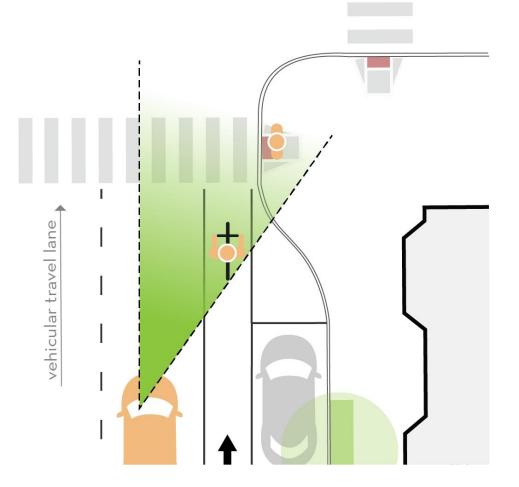
Upgrading Tactical Safety Improvements

District Department of Transportation

Agenda

- Project Background
- Identifying Need
- Quick-build Installation
- Upgrading to Permanent

What is a curb extension?



Shorter crossing distance

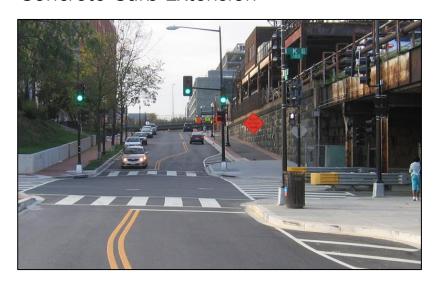
Reduces motorist turning speeds

Increased visibility
between
motorists and
pedestrians

Tactical Curb Extension



Concrete Curb Extension



Why tactical curb extensions?

- Safety benefits are realized immediately
- Improve planning to construction timeline
- Provide an opportunity to right-fit designs and make changes before a permanent installation







