



Item 8

DDOT Bikeway Program TPB Technical Committee Presentation



April 5, 2019

DC – Data Snapshot

- Population: 702,455 (Region: 4 million)
- Area: 61 square miles
- Population/mile²: 9,856
- Median Household Income: \$77,649
- Daytime population: 1,000,000
- 5.0% bike to work
- 12.7% walk to work
- 32.7% take transit
- 39.6% drive
 - Of which, 35% drive alone
- 7.4% work at home
- 36% of households do not own a car



Bicycling in DC: Snapshot

- 1,100 miles of streets
- 60 miles of trails
- 75 miles of bike lanes
- 10 miles of protected bike lanes
- 100 miles of signed bike routes
- 2,500+ Bike Racks
- ~2,500 Bike Share Bikes/290 stations

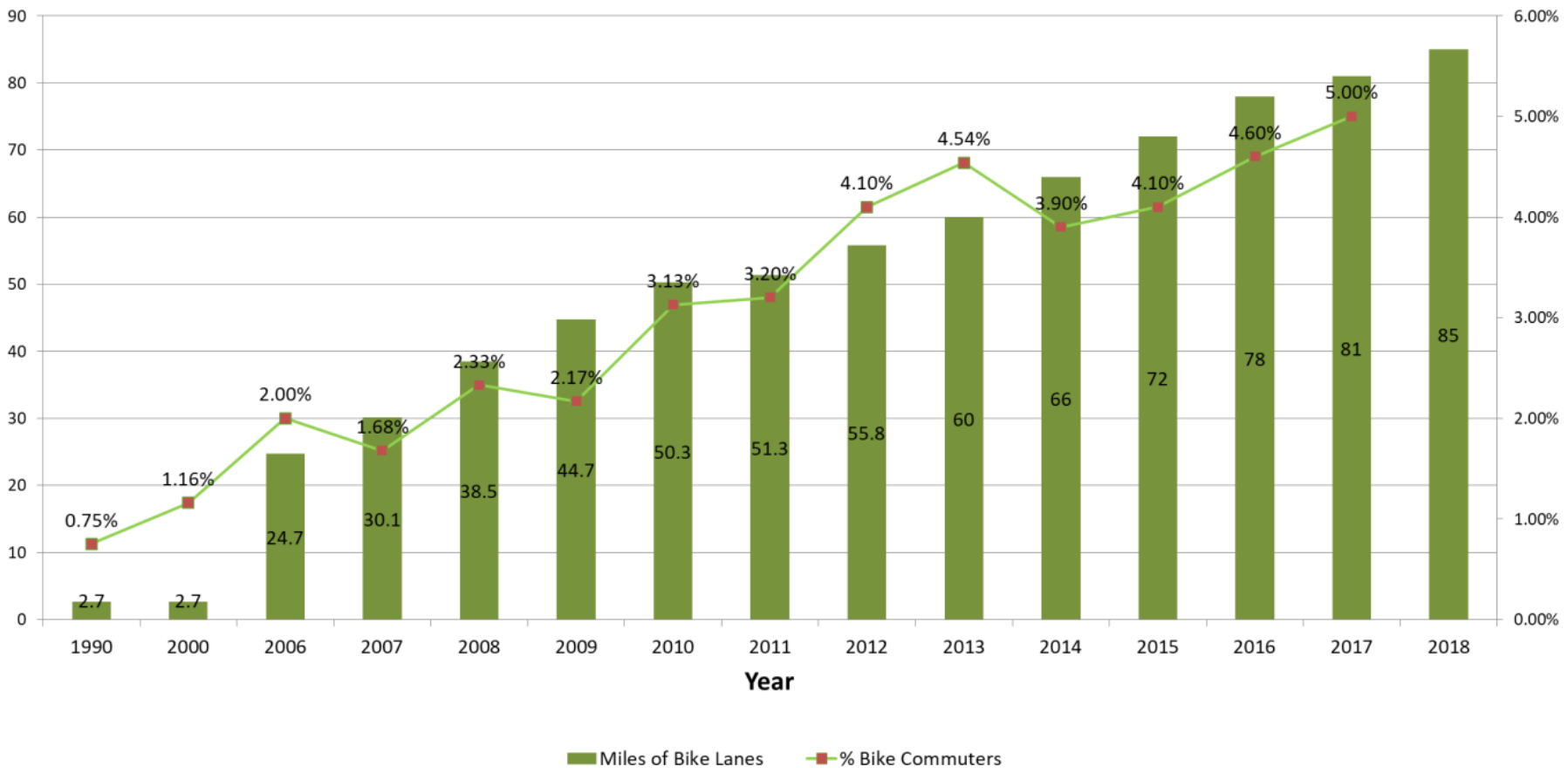


- **2005 Bicycle Master Plan Goals**
 - **2000: 1% of commute trips by bike**
 - **2010: 3% of commute trips by bike**
