UPDATE ON THE MATOC PROGRAM AND REGIONAL INFORMATION SHARING

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Taran Hutchinson MATOC Facilitator

Clint Osborn
D.C. Homeland Security and Emergency Management Agency

Transportation Planning Board January 22, 2020



Outline

- Introductory Remarks and Context
 Andrew Meese, TPB Systems Performance Planning Director
- Update on the Metropolitan Area Transportation Operations Coordination (MATOC) Program
 Taran Hutchinson, MATOC Facilitator
- Overview of the D.C. Homeland Security and Emergency Management Agency (DC HSEMA)
 Clint Osborn, DC HSEMA Chief of Operations
- Regional Approaches to Incident Information Sharing General Approach and for Recent Noteworthy Incidents
- Questions and Discussion



Introduction

- At the October 16 TPB meeting, questions were raised about an October 11 incident closing Independence Avenue
- Staff was asked to look incident specifics, plus related activities of MATOC, other involved entities, and media awareness
- Today's presentations will provide specifics and the overall regional context of:
 - "Transportation incidents" primarily managed by transportation and partner agencies
 - "Non-transportation incidents" with spillover effects onto transportation facilities, primarily managed by public safety agencies
 - Some complex, multi-faceted incidents may be both





Metropolitan Area Transportation Operations Coordination

MATOC and Regional Information Sharing

Mr. Taran Hutchinson Facilitator

January 22, 2020











MATOC Operations Center

Established 2009

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 regular weekday AM/PM rush
 - Enhanced Operations:
 - Planned/Special Events July 4th, Inaugurations, etc.
 - Severe Weather Winter storms, derechos, hurricanes, etc.
- MATOC Staff regularly communicates with area transportation, public safety operations centers and watch desks on a daily basis
- Serves as a transportation watch desk / information clearing house / resource desk for its stakeholders
 - "Detect, Verify, Evaluate, Elevate, Re-evaluate" (Goal: 15 minutes or less)













MATOC Partners

Collaborating Agencies – Traffic Incidents

- DDOT, MDOT-SHA, VDOT, WMATA
- U.S. Park Police
- Regional Homeland Security Watch Desks

Additional Collaborating Agencies as Needed

- Regional/Local Transit Bus Operators MATOC Transit Task Force (TTF)
- Tolling Facilities: Transurban, MDTA, etc.
- Selected major local jurisdictions
- National Weather Service
- COG Public Safety ("COG Snow Calls" staff) and Public Information Officers Committee/staff

Recipients of MATOC Notifications

- Notifications go out to subscribing federal, state, and local public agencies these agencies also may monitor RITIS or receive RITIS-based automated data feeds
- MATOC Monitors Other Agencies on an Ongoing Basis
 - Public safety, transportation, other public agencies communications, social media













MATOC Resources

Systems Monitored

 Regional Integrated Transportation Information System (RITIS), CapWIN, WebEOC, NCR Dashboard, HSIN NCR Connect, Video Sharing Platforms (MView/Claris), Public Safety & Media Scanners, Local-Regional-Statewide Alerts, Commuter Bus & Rail Operations, Weather, DOT mobilization plans, and Social Media (Twitter & Waze)

Communications

Phone, CapWIN, MATOC Alerts (Everbridge), RICCS Alerts, TMARS (800Mhz radio)

- MATOC Staff provide
 - Enhanced monitoring of the area's transportation network
 - Weekly travel advisories (planned & special events)
 - Incident and severe weather based coordination activities
 - Onsite and online RITIS training
- Other RITIS related tools
 - Probe Data Analytics (PDA) Suite Various traffic data visualizations
 - RITIS Meeting Collaborative decision making tool

