Agenda

10:00 AM   **Welcome & Introductions - Joan McDonald**

10:05 AM   **National Perspectives on Transportation Programs – Joan McDonald**
- **Transportation Research Board – Neil Pedersen, Executive Director**
- **Congress & Authorization – Colin Peppard, US Senator Carper Staff**

10:45 AM   **I-95 Corridor Coalition Programs & Business – George Schoener**
- **Project Updates & Accomplishments**
  - Summary of Recent Program Accomplishments .... Page 4
  - RITIS Program and Demonstration .... Page 8
  - Truck Parking Project Update .... Page 10
- **Current & Upcoming Year's Budget & Work Plan**
  - Financial Statement .... Page 11
  - Current Projects Underway .... Page 12
  - Proposed Projects (2015-2016 Program Year) .... Page 13

12:00 PM   *Lunch (provided)*

12:45 PM   **Emerging & Agency Programs – Joan McDonald**
- **Facilitated Discussions Regarding:**
  - Connected and Autonomous Vehicles .... Page 16
  - Significant Event Coordination .... Page 17
- **Questions to be Addressed on the Above Topics:**
  - Are there recent experiences to be shared with other agencies?
  - If so, were there any unusual regional (or cross-border) challenges associated with the experiences?
  - What are the lessons learned?
  - How can the I-95 Corridor Coalition assist in the future?
    - Communications and/or coordination among agencies/jurisdictions?
    - Advancing tools (i.e., RITIS, etc.)
    - Training
    - Information sharing
    - Other

2:00 PM   **Adjourn**

For those Attending in Person:
DIRECTIONS TO THE MEETING

Location: Metropolitan Washington Council of Governments – Third Floor Board Room
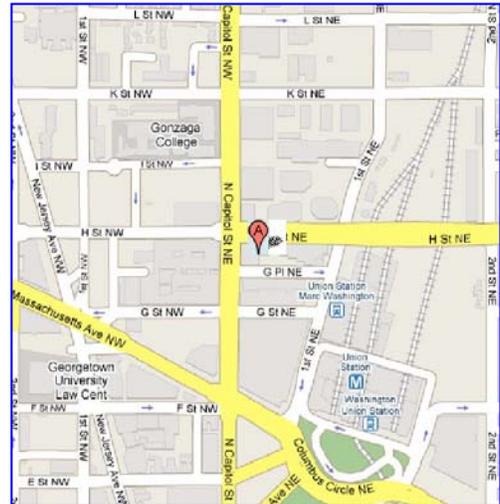777 North Capitol Street, NE, Washington DC 20002

By Metro: Take the red line to Union Station. Make sure to take the north exit onto First Street, NE (When exiting the train, the north exit escalator is at the end of the platform). Turn right on to First Street. Walk two blocks and turn left onto G Place (not to be confused with G Street, which is a block before G Place). COG is located at the corner G Place and North Capitol. It is located directly across from the U.S. Government Printing Office.

By Car/Transit: Details can be found on the web at: www.mwcog.org/contact/directions

COG's Parking Garage
The parking garage entrance is on First Street, NE. If you do drive to COG and discover that our garage is full, a list of other garages in the immediate neighborhood is provided below. The lot with the greatest number of spaces is located at Union Station. Other Parking Garages in the Area:

- **Union Station**
  Accessible from Metro red line
- **PMI Parking** (0.1 miles)
  10 G Street, NE
- **Colonial Parking** (0.1 miles)
  750 1st Street, NE
- **Marc Parc Inc.** (0.1 miles)
  825 North Capitol St, NE
- **Colonial Parking** (0.12 miles)
  810 1St Street, NE
- **Republic Square** (0.2 miles)
  25 Massachusetts Ave.
- **Colonial Parking** (0.06 miles)
  800 North Capitol Street, NW

For those Participating Remotely:
WEBCAST CONNECTION INFORMATION

<u>Connection Information:</u>
Please connect to both the audio and visual elements:

<u>Audio:</u>
Dial 1-866-299-7945 and enter 6269325#
(for international calls, dial 1-832-431-3335 and enter 6269325#; the international line is not toll-free).

<u>Visual:</u>
Link to: www.mmstartvisuals.com
Under "Join," enter Conference ID 6269325
Enter your Name and Email Address

HANDOUTS: SECTION 1
I-95 CORRIDOR COALITION PROGRAMS & BUSINESS

- **SUMMARY OF RECENT PROGRAM ACCOMPLISHMENTS**

- **REGIONAL INTEGRATED TRANSPORTATION INFORMATION SYSTEM (RITIS) PROGRAM AND DEMONSTRATION**

- **TRUCK PARKING PROJECT UPDATE**

- **CURRENT & UPCOMING YEAR'S BUDGET & WORK PLAN**
    - FINANCIAL STATEMENT
    - CURRENT PROJECTS UNDERWAY
    - PROPOSED PROJECTS (2015-2016 PROGRAM YEAR)

FACILITATING COMMUNICATIONS ACROSS BORDERS AND MODES

- **Regional Integrated Transportation Information System** – Continued expansion of RITIS, a web-based tool, available to all Coalition Full Member agencies, which organizes and fuses data – from multiple sources and states – into useful information to support research, planning, operations, media messages, and public travel information.