Safety & Mobility Studies

Identifying Need

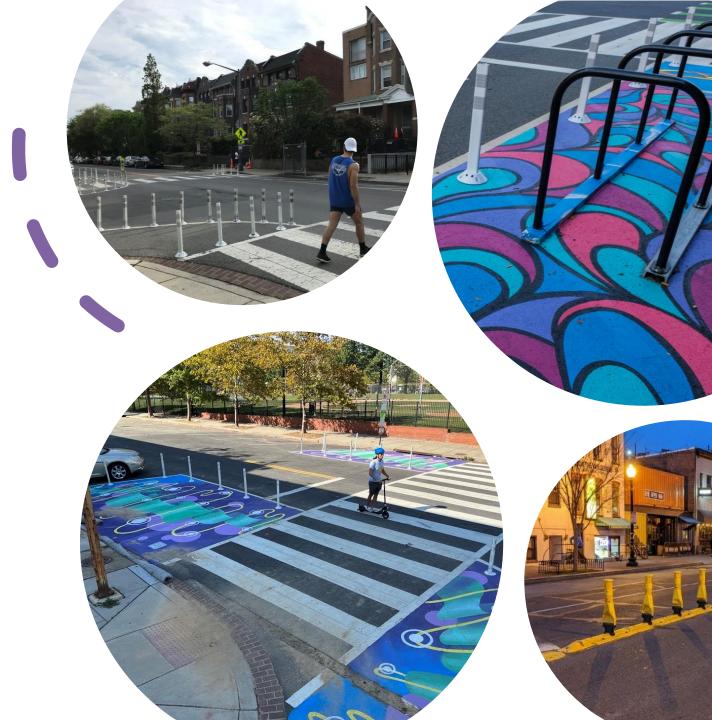
Expected Outcomes

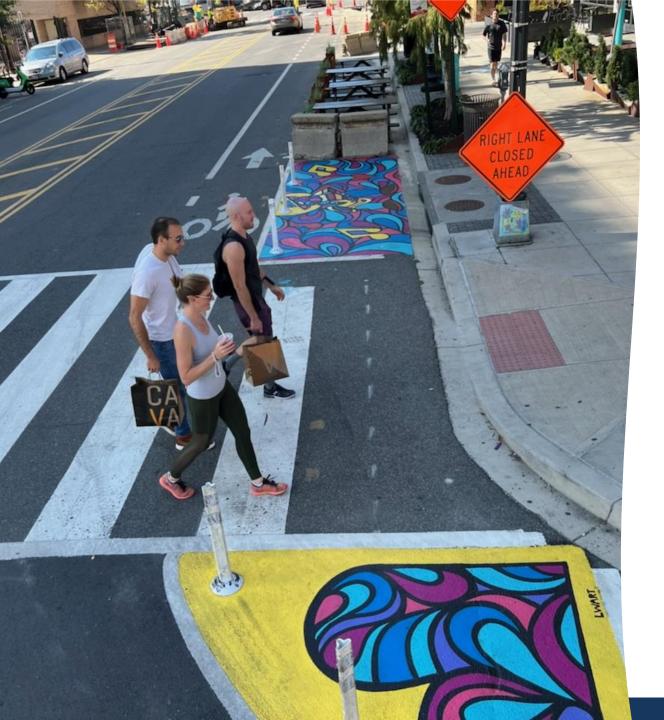
 Focus is on short-term, quick-build projects, that may include traffic calming and intersection safety enhancements.

40 short-term recommendations to be implemented within 3 years

10 of the 40 recommendations implemented during the study.

5 of the 10 immediate installations had murals installed.





Toolbox

- Key messaging for public engagement
- All recommendations were created to be tactical installations, though some will be implemented with more permanent materials
- Our tools consist of low-cost materials such as:
 - Flex posts
 - Paint
 - Modular Speed Bumps
 - Signage

Typical process:



3+ years from project recommendation to installation

Safety and Mobility Studies:



Recommendations installed quickly to realize the safety benefit while long-term planning continues.

How did DDOT decide to incorporate tactical installations in planning processes?

- Shift from long-term, vision-focused studies into implementation-focused planning
- Safety and Mobility Studies identify immediately implementable and concrete actions to increase safety and improve transportation connectivity and accessibility on neighborhoodserving streets
- These types of projects are meant to be responsive to immediate needs and can also test solutions that could be built out in a future project

15th and Church NW – Washington DC





New Hampshire and Newton NW – Washington DC









IMPLEMENTATION NOTES

INSTALL WHITE FLEXIPOSTS, SPACING SHALL TYPICALLY BE 5 FEET ON CENTER AND

INSTALL GREEN PAVEMENT PAINT AS INDICATED TO RELOCATE TWO-WAY BICYLCLE LANE APPROXIMATELY 6 FEET TO THE EAST. MAINTAIN 2 FOOT BUFFER BETWEEN NORTHBOUND

INSTALL 6 FOOT WIDE PEDESTRIAN WALKING SPACE USING TAN PAVEMENT PAINT ALONG

SEE DETAIL A, INSTALL THREE HELMETED BICYCLIST MARKINGS TO INDICATE THE ADVANCE

SEE DETAIL B. INSTALL HELMETED BICYCLIST MARKINGS AND DIRECTIONAL ARROWS.

F SEE DETAIL C. INSTALL PEDESTRIAN LANE PAVEMENT MARKING.

SEE DETAIL DI INSTALL ADVANCE YIELD LINE FOR BICYCLE LANE 5 FEET FROM CROSSWALK.

PROVIDE PARKING BOX FOR DIPLOMAT PARKING RESTRICTION.

RELOCATE EXISTING MUTCD R10-6A "STOP HERE ON RED" APPROXIMATELY 10 FEET TO THE

EXISTING PARKING SIGN ASSEMBLY TO REMAIN.

INSTALL WHITE FLEXIPOSTS, SPACING SHALL BE CENTERED ON HATCH MARKINGS WHEN PRESENT OR TYPICALLY BE 5 FEET ON CENTER AND OFFSET 6 INCHES FROM LANE LINES,

THE WEST OURB OF 15TH STREET NW.

BICYCLE BOX.

