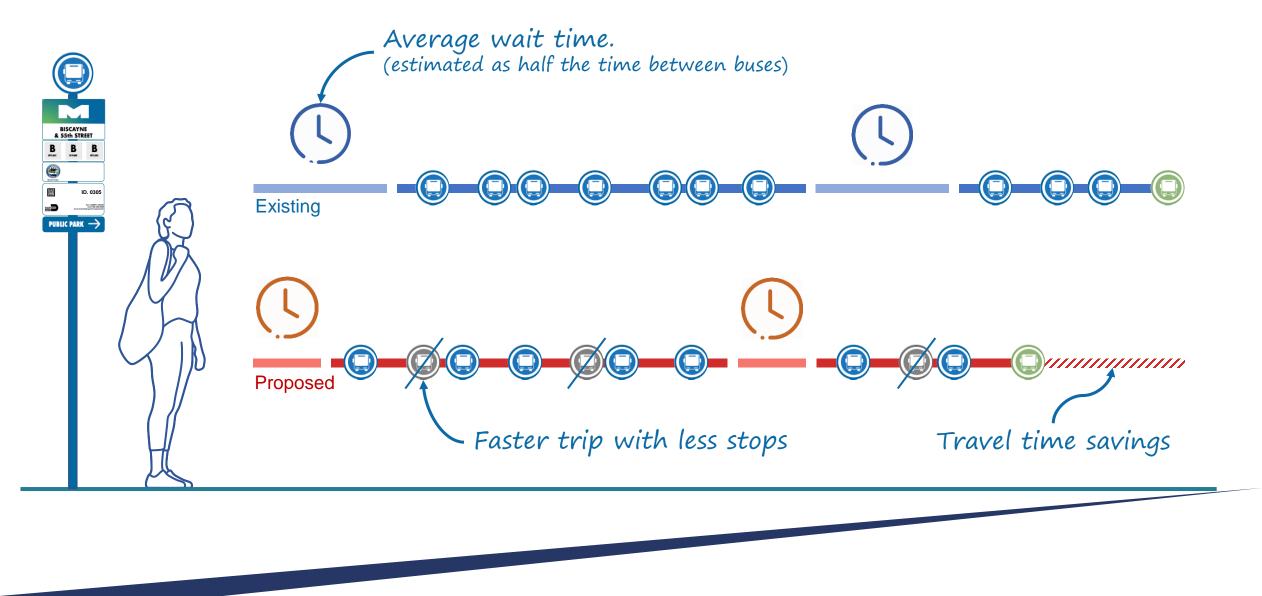


How far can I travel in 45 minutes from Coconut Grove at noon?

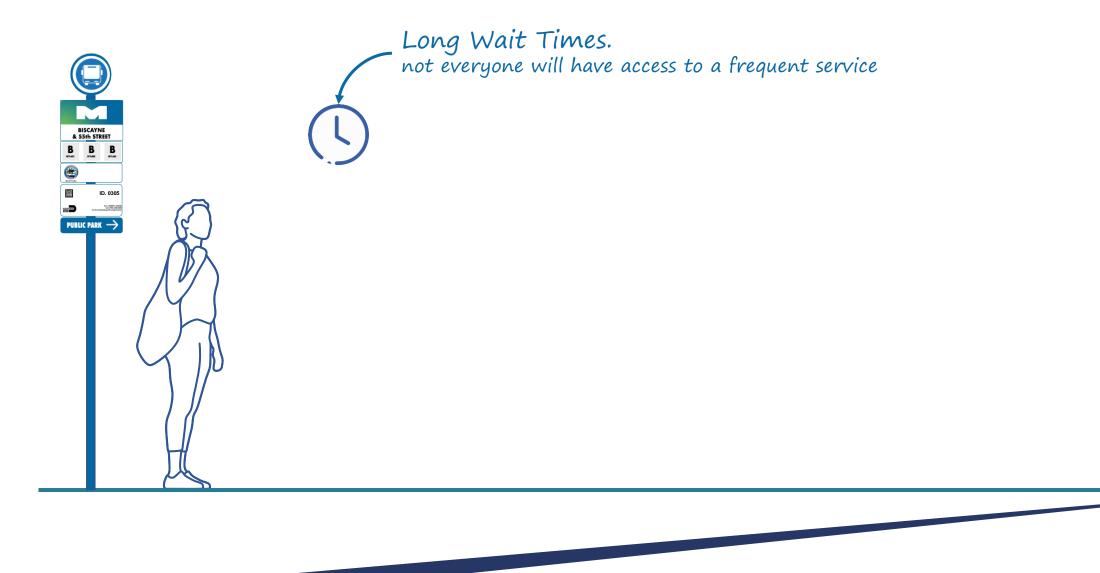
**60% more jobs** 216,000 **165% more residents** 



