

M A R Y L A N D



BICYCLE & PEDESTRIAN ADVISORY COMMITTEE

*Friday May 3, 2024
9:00-11:00 am ET*



Agenda

- I. Welcome & Roll Call
- II. Agenda Review and Approval of Minutes
- III. Annual Report Adoption
- IV. MDOT Project Update: Sidewalk Data Collaboration
- V. 2024 General Assembly Legislative Session Review
- VI. Old Business & Public Comment
- VII. MBPAC Subcommittee Reports
- VIII. Partner Agency Updates
- IX. Closing Reminders and Adjournment



III. MBPAC Annual Report

- January meeting - draft shared
- 4/11/2024 - Final draft emailed to Committee members
- Today – Any final thoughts & vote

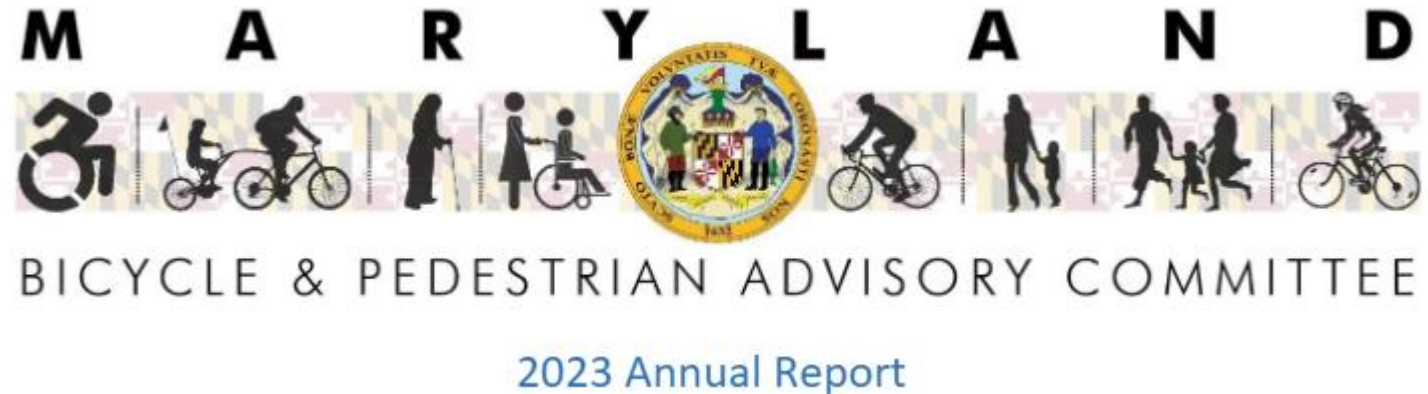


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THE MARYLAND SIDEWALK DATA COLLABORATION

Maryland Bicycle Pedestrian Advisory Committee
May 2024

Marshall Stevenson

OIT GIS Program Manager

Maryland State Highway Administration

MDOT
MARYLAND DEPARTMENT
OF TRANSPORTATION

INTRODUCTION

Everyone is a Pedestrian



PROJECT OVERVIEW



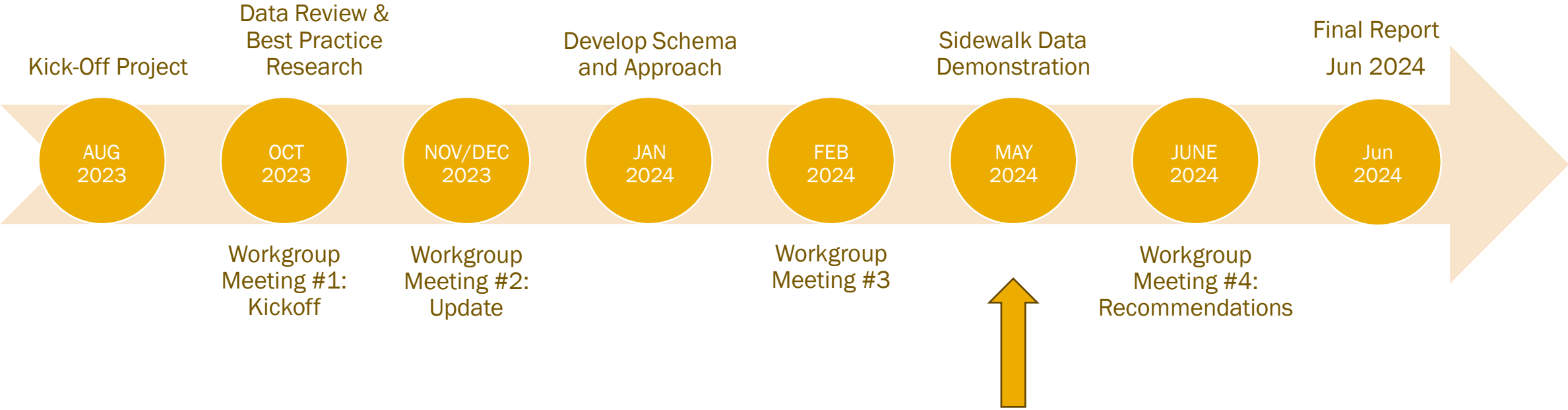
- The Maryland Department of Transportation's (MDOT) Environment and Sustainable Transportation Program **evaluated the feasibility of establishing a statewide sidewalk dataset** that would be conflated to One Maryland One Centerline (OMOC) data and maintained statewide.
- The purpose of this effort was to **review current data** collection practices to understand how various entities across the country are mapping sidewalks, and to **identify best practices** (locally and nationally).
- The project team **developed a methodology** and other recommendations for stakeholders to **build/maintain sidewalk data**.

