# BALTIMORE CITY DEPARTMENT OF TRANSPORTATION CURRENT AND FUTURE CRASH DATA APPLICATIONS



#### AGENDA

- I. Current Project Prioritization
- II. SS4A Projects
  - a) Overview
  - b) Developing the High Injury Roadway Network
  - c) Public health evaluation
- III. Conclusion and Questions



## CURRENT PRIORITIZATION PROCESSES





Brandon M. Scott Mayor

### DRAFT HIGH INJURY ROADWAY NETWORK, 2022

- Crash data 2019 2021
- Road segments available in non-uniform intervals
- Only uses major roads
- Traffic Injury Index Score
  - Crash frequency, severity level, pedestrian, bicycle





### DRAFT HIGH INJURY LOCAL ROADWAY NETWORK, 2022

- Crash data 2019 2021
- Using the same methodology as the Traffic Injury Index Score, but on local neighborhood streets only
- Different scale and color code





### DRAFT HIGH INJURY ROADWAY NETWORK, 2022

- Applications:
  - Selecting corridor and intersection projects
  - Neighborhood traffic calming needs analysis
  - Prioritizing 311 requests applying the Traffic Injury Index Score at the neighborhood level







# SS4A PROJECTS





Brandon M. Scott Mayor

#### OVERVIEW OF SS4A

BCDOT won \$1.005M from the USDOT Safe Streets for All program to create a Safety Action Plan in early 2023!

#### Problems:

- Existing safety plans are mostly philosophical
- Crash data is the only safety metric
- Measurement and evaluation of infrastructure
- Lack of partnerships on safety



#### OVERVIEW OF SS4A

#### Problems:

- Existing safety plans are mostly philosophical
- Crash data is the only safety metric
- Measurement and evaluation of infrastructure
- Lack of partnerships on safety

- Let's make a prioritized list of specific
  projects
- Let's collect more safety data and come up with ways of using it to identify and evaluate projects
  - Let's collect infrastructure data so we can perform safety analyses
  - Let's explicitly link transportation safety issues to public health issues to bring more people to the table



#### **OVERVIEW OF SS4A**





#### \$1.3M plan, with \$1M from SS4A



### DEVELOPING THE NEW HIGH INJURY ROADWAY NETWORK





### DEVELOPING THE HIGH INJURY ROADWAY NETWORK (CONT'D)

Safety and Infrastructure Data

- Partnering with the University of Maryland
- Collecting new citywide safety and short trip data
- Examine and clean existing public data sources





Internet Traffic Monitoring System (ITMS)







# VISIONZERO ARLINGTON COUNTY

#### **Activity Instructions**

- Locate your transportation safety issue: Click and drag your cursor to pan the map, and use the scroll (+/-) button to the left to zoom in and out.
- Select your feedback type: Click "Add to the Map!" in the blue bar and choose a category from the options provided.
- 3) Add it to the map: Click once to drop a point on the map. If you want, you can tell us more in a comment.
- 4) Click 'Submit'.
- 5) You can also click on comments that others have made, and indicate whether you agree or disagree.

#### Arlington Vision Zero About & Help Add to the Map!





### DEVELOPING THE HIGH INJURY ROADWAY NETWORK (CONT'D)

- Partnering with Morgan State University
- Crash frequency predictive models
- Evaluating safety benefits of existing infrastructure



### PUBLIC HEALTH EVALUATION

- The order in which the HIN is implemented, and the types of treatments used, will be based on equity need pertaining to health.
- BCDOT is partnering with Johns Hopkins University to conduct Health Impact Assessments of the City's HIN.
- This will result in a recommended order for treatment implementation and guidance on interventions to meet the needs of adjacent populations.
- Example metrics:
  - Vulnerable populations' (children, elderly, ill) exposure to risk
  - Access to health-supportive resources and jobs
  - Chronic disease
  - Noise pollution
  - Air pollution
  - Stress
  - Physical activity





## THANK YOU AND QUESTIONS





Brandon M. Scott Mayor

Contact: <u>Shayna.rose@baltimorecity.gov</u>