### **Faster Journeys**



### **Transit Experience**



**From Sorry to Superb:** Everything You Need to Know about Great Bus Stops



# *"Better bus stops create better transit."*

"Great bus stops encourage ridership and improve the experience of taking the bus."

> "A bus shelter is not a luxury; it provides a basic level of comfort and dignity to people waiting for transit."

> source:: https://transitcenter.org/publication/sorry-to-superb/

**From Sorry to Superb:** Everything You Need to Know about Great Bus Stops





Riders ranked simple amenities like bus stop benches, schedules, and safe street crossings as essential as shelters.

source:: https://transitcenter.org/publication/sorry-to-superb/

#### Missed Opportunity





#### **The Miami-Dade Project**

**The Ask** obtain knowledge of how heat impacts transit use

What we don't know how long riders wait for transit, the experienced heat

**Better rider experience** 

What we know

*local temperatures, ridership by stop, transit service* 

**How it will be used** *prioritize investments, focus on greater impacts* 





#### **The Miami-Dade Project**

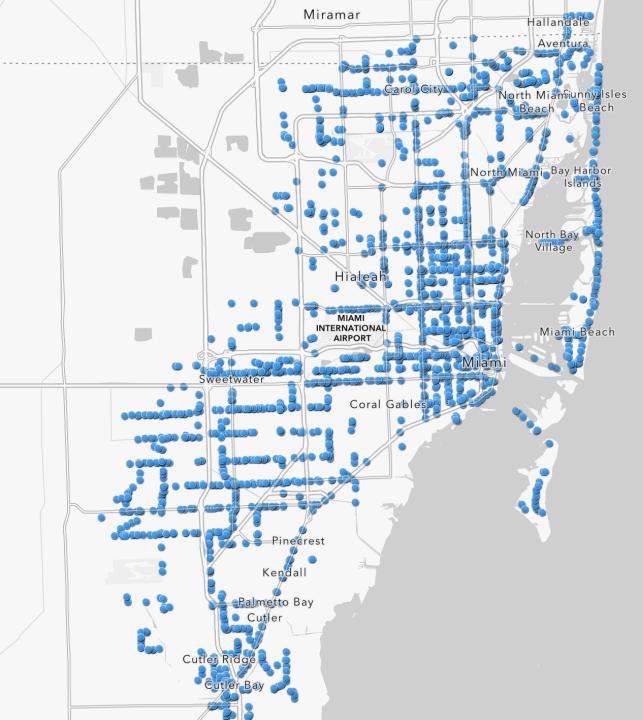


What we don't know how long riders wait for transit, the experience

**Better rider experience** 

What we know local temperatures, ridership by stop, transit service **How it will be used** *prioritize investments, focus on greater impacts* 



