



Data (actually!) changed shelter priorities, practice and policy

APTA Multimodal & Sustainability Workshop

July 31, 2018



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81.9 million RIDES

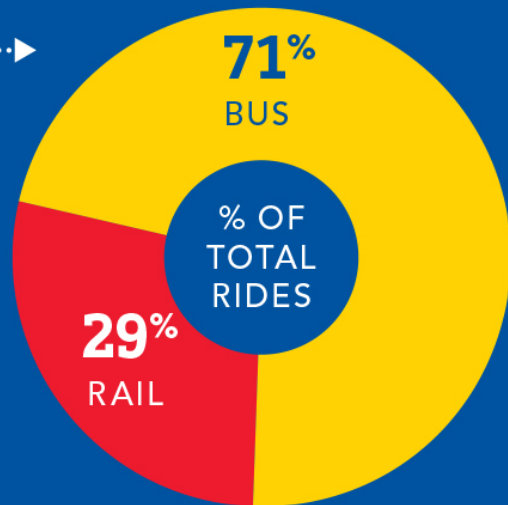
264,347 AVERAGE WEEKDAY RIDERSHIP



57.3 million RIDES



24.6 million RIDES



What is a shelter?



Metro Transit shelter



Other-owned shelter



Integrated waiting facility



Park-and-Ride with sheltered waiting area

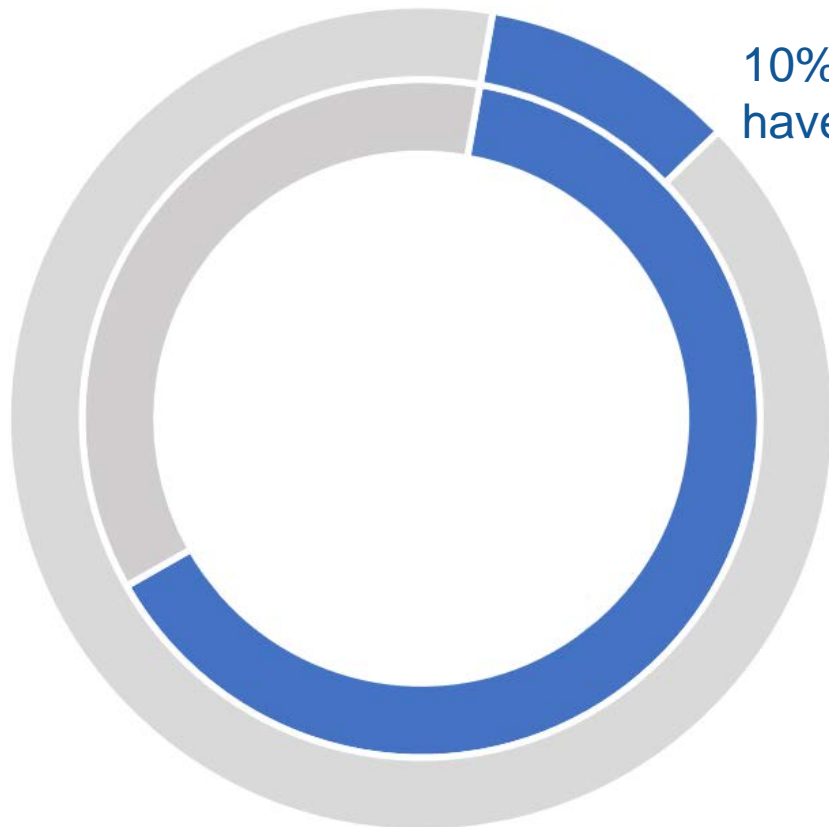


Transit Center



A Line shelters

How well are we offering shelter to customers?



10% of Metro Transit's 12,000+ bus stops have shelter for transit customers.

60% of bus boardings occur where shelter is available.

Re-examining

1. Shelter placement guidelines
2. Data as decision-support tool
3. Performance metrics
4. How we think about shelters

Five years ago...



Bus maps? Seriously, Twin Cities, where are they?

Maybe if the bus system were user-friendly, more people would ride it.