Ε

INSTALL MUT © R10-11 "NO TURN ON RED" SYMBOLIC SIGN

WHITE, 4" WIDTH

WHITE, 24" WIDTH, 24"S PACE

WHITE, 4" WIDTH, 5" SPACE WHITE, 6" WIDTH

WHITE 4" WIDTH, 2 LONG, 4' GAP

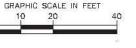


WHITE, 12" WIDTH

YELLOW, 4" WIDTH

WHITE RETROREFLECTIVE FLEXIPOST

PAVEMENT MARKING LEGEND





Kimley » Horn

TERSECTION MODIFICATIONS (1)

EUCLID STREET NW/ 15TH STREET NW

NEAR NW III SAFETY AND MOBILITY STUDY

EUCLID STREET NW





Incorporating Design



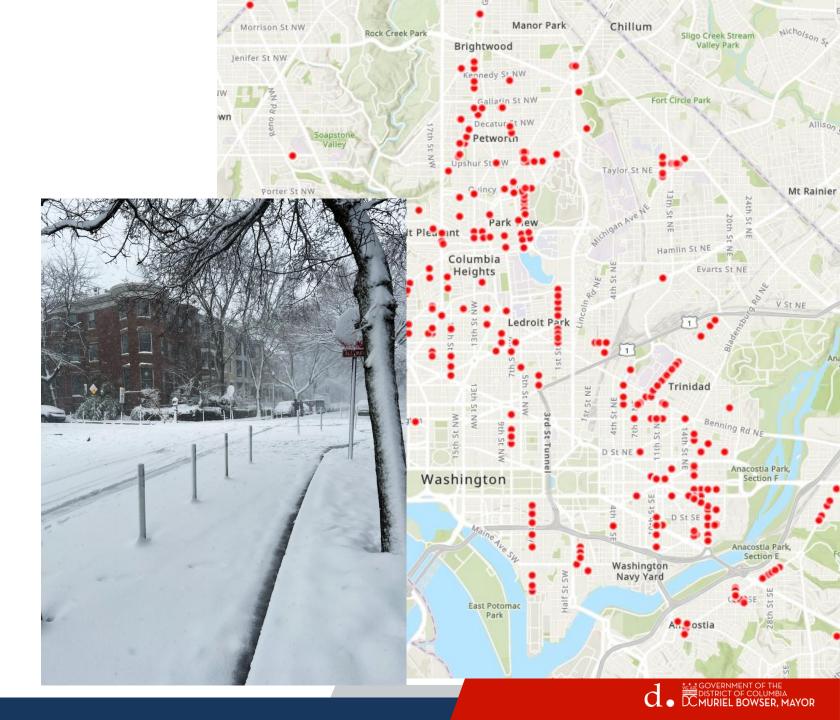


Vision Zero Hardening

Long-lasting Change

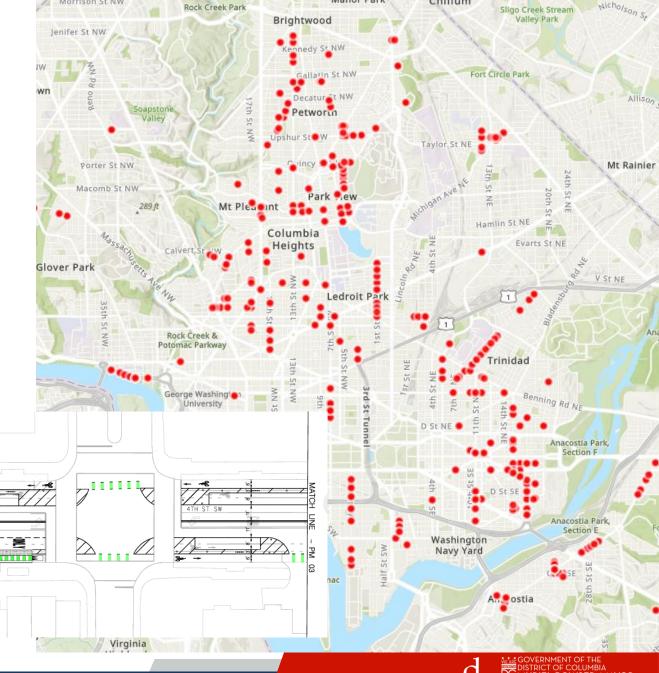
What Next?