PROJECT GOALS

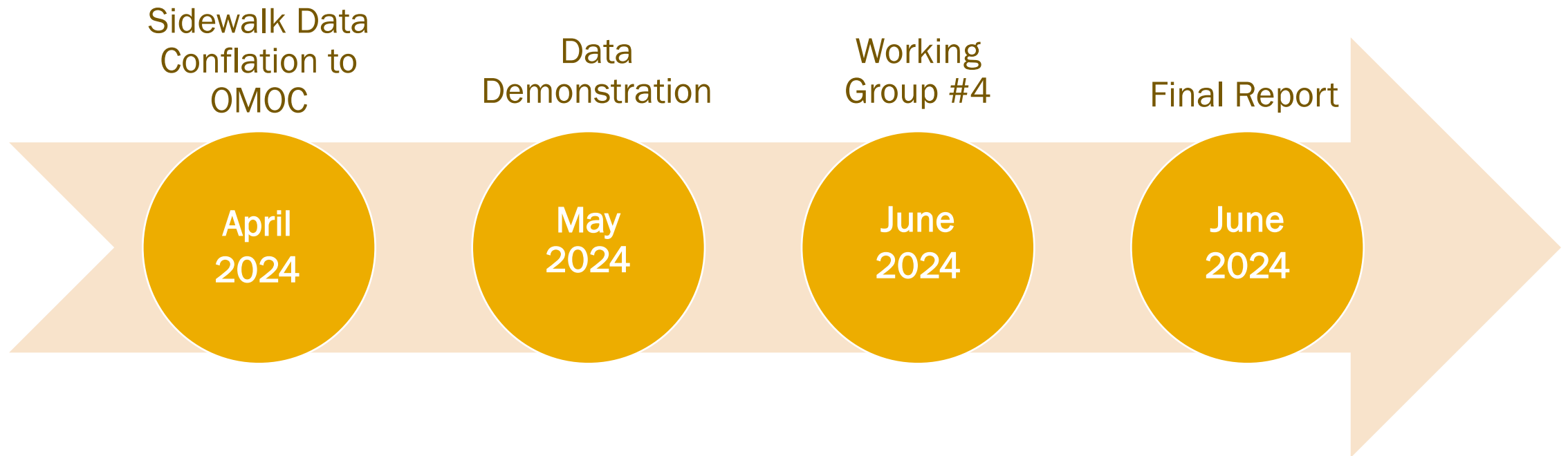
- Evaluate feasibility of a unified statewide sidewalk dataset
- Develop a schema for a practical statewide sidewalk dataset
- Demonstrate sidewalk data utility with case studies



PROJECT TIMELINE



DATA DEMONSTRATION TIMELINE



STATE OF THE PRACTICE

Existing Data, Best Practices, Data Schema



EXISTING JURISDICTIONAL DATA

- Data sources
 - Maryland Bicycle and Pedestrian Master Plan
 - Local counties and jurisdictions
- Data attributes
 - Varied between jurisdictions
 - Shape based or linear
- Data collection
 - Methodology varies greatly
 - Coverage of service area varies – denser in urban areas
 - Accuracy unknown; is it up to date? Has it been verified?

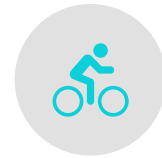
Why is this work important?

Pedestrian accessibility is critical in creating an equitable, accessible region.

Understanding the current sidewalk conditions at any given location in the State carries enormous implications for realizing and addressing ADA compliance, access gaps, and pedestrian safety.