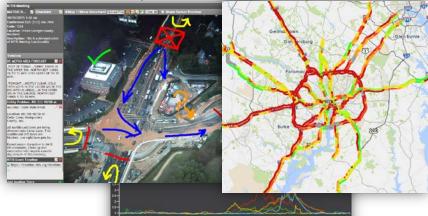














MATOC's Area of Interest

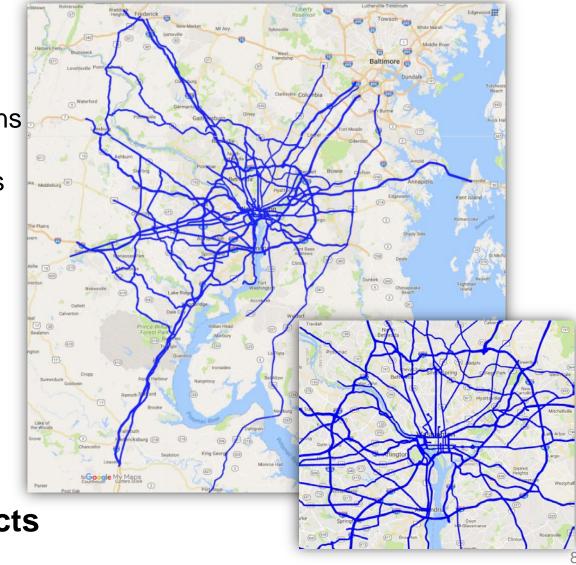
Area of Interest

- 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 evaluate ripple effects



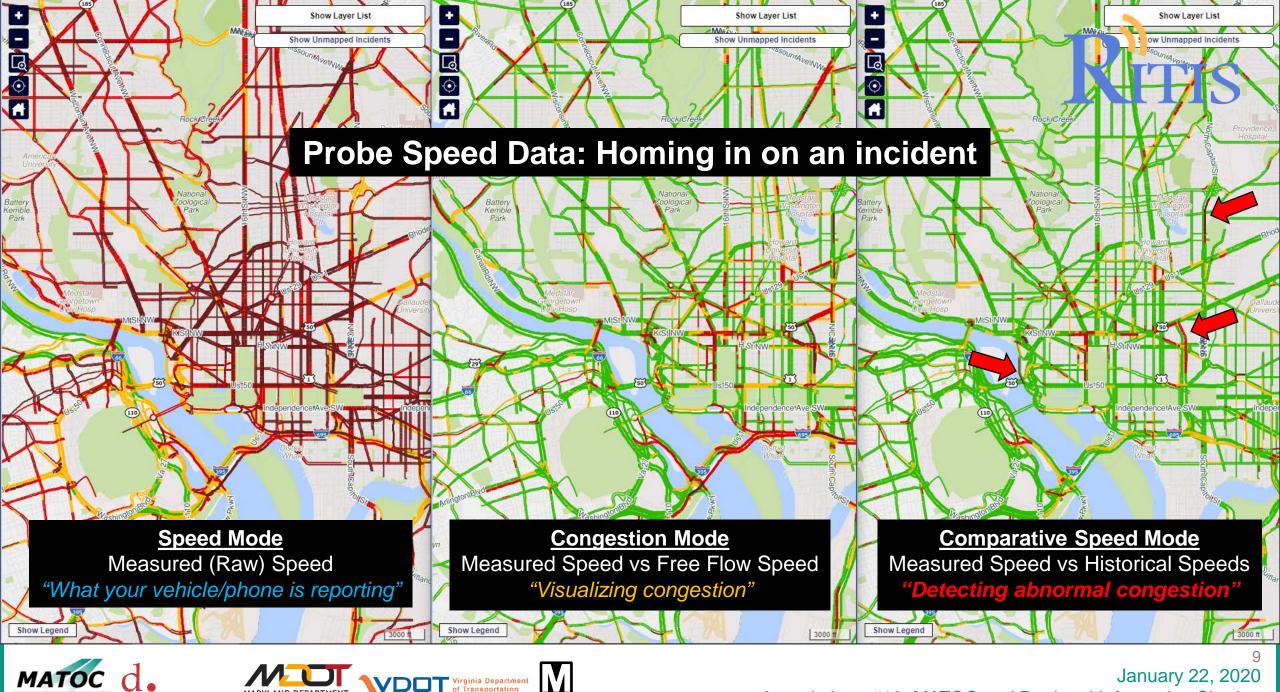










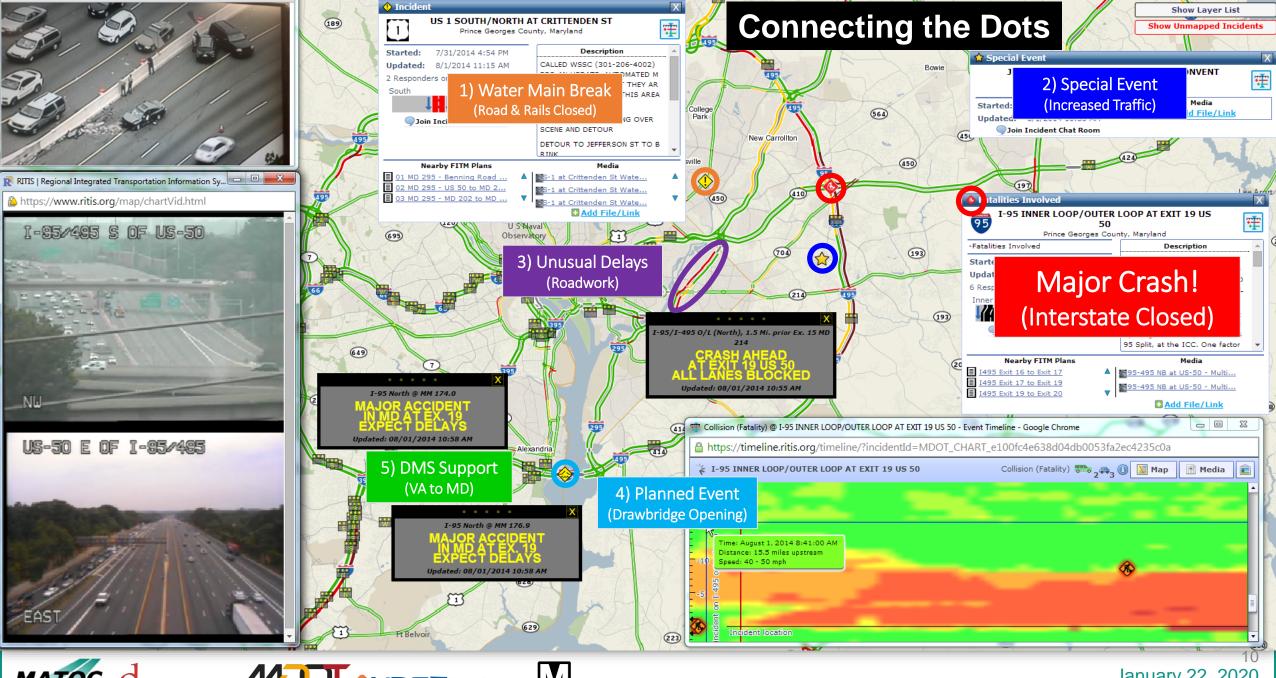






















MATOC's Triggers and Incident Classifications

Triggers

- Capacity: 50% travel lanes closed
- Incident Duration: >30 minutes
- Queue: >4 mile delay (freeways)

Institutional knowledge