- DDOT has installed over 400 tactical safety improvements in the last 5 years
- Process of upgrading has been focused on capital/large scale projects
- Increased maintenance costs

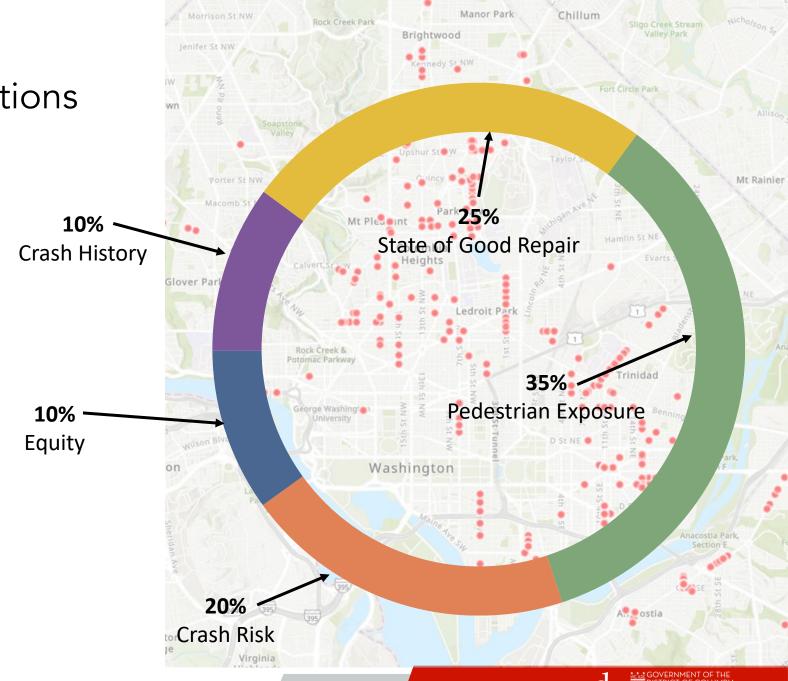


Vision Zero Hardening Program

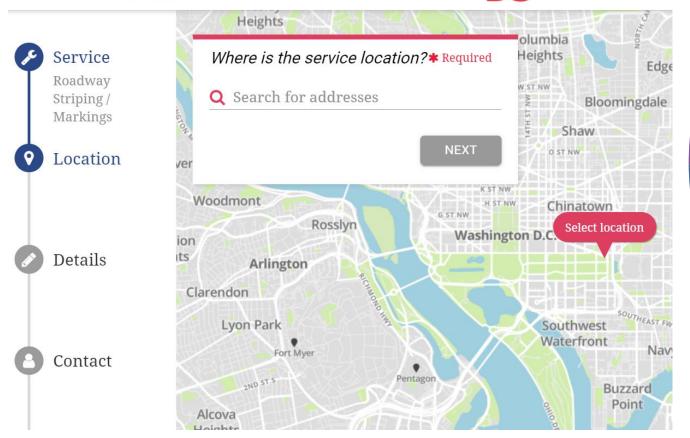
- TAP-funded study to identify and prioritize locations for upgrading tactical curb extensions to permanent
- Inventory existing locations from multiple DDOT programs and construction avenues

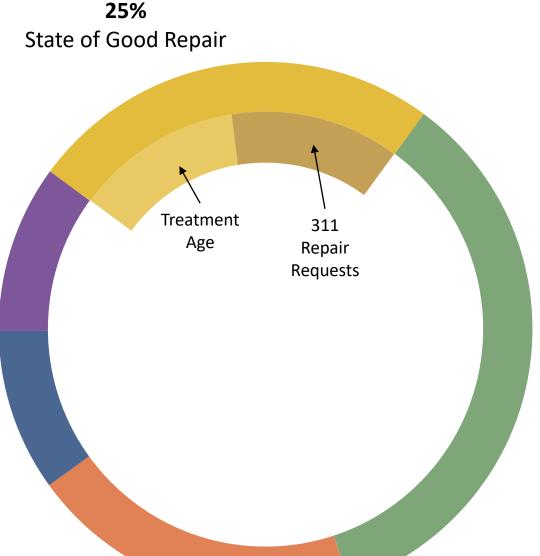


- Create a model that prioritizes locations for upgrading
- Emphasize data points that capture the benefits of permanent over tactical
- Develop agency consensus on prioritization methodology



