

Metropolitan Area Transportation Operations Coordination

# MATOC Briefing for MWCOG Winter Weather Conference

Mr. Taran Hutchinson MATOC Facilitator

**November 1, 2022** 











# **MATOC Mission and Operations**

- A joint operations program between DDOT, MDOT, VDOT, & WMATA to improve inter-agency information sharing and coordination
  - Focuses on DOT Operations and Traffic Incident Management
- MATOC's mission is to provide situational awareness of day-to-day transportation operations in and around the National Capital Region (NCR)
  - Specifically during the weekday morning and afternoon rush hour periods
- Develop tools and processes that enables operating agencies and the traveling public to make better decisions
- The MATOC Program is governed by a Steering Committee and supported by several committees and working groups covering specific DOT topic areas;
  - Roadway Operations, Transit Operations, Information Systems
  - Maintenance / Severe Weather
  - Construction / Planned Events
- MATOC is not command and control, it is advisory in nature and serves as a decision support function













## **MATOC's Area of Interest**

#### Area of Interest

- National Capital Region "+1"
- Roadway network defined by MATOC Operations Subcommittee
- Expands and contracts based on travel patterns

#### Focus Areas

- Interstates and major arterials
- Jurisdictional borders and river crossings
- Incidents or events that may impact multiple jurisdictions or transportation modes
- Special events and seasonal hotspots and bottlenecks

MATOC has tools to monitor this network

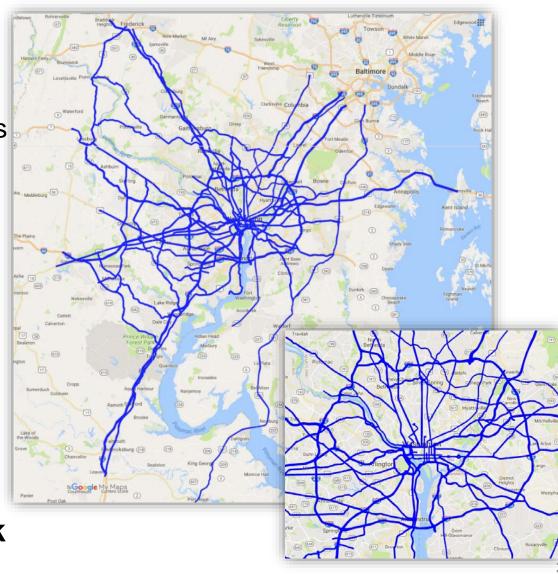














# **MATOC Operations Center**

## Normal Operations

- Monday-Friday, 4:30am-8:00pm
- On-Call after hours and weekends; rotating schedule
- Able to ramp up to 24/7 coverage
- Five staff; two frontline operators and three in support roles

## Operational Posture

- Normal Operations: Focus on weekday AM/PM rush
- **Enhanced** Operations:
  - Planned/Special Events July 4<sup>th</sup>, Inaugurations, etc.
  - Severe Weather Winter storms, derechos, hurricanes, etc.
- Serves as a transportation watch desk / information clearing house / resource desk for its stakeholders
  - "Detect, Verify, Evaluate, Elevate/Notify, Re-evaluate" (Goal: 15 minutes or less)