- Operator experience and intuition
- Incident response activity
- Speed probe data

Incident Classification

- **Minor** (<30min)
- Intermediate (>30min to 2hrs)
- Major (>2hrs)







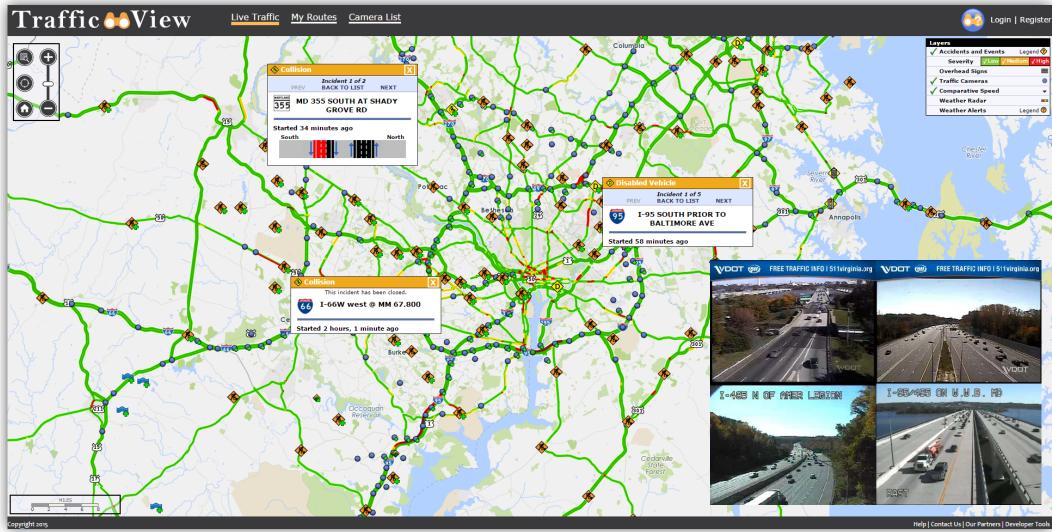






www.trafficview.org (Public Version of RITIS)

















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MATOC Facilitator

Metropolitan Area Transportation Operations Coordination Program

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RITIS Information: www.ritis.org/intro

