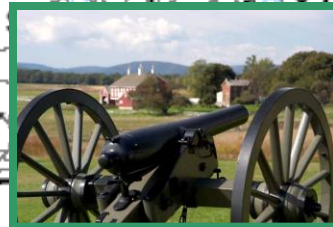
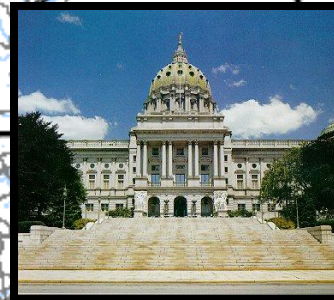


# DISTRICT 8 ASHE PRESENTATION

## APRIL 7, 2009



# PennDOT District 8

## Harrisburg Area Intelligent Transportation System (ITS)

**Traffic Management  
Center  
2008 - 2009**

## District 8

### ITS Field Devices

- 23 - Center Mount Message Boards
- 11 - Overhead Message Boards
- 16 – Semi-Portable Message Boards
- 46 – Closed Circuit TV (CCTV) locations
- 14 – Highway Advisory Radio's (HAR)
- 21 – Highway Advisory Radio Signs

## 15/581 Project

- One additional overhead message board

## I-83 Improvements Project

- One additional overhead message board

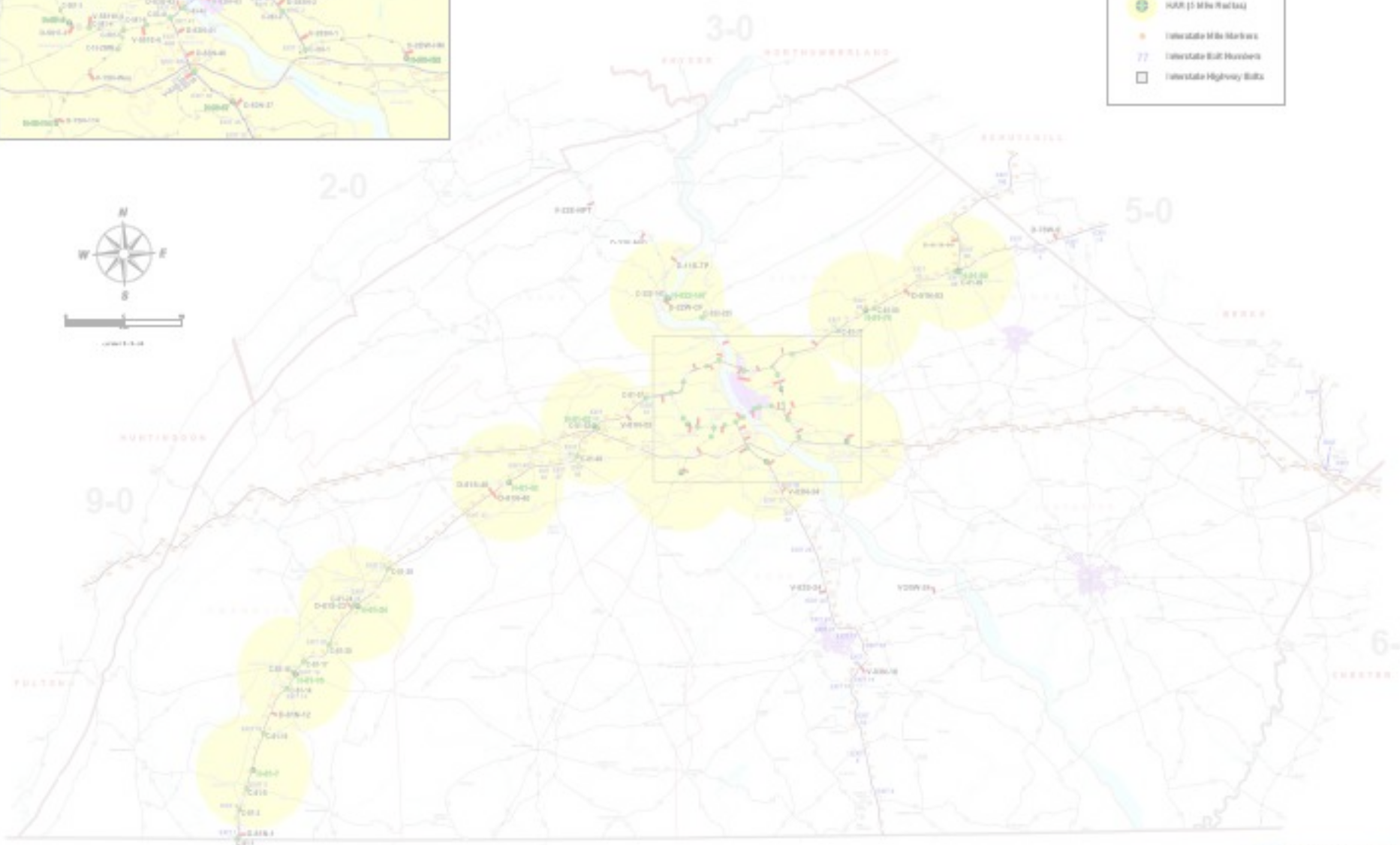
# Economic Stimulus Project

- 35- Additional Cameras
- 1- Highway Advisory Radio Transmitter
- 4- Semi-permanent message boards
- ????