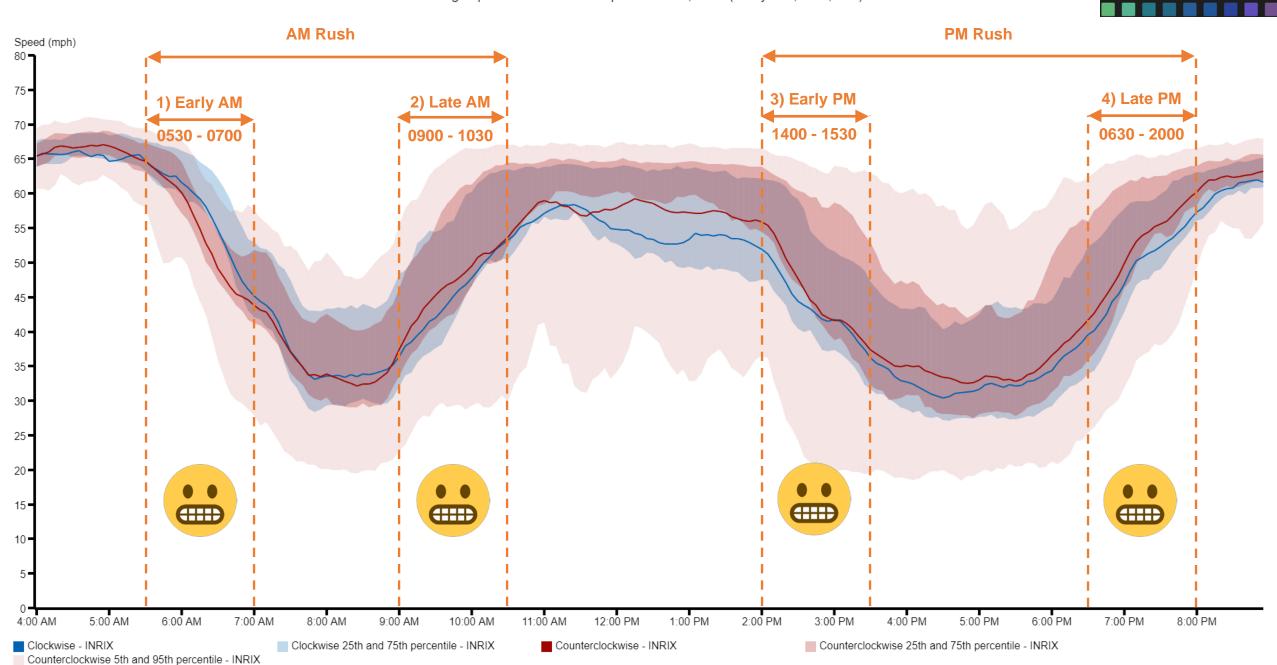






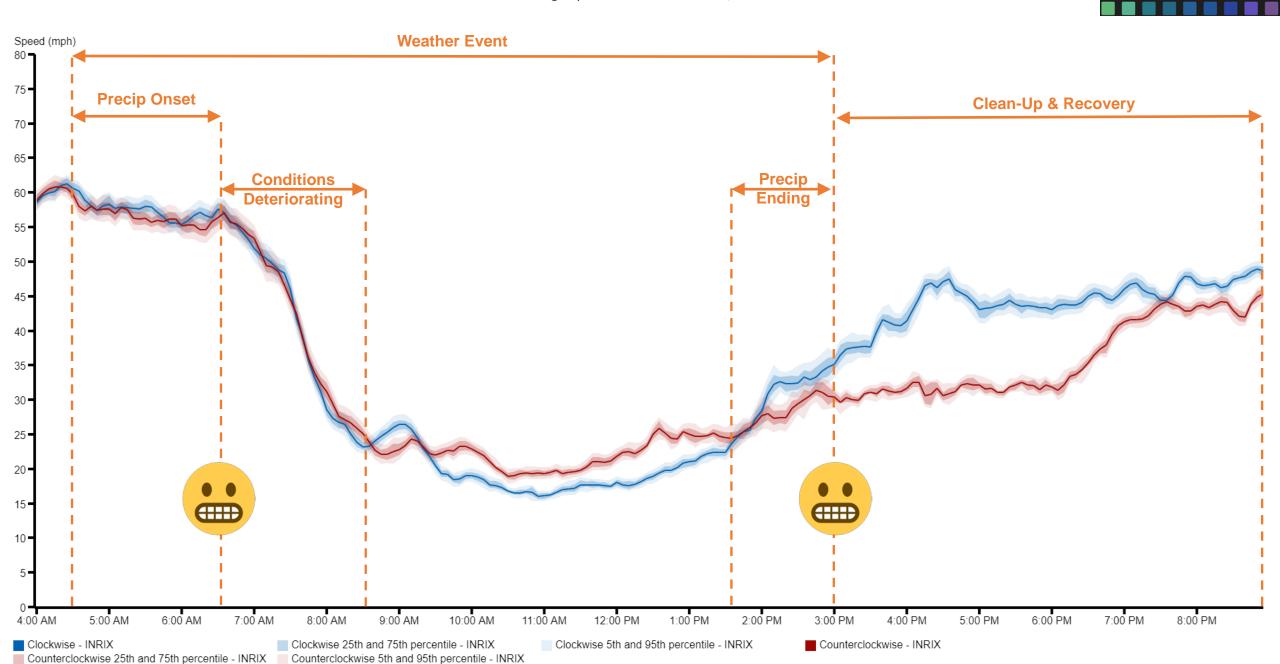


Averaged per five minutes for Sep 22 - Oct 13, 2022 (Every Tue, Wed, Thu)