STATE OF THE PRACTICE

- Methods currently being used to map sidewalks:



Open Sidewalks



University of Washington Schema



Sidewalk Tags



Artificial Intelligence



Crowd Sourced Data

SIDEWALK SCHEMA

Existing Data, Best Practices, Data Schema



GUIDING PRINCIPLES

1. The sidewalk data schema will be used to model general access and routability, but should not focus on complete precision.
2. The sidewalk data schema will provide a flexible framework to make it easy for jurisdictions to participate at varying levels, adding attributes and enriching data as additional resources are available.
3. The data collected through this schema will be conflated to OMOC and the outputs should be open-sourced and shareable to facilitate planning analysis.
4. The sidewalk data schema should not be exclusively street-centric but should allow for sidewalk facilities to be added where they are not directly adjacent or related to a street*.
5. The sidewalk data schema should be designed in a way to facilitate the derivation of a multi-modal routable analysis. For example, the schema should be designed in a way to be combined with OMOC's street and centerline data to extract a routable network for planning analysis.
6. The sidewalk data schema should be designed in a way to facilitate the derivation of various accessibility analysis. For example, attributes allowable in the schema should support future development of a Pedestrian Level of Comfort (PLOC), Pedestrian Accessibility Score (PAS), or an ADA assessment.

*Note that shared-use paths are accommodated elsewhere in the OMOC system.

SIDEWALK DEFINITION

- For purposes of this data schema, a "sidewalk" is defined as a portion of land adjacent to a road, property line, and/or easements of private property that is paved or improved for use by pedestrians. Key requirements for inclusion in this dataset include:
 - Paved with impervious surface or pervious asphalt. For example, a gravel path would not be allowable, but a path paved with cement or asphalt is allowable.
 - Adds value to the transportation network and is not solely for recreational purposed. For example, a sidewalk or path through a park is allowable if it provides a faster or more direct pedestrian connection between streets on either side of the park. A park trail which loops through a public space and provides no additional pedestrian connectivity is not allowed.

SCHEMA



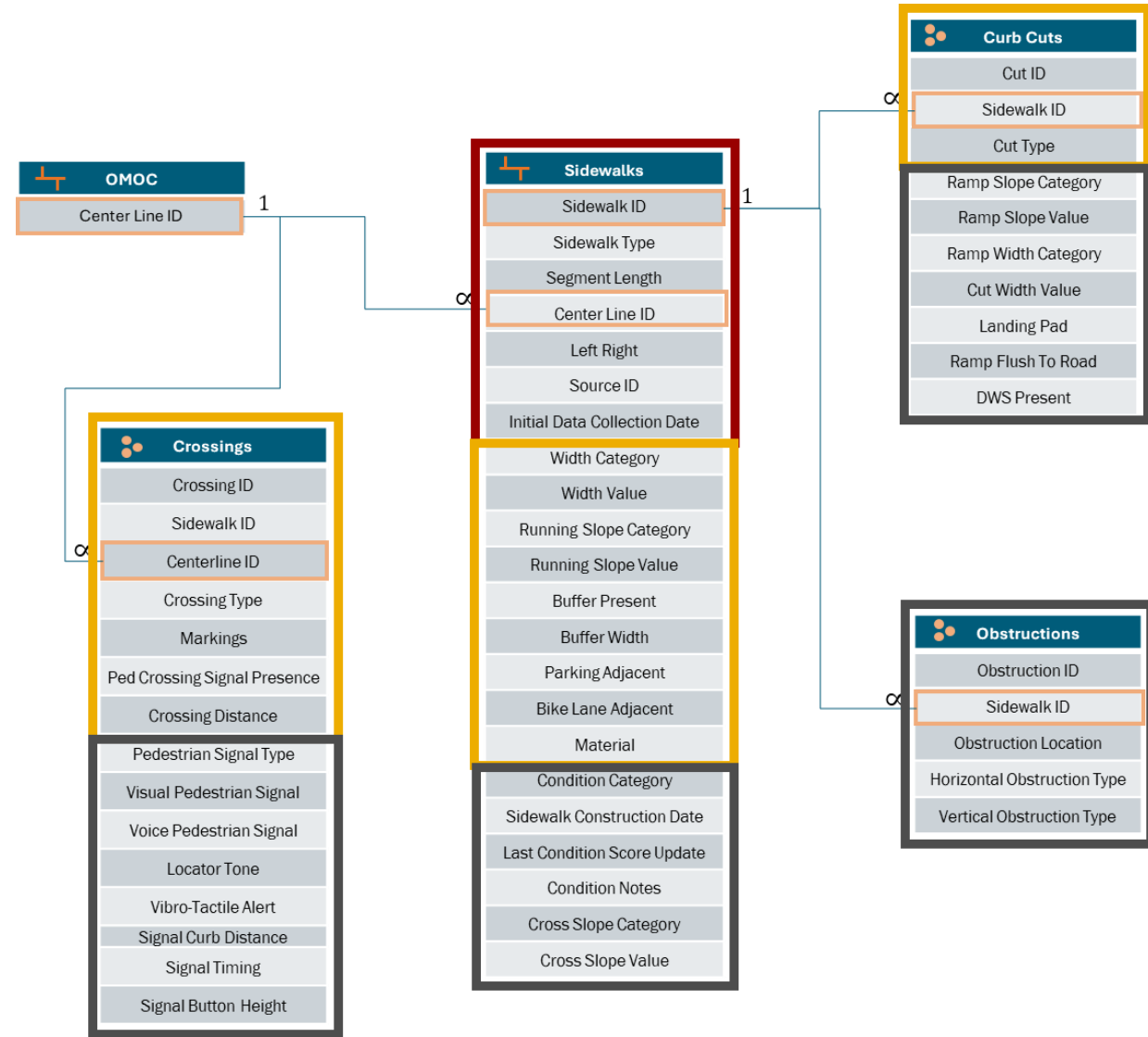
Tier 1: Core attributes (i.e., sidewalk presence)