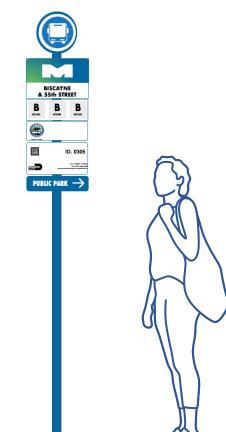


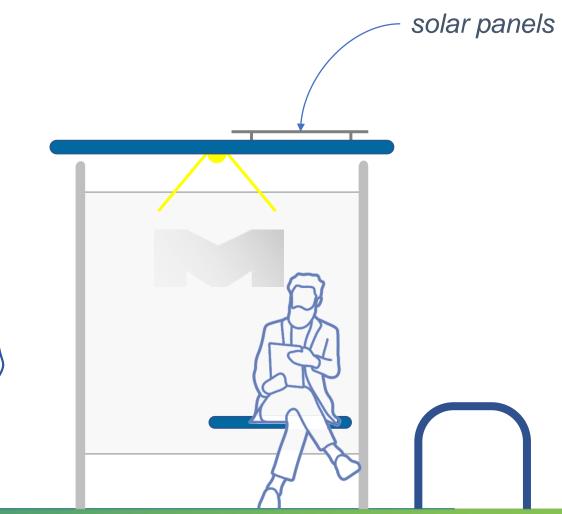
#### 7,500 bus stops



### **Transit Amenities**

- Shelter with solar panels
- Night Light
- Advertising Panel \*\*
- Bench
- Wheelchair dedicated space
- Bike racks \*\*\*
- Route Information
- Trash can

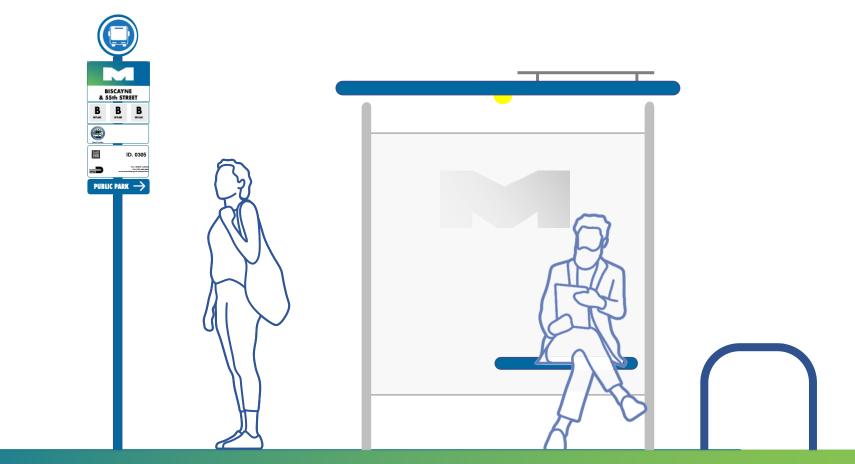








### Transit Rider Considerations





#### **Understanding the Impacts of Extreme Heat**

**The Ask** obtain knowledge of how heat impacts transit use What we don't know how long riders wait for transit, the experienced heat

**Better rider experience** 

What we know local temperatures, ridership by stop, transit service

#### How it will be used

prioritize investments, communicate with riders, focus on greater impacts



## Big Data. Made Easy.

The first big data platform for public transit

- Highly accurate real-time passenger information
- Understand and analyze network in real time and historically
- Quickly visualize data to build consensus past, present, and future





#### Miami-Dade County setup



#### Static GTFS

A single static GTFS with information on all services

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#### AVL

- Clever Devices
- TSO Mobile
- Swiftly Onboard App
- ETA Transit (Coral Gables)

#### **Realtime Passenger info**

- GOMDT app
- Google Maps
- Transit app
- SMS text-for-ETA app
- 10 other applications (Via, Lyft, digital signs, etc)

