Webcast and audio information

> The call-in phone number is:

1-719-867-1571 & enter 725437# at the prompt

> Your phone line will be muted throughout the webcast

> Please press *0 to speak to an operator for questions regarding audio

> Please call 917-974-4810 for difficulties with the web or audio application

> This web meeting is being recorded

> All materials will be available to participants after the web meeting
Asking questions

› Please pose your questions using the chat box

› Questions will be monitored, then answered by the speakers during their presentation or at the end of the webcast
Welcome & introductions

Denise Markow, PE
I-95 Corridor Coalition TSMO Program Coordinator
DMarkow@i95coalition.org

Michael Pack
CATT Lab Director
PackML@umd.edu

Jason Dicembre
Maryland SHA TMC Operations SOC Manager
JDicembre1@sha.state.md.us

Andrew Worrell
DC HSEMA IC3 Program Manager, Operations
andrew.worrell@dc.gov
User Groups

- Organization, interaction, function

(RITIS example)
Meeting agenda

- Follow up on Action Items from the Last Meeting
- Survey Results
- Co-chair Update
- Spotlight Presentations
- Pack’s Pointers
- RITIS Roadmap
- Agency Input Session
- Wrap up
Follow-up on last meeting’s action items

- We’ll provide updates on...
  - Agency survey results
  - Co-chair selections
  - The RITIS Roadmap (prioritizing features & functions)

...and have some *really interesting* spotlight presentations in store!
Follow-up survey

> After our inaugural meeting, we conducted a brief follow-up survey of 72 representatives from:

- Federal agencies
- State DOTs
- MPOs
- Authorities
- Counties / cities
- Emergency management
- Law enforcement
- Universities
- Consultants

Thanks for taking part!
Survey results

Did you find the meeting useful/informative?

- Yes, 76%
- Somewhat, 24%
- Not Really, 0%
Survey results

Did you find the Spotlight Presentation useful?

Yes, 94%

Not Really, 6%
Survey results

Are you Interested in participating in future meetings?

Yes, 92%

No, 8%
Survey results

Does holding quarterly meetings work for you?

- Yes, 90%
- Less often, 8%
- More often, 2%
Survey results

What key focus areas are important to you?

- TSMO: 70.0%
- Incident Management: 65.0%
- Data Sharing: 60.0%
- Performance Management: 55.0%
- Regional Collaboration: 50.0%
- Planning: 45.0%
- Emergency Management: 40.0%
- Travel Information: 35.0%
- Evacuation Coordination: 30.0%
Survey results

› Takeaways...

1. Everyone found the meetings informative at some level
2. The spotlight presentation was a BIG hit
3. Virtually everyone will continue participating
4. Most prefer quarterly meetings
5. We’ll concentrate on the top five key focus areas
I-70 Fatality Incident / After Action Review

Jason Dicembre
Maryland Department of Transportation
Occurred on October 29, 2016 at around 4:30 AM

Located on I-70 West, past Exit 80 - MD 32 Sykesville Rd

A car hit a deer, then a tractor trailer hit the car, and jack-knifed, resulting in one fatality

All lanes were closed in the WB direction for over 7 hr

It took about 11 hr to fully clear the incident and reopen all lanes
### I-70 fatality incident

> Several RITIS / PDA tools were used to conduct impact analysis and provide visual content as part of an After Action Review...

<table>
<thead>
<tr>
<th>EQT/ Incident Timeline</th>
<th>Region Explorer</th>
<th>Trend Map</th>
<th>Congestion Scan</th>
<th>User Delay Cost</th>
</tr>
</thead>
</table>

I-95 Corridor Coalition • [RITIS User Group](#) • The Center for Advanced Transportation Technology Laboratory
I-70 fatality incident

- Incident Timeline...
  - Used to review responder response times, lane & event clearance times, and Operator notes.
  - Timeline graphics are inserted in to AARs
  - “Heat Map” is used to see trends in incident activity

EQT analyzes your ATMS event data for insight into event impacts on your roadway system, through auto-created tables, charts and maps.