Tier 2: Advanced routing attributes (e.g., curb cuts and crossings)



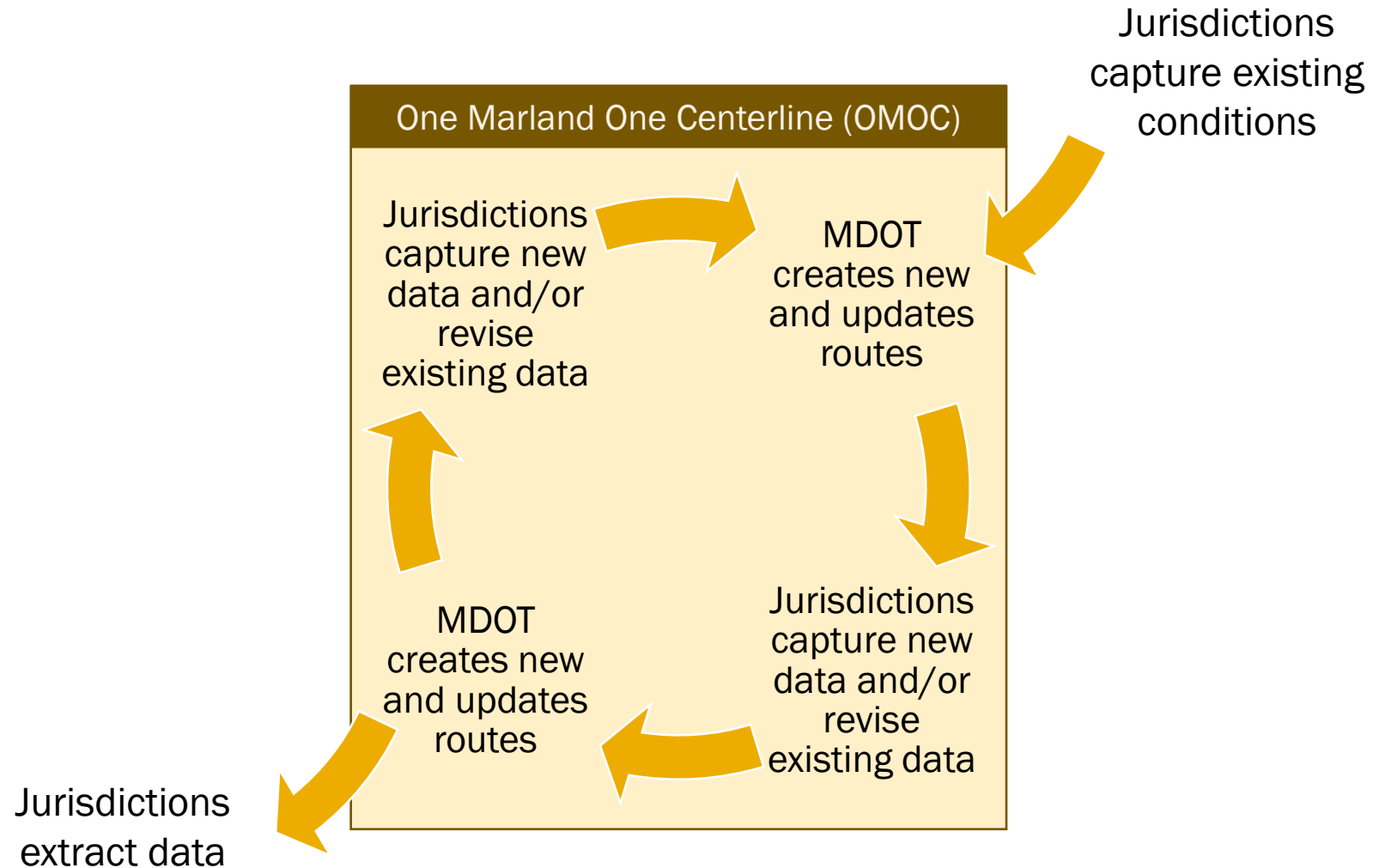
Tier 3: Accessibility attributes (i.e., ADA compliance)