PROBE DATA
ANALYTICS SUITE

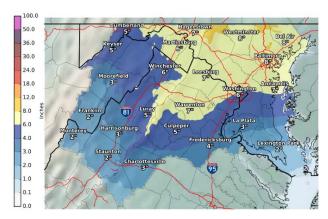
Averaged per five minutes for Jan 3, 2022



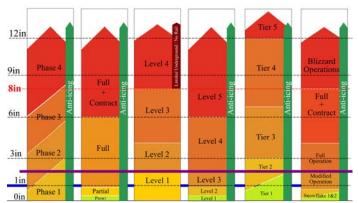


# **Focus Area: Winter Operations**

- MATOC Severe Weather Coordination Working Group (SWCWG) serves as a forum for select DOT maintenance representatives to share/discuss mobilization and recovery plans before, during and after widespread severe weather events
- MATOC Transit Task Force (TTF) is a forum for regional/local transit operators to discuss service coordination issues related to unplanned and planned events



**Weather Forecast** 



**Agency Mobilization Plans** 



Road Conditions

Anticipated/Observed













## **Road Conditions Table**

Transportation System Status Levels		Suggested terminology and PIO templates
Road Condition 5: IMPASSABLE/ DANGEROUS/ TREACHEROUS  Some roads could be temporarily impassable. This may be the result of severe weather (low visibility, etc.) or road conditions (drifting, excessive unplowed snow, glare, ice, accidents, stranded vehicles, etc.) Skeletal transit services. Limited above-ground rail service if more than 8" of accumulation. Lane drops in certain sections.		"treacherous", "impassable", "dangerous" Be where you need to be by <time>. Get where you need to be before the weather gets bad. Stay where you are.</time>
Road Condition 4: ICY/SNOW PACKED  The pavement surface is covered with packed snow and/or ice. There may be loose snow on top of the icy or packed snow surface. Transit lifeline services only with significant delays for rail and bus. Refreeze possible. Lane drops in certain sections.		"unsafe", "impassable" "major delays" Be where you need to be by <time>. Avoid or postpone travel for next <hours>. Stay at the office an extra <hour>, or leave early, to avoid travel during a winter storm.</hour></hours></time>
Road Condition 3: SNOW AND/OR SLUSH COVERED  The pavement surface has continuous stretches of packed snow with or without loose snow on top of the packed snow or ice. Core bus services only, delays in rail services. Lane drops on certain sections of roadways.		"caution", "passable"  Avoid being stranded at bus stops  Avoid or postpone travel for next <hours>.  Stay off the roads.  Stay at the office an extra <hours, a="" avoid="" during="" early,="" leave="" or="" storm.<="" td="" to="" travel="" winter=""></hours,></hours>
Road Condition 2: SNOW / SLUSH COVERED W/ WHEEL TRACKS EXPOSED  Accumulations of loose snow or slush up to 2 inches are found on the pavement surface.  Packed and bonded snow and ice are not present. Regular transit services with some minor exceptions and detours for buses. Drifting snow.	And the second	"passable"  Avoid discretionary travel. Road crews engaged in clearing activities.  Curtail "elective" travel. Avoid unnecessary travel.
Road Condition 1: CLEAR WET/DRY  Clear and wet/dry pavement surface is the general condition. There are occasional areas having snow or ice accumulations resulting in drifting, sheltering, cold spots, frozen meltwater, etc. Transit operations per schedules.		"passable"

#### **Typical brief out**

- "Currently our interstates are at Condition 2, closer to Condition 3 in our western region. Our primaries are at Condition 3. We have started on our secondary roads and subdivision but they are both at Condition 4"
- "If the forecast holds, we should be able to get our interstates and primaries to Condition 1 by 8am. Secondary roads should be at Condition 2 by noon. We expect subdivisions to remain at a Condition 3 until mid afternoon."













## **MATOC Operations** Severe Weather/Special/Short or No Notice Events

### 1) Pre-Event

- Monitor weather forecasts and **DOT** mobilization plans
- Consult with the MATOC Severe Weather **Coordination Working Group (SWCWG)**
- Participate in and monitor regional communications:
  - MATOC SWCWG Calls/Listserv
  - MATOC Transit Task Force Calls/Listserv
  - MWCOG Severe Weather Calls
- Ramp up to Enhanced/Severe Weather Operations 2-3 hours prior to the event entering NCR
- Two 2-person teams work in shifts filling Operations & Support roles

#### 2) During Event

- Monitor core systems as well as other storm related resources
- Provide hourly reporting of major transportation incidents, road closures, and changes in transit (bus & rail) service levels
- Consult with the DOT Operations, RITIS Support team, MATOC SWCWG, MATOC Transit Task Force as needed

