

## **Presentation Outline**

- History and Development
- Operation
- Status and Effectiveness
- Working Towards the Future



## **Program Development – Why AWZSE?**

#### PENNSYLVANIA WORK ZONE CRASH STATISTICS 2012-2018

Work Zone Crashes



2% annual increase since 2012

2018 - 1804

Speeding Concerns



39% of all work zones crashes involve speeding 2018 – 47%

Fatal Work Zone Crashes



Remained stagnant since 2012

2018 - 23

Work Zone Crash Location



57% occur within the activity area

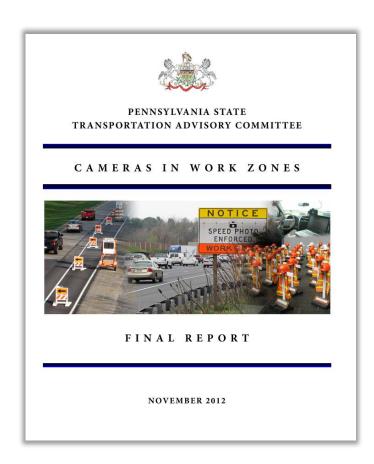
Law Enforcement in Work Zones



82% of crashes occur when NOT present



# **Program Development - History**



•November 2012 – TAC Report

•June 2015 – First Bill Introduced (SB 840)

•October 2018 – Act 86 Authorizes Five- Year Pilot Program

Strong Advocacy and Support





## **Program Development - Legislative Highlights**



- •Five-Year Pilot Program on PennDOT (Federal-Aid) and PTC Highways
- •11 MPH over Posted Speed Limit Threshold
- •Civil Penalties Fine-Carrying and Appealed Violations Reviewed by PSP
- Tiered Penalty Structure
- Defined Contest and Appeals Processes



## **Program Development – Public Perception**

#### **Typical Arguments Against ASE**

- Revenue Generating Program
- Speed Limits Artificially Reduced To Encourage Speeding
- Insufficient Warning Of Entering An ASE Zone
- Speed Measuring Devices Inaccurate/Not Properly Tested
- ASE Vendors Operate With Little Oversight
- Violators Have No Opportunity To Appeal
- Violation Of Privacy; "Big Brother"

#### Why PA's Program is Different

- System Administrator Paid Flat Fee Per Deployment
- Statewide Work Zone Speed Limit Policy
- •Two Advance Warning Signs and Locations Posted On Website
- Daily Equipment Testing/Annual Calibration
- •PennDOT/PTC Oversee Program, PSP Reviews Fine Carrying Violations
- •Two-step Appeal Process (Informal Hearing And Magisterial)
- Image Destruction Requirements





## PROGRAM DEVELOPMENT – KEY DATES



• FEBRUARY 16, 2024 – FIVE YEAR PILOT PERIOD ENDS





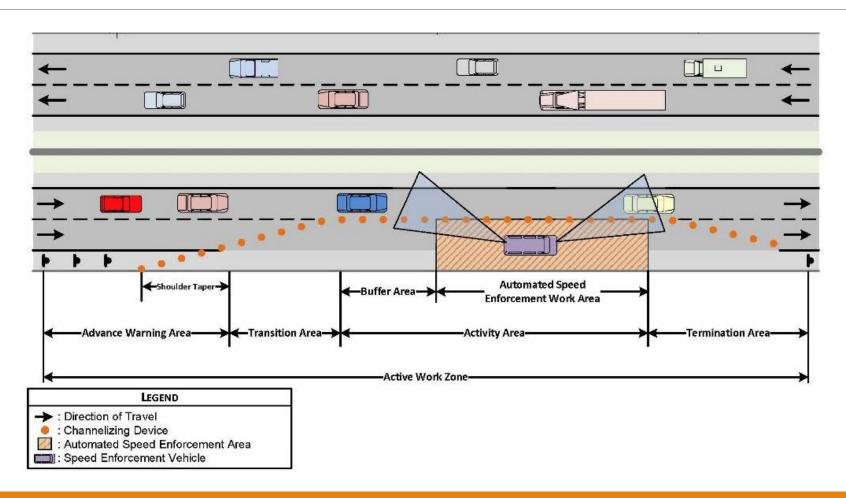
# **Operation – Program Goals**

- •Reduce Speeds in Work Zones
- Improve Driver Behavior
- Save Worker and Traveler Lives
- Complement Existing Enforcement by PA State Police
- Promote Work Zone Safety