 - **2015: 5% of commute trips by bike**
- **Sustainable DC goals (2032)**
 - **75% of all trips by walk, bike, or transit by 2032**
 - **200 more bikeshare stations**
- **moveDC Goals (2040)**
 - **61 new miles of trails**
 - **68 new miles of cycle tracks**
 - **83 new miles of bike lanes**



Do Bike Lanes Increase Cycling?

DC Travel to Work by Bicycle & Bike Lane Development



District of Columbia Bicycle Master Plan Proposed Bicycle Facilities Map

moveDC Bike Element

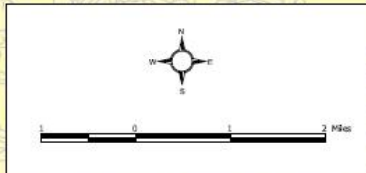
Legend

Bicycle Facilities

- Existing Bicycle Lane
- Proposed Bicycle Lane
- Proposed On-Road Separated Bicycle Facility
- Existing Multi-Use Trail
- Proposed Multi-Use Trail
- Signed Bicycle Route

Other Features

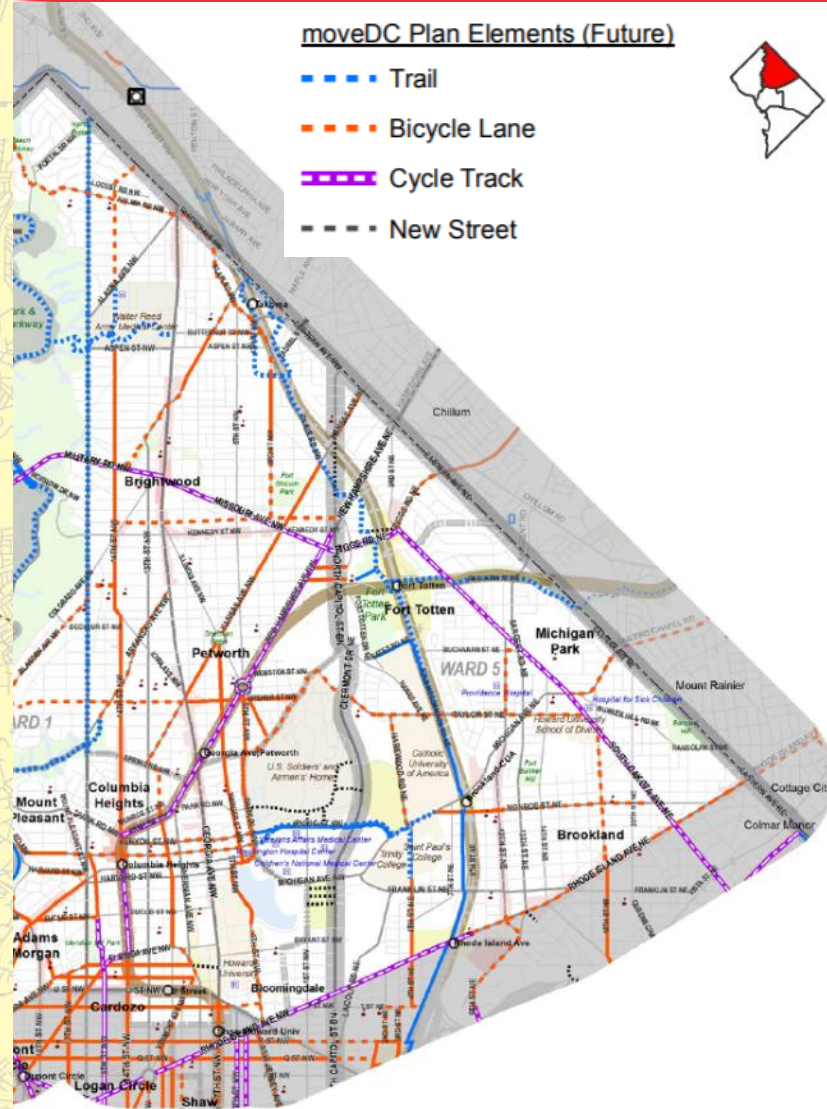
- Roadway
- Metro Rail Station
- District of Columbia
- Water
- Park



