## Maryland Department of Transportation State Highway Administration



## Championing Traffic Incident Management in the National Capital Region

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### **CHART Core Functions**

- CHART is the Coordinated Highways Action Response Team.
- CHART is MDOT-SHA's real-world application of Transportation Systems Management and Operations.
- CHART is focused on the safety and efficient movement of people and goods on Maryland's highways.



# CHART Operations Focus Areas

- Incident Management
- Traffic and Roadway Monitoring
- Traveler Information
- Severe Weather and Emergency Operations
- Traffic Management



### Organization

Maryland Department of Transportation

- Maryland Aviation Administration
- Mass Transit Administration
- Maryland Port Administration
- Motor Vehicle Administration
- State Highway Administration

**State Highway Administration** 

Planning and Engineering

**Operations** 

Administration

7 District Offices

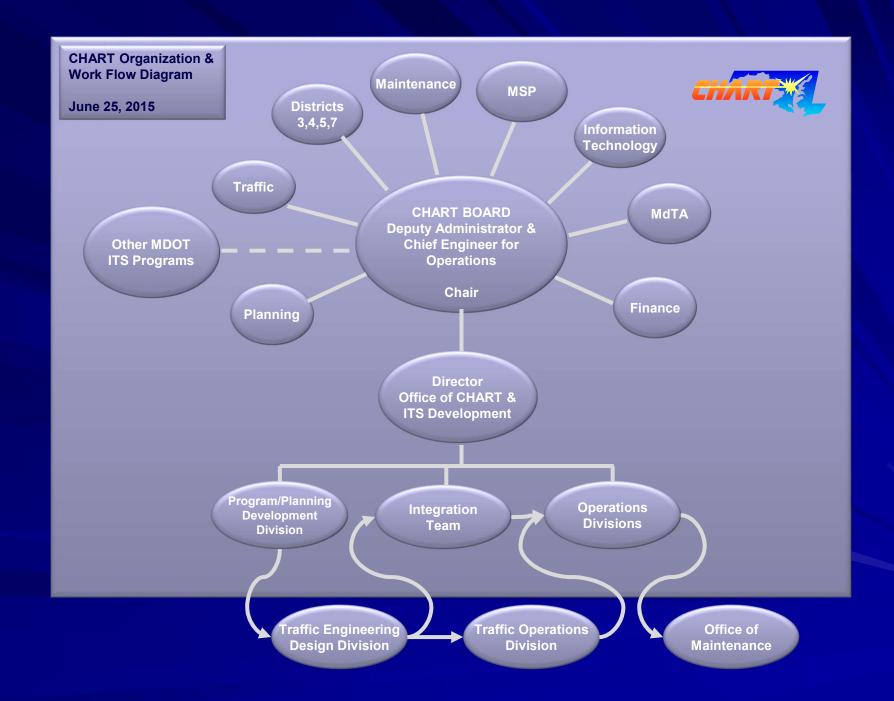
Office of Maintenance

Office of Construction

Office of Materials Technology

Office of Traffic & Safety

Office of CHART & ITS Development



### CHART TMC Operations

#### The Statewide Operations Center

- **24/7/365**
- 3 TOC's M-F
  - NCR
    - College Park Bk
  - Baltimore
    - Golden Ring Bk
  - Western
    - Frederick Bk
- Maryland State
   Police staffing
   (peak rush
   hours/emergency
   only)



Opened August 30, 1995



### Incident Management

- 24 Hours / 7 Days per Week Operation
- "Clear the Road Policy"
- Close Coordination with State Police
- Emergency Traffic Patrols (ETP's)
- Emergency Response Units (ERU's)
- Approximately 43 units on the Road







### CHART Incident Management Performance Measures & Recent Results

- Annual User Cost Savings \$1.356 Billion
- Number of Patrol Hours Logged Over 97,000 Hours
- Reduction in Delay 39.2 Million Vehicle-Hours
- Average Incident Duration 23.54 minutes
- Total Number of Responses (Incidents & Assists) Over 77,000
- 2014 a CHART unit assisted a motorist every *14min*, handled an incident every *22min*
- 2015 a CHART unit assisted a motorist every 15min, handled an incident every 19min

# Traffic and Roadway Monitoring

- Cellular Telephone #77
- Maryland State Police Reports
- 300+ Speed Detectors including PPTA
- 180+ Closed-Circuit Television Cameras (owned and controlled by CHART)
- 800+ Closed-Circuit Television Cameras (owned by, partially owned by, or viewable by CHART)
- Traffic Probe Data

