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
• 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 – General Information

• 17 Units per Day  
  o 10 for PennDOT Roadways  
  o 7 for Turnpike Roadways  
• Eight-Hour Deployment Shift  
• Up to Two Shifts Daily  
  o Day Shift  
  o 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

<table>
<thead>
<tr>
<th>Element</th>
<th>Rule</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Violation</td>
<td>No Monetary Fine</td>
</tr>
<tr>
<td>Second Violation</td>
<td>$75 fine</td>
</tr>
<tr>
<td>Third+ Violation</td>
<td>$150 Fine</td>
</tr>
<tr>
<td>Late Fees</td>
<td>Up to $75 if not paid within 90 days of mailing</td>
</tr>
<tr>
<td>Contest</td>
<td>Must be filed within 30 days of Mailing</td>
</tr>
<tr>
<td>Violation Type</td>
<td>Civil – no points, no merit rating change</td>
</tr>
</tbody>
</table>
# PROGRAM STATUS

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

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

![I-79 Southern Beltway Average Speeds Chart]

- Most of Work Zone
- Within 1/2 Mile
- At Unit

**Unit Absent**  **Unit Present**
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
• 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 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/pennsylvania-awzse-2021-annual-report/?wpdmdl=412&masterkey=6086a7a1df992

2022 –
https://workzonecameras.penndot.gov/download/pennsylvania-awzse-2022-annual-report/?wpdmdl=480&masterkey=D_d0b7Lt1eZPuxiimAbIE0aCTEV4UUpu09HjbetVxwu8Ch5IrPOxzIkeL20uAaVL37Fbc4Y_wsqNSrdDXW7vRPxnwvjFw6NaUqJAcy42E