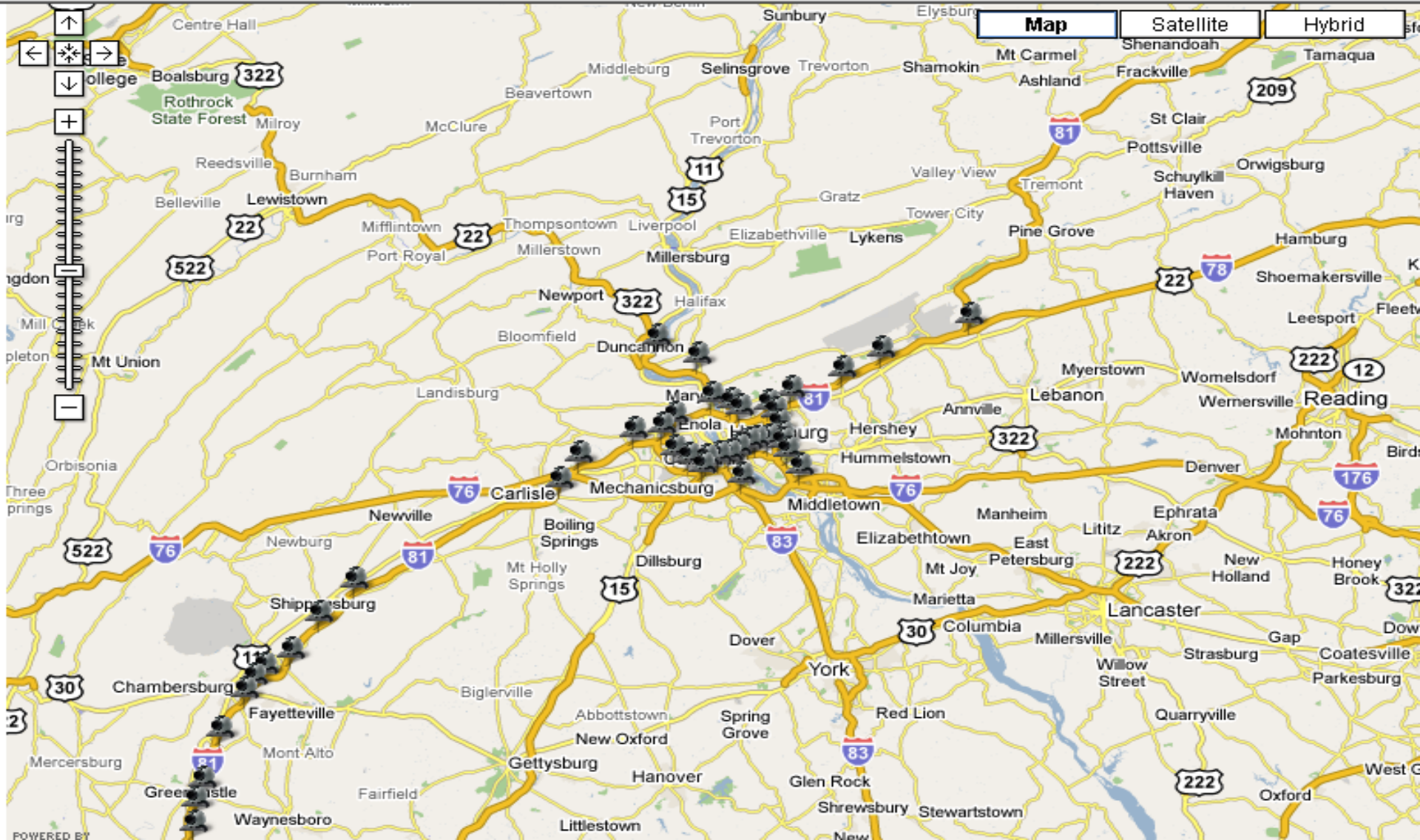
# PennDOT District 8 Existing ITS Field Devices

- Legend
- DSM
- Camera
- KAM (1 Mile Radius)
- Interstate Mile Markers
- Interstate Exit Numbers
- Interstate Highway Bills



# Closed Circuit TV (CCTV)

Dauphin, Cumberland, York and Lebanon



# District 8 Traffic Management Center



# Traffic Management Center

- Open 24/7/365
- Two operators at all times
- Four work stations
- Control all field devices
- District 8 to be Central Regional Traffic Management Center (RTMC)

# What is the TMC's Role?

- Situational Awareness
- Monitor and control cameras
- Activate message boards
- Activate Highway Advisory Radios (HAR)
- Log Incidents
- Enter Road closures/Incidents in the Road Condition Reporting System (RCRS) Database
- Dispatch Service Patrol