- **Collaborative Decision Tool** – The Coalition is developing a corridor-wide tool, internet accessible, to assist member states in regional multi-state communications supporting operational decision making. The tool will be particularly useful in coordination for weather-related and other significant events. It will allow sharing of real-time view of traffic and weather data, evacuation documents, incidents and event information, VMS/DMS postings, road closures, and more.

- **Significant Events Planning and Response:**
  - **Significant Events Response Conference** - Conducted a conference (May 12-13, 2015) with representatives from the entire I-95 region. The Coalition offered/paid travel for at least one person in each Coalition Member State to attend.
  - **New England Winter Operations Regional Workshop** – Conducted a workshop (September 24, 2014) with outcomes including Coalition's gathering of States' VMS/DMS Message Sets and Road Conditions Reporting Classifications for sharing and discussion among the States to provide for common messaging to travelers and to enhance transportation operations center-to-center communications among agencies in the region.
  - **NASTO Significant Weather-Related Events Response Regional Communications Plan** – Developed an information exchange and regional communications program, for situational coordination among states during significant events, through surveys and webcasts with representatives from NASTO States. The final program was delivered in December 2014, and details contact protocols including who is to call whom and under what circumstances. Many improvements to processes were made during development of this program.
  - **Best Practices-Winter Road Condition Information for Mid-Atlantic/Southern Region -** Conducted a workshop with Mid-Atlantic/Southern agencies to identify current practices related to their traffic management systems and travel information websites. In addition, a national scan of numerous DOT travel information websites was conducted to catalogue the type and format of the road condition information displayed. How agencies display road weather condition information was of great importance to the Coalition member agencies. A final presentation was made via webcast and a report of the findings has been prepared and is available on the Coalition website for use by member agencies. The report can be found at: http://www.i95coalition.org/wp-content/uploads/2015/01/ATMS-ATIS-Winter_Weather-Info-combined-4-27-15.pdf.
  - **Ongoing Monthly Coordination Calls** proceed to further the Coalition's role in significant event planning/response.

- **New Coalition Website** – Launched in April 2015, the Coalition's new website provides users with easy navigation and quick access to Coalition project information, member agency news, travel information, and other important resources for agencies and travelers.

- **Freight Academy List-Serve** – Similar to the Coalition-developed communications systems built for NASTO's Special-Hauling Committee (oversize/overweight permitting) and in use for the Operations Academy, the Freight Academy graduates are now communicating to each other through a list-serve (e-mail group) to seek and share information on freight activities within their regions.

- **TMC-to-TMC Corridor-wide Mapping** – The Coalition maintains, and recently updated, a "map" of the Transportation Management Centers (and the associated contact information) throughout the corridor. The document was provided to agencies in anticipation of significant weather this past winter.
- **Traveler Information APPs Page** – In September 2014, launched a single webpage – a "One-Stop Shop" containing I-95CC public agency links to travel info pages and social media applications.
- **Facilities Emergency Closures Communications** – Alerted affected Member States to facilities closures or significant emergency construction sites, such as those in New York/New Jersey (Pulaski Skyway), Delaware (I-495 Bridge), and Virginia (I-95 Express Lanes).
- **NASTO SCOHT List-Serve** – Developed and maintain a communications tool, being used by permitting staff at NASTO agencies, for information exchange and best practices sharing.