DATA CYCLE

Why use tiers?

- **Scalability:** jurisdictions can start with core features and build upon it as funding allows
- **Customization:** places with fewer resources can add limited core features tailored to their jurisdiction



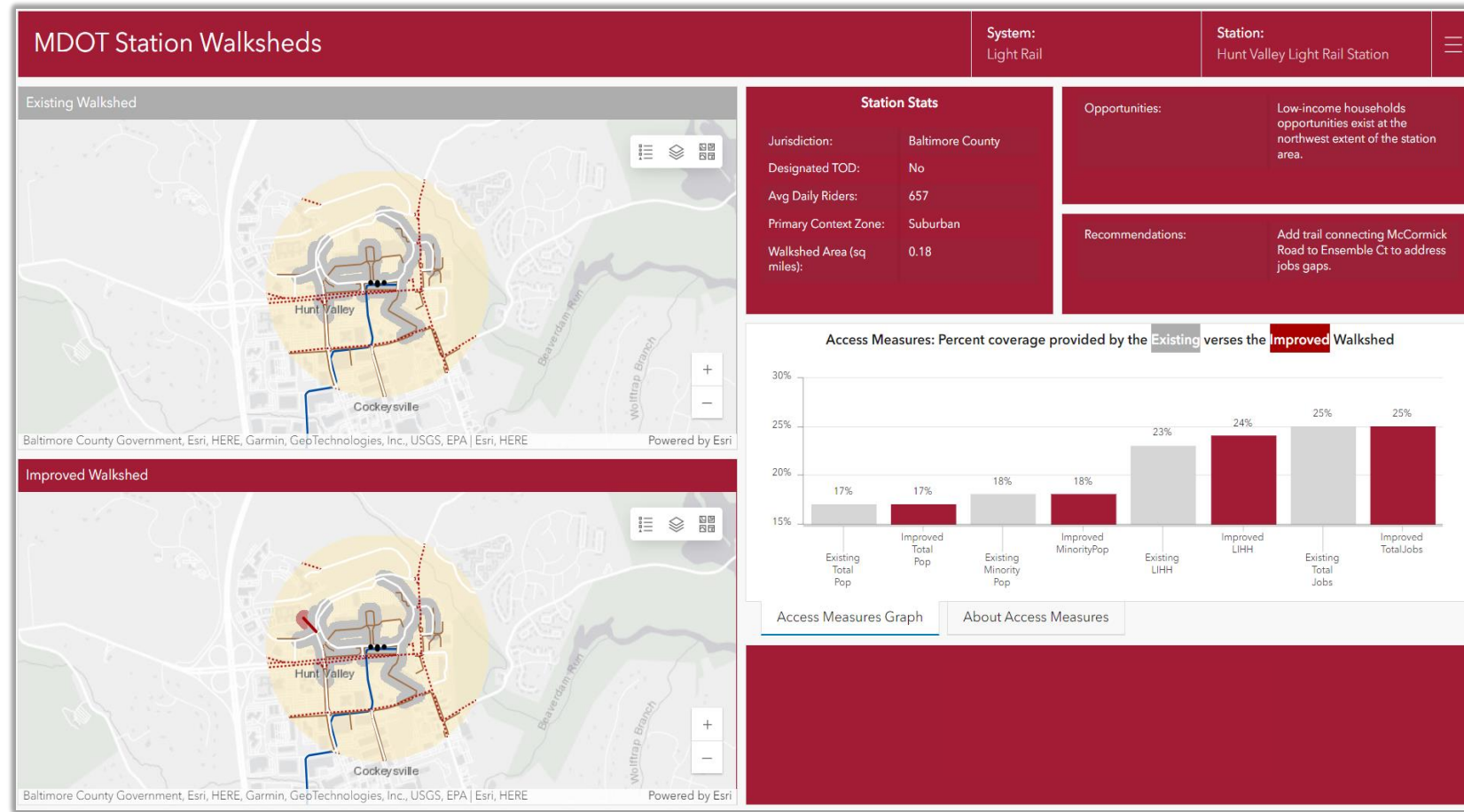
DEMONSTRATION

Applying the schema to network modeling



DATA DEMONSTRATION