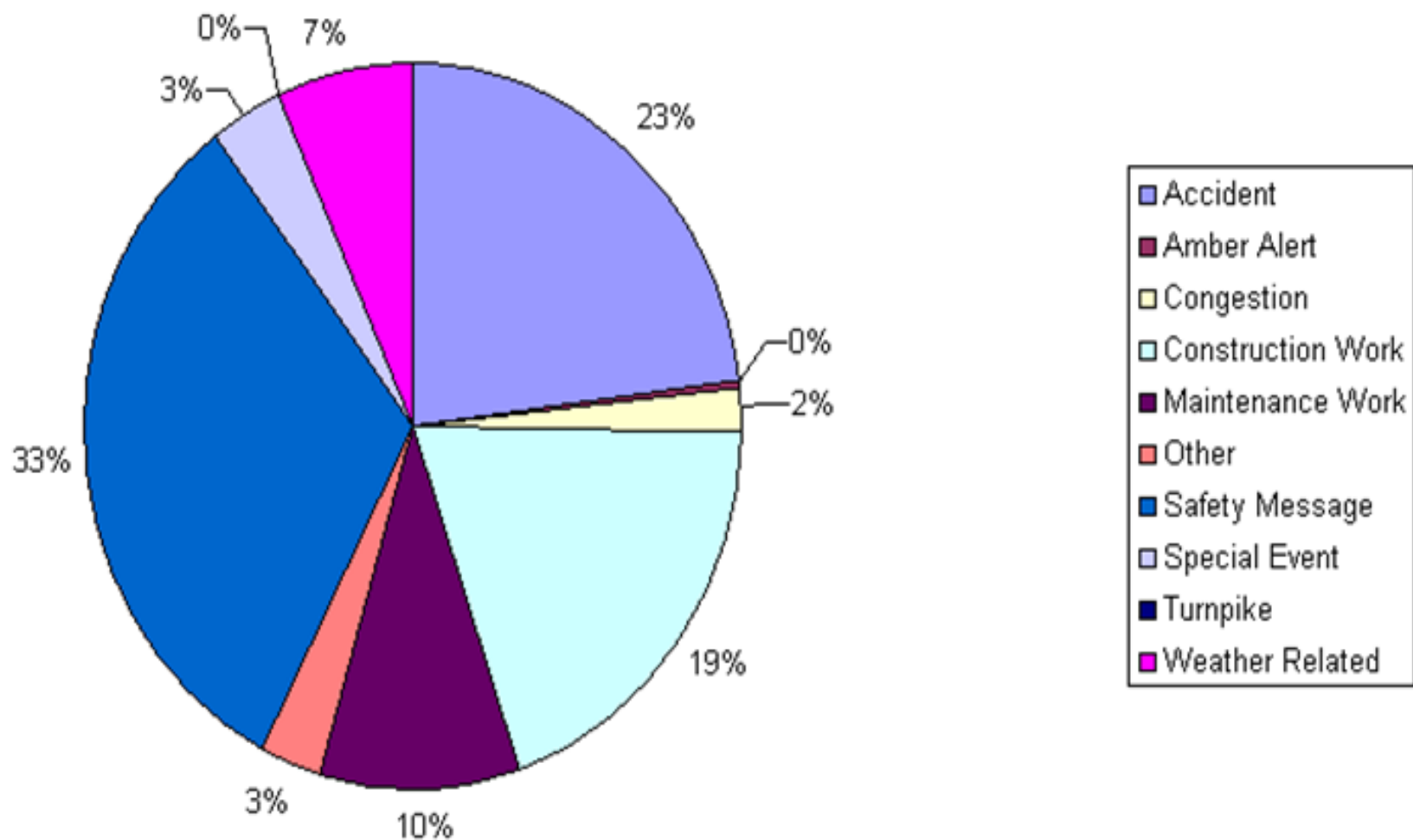
# Situational Awareness

- Share what we know
- Clean Reports from State Police Watch Center
- Share information with emergency responders
- Helps verify incidents