By SAM ROCKWELL | SEPTEMBER 26, 2013 — 7:32PM

Hundreds of metro bus stops have thousands seeking shelters

A Star Tribune analysis of Metro Transit data shows many exposed stops are the most used.

▸ Study: Transit amenities affect perceived wait times

A simple shelter can make the wait for a Twin Cities bus feel shorter than it actually is, based on new research from the University of Minnesota.

By Eric Roper STAR TRIBUNE | SEPTEMBER 4, 2014 — 4:23PM



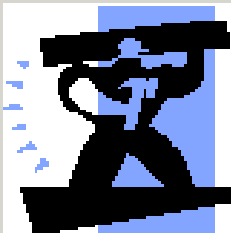
An estimated **7,000 people**
participated in community engagement

BETTER  **BUS** STOPS

metrotransit.org/better-bus-stops

Shelter Improvement	Criteria
Consider adding a shelter: <i>highest priority</i>	100+ daily boardings and priority location*
Consider adding a shelter: <i>high priority</i>	100+ daily boardings
Consider adding a shelter: <i>medium priority</i>	30+ daily boardings and priority location
Consider adding a shelter: <i>lower priority</i>	30+ daily boardings
Replace shelter	At least 15 daily boardings
Remove shelter	Fewer than 15 daily boardings
Consider adding light to shelter	Not a standard shelter feature. Prioritized based on boardings from sunset to sunrise, personal security concerns, and site factors
Consider adding heat to shelter	Not a standard shelter feature. Considered where there are 100+ daily boardings

**Priority locations include areas where more households do not have cars, near hospitals, healthcare clinics, social service providers, housing for people with disabilities or older adults, and major transit transfer points.*



shelter

Version October 2012

SHELTER PLANNER

(Display choice)

SELECTION TOOL

- ADD TO
- REMOVE FROM
- NEW

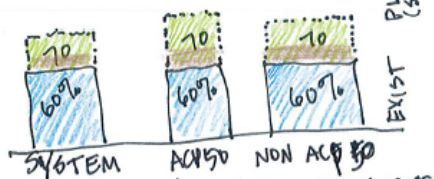
EXISTING SHELTER	COUNT
• MT, POSTER	
• OTHER	
① PARK-RIDE	XXXXXXXXXX
② TRANSIT CENTER	XXXXXXXXXX

SHELTER PRIORITIES	COUNT	COUNT SELECTED
• HIGHEST		
• HIGH		
• MEDIUM		
• LOWER		

REMOVE SHELTER	COUNT	COUNT SELECTED
• 1 or less		
• Less than 15		
• no longer considered		
• Planned Shelter Project		