Map prepared by
Toole Design Group
April 2005

moveDC Plan Elements (Future)

- Trail
- Bicycle Lane
- Cycle Track
- New Street



Multimodal Long-Range Transportation Plan
Public Review Draft May 2014

Informal weighted scoring of projects that could theoretically be done in 2019:

- Protected
- Significant link in the network
- Degree of difficulty
- Underserved area
- Anticipated community support
- Prior study/work/DDOT commitment
- In MoveDC

Why *protected* bike lanes?

- Safety
- Perception and popularity
- Benefits to pedestrians and neighbors
- Benefits to drivers



BICYCLIST DESIGN USER PROFILES

Interested but Concerned

51%-56% of the total population

Often not comfortable with bike lanes, may bike on sidewalks even if bike lanes are provided; prefer off-street or separated bicycle facilities or quiet or traffic-calmed residential roads. May not bike at all if bicycle facilities do not meet needs for perceived comfort.

Somewhat Confident

5-9% of the total population

Generally prefer more separated facilities, but are comfortable riding in bicycle lanes or on paved shoulders if need be.

Highly Confident

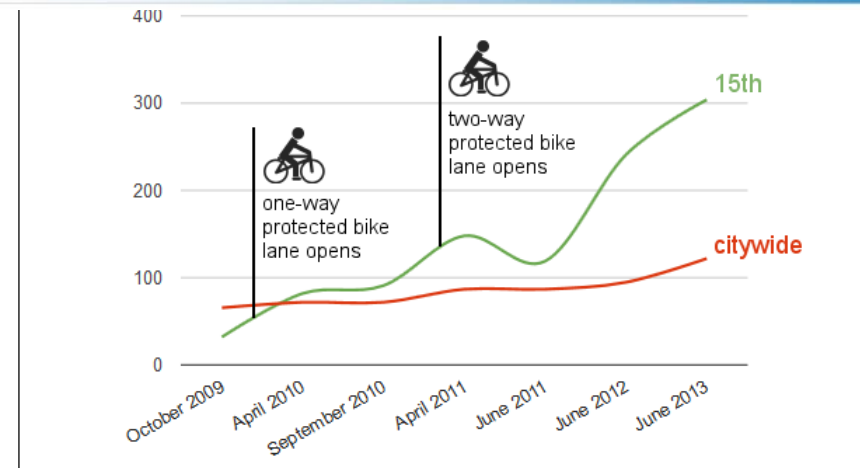
4-7% of the total population

Comfortable riding with traffic; will use roads without bike lanes.



LOW STRESS TOLERANCE

HIGH STRESS TOLERANCE



Peak-hour bike count on 15th between T and Swann streets.

Credit: People for Bikes, using DDOT data

Ready to Install

Roadway	From	To	Ward	Street Miles	Facility Type
13th St NW	L St	Massachusetts Ave	2	0.08	Climbing lane
31st Pl NE	South Dakota Ave NE	Fl Lincoln Dr NE	5	0.17	Climbing lane
34th St NW	34th St, Quebec St	Porter St	3	0.06	Climbing lane
8th St NW	Butternut St	Eastern Ave	4	0.63	Contraflow
Alabama Ave SE	18th St	Bruce Pl	8	0.47	Bike Lanes
Cathedral Ave NW	Connecticut Ave	Shoreham Dr	3	0.59	Climbing Lane
Kansas Ave NW	Upshur St	Georgia Ave	4	0.03	Bike Lanes
M St NE	3rd St	4th St	6	0.08	Cycle Track (Retrofit)
Reno Rd NW	Tilden St	34th St, Quebec St	3	0.21	Climbing lane
Reno Rd NW	36th/Veazey St	Tilden St	3	0.24	Bike Lanes
Stanton Rd SE	Sulltland Parkway	Bruce Pl	8	0.22	Bike Lanes
Wheeler Rd SE	Alabama Ave	Southern Ave	8	0.94	Bike Lanes
Woodley Pl	Cathedral Ave	Calvert St	3	0.33	Contraflow
				4.05	