# **Operation – AWZSE Deployment Location**







## **Operation – General Information**

- •17 Units per Day
  - o 10 for PennDOT Roadways
  - o7 for Turnpike Roadways
- Eight-Hour Deployment Shift
- Up to Two Shifts Daily
  - Day Shift
  - Night Shift
- Support Weekday and Weekend Work Activity

- Workers MUST be Present
- Two Advance Warning Signs
- Notice at Location and on Website
- Speed Limit Signs Appropriately Placed
- End Road Work/Work Zone Signs







## **Operation – Agency Roles and Responsibilities**



- **Scheduling and Monitoring** (State Highways)
- **Fiscal Processes and Auditing**
- **Regulations and Standards Development**
- **Hearing Officers**





- **Scheduling and Monitoring** (Commission Highways)
- ✓ Auditing and Vendor **Contract Compliance**
- **Standards Development**



- **Violation Review and Affirmation**
- **Field Speed and Quality Control Testing**





## **Operation – Contracted Services**

#### PROGRAM ADMINISTRATOR

- ✓ Project Selection/ Scheduling
- ✓ Field & Back Office QA/QC
- ✓ Operational Compliance and Process Updates
- ✓ Program Outreach
- ✓ Performance Monitoring and Reporting
- ✓ Technical / Admin Support

#### **SYSTEM ADMINISTRATOR**

- ✓ Field Unit Deployment
- ✓ Violation Review, Collection, Mailing and Disbursement
- ✓ Customer Service & Record Keeping
- ✓ Informal Hearing Support
- ✓ Annual Certifications





# **Operation – Penalty Structure**

Element	Rule
First Violation	No Monetary Fine
Second Violation	\$75 fine
Third+ Violation	\$150 Fine
Late Fees	Up to \$75 if not paid within 90 days of mailing
Contest	Must be filed within 30 days of Mailing
Violation Type	Civil – no points, no merit rating change



## **PROGRAM STATUS**

#### PROGRAM STATS

- **8,700+ DEPLOYMENTS**
- 1,000,000+ **VIOLATIONS ISSUED**
- 16.1% REPEAT RATE

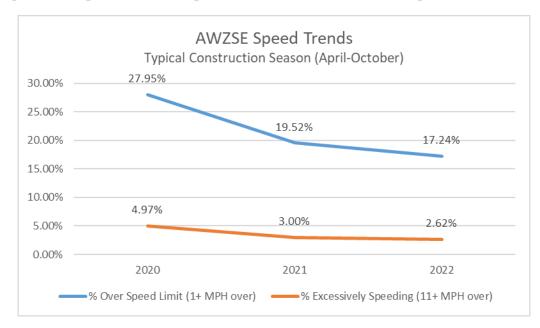
	DEPLOYMENTS	FIRST VIOLATIONS (\$0)	SECOND VIOLATIONS (\$75)	THIRD/SUBSEQUENT VIOLATIONS (\$150)	TOTAL VIOLATIONS ISSUED	REPEAT RATE
2020 TOTAL	2,084	191,595	19,226	8,409	219,230	12.61%
2021 TOTAL	3,302	359,697	45,967	19,119	424,783	15.32%
<b>2022 TOTAL</b>	3,482	362,195	57,114	25,458	444,767	18.57%
PROGRAM TOTAL	8,868	913,487	122,307	52,986	1,088,780	16.10%



### PROGRAM EFFECTIVENESS

#### THE AWZSE PROGRAM HAS REDUCED SPEEDS WHEN DEPLOYED

- PERCENT OVER SPEED LIMIT
- PERCENT EXCESSIVELY SPEEDING (11+ MPH OVER SPEED LIMIT)
- SPEEDS HAVE BEEN HIGHER IN BARRIER PROTECTED WORK ZONES THAN IN UNPROTECTED WORK ZONES



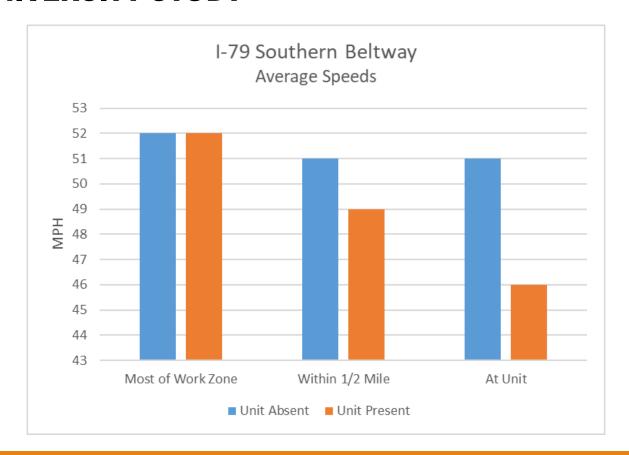
- 75% OF ALL DEPLOYMENTS HAVE BEEN TO CHANNELIZED WORK ZONES
- % OF TRAFFIC OVER SPEED LIMIT AND % EXCESSIVELY SPEEDING IS TWICE AS HIGH IN BARRIER WORK ZONES