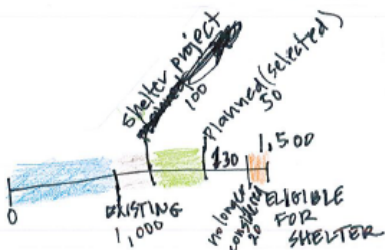


% BOARDINGS W/ SHELTER



CITY/WARD

SUBAREA % BOARDINGS W/ SHELTER



• INCLUDE/EXCLUDE DOWNTOWN ZONE

Shelter Prioritizer

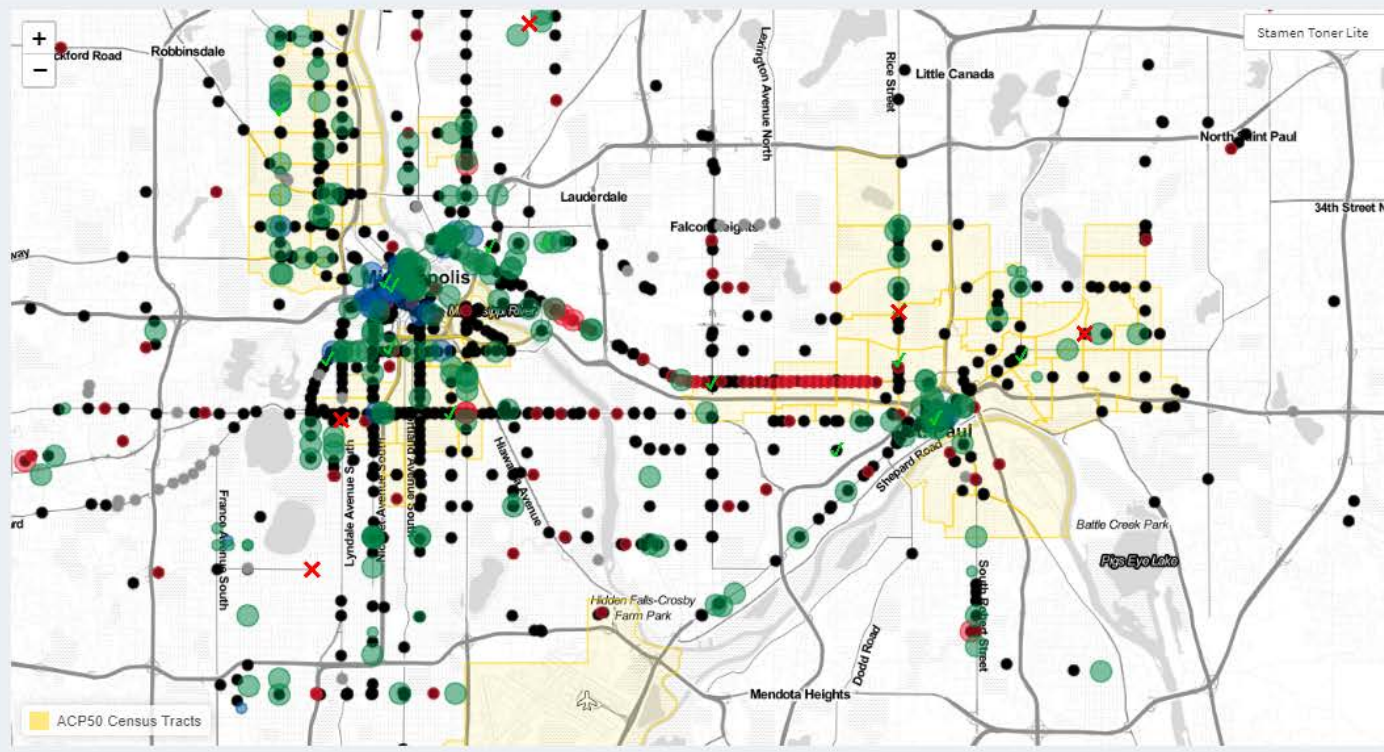
- Selection tool:**
- None
 - Add Shelter
 - Remove Shelter
- Show:**
- Existing
 - Eligible - Highest Only
 - Eligible - Other than Highest
 - Remove
 - All Stops
 - Added/Removed
 - See Comment
 - Shelter Project
 - Park & Rides and Transit Centers