Timeline displays how an incident is being managed by showing the relationships between responder notifications & arrival times, lane status, traffic queues, clearance times, communication logs, CCTV, and DMS.
I-95 Corridor Coalition  RITIS User Group  The Center for Advanced Transportation Technology Laboratory

March 9, 2017
Event Query Tool - Heat Map

Events from MDOT CHART that started between September 1, 2016 and October 31, 2016
I-70 fatality incident

> Region Explorer...

- Used to determine the choke points of traffic during the incident, and future detour points

- Helps improve Quick Clearance practices by honing in on the effects on tertiary roadways

An interactive traffic conditions app that can be used to explore the impacts of bottlenecks and incidents along a road, in real-time, or previous point in time.
I-70 fatality incident

- Trend Map...
  - Used it to determine the significance of the delay over the time of the incident’s duration
  - Using it as a case to promote Quick Clearance practices
I-70 fatality incident

- Congestion Scan...
  - Used to view historical extent of the queue
  - Queue graphics are inserted into AARs for emphasis

Analyze temporal and spatial conditions on one or more stretches for road, selecting from several mobility and reliability performance metrics.
Comparing Oct. 29th to the prior Saturday

October 22, 2016

October 29, 2016
I-70 fatality incident

- User Delay Cost...
  - The tool we use more heavily
  - Helps put things into dollars and cents, to prove the value of our TSM&O program
  - *Crucial* to our program’s funding is to prove the benefit of Quick Clearance practices
  - By analyzing the cost of a long-duration incident, we can better make the case for additional or improved resources

Example: for this incident, we were able to make the case that the State Police need an adjustment to how it manages its tow list (i.e.; a company should be able to prove that it has the necessary equipment for heavy duty operations)
What’s the User Delay Cost on the following roads

Assuming an Average Value of time of:
$16.79 per hour (Passenger Vehicles)
$86.81 per hour (Commercial Vehicles)

(NOTE: User Delay is calculated any time speeds fall below free-flow)
User delay on I-70 and nearby arterials

Normal Saturday = $6k - $7k

Oct. 29th Saturday = ~$77k
Worse than Friday the day before!
I-70 fatality incident

› Takeaways...

- **Now I get it**
  ◦ Tools provide quick access to data and show the benefits of quick clearance practices and the value of TSM&O Programs

- **It is all about justification**
  ◦ Gives ammunition for requests for funding, positions, and equipment

- **It is not a perception, it’s a reality**
  ◦ Tools provide data-backed conclusions for After-Action Reports
  ◦ Assists with making cases to external (and internal) partners about improving current practices
  ◦ Over time, we can analyze trends along individual corridors
Thanks!

For more information, please contact:

Jason Dicembre
TMC Operations SOC Manager
Maryland Department of Transportation
State Highway Administration
Office of CHART & ITS Development
jdicembre1@sha.state.md.us
RITIS Situational Awareness Capability: Emergency Management Partnerships

Andrew Worrell
District of Columbia Homeland Security and Emergency Management Agency
IC3 RITIS User’s Group Brief

RITIS Situational Awareness Capability: Spotlight on Emergency Management Partnerships
Agenda

- Information Collection and Coordination Center (IC3) background
- National Capital Region (NCR) Composition
- Alert Notification Message Analysis
- RITIS-based Essential Elements of Information (EEI)
- Cascading Impacts/Consequence Management
- Dashboard Management/RITIS Integration
- Summary of RITIS Advantages
- Contact Information
Information Collection & Coordination Center (IC3)

- **IC3 Mission**
  - Improve regional situational awareness
  - Enhance regional coordination of information

- **IC3 Objectives**
  - Identify regional priorities for information sharing
  - Monitor emerging incidents and potential threats, and provide regionally-focused situational awareness – beyond Notification

- **IC3 Outputs**
  - RICCS-based Alert Messaging – SPOT Reports based on CIR thresholds
  - Dashboard Incident Management

- ✓ 21 Incident Types, Critical Information Requirements - Thresholds
- ✓ Federal, State, and Local jurisdictional partners
The National Capital Region (NCR) is comprised of 23 jurisdictions, including the District of Columbia.

