

Duluth Bus Rapid Transit Study -Grand Ave

TAC & MIC Policy Board – May 15 & 16, 2018

Chris Belden – MIC Transportation Planner

What is Bus Rapid Transit?

- High-quality bus-based transit system
- Delivers fast and efficient service
- May include dedicated lanes, busways, traffic signal priority, off-board fare collection, elevated platforms and enhanced stations
- Emulates a light-rail type system

Station Design

- Real Time Bus Data
- Heat
- Bike Storage
- Security
- Off-Bus Fares
- Seating
- Increased Lighting





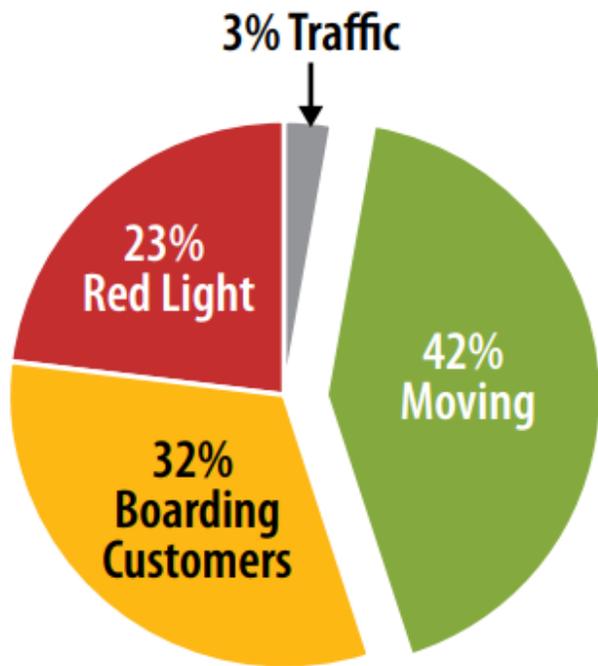
Platform Level Boarding:
Johannesburg, South Africa