Icon	Existing Shelter	Count
●	MT, Poster	1030
■	Other	61

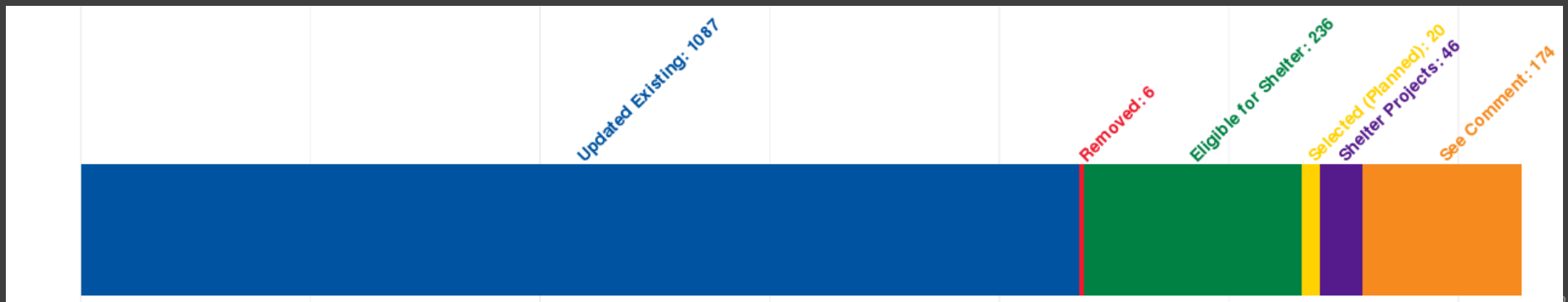
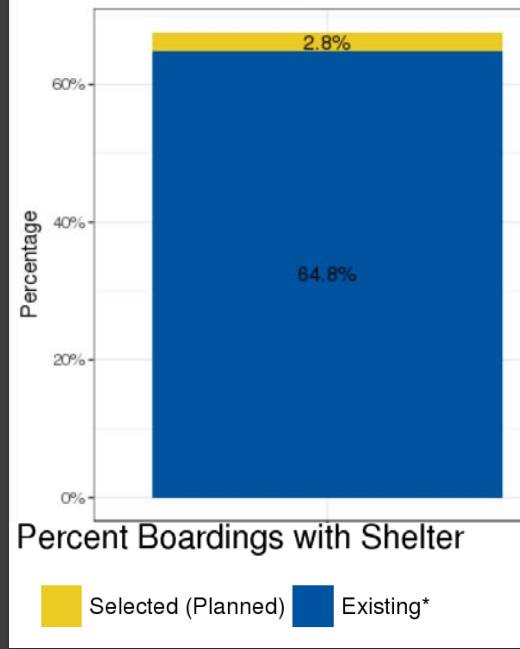
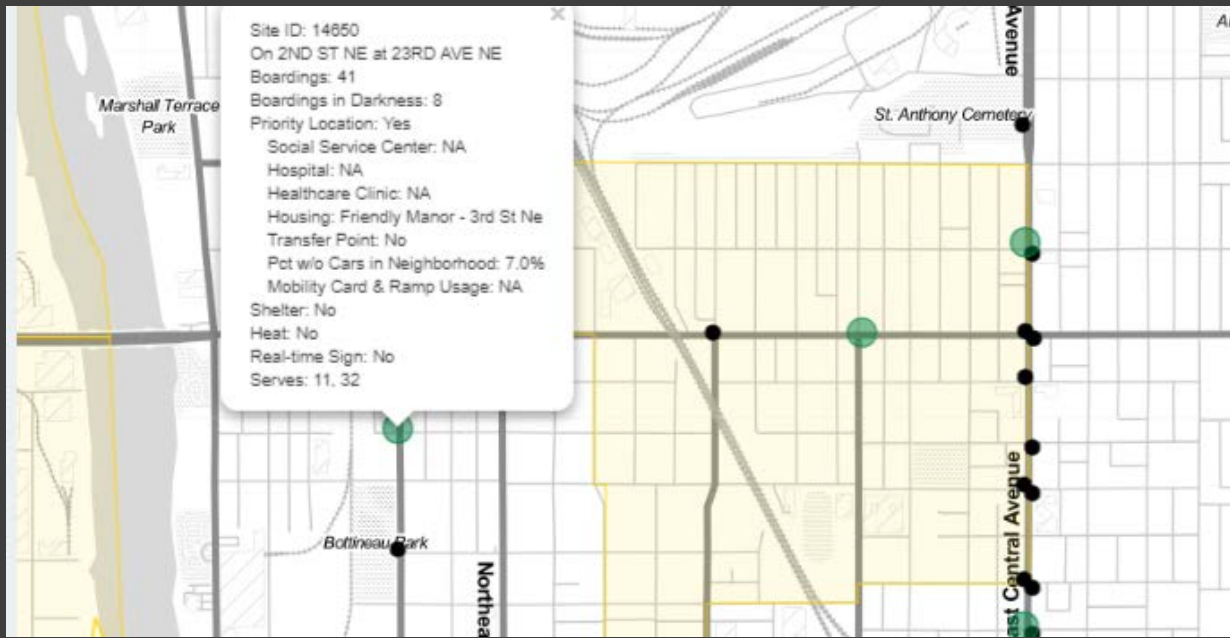
Icon	Shelter Priorities	Count	Count Selected
●	Highest	33	8
●	High	2	0
●	Medium	189	6
●	Low	18	0