## **PROGRAM EFFECTIVENESS**

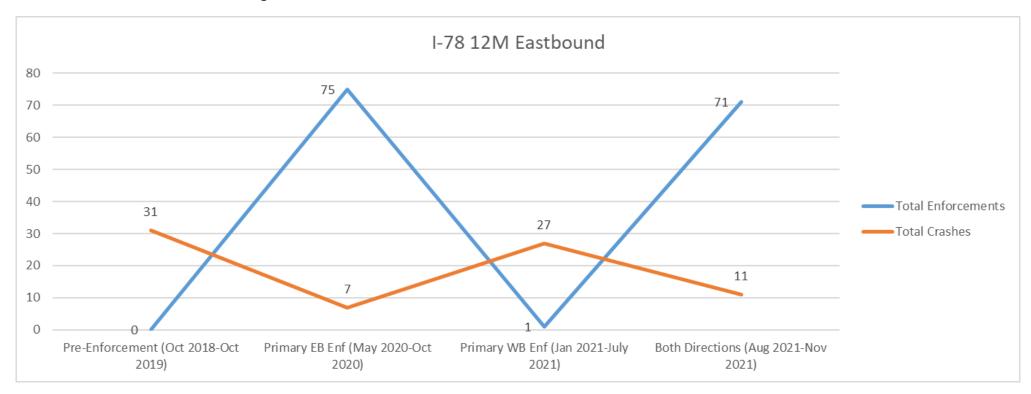
- THE AWZSE PROGRAM HAS REDUCED SPEEDS WHEN DEPLOYED
  - PURDUE UNIVERSITY STUDY





### PROGRAM EFFECTIVENESS

- THE AWZSE PROGRAM HAS REDUCED CRASHES WHEN DEPLOYED
  - PRIMARILY STUDIED FOR LONG-TERM BARRIER PROTECTED WORK ZONES
  - INCREASED FREQUENCY OF ENFORCEMENTS RESULTS IN LOWER CRASHES







### **WORKING TOWARDS THE FUTURE**

- ELIMINATION OF SUNSET DATE
- REMOVAL OF "NOT ACTIVE" REQUIREMENT
- WITHHOLD REGISTRATION RENEWALS FOR NON-PAYMENT
- ALLOWANCE OF ENFORCEMENT IN SPECIFIC INACTIVE WORK ZONES



### **WORKING TOWARDS THE FUTURE**

FINANCIAL PENALTY ON FIRST VIOLATION

- CLARIFICATION OF ADVANCE SIGNING REQUIREMENTS
- VIRTUAL INFORMAL HEARINGS
- RESPONSIBLE PARTY FOR LEASED VEHICLES



### PROGRAM RESOURCES

### **Program Website**

https://workzonecameras.penndot.gov/

### **Purdue University Study**

https://www.mdpi.com/1424-8220/22/8/2885/htm

### **Legislative Annual Reports**

https://workzonecameras.penndot.gov/about/

#### 2021 -

https://workzonecameras.penndot.gov/download/pennsy lvanias-awzse-2021-annual-report/?wpdmdl=412&masterkey=6086a7a1df992

#### 2022 -

https://workzonecameras.penndot.gov/download/pennsy lvanias-awzse-2022-annual-report/?wpdmdl=480&masterkey=D\_d0b7Lt1eZPuxiimAbl E0aCTEV4UUpu09HjbetVxwu8Ch5IIrP0xzlkeL2OuAaVL37Fbc4Y\_wsqNSrdDXW7vRPxnwvjFw6NaUqJAcyn42E





Brian Crossley
Manager, Temporary Traffic Control Unit,
PennDOT's Bureau of Operations
bcrossley@pa.gov
717-265-7562

Chad Smith, P.E., PTOE Senior Engineer Project Manager, Pennsylvania Turnpike Commission chsmith@paturnpike.com 717-831-7287