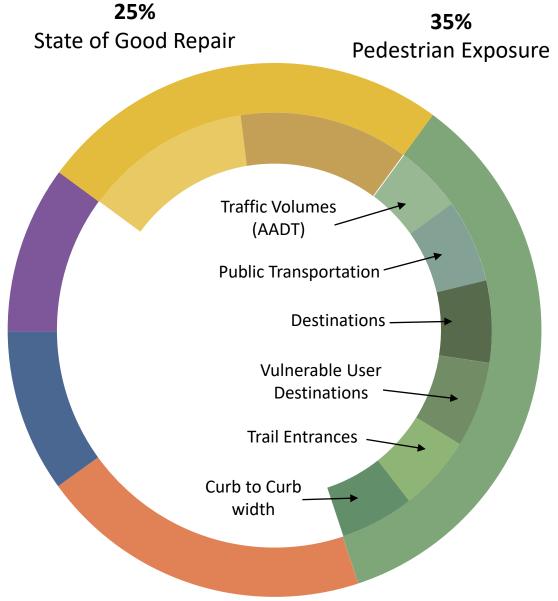
DISTRICT OF COLUMBIA 311



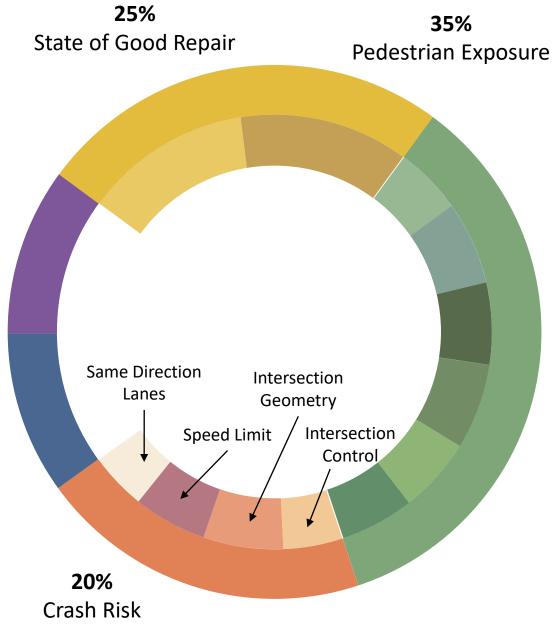


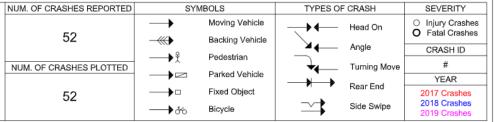


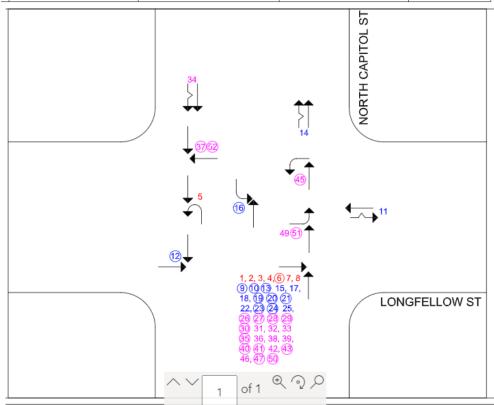


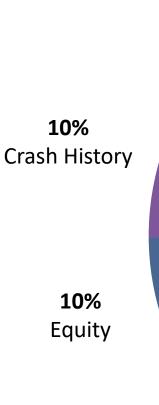


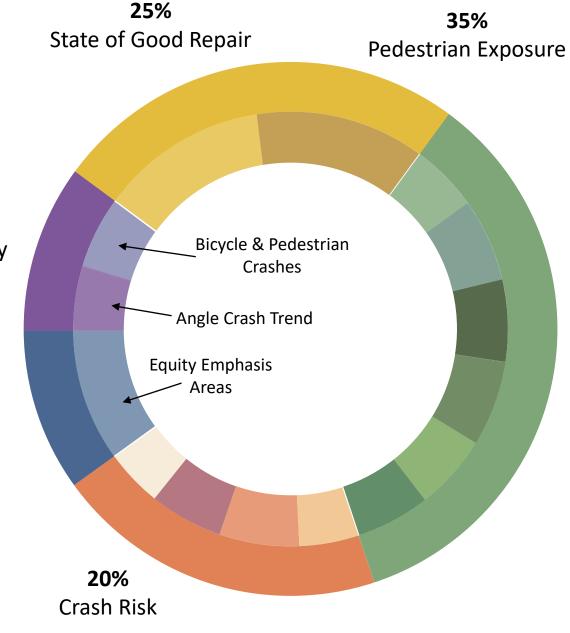


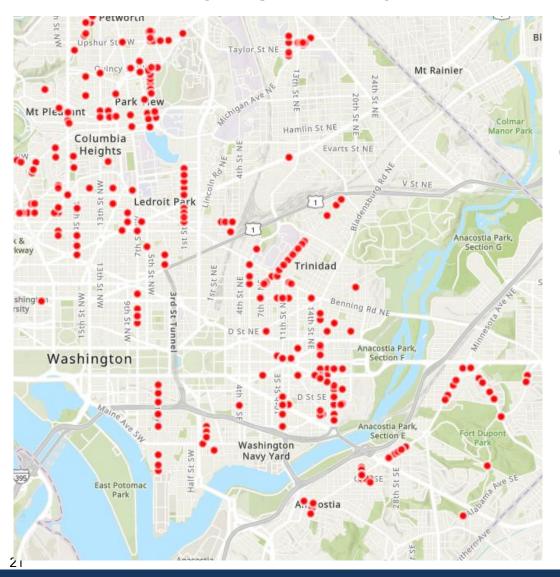


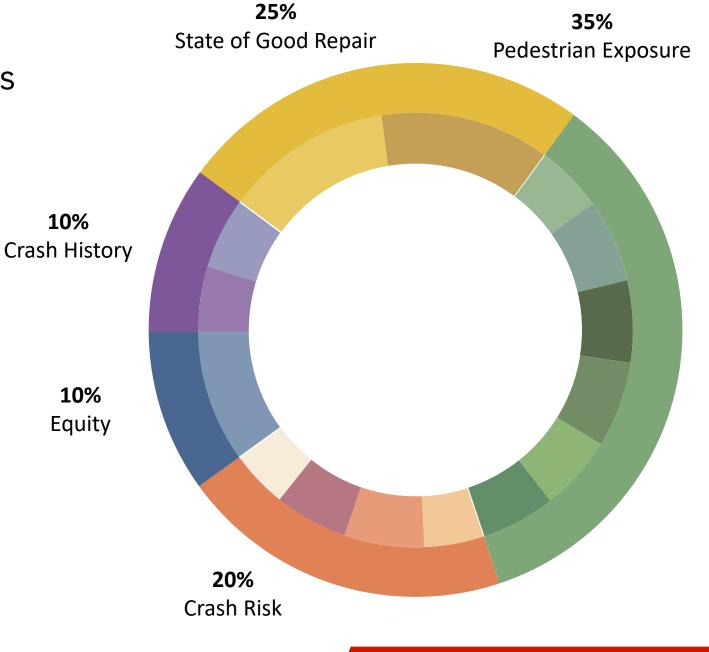






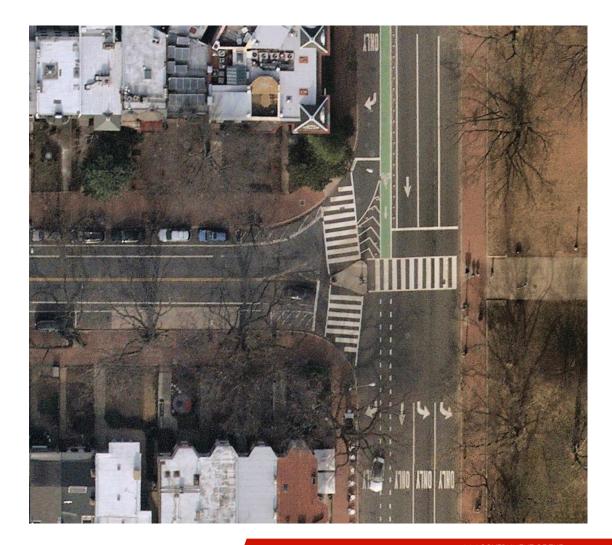






2023 Upgrading Location – 11th Street & East Capitol Street SE

