

#### Washington Metropolitan Area Transit Authority

SmarTrip® Bus Offboard Loading

**Project** 

June 2013





# Agenda metro

- Project Goals
- Picture this...
- SmarTrip® Offboard Loading Device
  - Key Requirements
  - The Marketplace
  - Quantity & Location Criteria
  - Tentative Locations
- How You Can Help



## Goal: Reduce this...











1 out of 14
Metrobus riders
add value to their
SmarTrip® card at
the farebox.

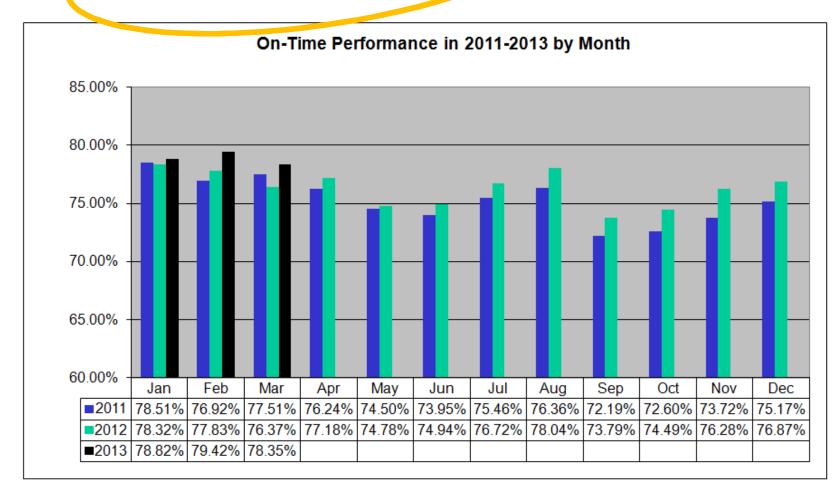
On some routes, it's as high as 1 in 7 riders.



## ...to improve this



#### Bus On-Time Performance Comparison Chart

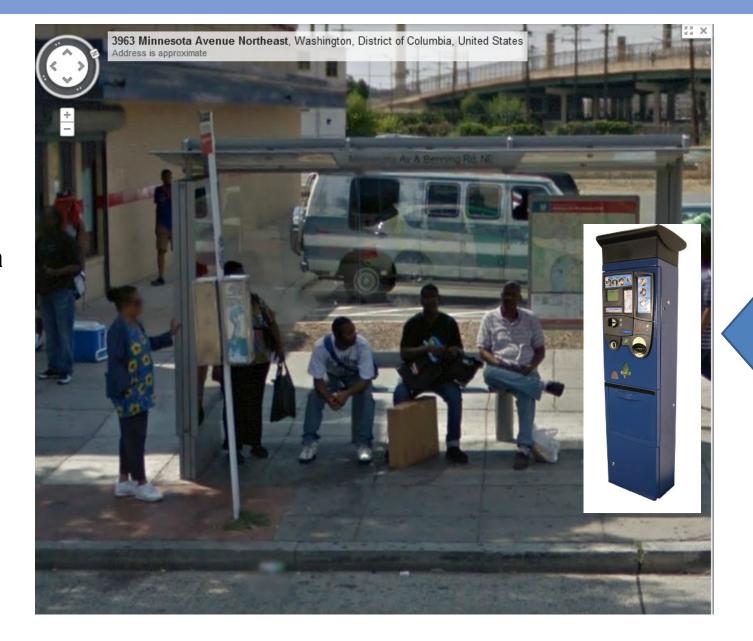


...and to improve customer convenience



# Picture this...

Minnesota Ave & Benning Road

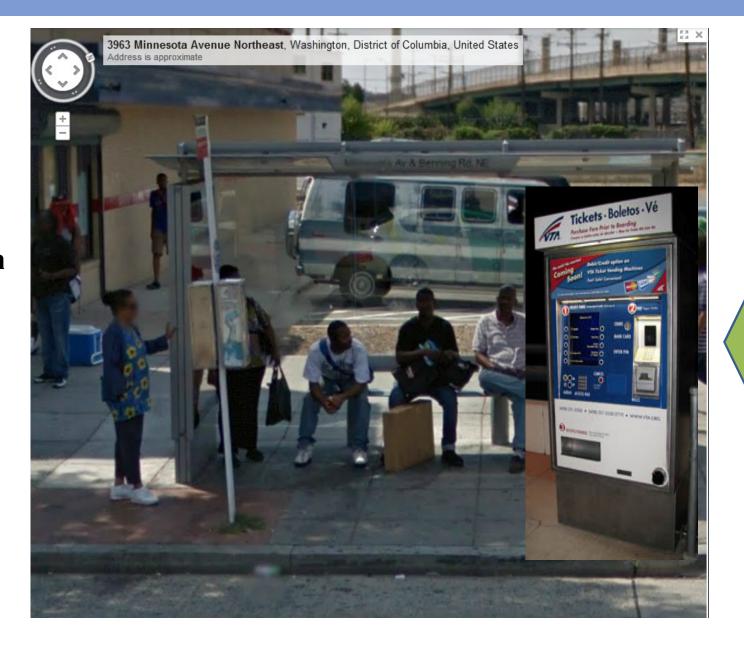


Parking Meter Style



# Or this.

Minnesota Ave & Benning Road



Ticket
Vendor
Style
+ an
Electric
Meter?