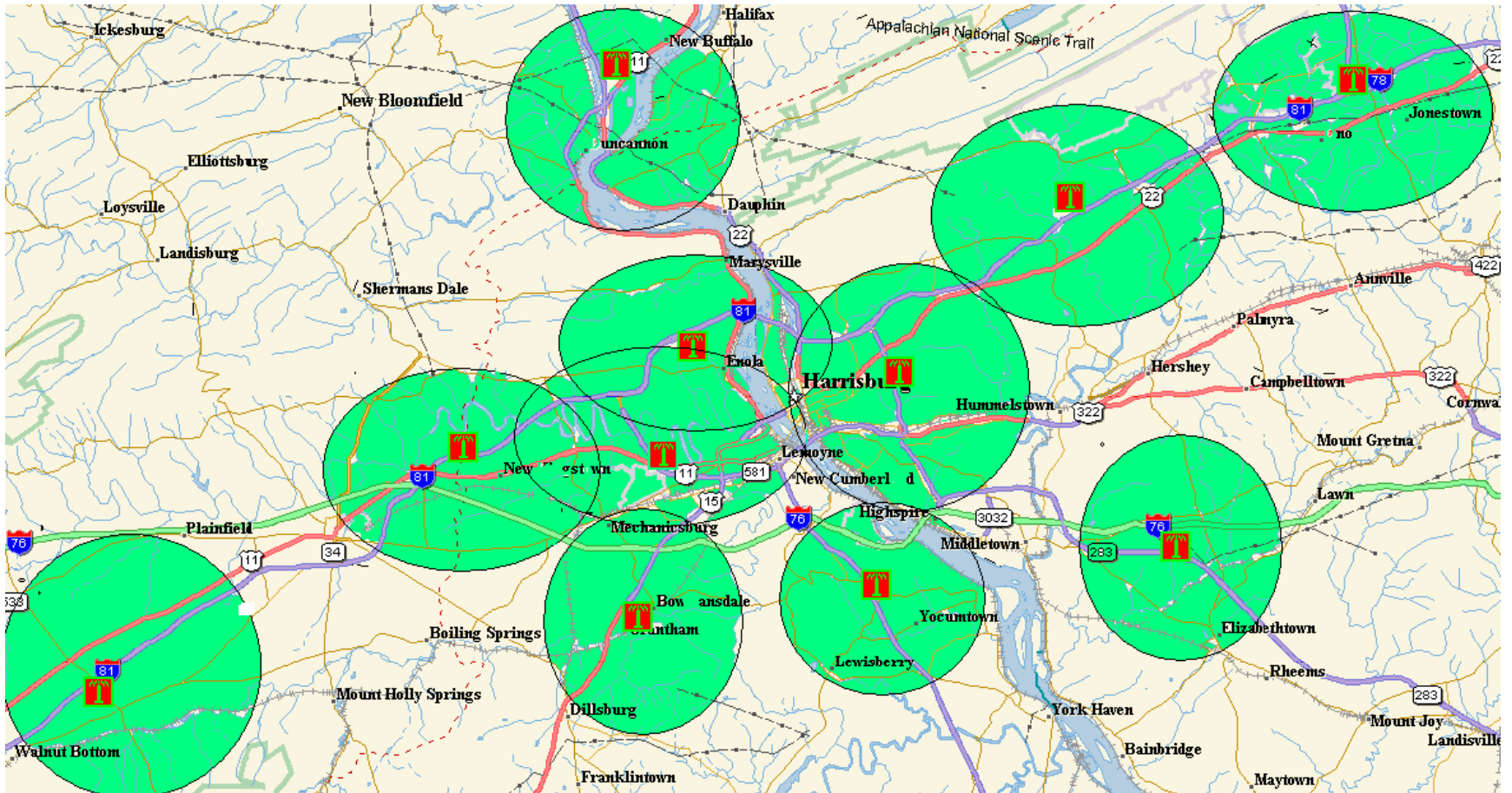
# CCTV Cameras

- Pan, tilt, and zoom capable
- Available for viewing on website  
[www.dot.state.pa.us](http://www.dot.state.pa.us)
- Verify fire/police scanner calls and help locate incidents

2008 Total DMS/VMS Reason for Activations  
(Total 9882)



# Highway Advisory Radio (HAR) 1610 AM



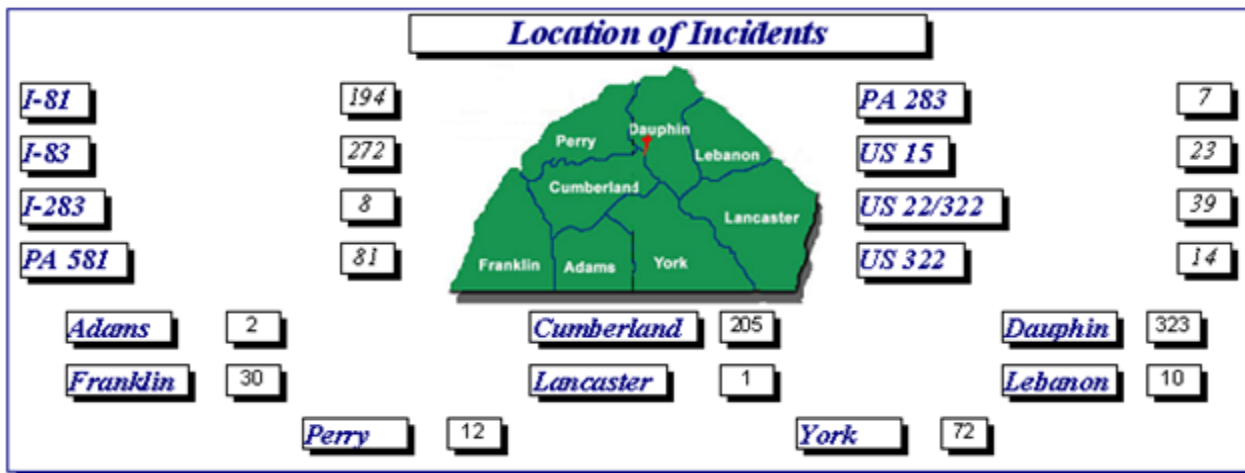


# PENNDOT DISTRICT 8 INCIDENT REPORT

## YEAR TO DATE TOTALS

2008

2008



### Incident Type

Accidents	549	Fatalities	2
Disabled Vehicle	44	School Bu	0
Debris	6	Hazardous Material	2
Vehicle Fire	28		
Other	43		