Icon	Remove Shelter	Count	Count Selected
●	1 or Less	9	0
●	Less than 15	113	6

Icon	Others	Count
●	See Comments	174
●	Shelter Project	46



[Export CSV](#)

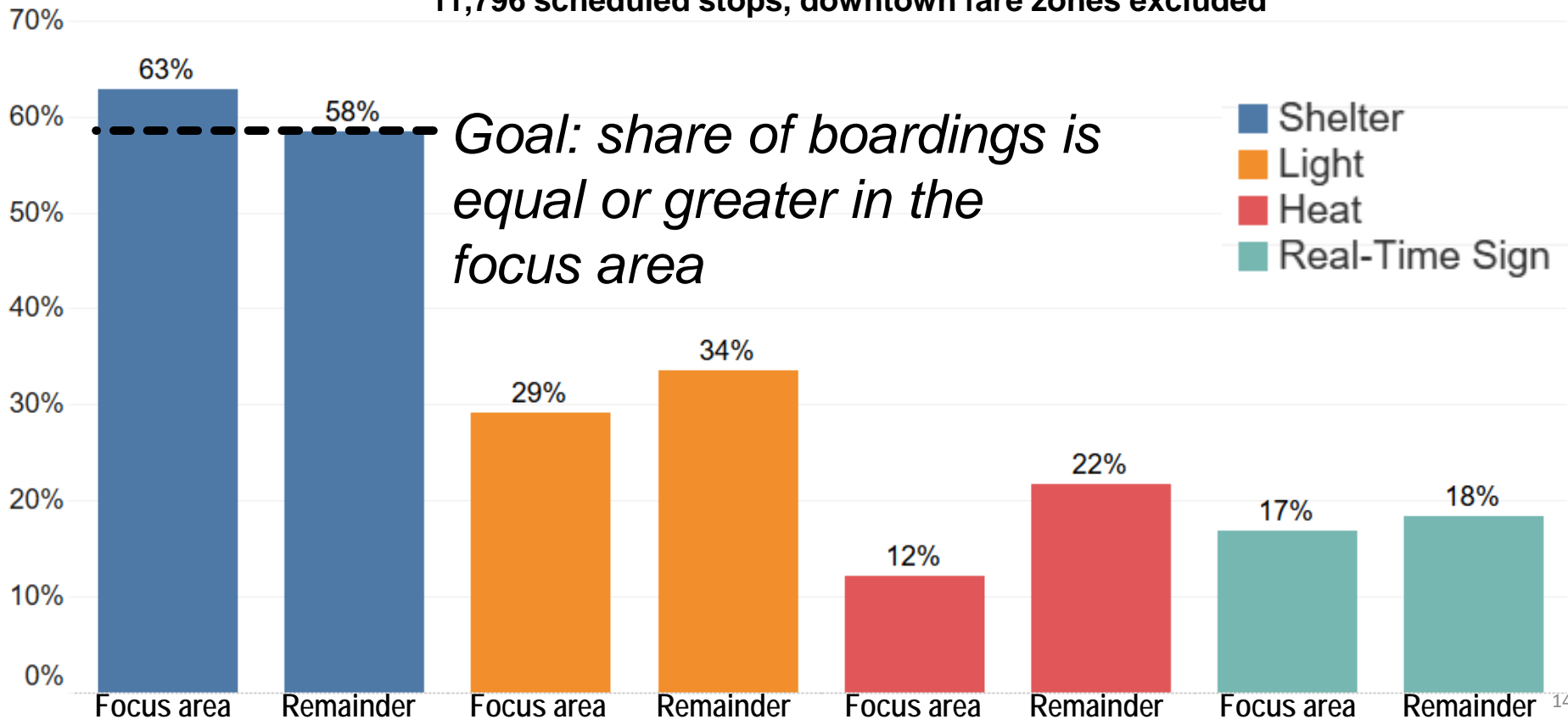




How well are we offering shelters in areas of historic disinvestment?

Percent of Bus Boardings at Stops with Features

11,796 scheduled stops, downtown fare zones excluded



How we think about shelters

