

### Washington Metropolitan Area Transit Authority

# Improving Bicycle & Pedestrian Access to Metrorail CIP Station Survey and Project Implementation

Office of Long Range Planning Bicycle and Pedestrian Subcommittee January, 2011

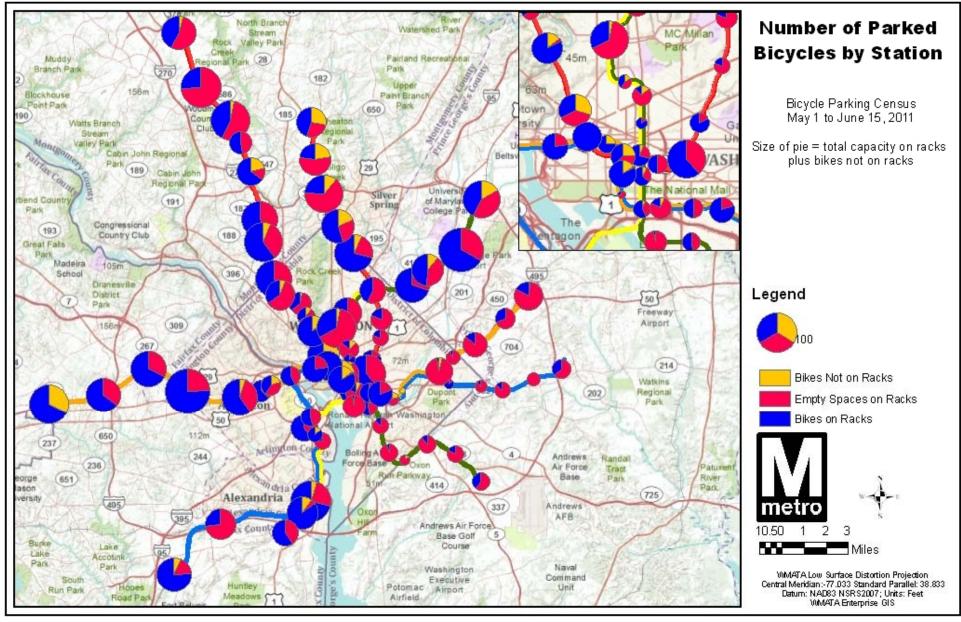


### Recap of CIP Program

- Timeframe: FY12-17
- Funding availability: \$7M
- Tasks
  - Project Identification: Station survey
  - Project Prioritization: Align projects with Agency goals
  - Project Implementation: Mobilize and construct