#### **Historical data analytics**

- GPS Playback
- 0TP

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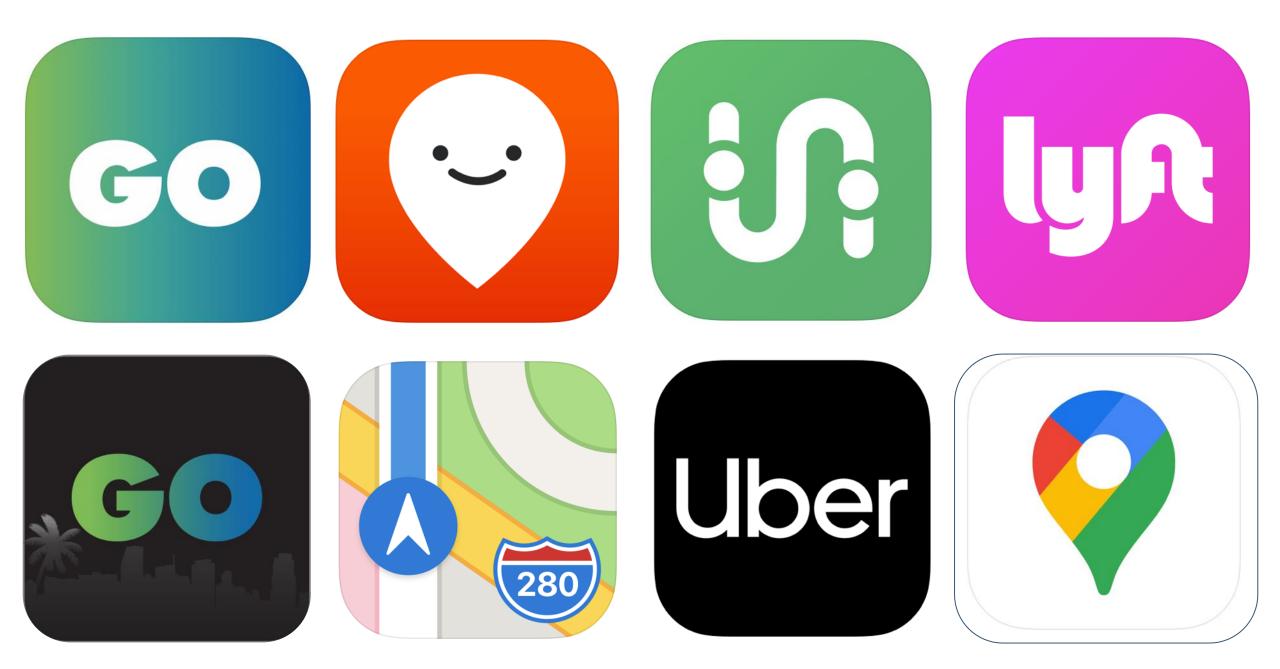
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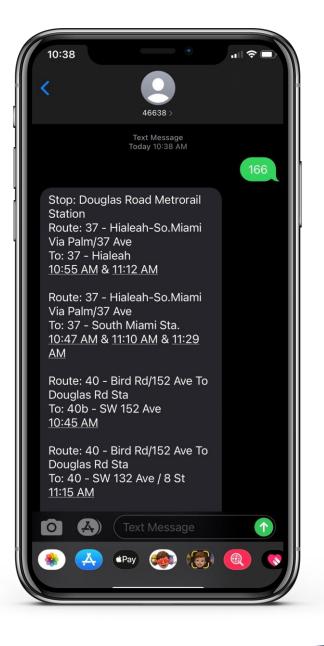
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- Run Times
- Speed Map

#### Real-time operations tools

• Live Operations





#### **GO MIAMI-DADE TRANSIT (MDT) TEXTS**

- Metrobus riders can access real-time tracking information by texting their bus stop number to GOMDT (46638).
- There is also an interactive voice service available for riders that rather call.



#### **Understanding the Impacts of Extreme Heat**

**The Ask** obtain knowledge of how heat impacts transit use What we don't know how long riders wait for transit, the experienced heat

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What we know local temperatures, ridership by stop, transit service **How it will be used** *prioritize investments, communicate with riders, focus on greater impacts* 

