Bicycle and Pedestrian Counts

Presentation to BPAG

May 19, 2021

COUNT TECHNOLOGY

- **Existing**
  - Active crowdsourcing
  - Micro-mobility
  - Manual counts
  - Continuous counts
  - Short duration counts

- **Emerging**
  - Passive crowdsourcing
  - Video analytics
  - Connected vehicles

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WHY COUNT?

- Inform prioritization of bike/ped improvements

- Begin determining baseline bike/ped volumes

- Leverage the use of emerging technologies

- Assist in the selection of continuous count locations

- Contribute to statewide bike/ped count database

- Track before/after volumes in locations with improvements

- Determine user type (commuter, recreational, mix)

- Document increase/decrease of users on a facility over time

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DEVELOPING A COUNT PROGRAM

- **Existing and Historic Counts**
  - What data has already been collected?
  - Where was it collected?
  - How was it collected?

- **Determine Purpose of Data Collection**
  - What is the purpose of collecting bicycle and pedestrian counts
  - What kinds of data are required to meet planning, policy, or programmatic needs?

- **Site Selection**
  - Develop with program goals in mind
  - Exploratory or linked with specific research questions
    - Cyclical or targeted counts

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EXISTING AND HISTORIC COUNTS

- **Short Duration Counts**
  - MDOT SHA and BMC Turning Movement Counts
    - Vehicle volume and bike/ped volume
  - MDOT SHA Special Project Counts
    - Vehicle volume and bike/ped volume

- **Continuous Counts**
  - Anne Arundel, Department of Recreation and Parks
    - BWI Trail at Dixon Park (inactive – equipment under repair)
    - Jonas Green Park
    - Earleigh Heights Ranger Station
    - WB&A Trail at Patuxent Road
    - South Shore Trail at Hansel Drive

- **Additional Counts in the Region?**

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Proposed Count Locations
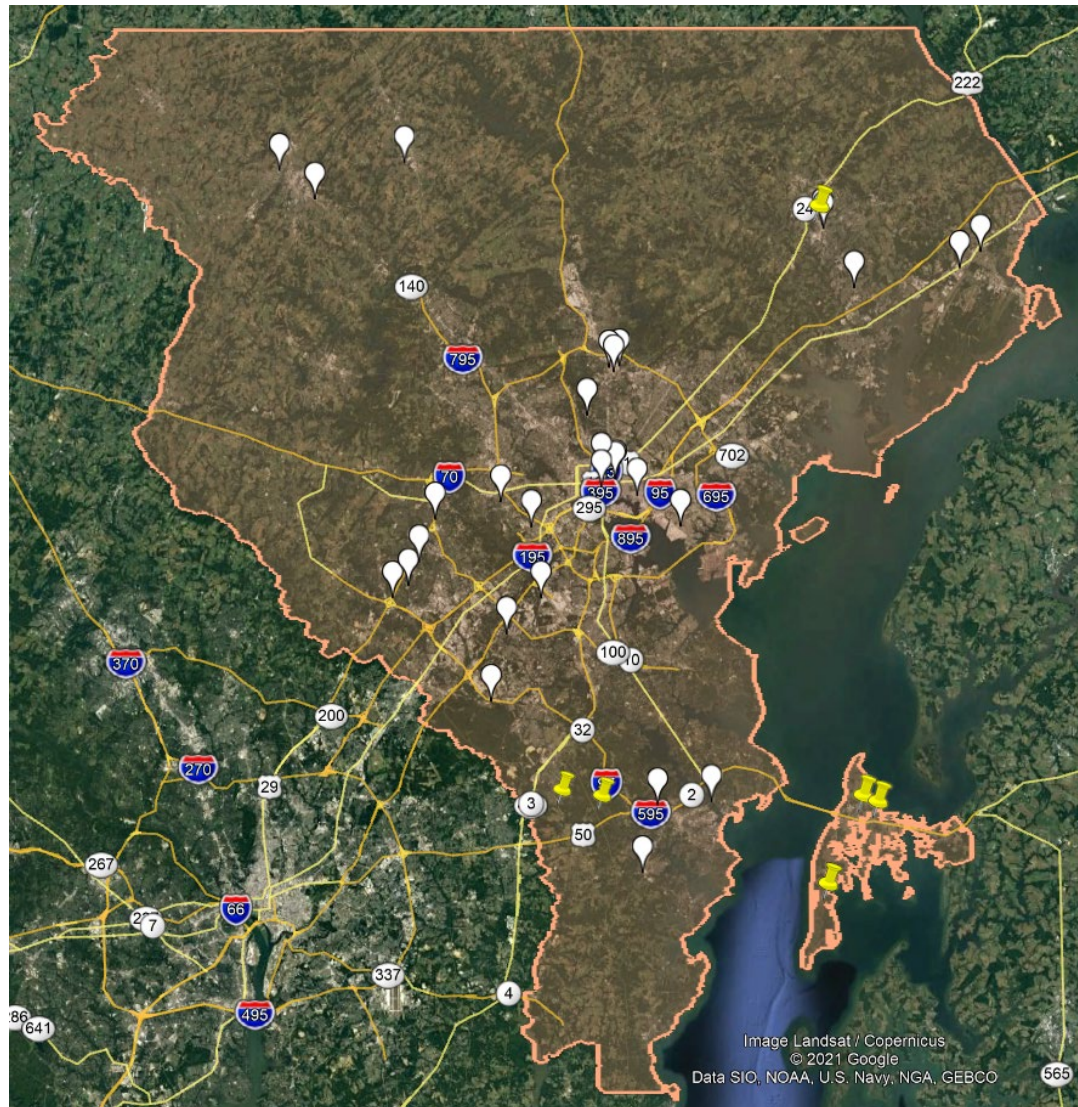
SHORT DURATION COUNT TYPES

- **Cyclical Counts**
  - Conducted annually or biannually
  - Potential uses:
    - Determine user type (commuter, recreational, mix)
    - Track increase in volume over years
    - Assist in the selection of continuous count locations

- **Targeted Counts**
  - Conducted before/after an infrastructure improvement to determine changes in volume and other travel patterns
  - Potential infrastructure improvements:
    - Installation of a bike lane
    - New trail segment connected to existing trail
    - Implementation of safety improvements

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Feedback Needed

- Bike/Ped Count Goals
  - What is the purpose of collecting bicycle and pedestrian counts for your jurisdiction?
  - What kinds of data does your jurisdiction need to meet planning, policy, or programmatic needs?

- Cyclical Counts
  Annual or biannual
  - Choose six sites
  - Prioritize

- Targeted Counts
  Before/after an infrastructure improvement
  - Choose six sites
  - Prioritize

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Next Steps

- Jurisdictions submit proposed count locations by June 16

- BMC QC and analyze proposed count locations

- BMC meet with consultant to discuss count scenarios

- BPAG Bike/Ped Counts Work Group meeting, week of June 21

- Consultant conducts initial bike/ped counts, Sept – Oct

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For More Information

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