Alert notification analysis

MATOC Alert: TT Crash. I-95 SB past MD-32. Ho Co, MD.
MATOC Alerts <conf-1186802727@everbridge.net>

Sent: Thu 3/2/2017 2:47 PM
To: Hoesma, NRIC3

MATOC can be reached by email at operations@matoc.org

For your situational awareness:

Incident: Tractor Trailer Crash (involving overturned tractor trailer)
Location: I-95 SB past MD-32 (Exit 38). Howard County, MD.

All southbound lanes are blocked; traffic is being diverted to MD-32. Motorists stuck past the diversion point are being allowed past the incident using the right shoulder. Southbound delays to MD-32 begin at MD-175, approximately 3 miles. Heavier than normal traffic should be expected on MD-295 and US-29.

RITTIS Timeline: https://timeline.ritis.org/timeline/?incidentId=MDOT_CHART_7b00b711bb7500b80058fa2ee4235e0a

MATOC Operations
301-614-3703

Sent by MATOC Staff via MATOC Alerts notification system

Analyzing Incident Characteristics:
› Incident Type
› Thresholds
› Critical Info Reqmts.
› (CIRs) components
› Essential Elements of Info (EEIs)
RITIS-based incident EEI development
Cascading impacts/consequence management
Dashboard management/RITIS integration

- Operators View at HSEMA, FFX, MGC, ARL, and PGC

Alert Inbox
- Alert triage
- Incident Creation

Activity/Incident
- CIR trigger
- Threshold exceeded
- Log Entry
- EEIs
- GIS location

Event File
- Multi-Incident/Alert association
- Log Entry
- TDLs
- Consequence Management

GIS
- Map Overlays
Advantages of RITIS

› Increases efficiency for Alert Messaging
› Comprehensive tools and resource information
› Vetted information
› Ability to develop Essential Elements of Information (EEIs)
› GIS capabilities with multiple layers:
  - Cameras (DDOT, MDOT, VDOT)
  - Multiple Incident types
  - Probe Speed Data
  - Metro / Public Transit Routes
  - Weather Radar
HSEMA Contact Information

› JAHOC Watch Desk
  - EMADC.ECC@dc.gov
  - 202-727-6161

› FEMA-NCR Watch Desk
  - FEMA-NCR-WATCH@fema.dhs.gov
  - 202-610-1483

› IC3 Watch Desk
  - NCRIC3.hsema@dc.gov
  - 202-481-3191
Thanks!

For more information, please contact:

Andrew Worrell
IC3 Program Manager, Operations
District of Columbia Homeland Security and Emergency Management Agency
Ncric3.hsema@dc.gov
Using chatroom in RITIS

› Sign into RITIS Chat to be part of the action...

1. Click “Sign In”
2. From the drop down, click on a user and start chatting, or;
3. Click on an Event icon to join a specific event chat.
Setting your Region of Interest

› Cutting down on clutter in the Incident List...
Setting your Region of Interest

› Cutting down on clutter in the Incident List...