#### 3) Post-Event

 Return to Normal Operations & Reporting as recovery operations begin to wind down



# **Tools for your Toolbox**

- Regional Integrated Transportation Information System (RITIS) Automated data integration and dissemination system that provides real-time and archived information on the status of the transportation network. Limited to public sector access



**MView** 

- Video Sharing Systems
  - MVIEW MCAC's Regional CCTV sharing platform for public safety partners and first responders (DC, DE, MD, PA, VA)
  - VDOT Claris VDOT's Traffic CCTV sharing platform for public sector partners
- NCR Watch Desk HSIN Operations Connect Room
  - Situational Awareness Chat Room for the NCR









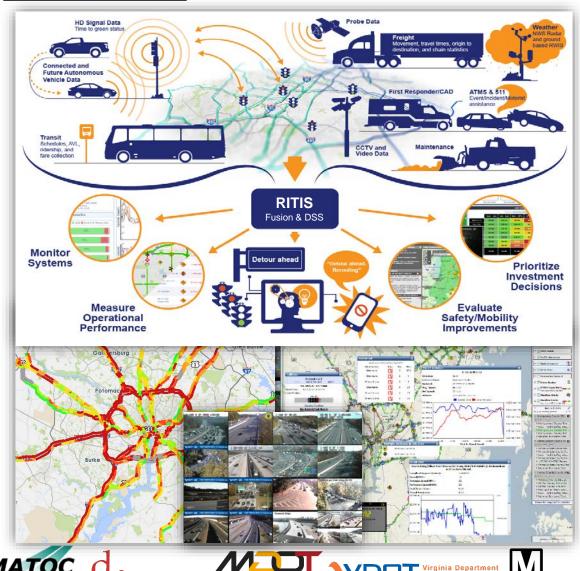




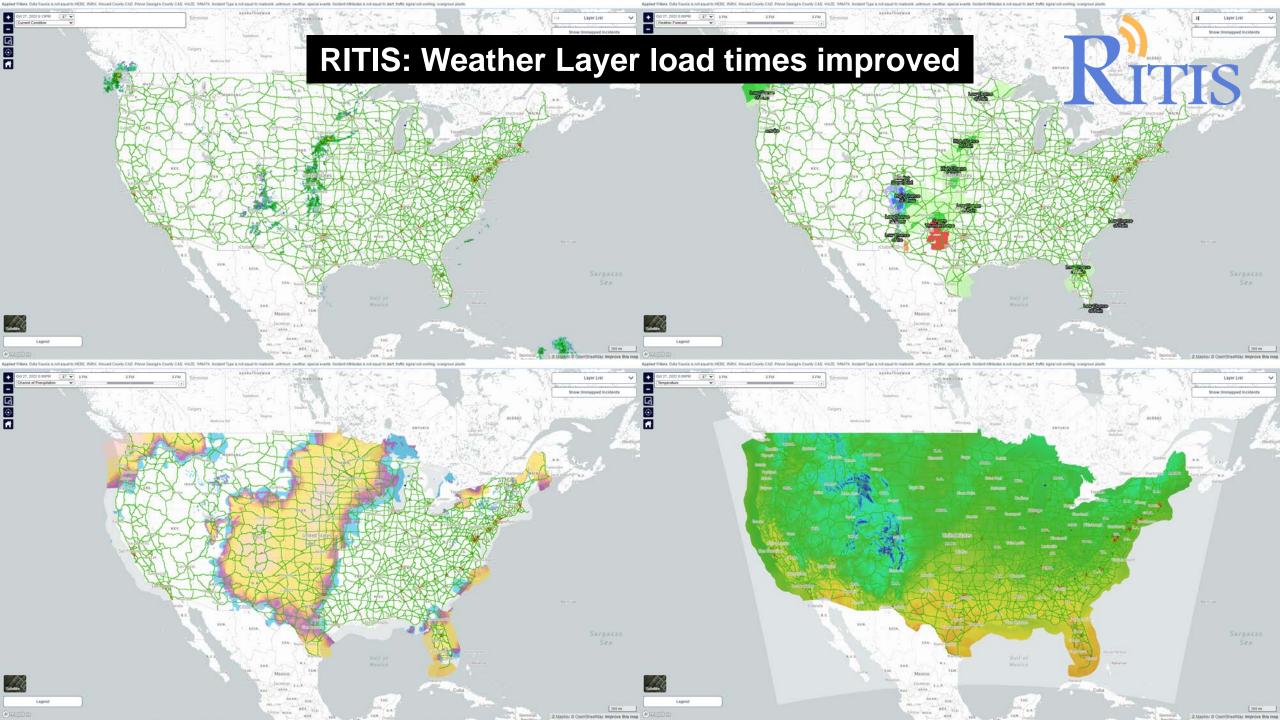


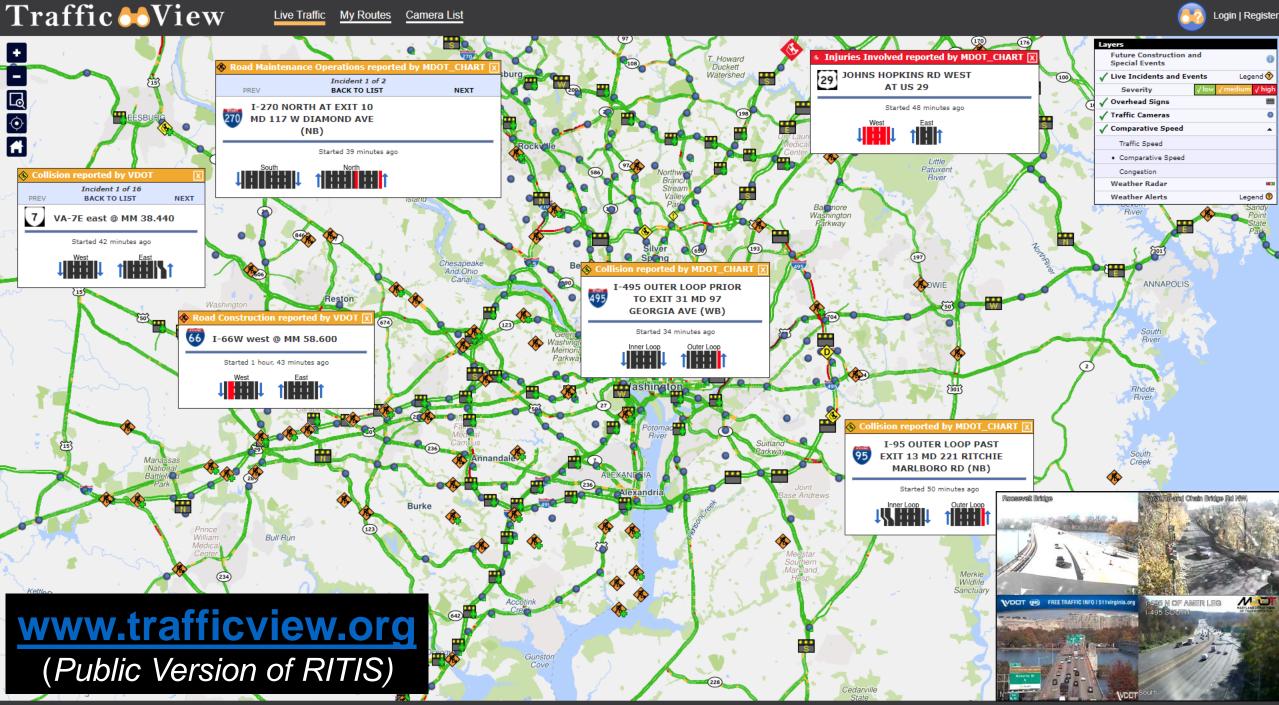
# Regional Integrated Transportation Information System





- Serves as MATOC's common operating picture to monitor the transportation network in and around the National Capital Region
- Limited to public sector agencies
- Approximately 15,000 RITIS users from around the nation representing various disciplines
- Gives users a common operating picture of a region's surface transportation network
- RITIS Training Available
  - RITIS 101 For Operations Centers & Staff
  - Webinar: November 18 @10:00AM EST
  - www.matoc.org/training
  - Training requests: <u>training@matoc.org</u>





## **VDOT Claris Traffic CCTV Sharing Platform**

Q MAP

WALL

**INCIDENTS** 

■ ALERTS

PROFILE

① HELP

I-495N at the ramp from Rt. 123S (Dolley Madison Boulevard)

Description

On I-495 at mile marker 46 in the County of Fairfax, motorists can expect delays due to a disabled vehicle. The north right shoulder is closed.

Last Updated

Filter on title...

