PEDESTRIAN SAFETY in Maryland



STATE HIGHWAY ADMINISTRATION

Greg Slater

Administrator November 13, 2018

OVERVIEW

The Last 2 Years

What Does the Data Tell Us?

What are We Doing?

Where to Start?

Moving Forward - Partnership



THE LAST 2 YEARS

A NEW MDOT - SHA

NODERNIZATIO

MOMMUNICATIO

BUSTOMER EXPERIENCE





PEDESTRIAN SAFETY Updated Approaches

NOT A ONE SIZE FITS ALL APPROACH

BOLD, NEW STRATEGIES

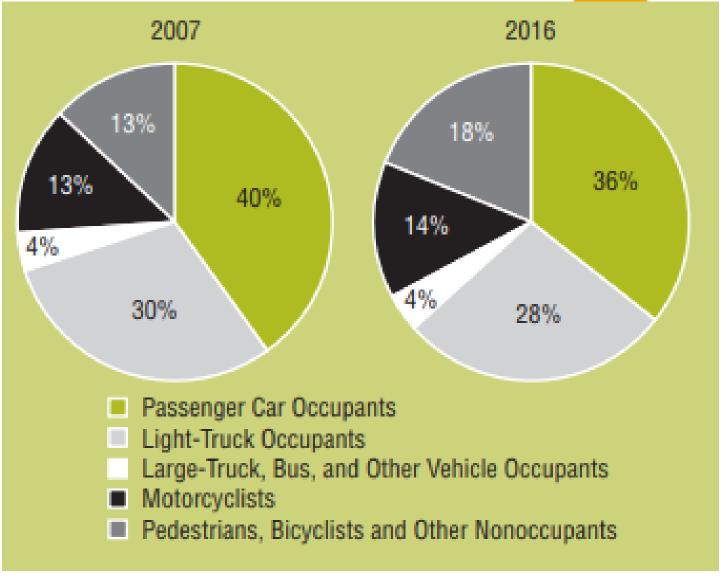
PRIORITIZING PEDESTRIAN SAFETY - CONTEXT DRIVEN

- HAWK Pedestrian Signal
- Reducing Lane Widths
- Reducing Speed Limits
- Revamped Pedestrian Roadway Safety Audit Program (PRSA)
- RRFB Rectangular Rapid Flashing Beacons
- Developing Urban Standards

WHAT IS THE DATA TELLING US?

PEDESTRIAN CRASH NATIONAL TRENDS

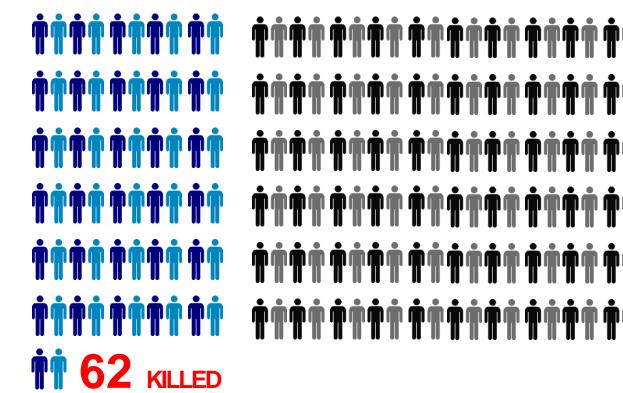
- Nationally pedestrian fatalities increased by 492 (a 9.0-percent increase) between 2015 and 2016, and are at their highest number since 1990.
- Nationwide 15 pedestrians are killed and 185 are injured in crashes every day*.