# And this...

H Street & 7<sup>th</sup> NW





**H Street &** 

7<sup>th</sup> NW

# Or that.



+ an electric meter?

8



# **Key Requirements**

FEATURE	DESCRIPTION
Offboarding	Add value and bus passes to WMATA accepted smart cards & update WMATA's back-end systems
<b>Payment Forms</b>	Take bills, coins, debit & credit (no change; no escrow)
Streetscape	Attractive with reasonable footprint
Durability	Work under all DC weather conditions
Security	Vandal and Tamper Resistant Support Revenue Collection; Encryption
Regulations	Utility, Permitting, ADA and Civil Rights



## **Key Requirements**

#### What about NEPP?

- This project is NEPP-compatible
- Even with NEPP, we need to serve the unbanked
- Remember, our primary target is customers who use cash to add value at the farebox.



## The Marketplace

#### **Parking Pay Station Vendors**

- Solar-Power Option
- Smaller Footprints
- More Experience with Outdoor Machines
- Less Experience with Smart Cards

#### **Traditional Ticket Vending Machine Vendors**

- Remove the Ticket Printers to Meet Our Need
- Need Electric Service (no solar option)
- Larger Footprints
- Total Cost More Expensive than Parking Pay Stations



## **Location Criteria & Quantity**

#### **Location Criteria**

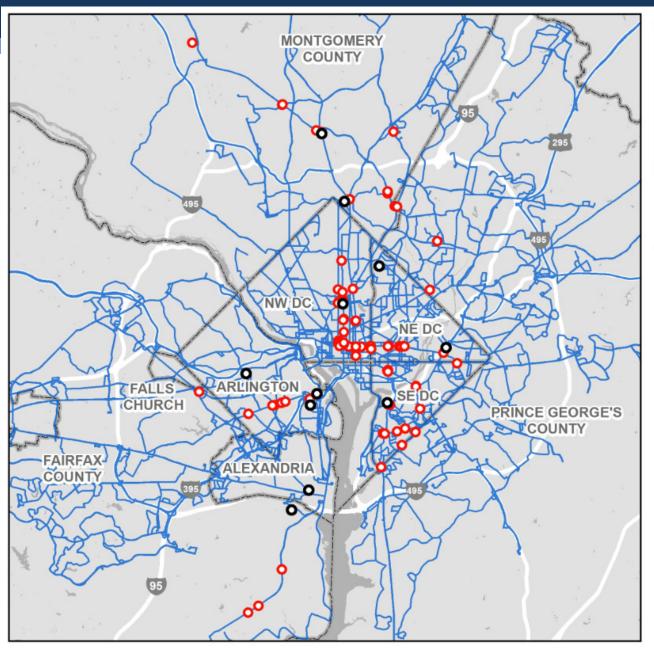
- Lines with High SmarTrip Add Value Activity
- Lines with On-Time Considerations
- Regional Distribution
- Metrobus Stations

#### **Quantity**

- 100 to Start
- Option for 100 More



## **Tentative Bus Stops**



Selected
Bus Stops
for Off-Vehicle
Fare Loading

#### Legend

- Rail Stations
- Bus Stops
  - Bus Network
  - Major Highways
  - Water





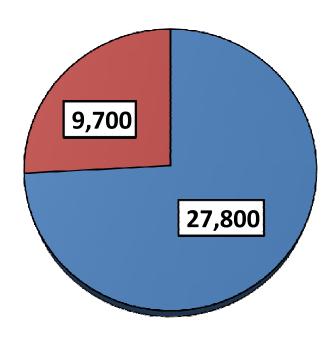




## Challenges

- Integration with Nextfare
- Solar vs. Electric
  - Multiple Utilities
  - Meters and Tariffs
  - Avoid Underground Utilities
  - Relocation Easier with Solar
- Limited Street Space
- Multiple Jurisdiction Permitting
- Security & Revenue Collection
- Utilization: Retain Option for Value Add on Bus

**Total Unique Rider Count for Project Routes (est)** 



■ Go Card
■ MIFARE



# How you can help

- Location Feedback
- Marketing Thoughts & Utilization Incentives
- Benefit Estimates