10/27/2022 @ 12:36 PM

Coordinates

38.923568° N, -77.215032° W

Type

Disabled Vehicle

County

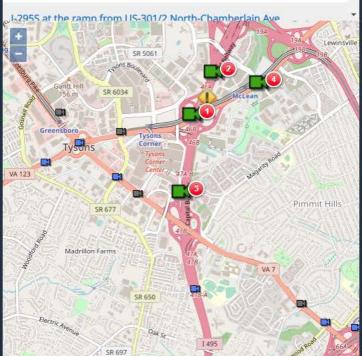
Fairfax (County)

Region

Northern

I-95N at I-95N Ramp 177A; Ramp Intersection:TO RT 1

11 mins ago





3 NRO-CCTV-I495-N-00472

VDOT (611) FREE TRAFFIC INFO | 511virginia.org





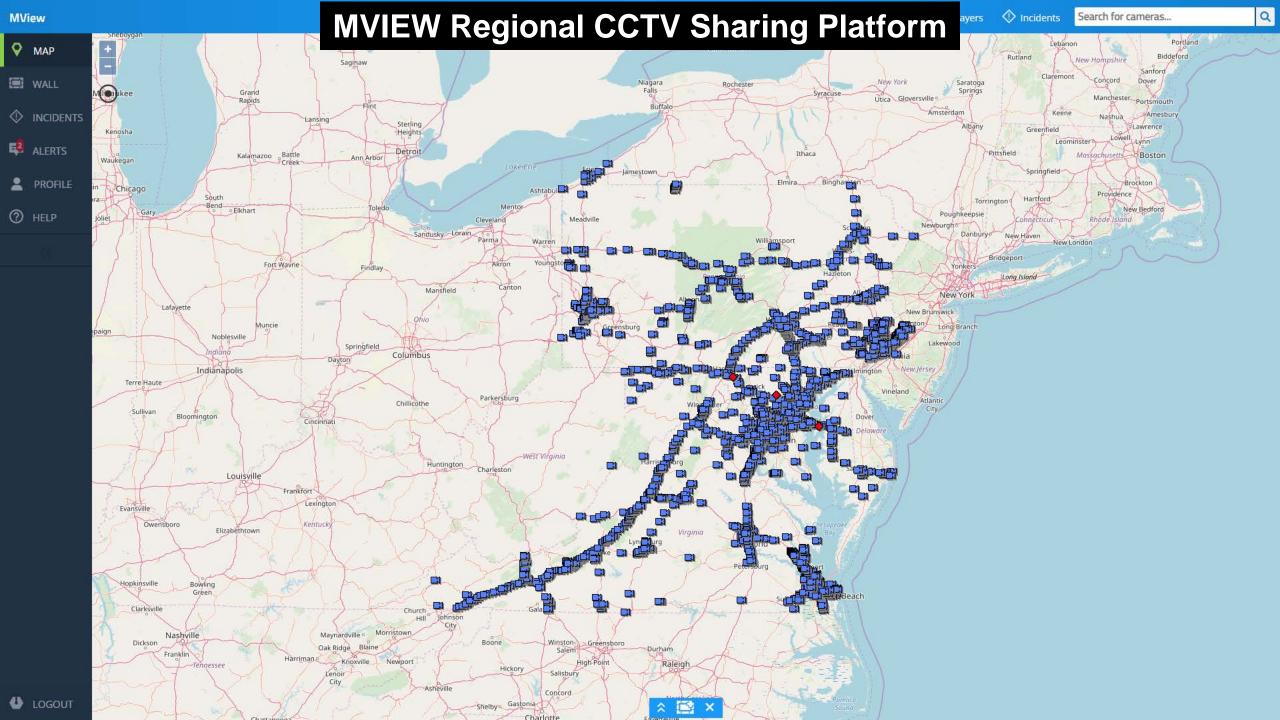
Median / I-495 between Dulles Toll Road and VA-123

VA-123 / NB / Colshire Dr

FREE TRAFFIC INFO | 511virginia.org VDOT (III)









**MVIEW Regional CCTV Sharing Platform** 





3 New York Ave. a



Search for views ...

DC: National Mall

DDOT: K-I-H St NW

Corridor





WA Portemouth City





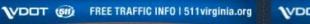
14th St and Independence St NW







8 I-395 / SB / PASSING OVER I-495 (Fairfax)









## **Questions**



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RITIS Information: <a href="https://www.ritis.org/intro">www.ritis.org/intro</a>

MATOC Website: www.matoc.org

Twitter: @MATOC

RITIS Training Opportunities: <a href="https://www.matoc.org/training">www.matoc.org/training</a>









