

Metropolitan Area Transportation Operations Coordination

MATOC Overview for MWCOG NCR Winter Weather Briefing

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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

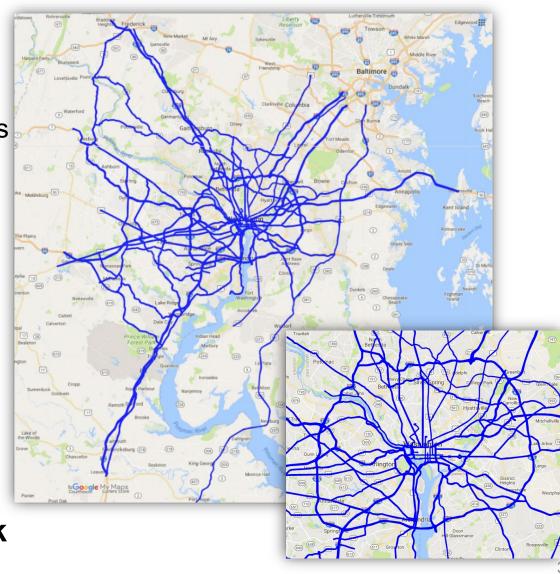














MATOC Operations Center

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 4th, 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)





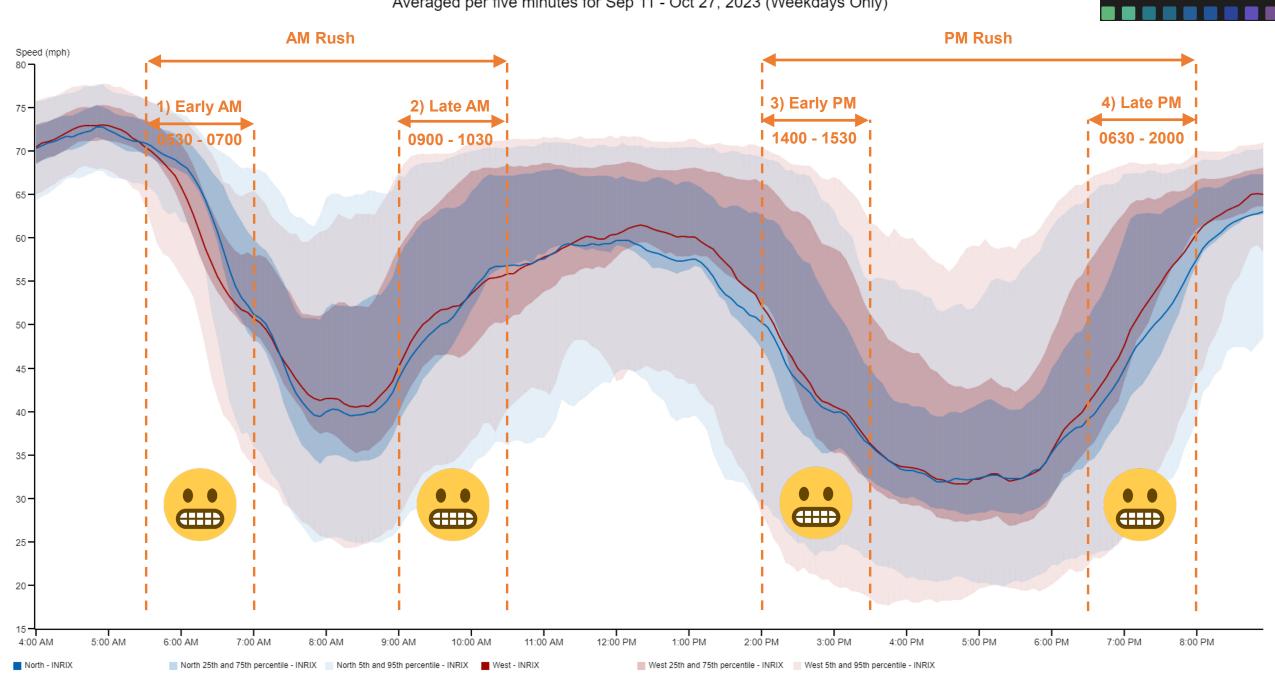








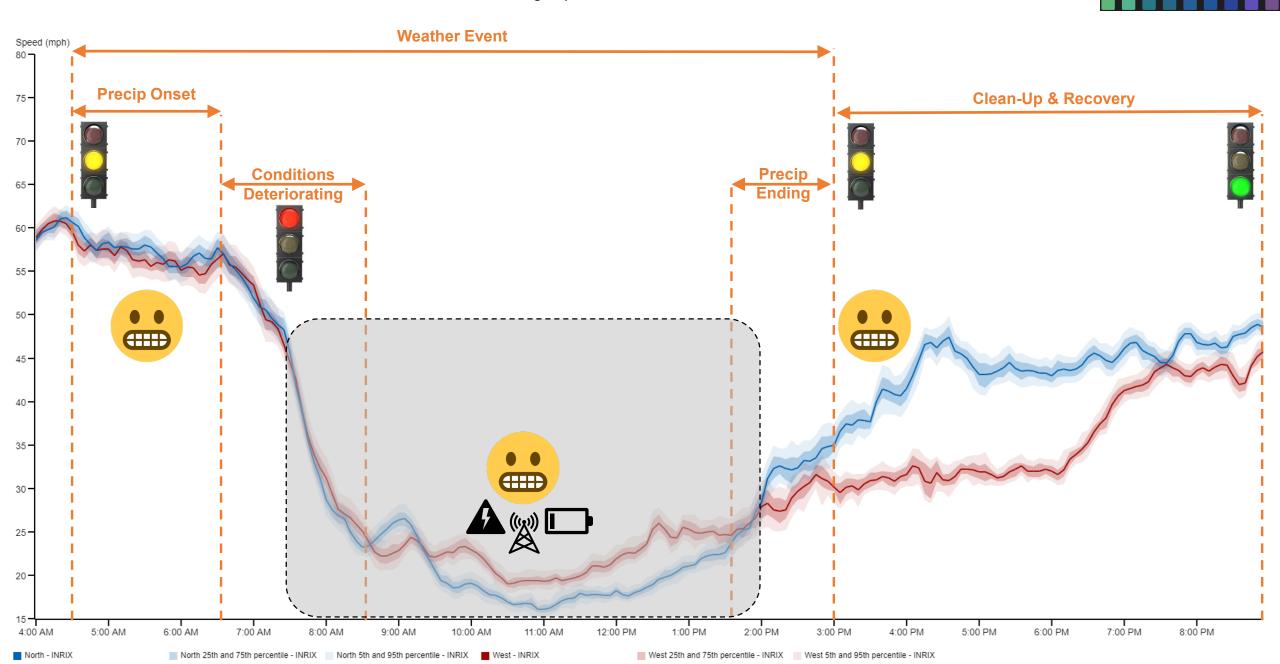
Averaged per five minutes for Sep 11 - Oct 27, 2023 (Weekdays Only)



Speed for I-495 (Capital Beltway)

Averaged per five minutes for Jan 3, 2022

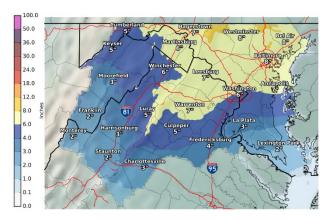




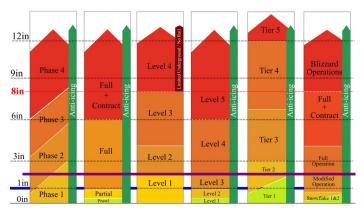


Focus Area: Winter Operations

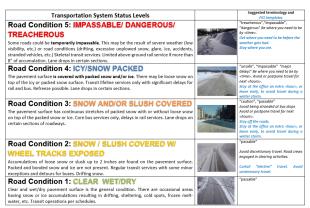
- MATOC Severe Weather Coordination Working Group (SWCWG) serves as a forum for select DOT maintenance representatives to share/discuss mobilization and recovery plans before, during and after widespread severe weather events
- MATOC Transit Task Force (TTF) is a forum for regional/local transit operators 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.	35%	"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.	The second secon	"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 <hour>, or leave early, to avoid travel during a winter storm.</hour></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.		"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.	The second secon	"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