- State of Good Repair
 - Portions installed beginning in 2009
 - 10+ 311 repair requests fulfilled in the past year
- Pedestrian Exposure
 - Main entrance to a national park
 - Within ¼ mile of multiple schools
 - Long crossing distance (45ft)
- Crash Risk
 - 3 lanes in one direction
- Equity
 - Not identified as a high need area
- Crash History
 - Right-hook trend

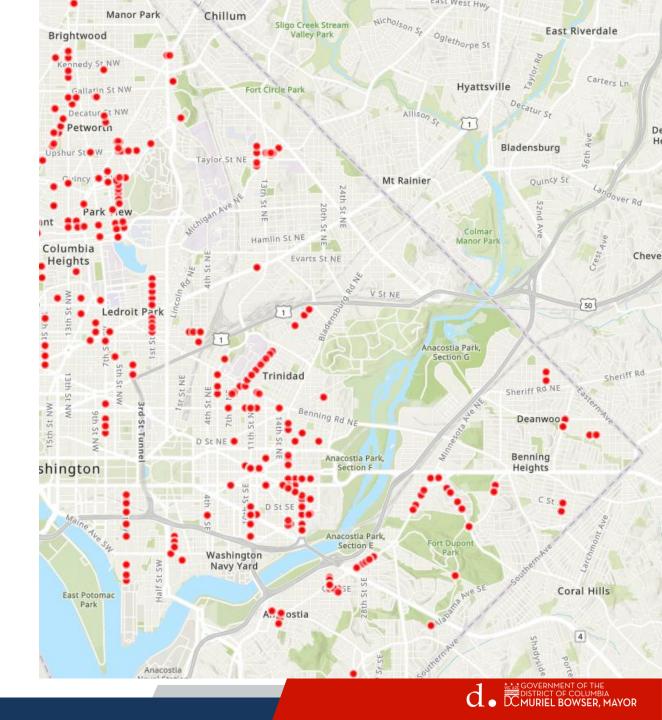


2023 Upgrading Location – 11th Street & East Capitol Street SE