Undergoing Planning, Design, or Public Outreach

Roadway	From	To	Ward	Street Miles	Facility Type
5th St NW / Park Pl	Kenyon St	Grant Circle	1 & 4	0.95	Protected Bike Lane (retrofit)
7th St NW / Warder St	Irving St	New Hampshire Ave	1 & 4	0.81	Protected Bike Lane (retrofit)
6th or 9th Streets NW	Pennsylvania Ave	Florida Ave	1 & 2 & 6	1.60	Protected Bike Lane
8th St NE	Franklin St, Edgewood St	Monroe St	5	0.47	Cycle track
10th St NE	Florida Ave	H St	6	0.25	Contraflow
17th St NW	Massachusetts Ave	New Hampshire Ave	2	0.48	Cycle Track
17th St NW	K St (East)	Massachusetts Ave	2	0.37	Cycle Track (Retrofit)
20th, 21st, 22nd Streets NW	Constitution Ave	Florida Ave	2	1.50	Cycle Track
Arizona Ave	Loughboro Rd	Potomac Ave	3	0.74	Bike Lanes
Brentwood Pkwy, NE	6th St/Penn St	9th St	5	0.22	Cycle Track
F St NW	17th St	23rd St	2	0.57	Protected Bike Lane
Franklin St NE	4th St	10th St	5	0.19	Bike Lanes
G St NW	17th St	Virginia Ave	2	0.68	Protected Bike Lane
Hawthorne St NW	Cathedral Ave	Connecticut Ave	3	0.18	Shared Lanes
Irving/Kenyon/Michigan	Michigan Ave NE	Warder St	1 & 5	0.97	Cycle Track
K St NE	2nd St NE	6th St NE	6	0.27	Bike Lanes
K St NE	6th St	Florida Ave	6	0.47	Shared Lanes
K St	1st St NE	6th St NW	6	0.76	Protected Bike Lane
Lincoln Rd NE	Franklin St	V St	5	0.60	Cycle Track
Loughboro Rd NW	Nebraska Ave	MacArthur Blvd/Norton St	3	1.07	Bike Lanes
M St NE	17th St	19th St	5	0.15	Contraflow
Maine Ave SW	14th St SW	12th St SW	6	0.17	Protected Bike Lane
Mississippi Ave SE	13th St	18th St	8	0.65	Cycle Track
Nebraska Ave	Ward Cir	Loughboro Rd	3	0.53	Bike Lanes
P St SW	2nd St	4th St	6	0.21	Cycle Track
Pennsylvania Ave SE	2nd St	17th St	6	1.33	Protected Bike Lane
Stanton Rd SE	Mississippi Ave	Trenton Pl	8	0.11	Contraflow
Stanton Rd SE	Trenton Pl	Alabama Ave	8	0.17	Shared Lanes
Stanton Rd SE	Bruce Pl	Alabama Ave	8	0.27	Bike Lanes
Sulltland Rd SE	36th St, Alabama Ave	37th St	7	0.25	Climbing lane
Sulltland Rd SE	37th St	Southern Ave	7	0.14	Bike Lanes/Climbing Lane
West Virginia Ave NE	Mount Olivet	Montana	5	0.53	Buffered Bike Lanes
West Virginia Ave NE	K St NE	Corcoran St	5	0.61	Cycletrack
				18.28	