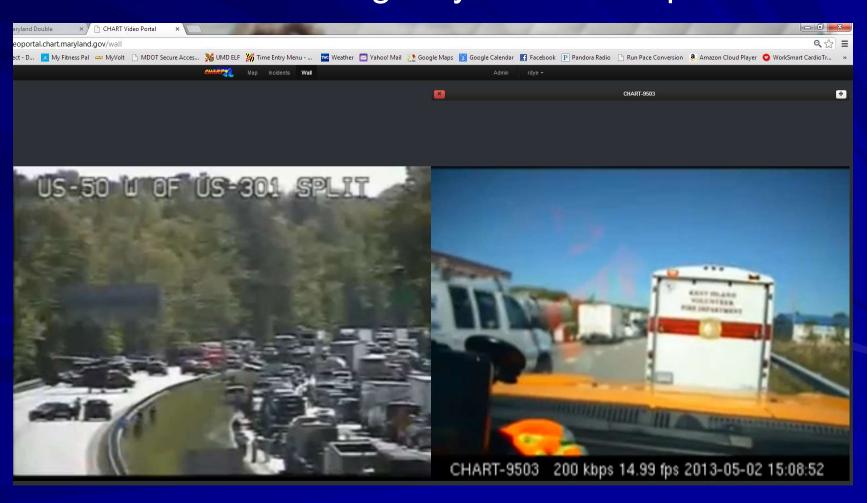






### Dash Mounted CCTV - 2011

We found the things you needed to see were not where our Emergency Patrol was pointed!



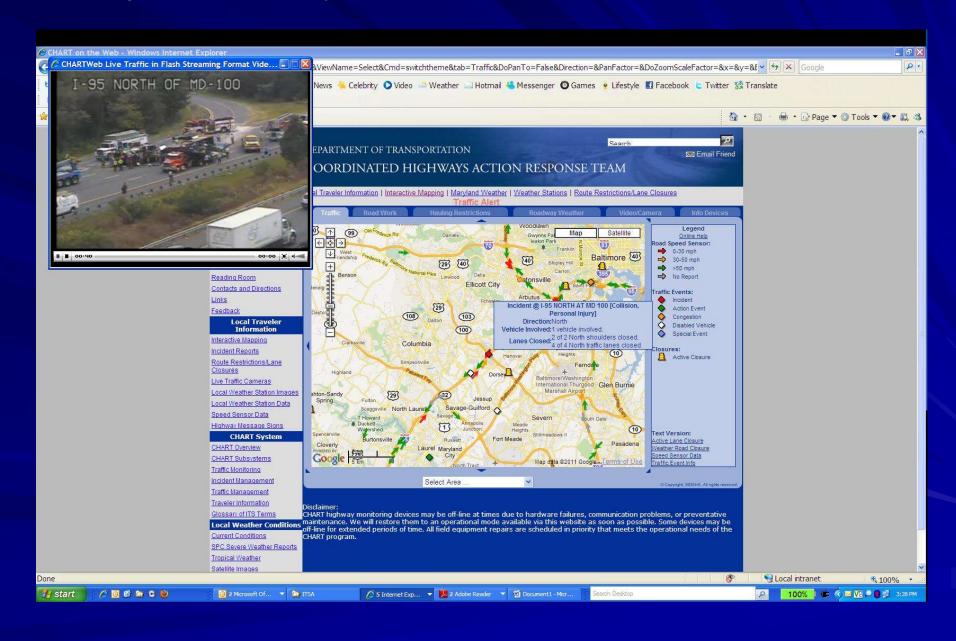
## New generation CCTV MV-2101 resolved the issues

- Approximately \$17K per camera
- Available on State Contract
- Full Pan Tilt Zoom camera controlled by central software at TOC/TMC
- Video rides "secure" APN across AT&T 3G Network





### The public receives a "real-time" map showing the incidents and streaming video from nearby cameras



# Traveler Information



- 85+ Dynamic Message Signs
- 35+ Traveler's Advisory Radio Stations
- Internet: <a href="http://traffic.maryland.gov">http://traffic.maryland.gov</a>
- Travel Times On DMS
- 511 Traveler Information Service





### Getting ready for what is next

- I-270 Corridor Project
- US 1 Pilot Corridor
- Strategic TSM&O Implementation Plan

## Regional Integrated Transportation Information System (RITIS) A Real-Time and Archived Repository of Highway Conditions and Events