DEVELOPING ADVANCED/CONNECTING TECHNOLOGIES, AND ENHANCING OPERATIONS & PLANNING

- **Vehicle Probe Project** - Vehicle Probe Project II (VPPII) began in July 2014 with three vendors enabling significantly improved services and lower cost (as much as 50%) for agencies. Data continues to be validated with an emphasis on arterial roadways. A webcast on the fidelity of VPP data on arterial corridors was held in April 2015 and the corresponding report will be available to the member agencies. The Agency Project Team guides the VPP. Informative webcasts are held quarterly providing an open forum for agency information exchange and input.
- **VPP Suite User Group** – Coalition member agencies are actively involved in the evaluation and use of enhancements to the suite of analytical tools created to complement vehicle probe data. Recent improvements and additions to the tools were made in several areas including trend maps, TMC data displays, bottleneck displays, dashboard options, and much more. Quarterly webcasts are held quarterly to explain new functionality and gather feedback from agency users.
- **VPP Suite Trend Maps for Holiday/Event Travel Planning** – Trend Maps in the VPP Suite can be used for travel info notices for holidays and other major events. In December 2014, a webcast was held for agencies to explain who they can employ trend maps for these uses. North Carolina DOT and Metropolitan Washington COG provided procedures and examples on their use of the VPP Suite trend maps, and Virginia DOT, explained the tool they developed in-house (currently using VPP data) for providing Thanksgiving travel information. This webcast was the result of a Coalition project, working with NCDOT, VDOT and UMD CATT Lab, to provide an easier way for member agencies to provide travel information. The trend maps are interactive and animated maps from the VPP Suite that can be embedded in agency websites and distributed in press releases to help inform motorists about historical travel conditions, such as just before, during, and after major holidays. The intent is to inform motorist about expected conditions and allow them to make better departure decisions.
- **Work Zone Performance Monitoring Dashboard** – Introduction of a web-based Work Zone Performance Monitoring Tool which uses agency-provided construction and incident data feeds merged with probe speed data to calculate real-time mobility and safety information within and around a work zone. A webcast was held with member agency representatives to start to identify areas for improvement (within this Work Zone Tool) to meet public agency needs, and to begin the process of deploying the tool to as many interested Coalition members as funding will permit.
- **Analysis of Multi-State Jurisdictional Models for Freight Performance Management and Measurement** - Thru analyses of a sampling of five representative supply chains relevant to the Corridor and nationally, this project is complementing FHWA's Freight Fluidity work to establish a framework for describing and measuring freight system supply chain performance. The project is fully funded by FHWA and project final report results will be presented at 5th International Transportation Systems Performance Measurement and Data for Decisions and Performance Measures in Denver, Colorado, June 2015.

- **Real Time Volume O/D Cooperative Research Initiative** - This project, funded under MCOM 2, is an effort to accelerate the time frame for a viable real-time volume data feed to include freeway, high-end arterial, and major intersections/interchanges. The Vehicle Probe Project (VPP) will provide a calibration/validation test bed and VPP vendors will develop, test, and report on the data. The Coalition has expanded its interest in this project to include freight specific data products. The end goal of this initiative is to partner with vendors to enhance the breadth of commercial data products available to meet the growing needs of road jurisdictions transportation agencies for operations and performance measures/management and to leverage investments by state and local agencies in these products.

- **Truck Parking** - This project, to monitor and disseminate available commercial vehicle parking information at rest areas, is moving forward with system testing of components and communications systems deployed at the Chesapeake Welcome Center (MD) and the Ladysmith (VA) Rest Area. Recruitment for trucking companies to participate is beginning with plans for the project to go live this summer at the two facilities. The Coalition is working with Virginia DOT to expand deployments to additional parking locations in anticipation of Virginia DOT's intention to advance integration of these sites' systems into their Traffic Management System to maintain the project sites past the initial deployment.

- **Freight Data Needs for Planning and Performance Measures** - This project, closely aligned with the Real Time Volume O/D project (VFOD) Cooperative Research Initiative provides for outreach to DOTs and MPOs to identify current and future needs, sources, and opportunities available to Coalition members to support appropriate planning and operations functions for freight, particularly as may apply to freight corridors. Establishment of a freight data user group is underway within this effort to: a.) assess what Coalition agencies are currently utilizing for freight data and/or freight data analysis products, and b.) to represent freight perspectives into the Real Time VFOD Volume Cooperative Research Initiative to help assess usability and methods to conflate data elements such as FHWA NPRMDS and other freight data elements (industry, commercial sources including real time and archive) into the Vehicle Probe Project and to assemble recommendations into the Real Time VFOD Volume Cooperative Research Initiative vendors as to desirable freight data elements or products.

- **Multistate Freight Coalitions & MAP-21 Freight Planning** – Provided and promoted draft language, supporting multistate Coalitions, to Member Agencies for potential use in State Freight Plans and Authorization Language.

- **Service Patrol Benefits** - The Coalition's Service Patrol Benefits project seeded a concept which FHWA has further developed and is now prepared to launch (to promote applications' consistency across state borders). A beta test of the tool is currently being tested by the Coalition.