Source: FARS 2007 Final File, 2016 ARF

2018 PEDESTRIAN CRASHES -

Statewide



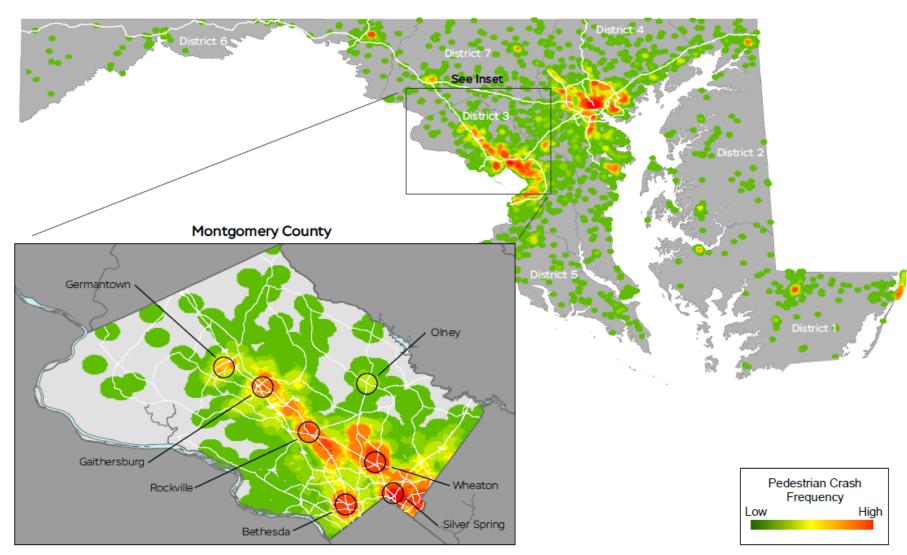




Statewide Pedestrian Crashes

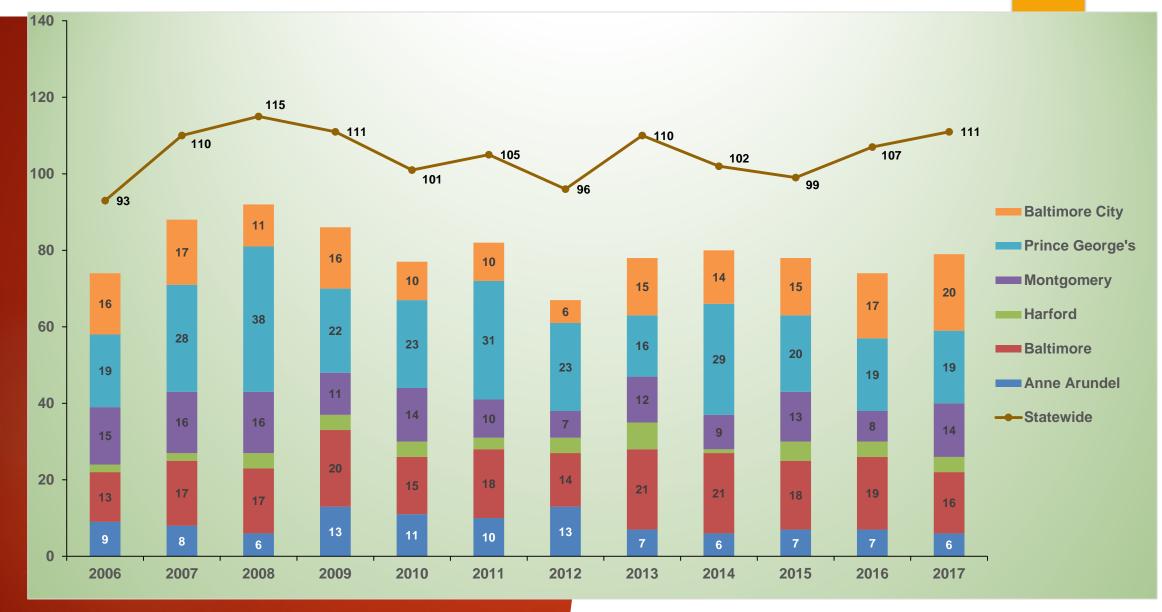
Data for 2013 - 2017





Pedestria
n Crashes
Statewide &
Montgomery
County

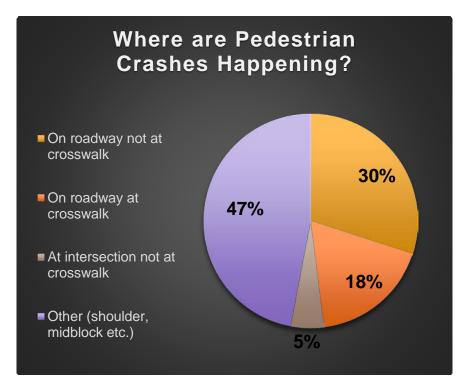
Updated: 11/7/18



Maryland Fatal Pedestrian Crashes 2006-2017

CRASH DATA TRENDS & PEDESTRIAN RISK FACTORS

- ▶ 30 percent of all crashes happen at intersections.
- ▶ 35 percent of all crashes happen between the hours of 3 pm and 7 pm.
- Speed is a major factor in crash survivability for pedestrians.