MATOC Website: www.matoc.org

Twitter: @MATOC













District of Columbia

DC Homeland Security and Emergency Management Agency

Clint Osborn, Chief - Division of Operations

MWCOG Transportation Planning Board January 22, 2020 Meeting



DC Joint All-Hazards Operations Center (JAHOC)











JAHOC Center Management

DC Watch: Alert, warning, and notification; resource management; incident support **Local-level NCR Watch:** Alert, warning, and notification *in coordination with FEMA*

FEMA Office of National Capital Region Coordination

Federal-level NCR Watch: Alert, warning, and notification in coordination with NCR Watch

District Traffic Management Center (TMC)

DC Traffic Management: Traffic monitoring, Roadway Operations Patrol (ROP) Team coordination, traffic control officer (TCO) coordination, and Inter-jurisdictional TMC Coordination

MPD Emergency Liaison Officer

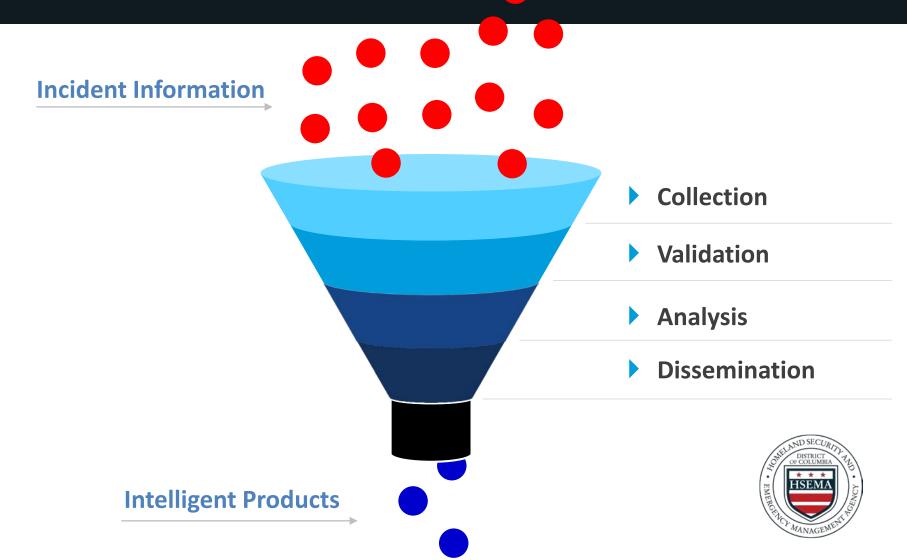
Coordination with Law Enforcement: Liaison officer to coordinate with MPD's Command Information Center to streamline communications during incidents

DCPS School Police

DCPS Facility Monitoring: Monitoring school facility and emergency needs across the public schools to streamline communications during incidents



Information Processing



Collection - Information In

Automated Feeds – Human Review

Computer-Aided Dispatch

Central Email Account/Listservs

National Weather Service

RITIS & WMATA Service Alerts

DataMiner

Staff Collected Sources

Staff in the Field

MView Camera Feeds

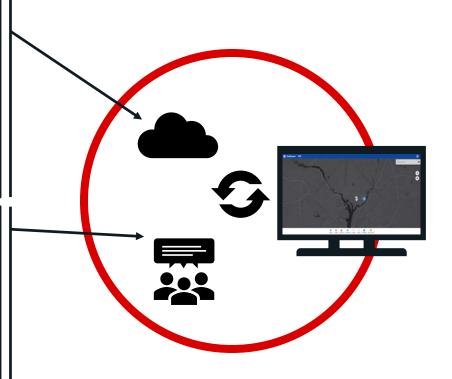
Telephone Calls

Open Source Media

Social Media

Radio: NAWAS, WAWAS, DENS, HAN

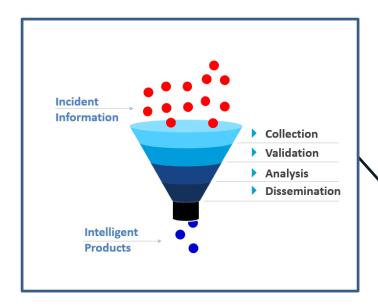
Partners Operations Centers



Metrics that Matter – JAHOC Local Watch

In 2018: Received over 295,000 alerts In 2020 Q1: processed 2,670 incidents

Validation - Getting the Best Look at the Info





Do we have the correct information and all of it?