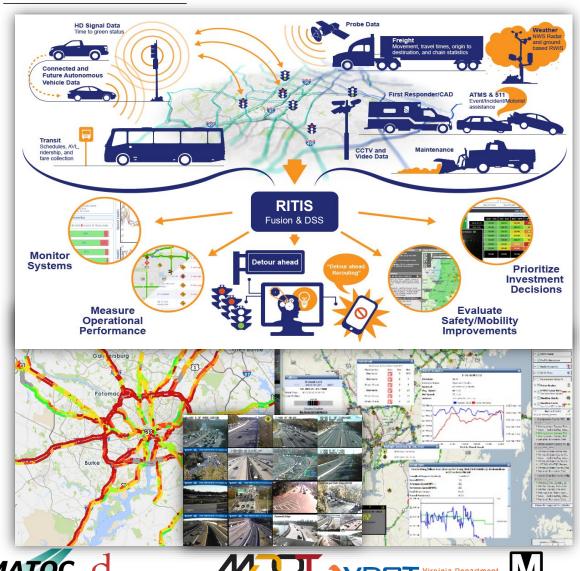




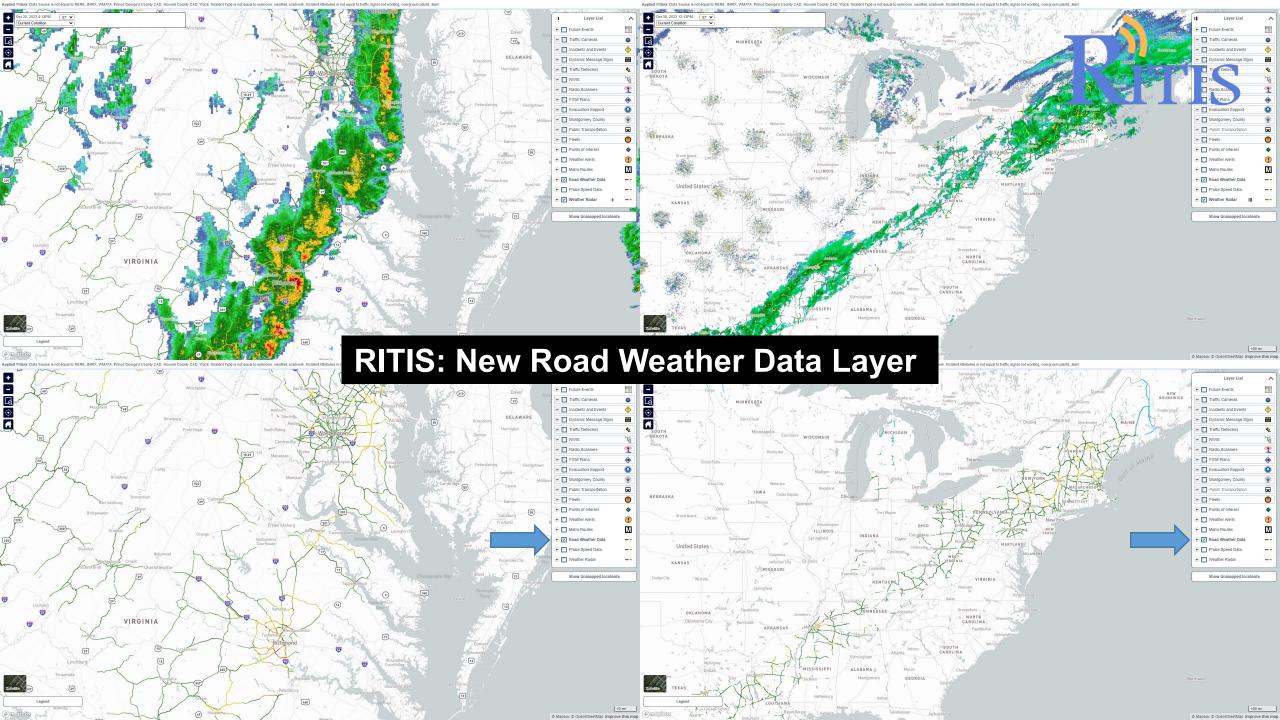


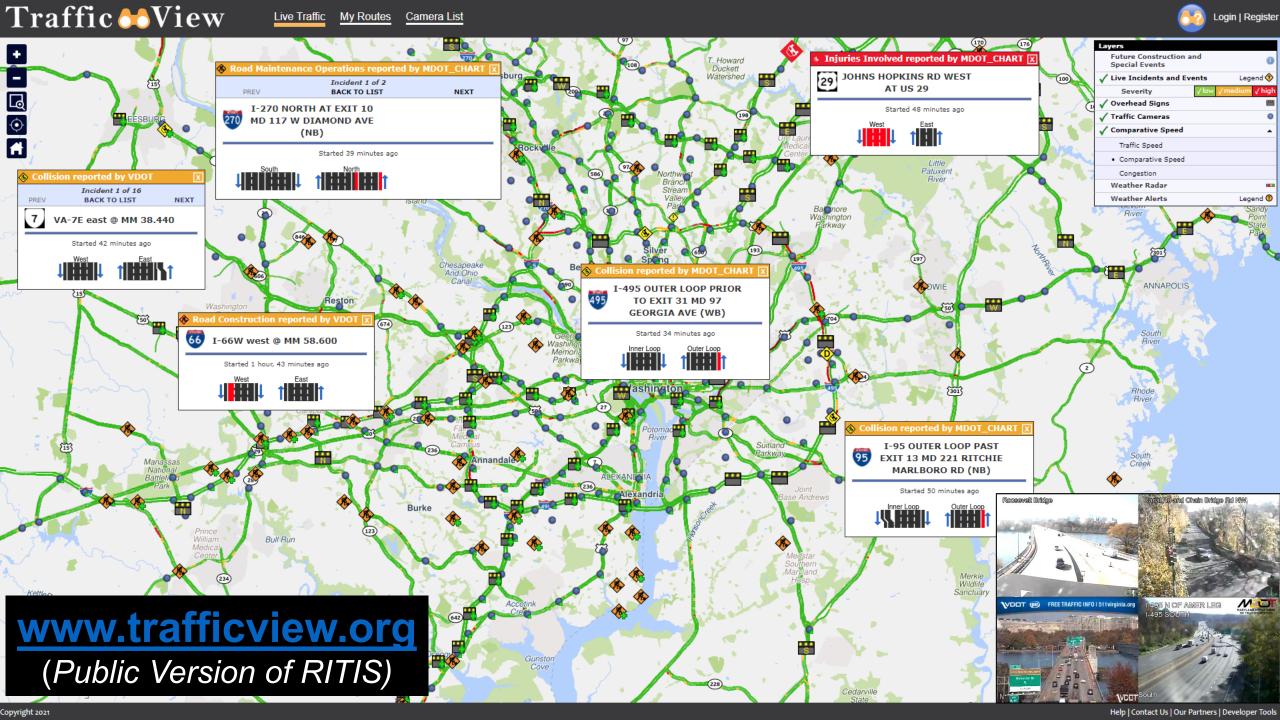
Regional Integrated Transportation Information System





- 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: Fri, Nov 17 @10:00AM EST
 - www.matoc.org/training
 - Training requests: training@matoc.org







Questions



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RITIS Information: www.ritis.org/intro

MATOC Website: www.matoc.org

Twitter: @MATOC

RITIS Training Opportunities: www.matoc.org/training