#### **Bike Census**





## Estimating Bike Ridership – Goals by Station

	Station Name	Custome	er Survey	TDG Adj	TDG Adj	TDG Adj	TDG Adj	TDG Adj		
	(Blue-High Project Level	2007	2007			2020	2020	2020	C	ub Data
	of Effort, RedMedium LOE, YellowLow LOW;	2007	2007			Total BAM Counts	2030	2030	Grow	th Rate
A 1 #	White Data Row=No WMATA and No Supplemental Bike Pkg Provided)	AM Peak Bike Access Percent	AM Peak Arrive By Bike (Customer Survey)	TDG Adjusted Distribution of Parking System-wide (COUNT)	TDG Adjusted Distribution of Parking System-wide (SHARE)	(includes Adjustments) needed in AM Peak to reach Target (2.1%)	Projected AM Peak BAMS	AM Peak Bike Arrivals needed to Reach Target (3.5%)	2020	2030
	Column2	Column302	Column31	Column1	Column1 🚽	Column20₁▼	Column202	Column203	Colum	Column
	Vienna	0.50%	47	113	4.94%	332	5.0%	580	1.09	0.94
	East Falls Church	3.41%	92	102	4.46%	300	13.0%	524	1.34	1.03
	College Park-U of MD	1.05%	20	94	4.11%	276	19.5%	483	1.14	1.00
	Takoma	1.28%	46	87	3.80%	256	8.1%	447	1.47	1.03
	Bethesda	2.29%	78	78	3.41%	229	9.7%	401	1.19	1.04
	Medical Center	7.14%	78	78	3.41%	229	28.8%	401	1.16	1.05
	West Hvattsville	2.36%	55	78	3.41%	229	12.3%	401	1.29	1.02
	Silver Spring	1.12%	74	74	3.23%	252	3.3%	380	1.38	1.09
	Greenbelt	0.34%	17	69	3.02%	203	6.1%	354	1.08	0.91
	Braddock Road	1.73%	41	63	2.75%	185	12.9%	324	0.89	1.18
	Woodlev Park-Zoo	2.10%	61	61	2.67%	179	7.2%	313	1.26	1.04
	Shady Grove	0.42%	45	60	2.62%	176	2.0%	308	1.23	1.03
	Dunn Loring	1.98%	54	57	2.49%	167	7.0%	293	1.48	1.09
	Friendship Heights	1.79%	57	57	2.49%	167	7.3%	293	1.19	1.00
	Rockville	1.49%	35	57	2.49%	167	8.5%	293	1.35	1.01
	Twinbrook	1.27%	28	56	2.45%	197	7.4%	288	1.36	1.06
	Ballston	1.02%	47	54	2.36%	159	3.8%	277	1.32	1.05
	Grosvenor	0.90%	29	53	2.32%	156	5.8%	272	1.06	1.03
	King Street	1.35%	34	52	2.27%	153	7.6%	267	1.14	1.12
	Franconia-Springfield	0.62%	39	48	2.10%	141	3.2%	246	1.17	1.00
	West Falls Church	0.40%	15	47	2.05%	138	5.2%	241	0.64	0.94
	Huntington	0.69%	43	43	1.88%	126	2.6%	221	1.14	1.09
	Forest Glen	2.78%	40	40	1.75%	177	6.9%	205	1.49	0.99
	Union Station	0.35%	35	40	1.75%	118	2.0%	205	0.98	1.07
	Glenmont	0.57%	25	38	1.66%	112	3.0%	195	1.29	0.97
	Van Dorn Street	1.38%	33	33	1.44%	97	5.1%	169	1.26	1.19
	Virginia Square-GMU	0.73%	12	33	1.44%	97	5.3%	169	1.46	1.11
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### **Project Identification**

- TOTAL RECOMMENDATIONS: 3,028
- Total Cost: \$25 M
- New or improved trails and sidewalks: 53,238 linear ft.
- Intersection improvements: 743
  - Of which 221 curb ramp installations are needed.
- New bike parking locations: 448
- Existing bike parking locations that need to be covered:
   56



## Field Survey Results: GIS





## Field Survey Results: Bike Parking

#### Potential Locations for New Bicycle Parking

	New Parkli	Additional Capacity Needed to Meet 2020 Goal	
Parking Type	Total Number Total of Locations Capacity Identified Identified		
Covered Inverted-U Racks	259	5,034	2,832
Uncovered Inverted-U Racks	35	568	312
Bike & Ride	30	1,508	740
On-Demand Locker	77	770	312
Other	9	320	112
Total	410	8,200	4,308