**Total Incidents****659****Number of Incidents DIRT Dispatched On****52**



Auto Refresh Map

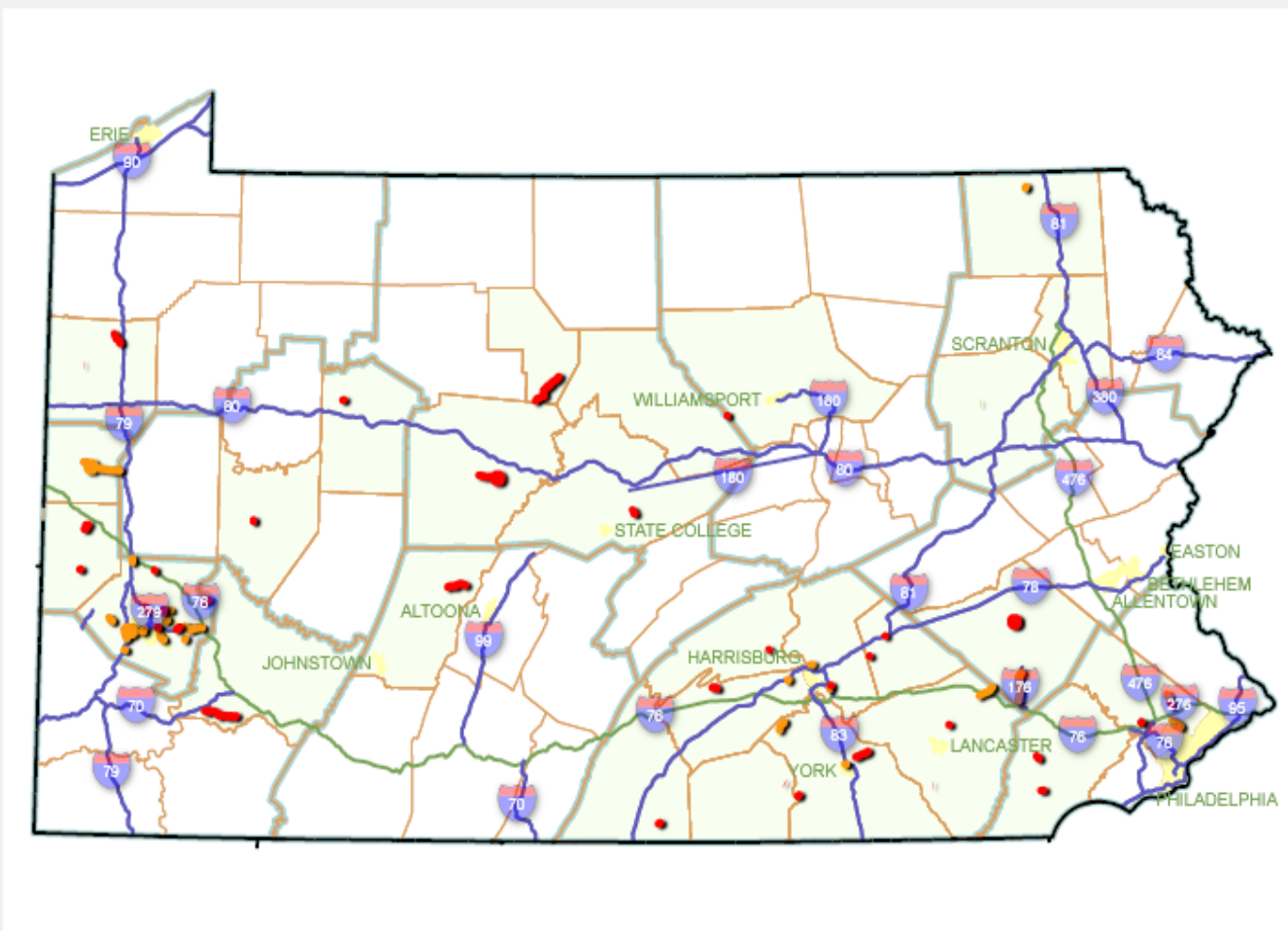
County: <Entire State>

AND State Route: <All Routes>

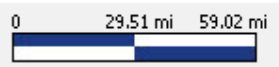
Generate Map

Map Legend

- Roads Closed
- Lane Restrictions
- Upcoming Lane Restrictions
- Interstates
- Turnpike
- Cities / Boroughs
- District Boundary
- Counties Reporting Closures / Restrictions
- Route Shields
- Ab123  Text Labels



Time to Generate Map: 7 seconds



Open/Close List Too many closures to load into list.