Challenges with Validation

Initial information is often wrong

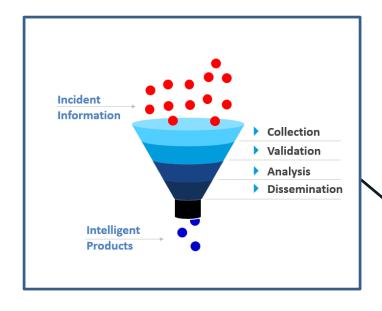
Validation takes time

Information keeps changing: "just give it another minute!"

Multiple (competing) information sources

When is information "good enough"?

Analysis - Making the Most of the Info





What does the information tell us - what actions does it trigger for the audience?

Challenges with Analysis

Varying triggers and thresholds

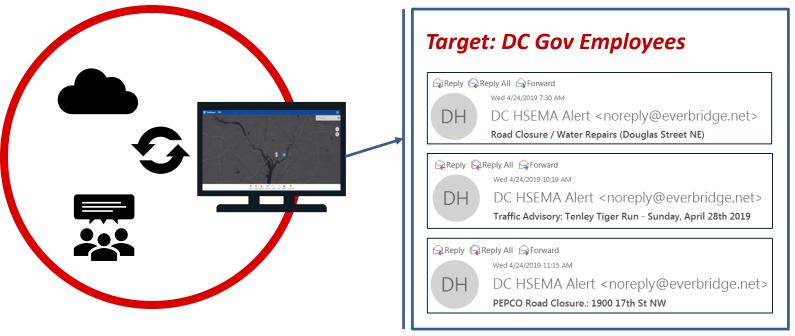
Different products using the same information

Different audiences need different information

The human factor comes into play and acuity can change the calculus

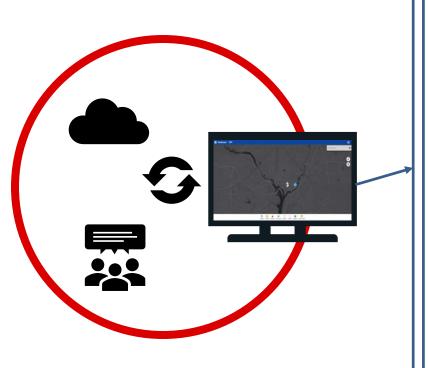
Pause, probe, or publish?

Dissemination - Internal DCGov Alerts





Dissemination - Public AlertDC Notifications*



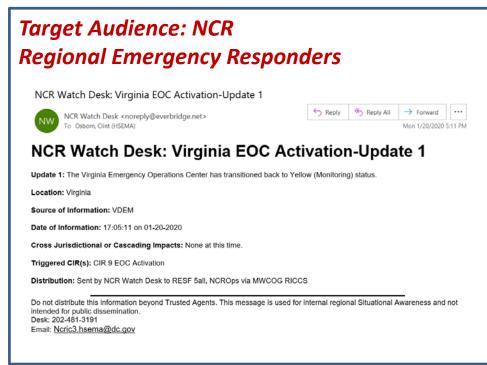
*MATOC receives these





Dissemination - NCR Watch Desk Alerts*





*MATOC receives these



Dissemination - FEMA Watch Desk Alerts*



Target Audience: Regional and Federal **Emergency Response Leaders**

FEMA Region III SPOT Report 20-006 (CIR# 2, 5): Virginia State of Emergency (UPDATE 3)



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Report: 20 - 006

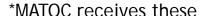
Initial/Update: Update 3

CIR(s) Triggered: #2 A FEMA Declaration is approved by the President, or a State of Emergency/Preparedness is declared by a State Governor or County Government, in Region III. State request for FEMA Declaration or PDA/IMAT Teams. Any SBA Declaration issued in Region III. #5 Changes in Emergency Operations Status EOC activation level at the State or County level

Report Date/Time: Monday, January 20, 2020 / 4:00 pm

Updates in Blue:

Summary (BLUF): Per the Virginia Governors Website: Governor Northam of Virginia Declares State of Emergency in advance of Capitol Square Demonstration. Credible intelligence gathered by Virginia's law enforcement agencies indicates that tens of thousands of advocates plan to converge on Capitol Square for events culminating on January 20, 2020. This emergency declaration is temporary, and extends from Friday, January 17, 2020, at 5:00 pm until Tuesday, January 21, 2020, at 5:00 pm.





Mon 1/20/2020 4:00 PM

Discussion

- Incident Examples:
 - Incident on a Roadway
 - March 28, 2019 Capital Beltway tanker truck incident
 - Incident Away from a Roadway but Impacting a Roadway:
 - October 11, 2019 building fire alarm incident impacting Independence Avenue

Questions and discussion



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