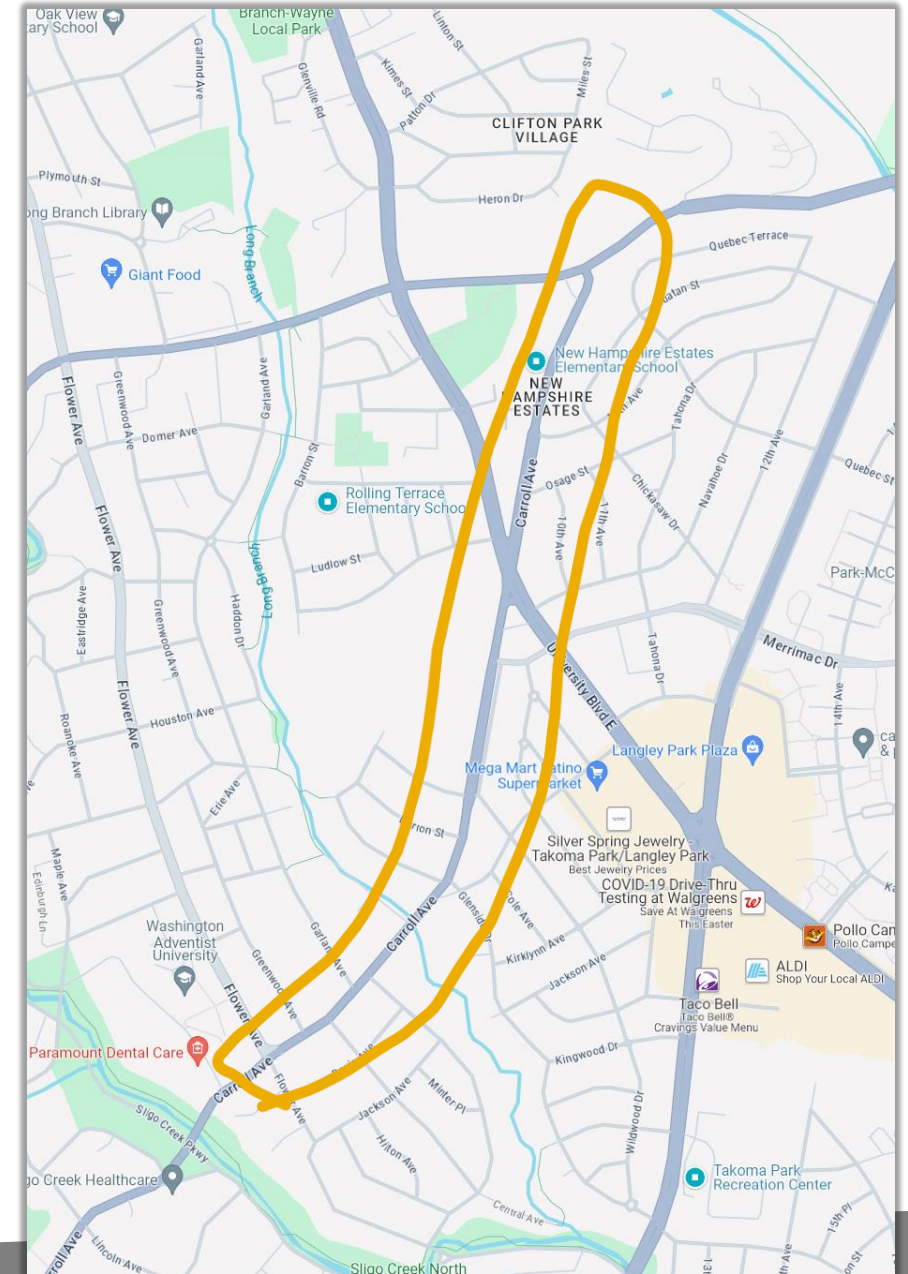
- Data aggregation
 - Montgomery County and Prince Georges County
 - Municipal and OSM data
- Test conflation with One Maryland, One Centerline
- Accessibility analyses
 - Demonstrate value of this work, as well as importance of higher-tier attributes



ACCESSIBILITY ANALYSIS

Maryland 195 (Carroll Ave) – Flower Ave. to Piney Branch Rd.