# Capital Beltway Service Patrol

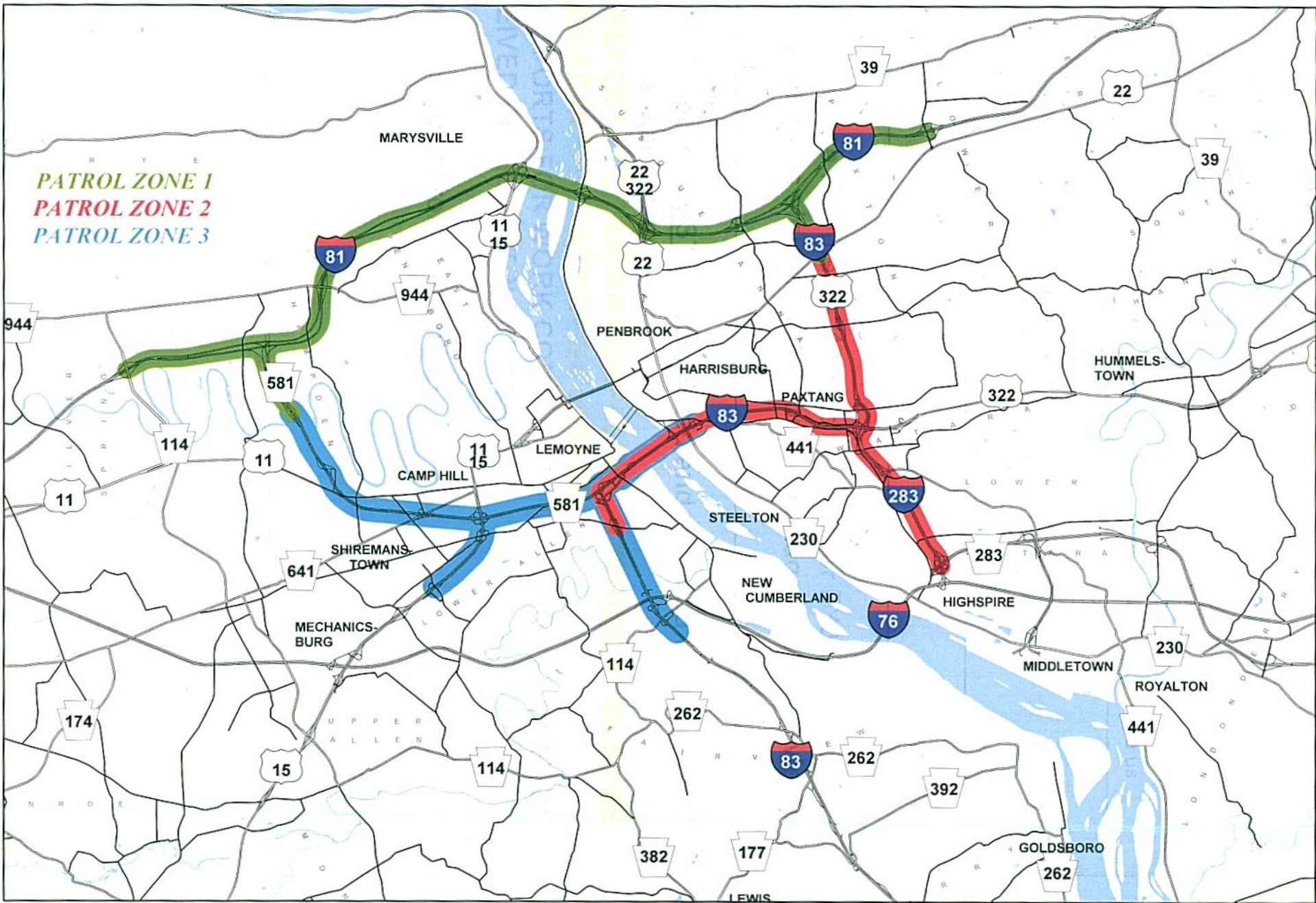


# Today

Aug. 2006 - 2009

- o 3 Service Patrol Vehicles
- o 7.5 hours per day
  - o 6 - 9 am
  - o Summer months (April – September) 2:30– 7 pm
  - o Winter months (October – March) 2 pm – 6:30 pm
- o Patrol Zones
- o 45 miles coverage

# CAPITAL BELTWAY PATROLS





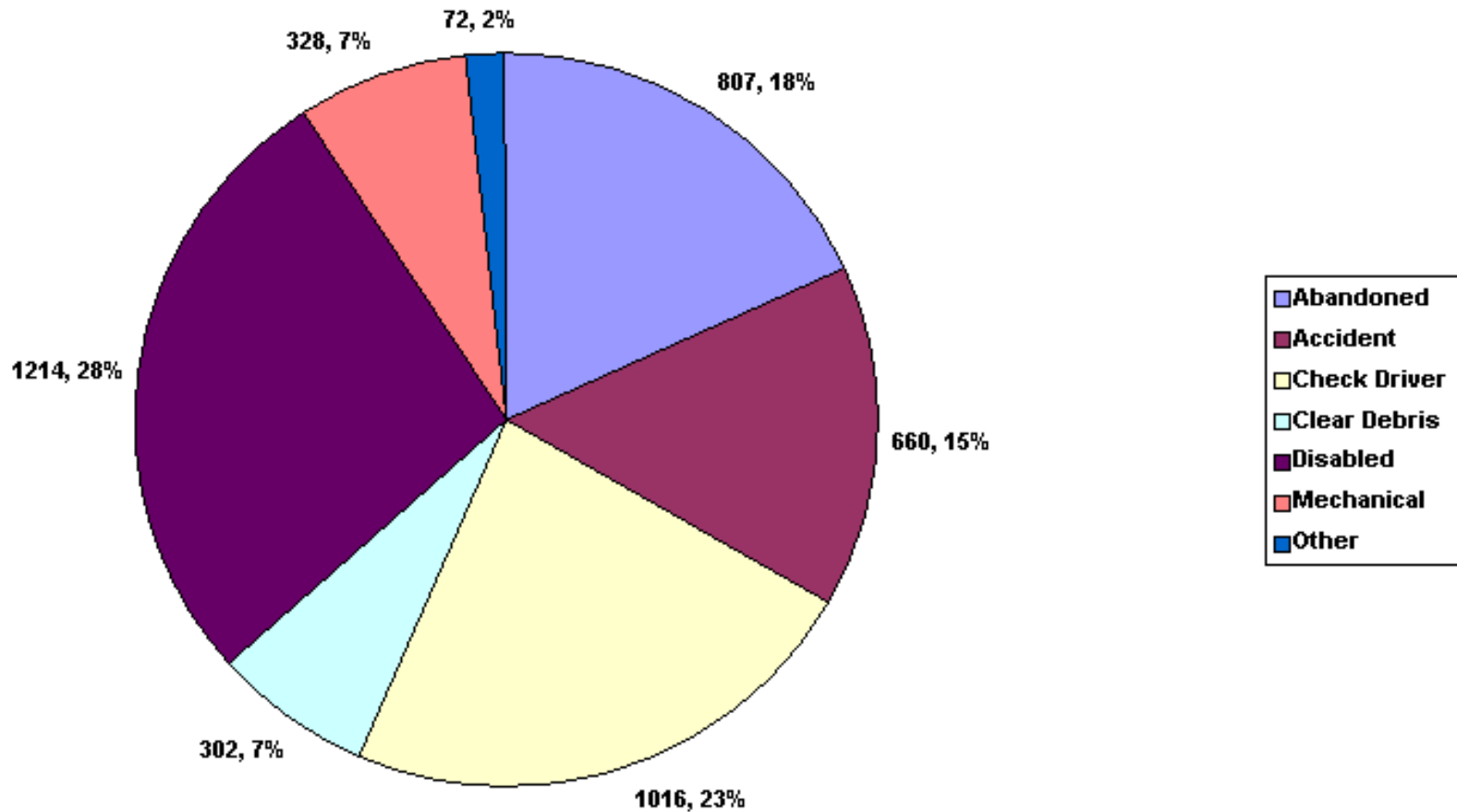
# PennDOT District 8-0 Service Patrol Report