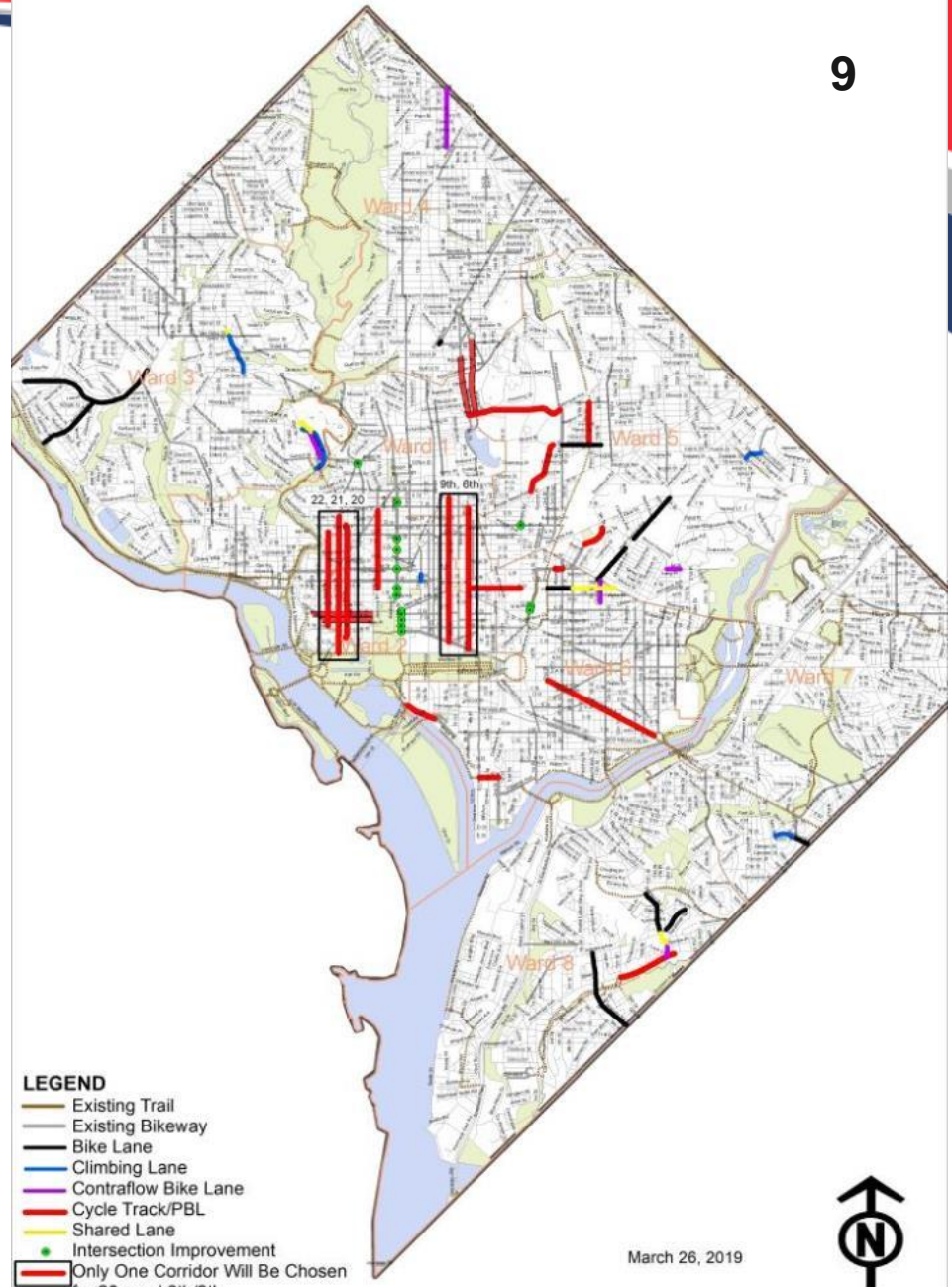
Intersection Improvements

Intersection	Facility Type
1st and G St NE	Pvt Mkgs & Ped Pylons
1st and G Pl NE	Pvt Mkgs & Ped Pylons
6th St and Florida Ave NW	Intersection Lane Markings
15th and E/PA (S)	2-stage Turn Queue
15th and Alex. Hamilton NW	Pvt Mkgs & Ped Pylons
15th and F NW	Pvt Mkgs & Ped Pylons
15th and G NW	Pvt Mkgs & Ped Pylons
18th and Columbia, NW	Bike Boxes
15th and Eye Streets NW	Green paint
15th and K Streets NW	Green paint
15th and M Streets NW	Green paint
15th and Church Streets NW	Green paint
15th and O Streets NW	Green paint
15th & Caroline Streets NW	Green paint
R & North Capitol Streets	Bike Boxes

Note: Some installations require stakeholder engagement and/or final design refinements.

DDOT does not anticipate installing the full list of lanes during 2019.

March 20, 2019



March 26, 2019



2017 Intersection/Safety Improvements

Intersection	Facility Type
4th St and Virginia Ave, SE	Pocket Lane
6th and Florida, NE	Green Lane
8th and Monroe, NE	Green Lane
11th and Florida, NW	Pocket Lane
13th and MA, NW	Pocket Lanes
15th and MA, NW	Green Lane
18th and Columbia, NW *	Bike Boxes
Eye and South Capitol	Green Lane
Rock Creek Church and Harewood, NE	Green Lane