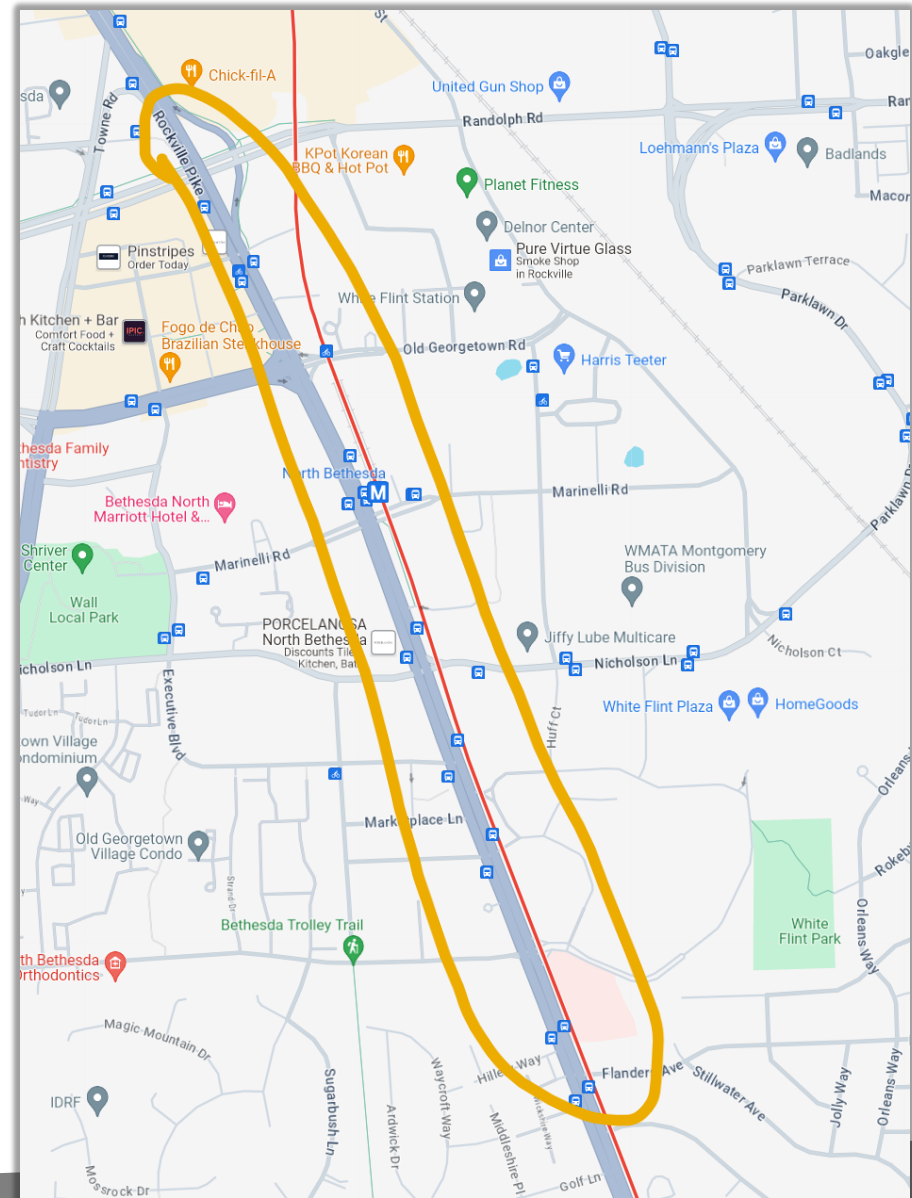
- Residential corridor with numerous schools and diverse pedestrian infrastructure sources
- Explore:
 - Existing populations with access to schools (e.g., New Hampshire Estates Elementary and Rolling Terrace Elementary)
 - Access improvements based on modeled network enhancements (i.e., new sidewalks)



ACCESSIBILITY ANALYSIS

Maryland 355 (Rockville Pike) – Flanders Ave. to Josiah Henson Pkwy.

- Transit-oriented development zone with numerous pedestrian injuries/fatalities
- Explore:
 - Existing populations with access to transit notes (e.g., North Bethesda Metrorail station and local bus stops)
 - Access improvements based on modeled network enhancements (i.e., new sidewalks)



NEXT STEPS

- Complete sidewalk data demonstration
- Host final working group meeting
- Develop final report, highlighting:
 - Criticality of inventorying sidewalks throughout the state
 - Recommended schema
 - Future directions for this work

SIDEWALK DATA COLLABORATION TEAM: THANK YOU

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V. 2024 General Assembly:

Legislative Session Review

- Bills which passed the legislature
- Bills which did not pass
- Schedule for 2025 Session

VI. Old Business & Public Comment

- Old Business
- Emails to MBPAC Inbox
- Public Comment (5 min max)
 - Mike Evans – Purple Line
 - Others?