Patrol Routes PR1, PR2, PR3

9/22/2007 - 9/22/2008

Total Count = 4399

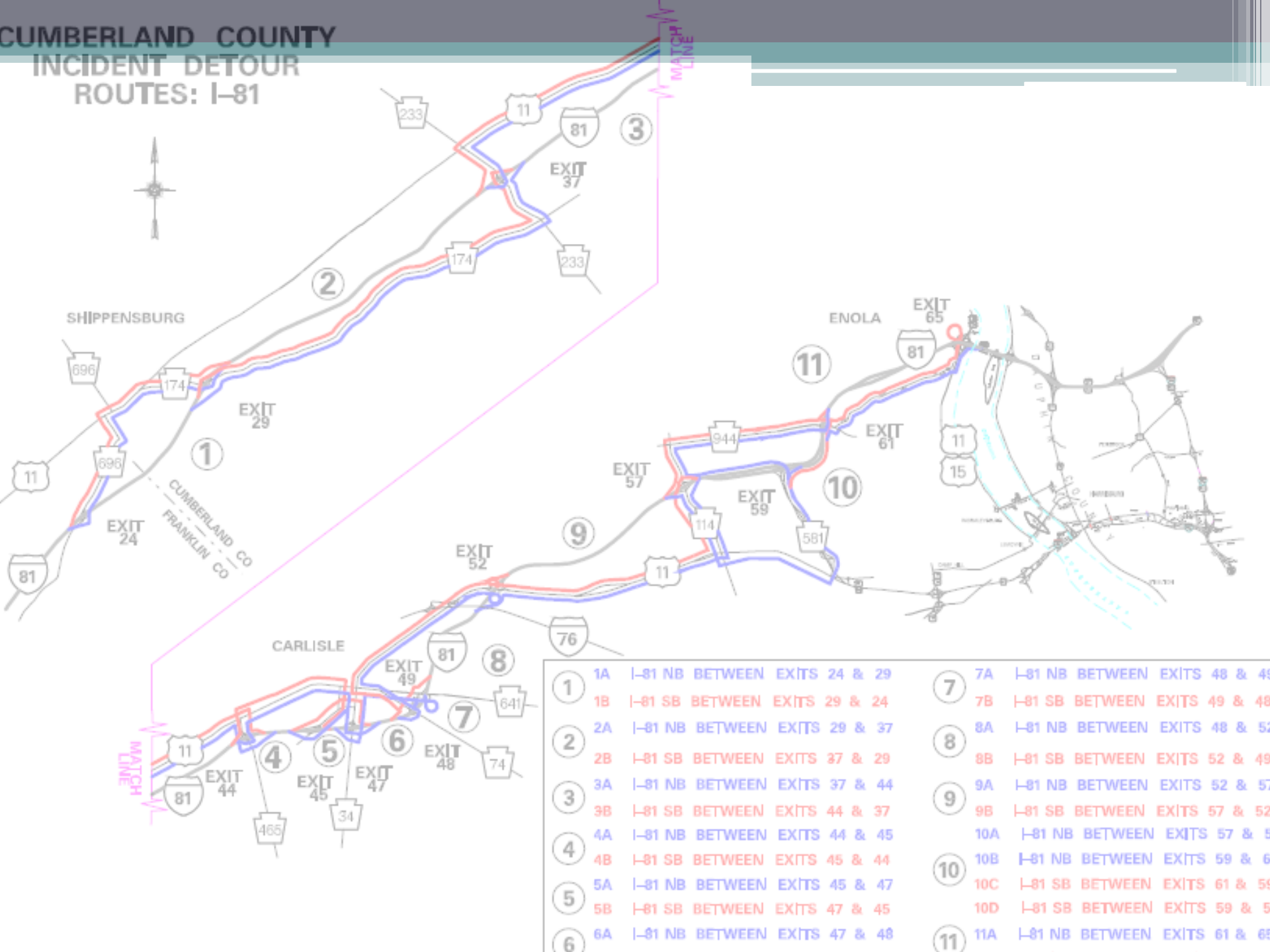
Assists - Counts



# DETOUR ROUTES

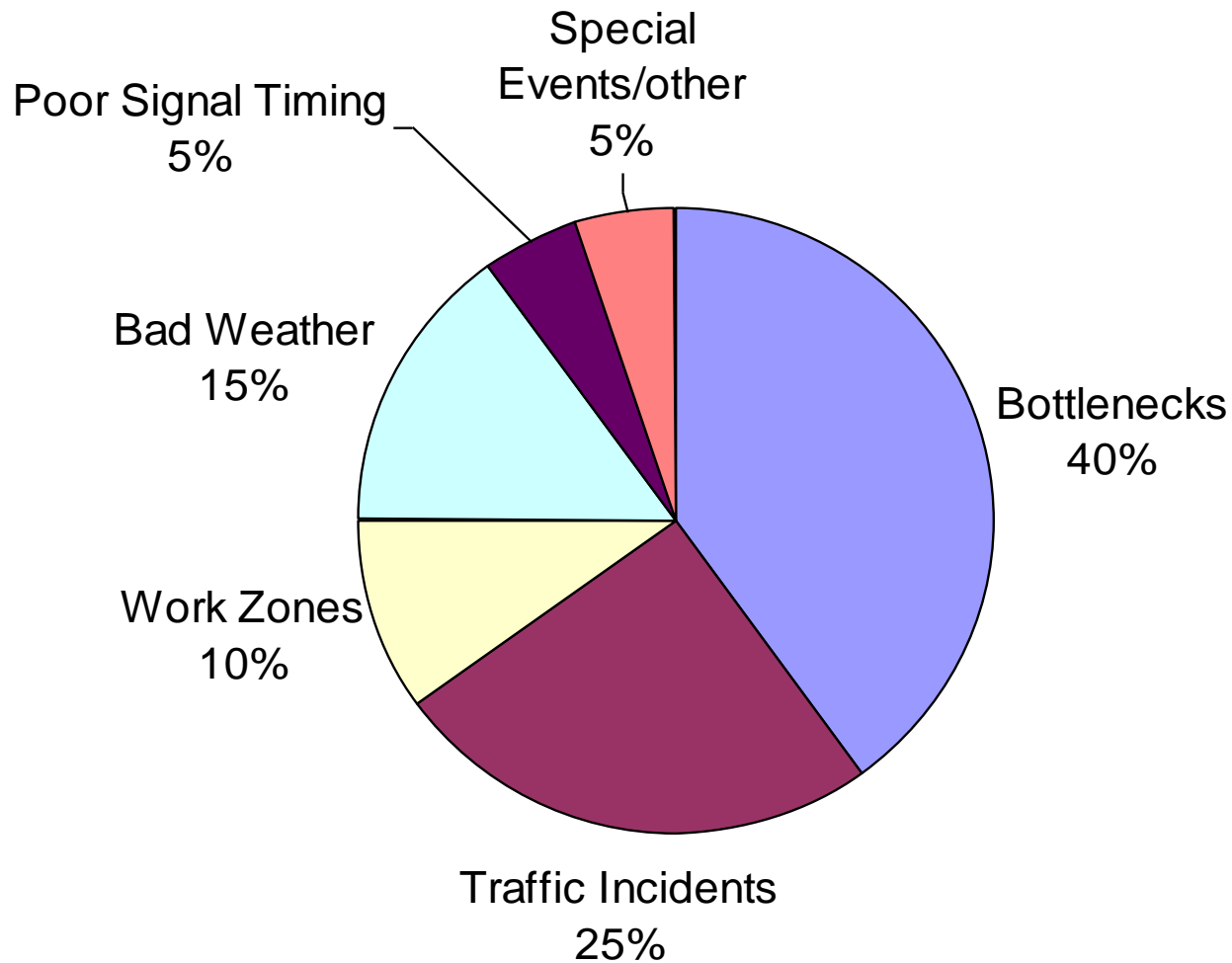
- Red for South bound
- Blue for North bound
- Blazed exit to exit
- Contain written description of route
- Contain list of all intersection along route
- List of closest ITS devices

# CUMBERLAND COUNTY INCIDENT DETOUR ROUTES: I-81



- |   |                                  |   |                                   |
|---|----------------------------------|---|-----------------------------------|
| ① | 1A I-81 NB BETWEEN EXITS 24 & 29 | ⑦ | 7A I-81 NB BETWEEN EXITS 48 & 49  |
|   | 1B I-81 SB BETWEEN EXITS 29 & 24 |   | 7B I-81 SB BETWEEN EXITS 49 & 48  |
| ② | 2A I-81 NB BETWEEN EXITS 29 & 37 | ⑧ | 8A I-81 NB BETWEEN EXITS 48 & 52  |
|   | 2B I-81 SB BETWEEN EXITS 37 & 29 |   | 8B I-81 SB BETWEEN EXITS 52 & 49  |
| ③ | 3A I-81 NB BETWEEN EXITS 37 & 44 | ⑨ | 9A I-81 NB BETWEEN EXITS 52 & 57  |