Buses & Branding



- Metro Transit

Dedicated Lanes and Signal Priority



Percent of time stopped or moving along typical study corridor routes

- Metro Transit



Stop Locations

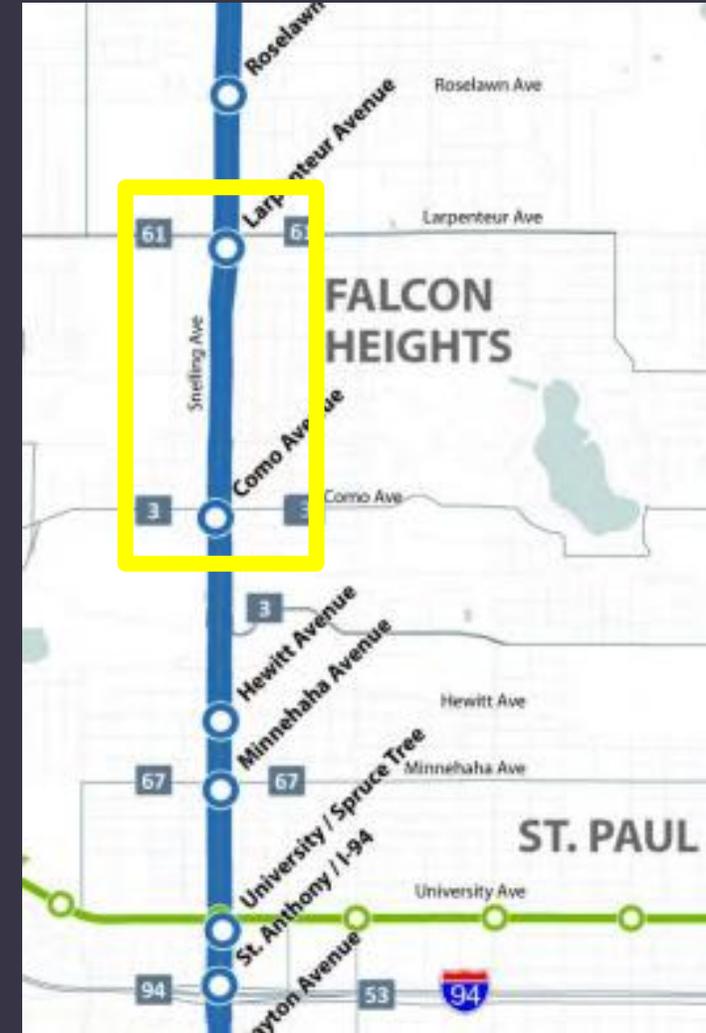
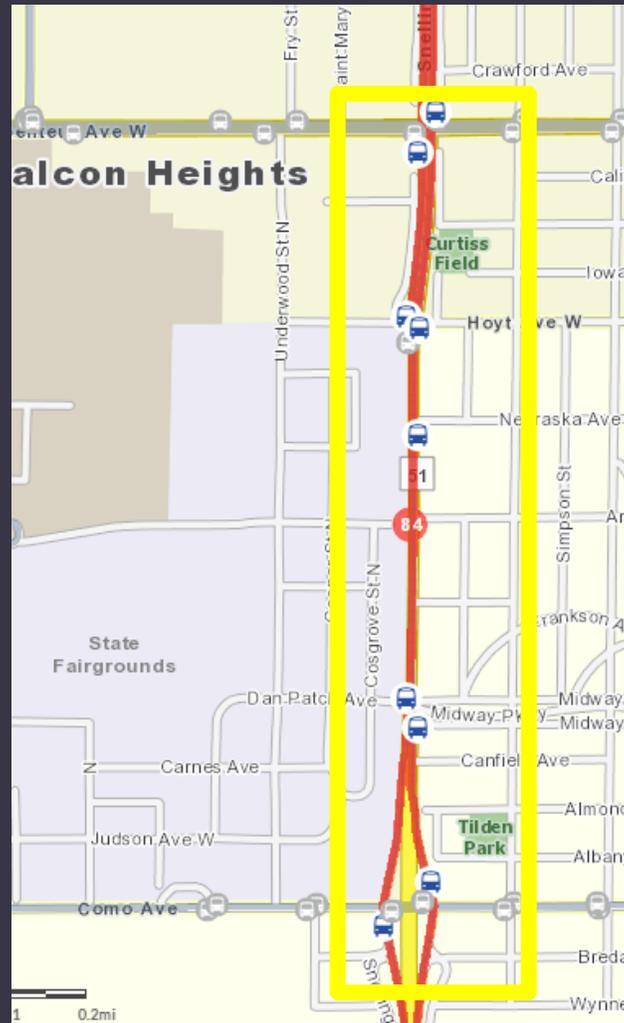
- Limited Stops (Often Every Half-Mile)
- 10-15 Min Service at Peak Times



Rapid Bus: Every 15 minutes

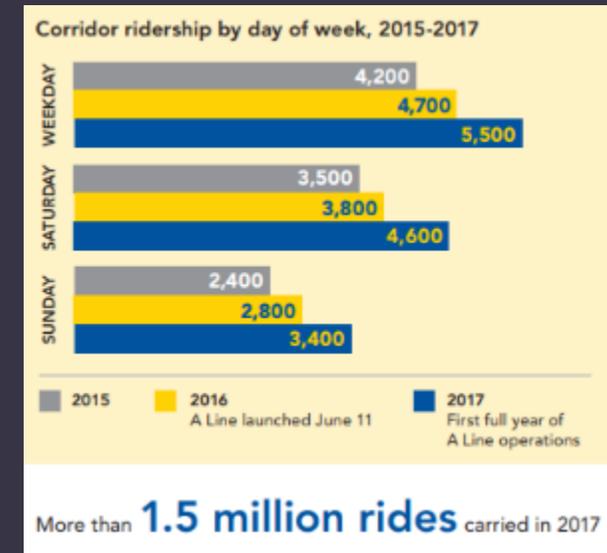


Local Bus: Every 30-60 minutes



Why Bus Rapid Transit?

- Improving rider experience and reliability
- Increase Ridership
 - 20-40% Ridership increase
- Riders want increased frequency
- 15 -25% faster travel time (Zoo to DT=30 Min by Bus – 10Min by Car)
- Potential to Spur Development
- BRT can be 7 times more affordable than light rail, per mile.



- Metro Transit



Could it work in Duluth?



Could it work in Duluth?



Could it work in Duluth?



Data Collection Ideas

- Review of Other Studies
- Boarding Data
- Boarding Observations
 - Are there areas for improvement
- Where is Delay
 - Signals, Traffic, boardings, stops too close.....
- Demographics, residential density, employment density
- Land Use
 - Potential areas of future development due to BRT
 - Land uses or areas that hinder transit
- Policy/planning support



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