VI. Old Business & Public Comment

- Public Events coming up

- May 4 – Howard County – Bike Around Town Day
- May 4 – Montgomery County - Sligo Creek Fest (parkways project)
- May 8 – Bike to School Day
- May 11 - Montgomery County – Safety Day
- May 13-17 - Bike to Work Week – Central Maryland
 - Events across the state
- May 14 - Baltimore County Public Library Randallstown Branch – Hosting “Street Project” film
- May 15 – Annapolis – National Ride of Silence
- May 17 – Bike to Work Day - Metro DC and Central Maryland
 - Events across the state
- June 15 – Baltimore BYKE Collective – Crankmasters, wheelie and safety event

FREE EVENT

BIKE TO WORK DAY FRIDAY MAY 17, 2024



50 YEARS 1974-2024
COMMUTER CONNECTIONS.
A SMARTER WAY TO WORK

WABA
WASHINGTON AREA
BIKEIST ASSOCIATION

GO Alex

ICF

Bike Arlington

TERRAPIN BICYCLES

AL's

BIKE SPACE

AASHIO

NATIONAL LANSING

capital bikeshare

goDCgo

MDOT
MARYLAND DEPARTMENT
OF TRANSPORTATION

VDOT

Giant

AMERICAN COLLEGE OF CARDIOLOGY

FAIR LAKES

Handy Bikes

HANDY BIKES

VISION ZERO

VISION ZERO
SAFER. SMOOTHER. GREENER.

See Alert Safe

BIKES@VIENNA

Working from Home? No Problem!
Bike to Your Local Pit Stop on May 17th for Your
FREE T-SHIRT* & BIKE RAFFLE

REGISTER TODAY AT
BikeToWorkMetroDC.org

Free refreshments & giveaways at
participating locations, while supplies last.



Visit biketoworkmetrodc.org for pit stop locations and times.
*T-shirts available at pit stops to first 16,000 registrants.
Pit stops in D.C., Maryland, and Virginia!

The Bike to Work Day event is a program of the
Metropolitan Washington Council of Governments
and is funded by DDOT, MDOT, VDOT, and USDOT.

Register for free at
BIKETOWORKMETRODC.ORG
800.745.7433

#BTWD2024

ANNE ARUNDEL • BALTIMORE CITY & COUNTY • CARROLL • HARFORD • HOWARD • QUEEN ANNES



2024

CENTRAL MARYLAND

BIKE TO WORK

Monday, May 13 - Sunday, May 19, 2024

T-Shirt pick-up & events around the region!



Live Events
refreshments, prizes & more
at select locations.



REGISTER FOR FREE



T-Shirts
at participating bike shops &
pit stops throughout the region

Register for free at BikeToWorkMD.com

Thank you sponsors!

DTC
PARTNERSHIP

dot
DEPARTMENT OF TRANSPORTATION
BALTIMORE CITY

go
HOWARD

CLEAN AIR
PARTNERS
DC/MD/VA

RTA

CARROLL
Crew

GoSmart
— MARYLAND —

MDOT
MARYLAND DEPARTMENT
OF TRANSPORTATION

HCPOnline.org

JOE'S
BIKE SHOP

SPIN

Columbia
Association

THE
MCO



*Registrants can pick up event t-shirts at participating locations. Limited supply available. First come, first served.

BALTIMORE
METROPOLITAN
COUNCIL

VII. Subcommittee Reports

- Eastern Shore Subcommittee
- Pedestrian Subcommittee
- *Legislative Subcommittee – covered in legislative review*
- *Trails Subcommittee- recruiting members*

VIII. Agency Updates

- MARYLAND DEPARTMENT OF HEALTH
- MARYLAND STATE POLICE
- DEPARTMENT OF COMMERCE
- MARYLAND DEPARTMENT OF PLANNING
- MARYLAND STATE DEPARTMENT OF EDUCATION
- MARYLAND DEPARTMENT OF NATURAL RESOURCES
- MARYLAND DEPARTMENT OF DISABILITIES
- MARYLAND NATIONAL PARK AND PLANNING COMMISSION

VIII. Agency Updates

- MARYLAND DEPARTMENT OF TRANSPORTATION
 - TAP and Rec Trails grant portal open through May 15, 2024
 - Bikeways Grant portal open through May 31, 2024
 - Bike to Work Week events
 - Thursday May 16 - MTA Penn Station 7-9am
 - Friday May 17 - SHA 707 N Calvert 7-9am
 - Friday May 17 – SHA Hanover, along the BWI trail – 8am – 12 noon
 - Coming Soon:
 - Complete Streets Policy – announcements in May
 - WALKTOBER 2024 – announcements in July