|   | 3B I-81 SB BETWEEN EXITS 44 & 37 |   | 9B I-81 SB BETWEEN EXITS 57 & 52  |
| ④ | 4A I-81 NB BETWEEN EXITS 44 & 45 | ⑩ | 10A I-81 NB BETWEEN EXITS 57 & 59 |
|   | 4B I-81 SB BETWEEN EXITS 45 & 44 |   | 10B I-81 NB BETWEEN EXITS 59 & 61 |
| ⑤ | 5A I-81 NB BETWEEN EXITS 45 & 47 |   | 10C I-81 SB BETWEEN EXITS 61 & 59 |
|   | 5B I-81 SB BETWEEN EXITS 47 & 45 |   | 10D I-81 SB BETWEEN EXITS 59 & 57 |
| ⑥ | 6A I-81 NB BETWEEN EXITS 47 & 48 | ⑪ | 11A I-81 NB BETWEEN EXITS 61 & 65 |

# Sources of Congestion



Source: *Traffic Congestion and Reliability: Trends and Advanced Strategies for Congestion Mitigation* (FHWA)

# Design/Construction Considerations

- Please be aware of ITS devices during field views, they may need to be relocated.
- Watch for under ground ITS utilities – they may not show up on PA one call.
- Do not block access to ITS devices (guide rail).
- Consider existing ITS devices to supplement Traffic Control Plans & Incident Management Plans.

# QUESTIONS