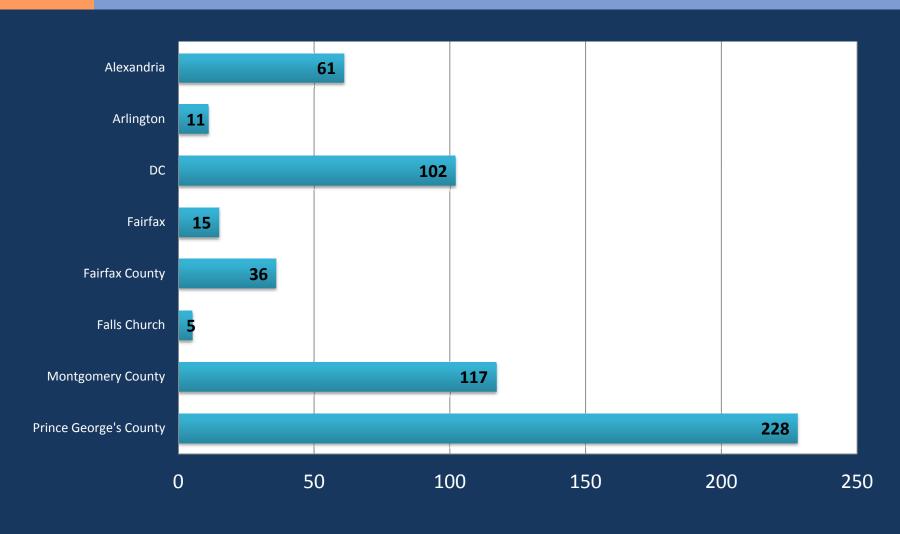


## Field Survey Results: Intersection Improvements



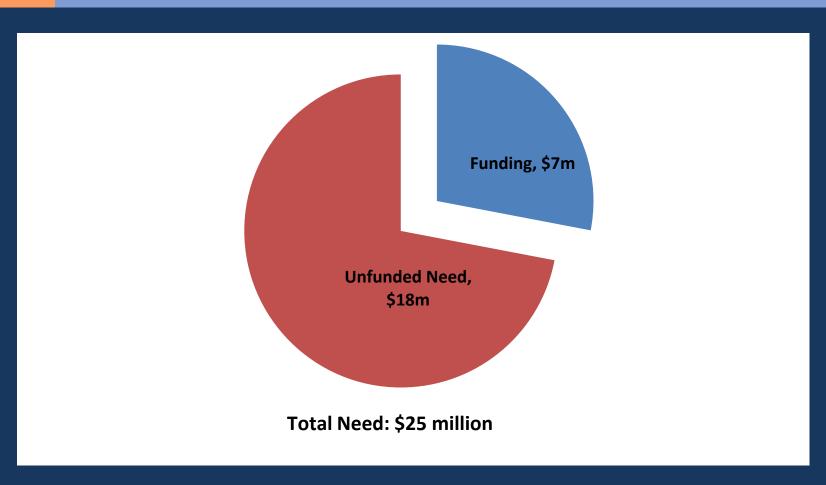


## Intersection Improvements by Jurisdiction





## **Project Prioritization**





## **Project Prioritization**

Recommendation types that need to be prioritized	Prioritization Considerations	Percent of Total Need Funded	
Add lighting at existing bike parking locations	Bike theft and vandalism rates, station crime statistics, Transit Survey comments, site specific factors.	70%	\$300,000
Provide wayfinding signs	Severity of need, Transit Survey comments, site specific factors, coordination with local partners, equitable distribution among jurisdictions.	NA	\$125,000
Add racks with freestanding and cantilevered covers	Locations where no other covered options are available, total volume of existing and projected need; equitable distribution among jurisdictions.	12%	\$475,000
On-demand lockers (see Pilot Program on page 17 for initial investment)	Bike theft and vandalism rates, station crime statistics, high turnover potential, equitable distribution among jurisdictions.	6%	\$125,000
Bike & Ride Centers	High demand stations, high security needs due to bike theft and vandalism rates, Transit Survey comments.	25%	\$1,600,000
Off-site bike lanes	Severity of need, routes leading directly to high capacity parking locations, total volume of existing and projected need, presence of a local partner.	49%	\$250,000
Construct new and widen existing sidewalks and paths	Location on or off WMATA property, priority rating: High, level of difficulty rating: Low, severity of need, potential volume of customers served.	42%	\$1,750,000
Curb ramps	Location on or off WMATA property, relationship to larger pathway improvement needs, severity of the problem, potential impacts on customers with physical disabilities.	57%	\$500,000
Curb extensions and crossing islands	Location on WMATA property, coordination with WMATA Bus and Parking divisions and local transportation agency.	98%	\$250,000
Total Cost			\$5.375 million



## Project Implementation: Completed

MEDICAL CENTER BEFORE AND AFTER, REPLACING OLD RACKS





VIENNA STATION BEFORE AND AFTER, NEW ACCESS POINT





FRANCONIA – SPRINGFIELD BEFORE AND AFTER, NEW SIDEWALK TO IMPROVE SAFETY







### **Jurisdictional Coordination**

#### **Next Steps:**

- Assist with project implementation: off-site bike lanes, intersection improvements
- Explore funding opportunities for unfunded projects from needs list.
- Continue to update, refine needs list, including inventory update in 2012