 - At speeds higher than 40 mph there is 77 percent likelihood of fatality or severe injury.





WHAT ARE WE DOING?

DATA DRIVEN APPROACH

DATA - ROOT CAUSE

where, how, when and why crashes are occurring.

CONTEXT - DEMOGRAPHIC & LAND USE DATA

who and where are our roadway users.

INFRASTRUCTURE

the state of our roadway, bus stops, lighting.

TARGET

Targeted and comprehensive pedestrian safety solutions

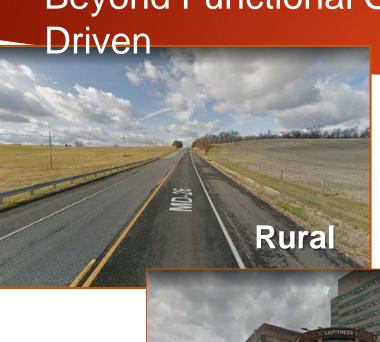




ADMINISTRATION

NEW URBAN STANDARD DESIGN

Beyond Functional Classifications – Land Use & User



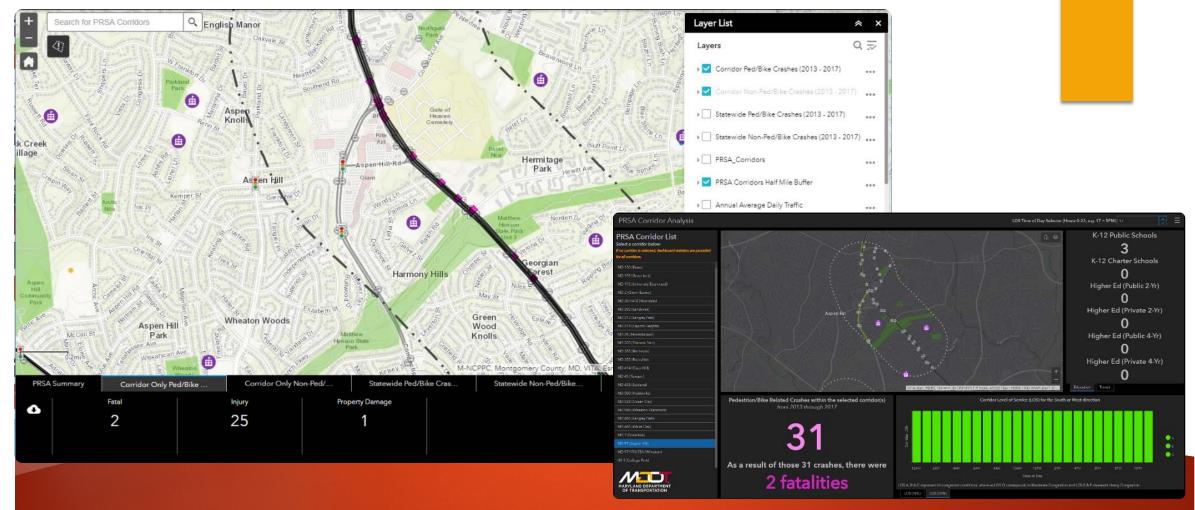












NEW TOOLS FOR DESIGNERS:

PCAT – Pedestrian Crash Analysis Tool PRSA Dashboard – MD 97 in Aspen Hill

TAKING EVERY OPPORTUNITY

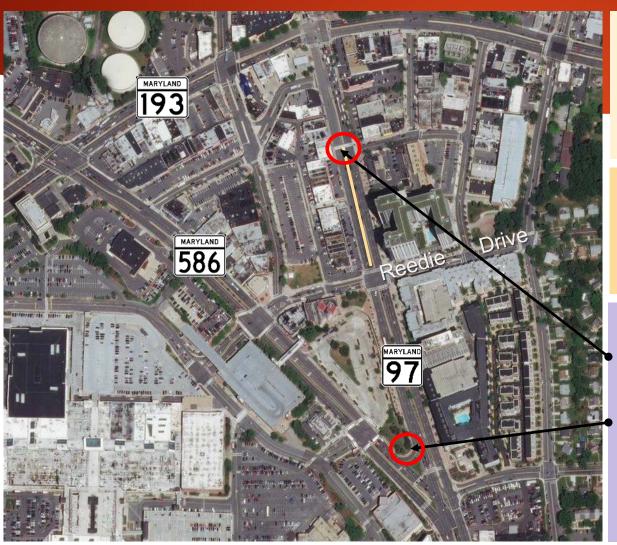
Implementation Strategies

- Short Term
 Lane Use, Width, Traffic Control, Striping,
 Lower Speed Limits in CBDs
- Mid Term
 Minor Geometric Fixes
- Long Term
 Major Projects, Realignment



WHERE TO START?

IMPROVEMENTS TO MD 97 - Wheaton



Short Term Projects

Remark & Upgrade All Crosswalks in Central Business District (CBD)

Ped Recall at All Signals in CBD

Curb Markers

Mid Term Projects

Median Fence between Reedie Drive and Price Avenue

Lead Pedestrian Interval at Reedie Drive

Long Term Options

Ped Signal Study at Price Avenue

Increase Intersection Lighting

Pedestrian Access Improvement Study near the intersection of MD 586 and Prichard Road

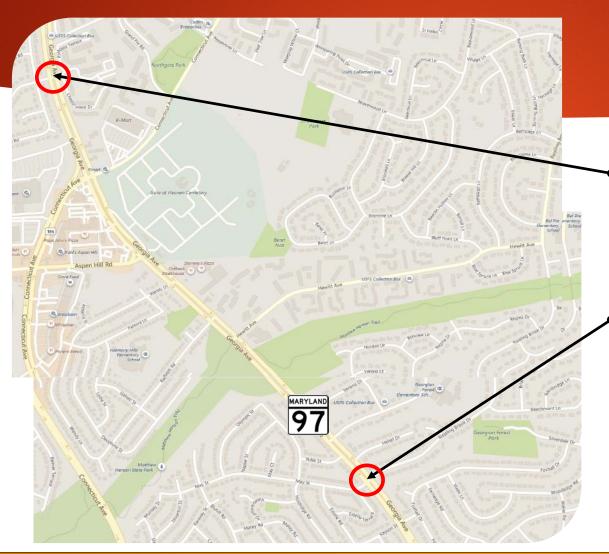
Evaluate Bus Stop Locations with MCDOT

Redesign for Pedestrian Focus





IMPROVEMENTS TO MD 97 – Aspen Hill



Short Term Projects

Remark & Upgrade All Crosswalks and Stop-Bars

Review and Adjust Ped Timing

New Signal at MD 97 and Heathfield w/ APS/CPS and crosswalks – Installed by December 2018.

Mid Term Projects

New Signal at MD 97 at May Street/ Rippling Brook w/ APS/CPS and crosswalks – Installed by Summer 2019.

MARYLAND 97

Long Term Options

Lane Width Reduction

New Intersection Lighting As Needed

Redesign for Pedestrian Focus



MOVING FORWARD - PARTNERSHIP

PARTNERSHIP

Education & Enforcement

- **EDUCATION CAMPAIGN**
- ENFORCEMENT
- DESIGNING FOR PEDESTRIANS





CORRIDOR APPROACH

- Revamped pedestrian safety audit identify corridors (approximately 1 mile).
- Selected corridor considers:
 - Land use characteristics and pedestrian generators
 - Severity of crashes, fatalities, crash patterns, frequency of severe crashes, ratio of severe crashes to overall crashes, district priority list
- Re-evaluated all PRSA corridors.
- Streamlined PRSA process.
- Focused process on implementation.





Thank you.

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