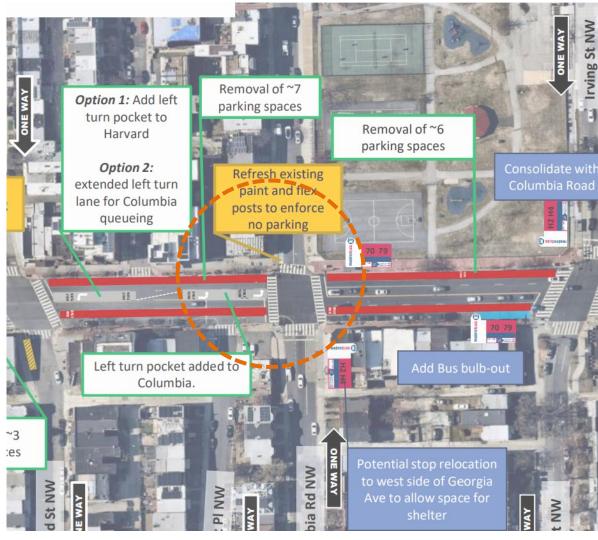
Feasibility

- Streamlining feasibility process to remove locations that are ...
 - Not feasible:
 - Future bus priority or protected bike lane
 - Feasible, but expensive:
 - Complex intersections or corridor
 - Relocation of storm drains or utility conflicts
 - Require signal hardware upgrades or relocation



Georgia Avenue & Columbia Street NW





Thank You!

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