*V.Z. High-Crash Intersection



18th and Columbia, NW*



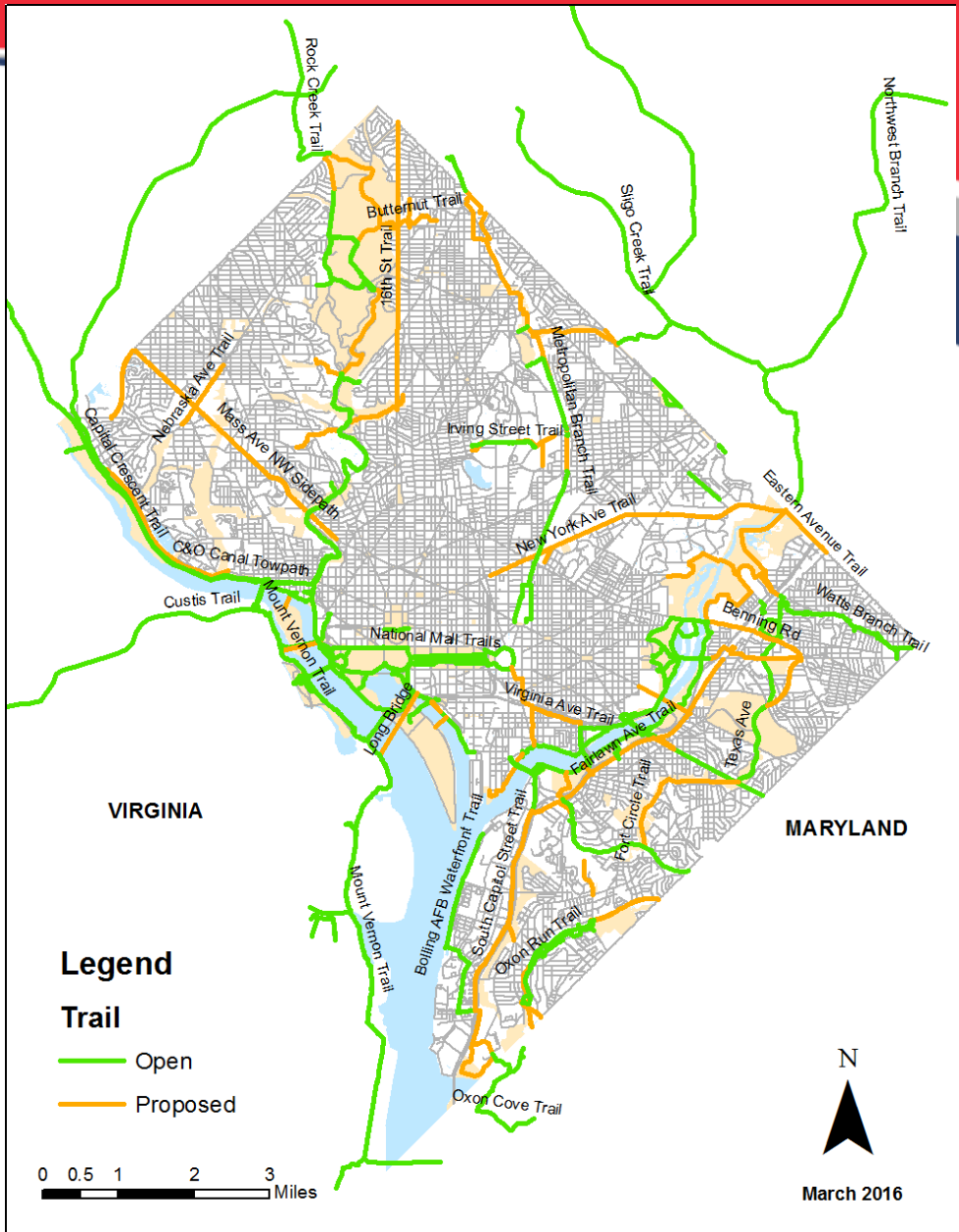
Rock Creek Church and Harewood, NE



Eye St. & So. Capitol St. SW

Multi-Use Trails

- ~70 miles in place
- 20 more in planning, design, or construction



Trail Users/Day

Rock Creek	2,000
Capital Crescent	2,500
Met Branch Trail	1,000

DDOT Links:

- Movedc – DDOT’s Multimodal Long-Range Transportation Plan
 - www.wemovedc.org/index2.html
- Sustainable DC Plan
 - www.sustainabledc.org
- 2005 DDOT Bicycle Master Plan
 - <https://ddot.dc.gov/node/477162>

d. delivers

district department of transportation

George Branyan

Manager, Active Transportation Branch

Planning and Sustainability Division

District Department of Transportation

george.branyan@dc.gov