› Applies ONLY to the LIST
Applying filters

› But don’t forget about them…
› The apply to the MAP and the LIST
# RITIS roadmap

## Calendar Year 2017

### Q1 2017
- Separate Planned Events Layer
- WAZE Data Integration
- Flash migration for Probe Data Analytics
- Evacuation Documents Upgrade
- Basemap updates
- New CCTV Feed Integration
- Additional Agency-funded Customization/New Features*
- Additional Agency-funded new data sources*

### Q2 2017
- WAZE Data aggregation and speed improvements
- National Transit Data Integration through GTFS Feeds (real-time and schedules)
- Flash Migration for Timeline
- Basemap Updates
- Dashcam CCTV integration for MDSHA
- Additional Agency-funded Customization/New Features*
- Additional Agency-funded new data sources*

### Q3 2017
- Tiling infrastructure modernization
- Evacuation Documents Upgrade
- Basemap updates
- CCTV Enhancements
- Weather Radar Mapped to TMCs
- WAZE Analytics
- Additional Agency-funded Customization/New Features*
- Additional Agency-funded new data sources*

### Q4 2017
- Basemap updates
- Police/Fire/Rescue Radio Audio on Timelines
- Evacuation Documents Refresh
- RITIS Input early designs
- TBD
- Additional Agency-funded Customization/New Features TBD
- Additional Agency-funded new data sources TBD

**NOTE:** Final list of priorities to be defined and prioritized with guidance from the RITIS User Group which will consist of members from each state in operations, planning, and research.

* - each state has the option of customizing features and/or building new functionality if state funding is available.

† - each state has the option of adding new data sources as requested if state funding is available.
Agency input session

“What’s on your mind?”

“We’re here to help!”
Reminder: How to get access

1. www.ritis.org
2. Click “Request an Account”
3. You’re on your way...
Member involvement (a reminder)

The **key** to success of the RITIS User Group is **your** involvement:

- Share common or unique use of the tools in your work
- Present after-action reviews, lessons learned
- Demonstrate accomplishments, big or small
- Contribute ideas, suggestions, feedback
- Help prioritize and guide RITIS feature enhancements
Free RITIS training

MATOC Staff offer free monthly webinars to transportation, public safety, and emergency management agencies interested in incorporating the RITIS platform into their operations.

Remaining 2017 Webinar Schedule

<table>
<thead>
<tr>
<th>RITIS 101: Learn the Basics</th>
<th>RITIS Refresher / Advanced Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>• March 24&lt;sup&gt;th&lt;/sup&gt;</td>
<td>• April 28&lt;sup&gt;th&lt;/sup&gt;</td>
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<tr>
<td>• May 26&lt;sup&gt;th&lt;/sup&gt;</td>
<td>• June 23&lt;sup&gt;rd&lt;/sup&gt;</td>
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<td>• July 28&lt;sup&gt;th&lt;/sup&gt;</td>
<td>• August 25&lt;sup&gt;th&lt;/sup&gt;</td>
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<td>• September 22&lt;sup&gt;nd&lt;/sup&gt;</td>
<td>• October 27&lt;sup&gt;th&lt;/sup&gt;</td>
</tr>
<tr>
<td>• November 17&lt;sup&gt;th&lt;/sup&gt;</td>
<td>• December 15&lt;sup&gt;th&lt;/sup&gt;</td>
</tr>
</tbody>
</table>

If you are interested in attending a webinar or would like additional information about these sessions please email: training@matoc.org
Free video tutorials

› Not sure how to use the tools? Come watch a video!

Analyzing Police Crash Records

ATMS Data Analytics with ICE

Transportation Project Prioritization

https://vimeo.com/179830512

https://vimeo.com/179841494

https://vimeo.com/179829037

(More are available; new videos added regularly)
Next steps

✓ Schedule in-person (optional) User Group Meetings which will include
  ✓ hands-on training
  ✓ First-look feature review
  ✓ Early design feedback
  ✓ Agency tour

✓ Announce co-chairs later this month

✓ Identify Agency Use-Cases and/or AARs for the next User Group Meeting
Contact info

I-95 Corridor Coalition TSMO

› Denise Markow | 301.789.9088 | dmarkow@i95coalition.org

RITIS technical support

› support@ritis.org
Thanks!

These slides will be made available after the call.

Next meeting

June 8th, 2017 • 10:30 AM – 12:00 PM