- **Member Support and Peer-to-Peer Exchange:**
    - Regional Highway Operations Group (HOGs) Meetings – The HOGs activities bring together responders, TMC personnel and others to meet with peers from neighboring jurisdictions:
        - Regional Chairs Meeting – November 10, 2014
        - Delaware Valley – February 12, 2015, with representatives from PA, NJ, and DE.
        - Potomac - February 25, 2015, with representatives from MD, VA, PA, and DE.
        - Tri-State – July 17, 2014 and March 4, 2015, with representatives from NY, NJ, and CT.
        - New England – This upcoming HOGs Meeting has been announced, scheduled for June 18, 2015 in Portsmouth, NH, and participants will include representatives from NH, ME, VT, MA, and CT.
    - Intermodal Committee Meeting and Webcast (April 21, 2015) – The Intermodal Committee is undertaking a number of projects related to multimodal freight and passenger movement, and assisting agencies with coordination of state freight plan activities.
    - Travel Information Services Committee Meeting (October 22, 2014 and March 25, 2015) – At these recent meetings of the Committee, the participants discussed the future of 511, commercial vehicle travel information, information systems security and "hacking" of DMS signs, and participated in "roundtable discussions" on relevant travel information and operational topics.
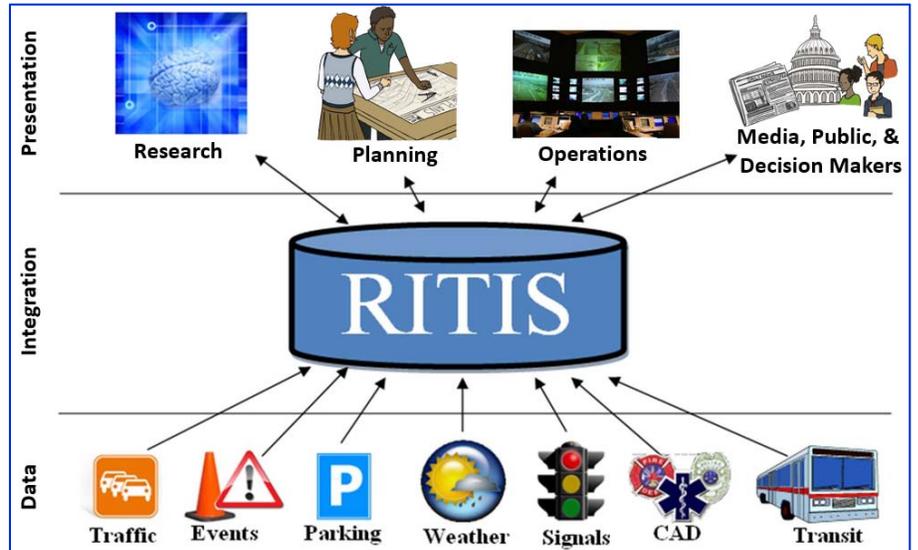
TRAINING FOR CONSISTENT & PROGRESSIVE PRACTICES

- **Freight Academy 2015** – The 2015 Freight Academy session was held April 26 through May 1. Scholarships of $3,500 were provided to participants from FL, GA, MA, MD, NC, NJ, NY, PA, RI, and VA. This 2015 immersion training program was successfully completed with 25 Freight Academy attendees; capstone work is underway and will be completed in November 2015.
- **Freight Academy 2014** – $3,500 Scholarships were provided to agency representatives in NH, RI, CT, NY, NJ, PA, MD, VA, NC, SC, and FL. The immersion week was successfully completed, as well as five post-Freight Academy Capstone Papers and Final Presentations with 25+ Mentors' review – completed November 17, 2014.
- **Traffic Incident Management First Responder Training** – In coordination with FHWA/SHRP2, a Train-the-Trainer 1.5 day session was held in North Carolina (September 23-24, 2014) and another is scheduled for this summer in South Carolina. There were 75 attendees at the North Carolina session.
- **Operations Academy 2014** – The two week immersion program was held October 7-17, with agency staff from the Coalition states of PA, NJ, VA, MD, NC, GA, and FL. Other participants were from MI, CO, MO, WI, TN, CA, AL, KS, and NV.
- **Incident Management Podcasts** – The Coalition has partnered with the TIM Network to deliver quarterly Podcasts on current topics. The first Podcast was conducted on March 27 on the topic of work zones; the guest was John Wilson from Iowa DOT. The Podcast was recorded and posted at: http://www.blogtalkradio.com/timnetwork/201503/27/keeping-work-zones-moving-with-traffic-incident-management. The next Podcast topic will be the National Operations Center of Excellence, with guest Dennis Motiani.
- **Travel Time (Vehicle Probe Data) Training Course** – The Coalition developed this blended (web-based, led by an instructor) course which focuses on one of the most important traffic engineering units of measurement, travel time. Travel time is used to calibrate traffic signals, inform travelers of upcoming congestion, and even to allocate federal funding. A pilot of the course was offered to Coalition members in February, free of charge to participants.

The I-95 Corridor Coalition provides tools and resources to support public agency operations and planning, specifically allowing agencies to see and coordinate beyond individual borders. This multi-state approach to managing the transportation system directly benefits agencies (planning and operations) and travelers (local and long-distance) through improved capabilities for decision-making related to investments, resource allocations, and safety initiatives. A highly evolved tool is the Coalition's Regional Integrated Transportation Information System (RITIS) which organizes and fuses data – from multiple sources and states - into useful information to support research, planning, operations, media messages, and public travel information. There are three main RITIS components including:
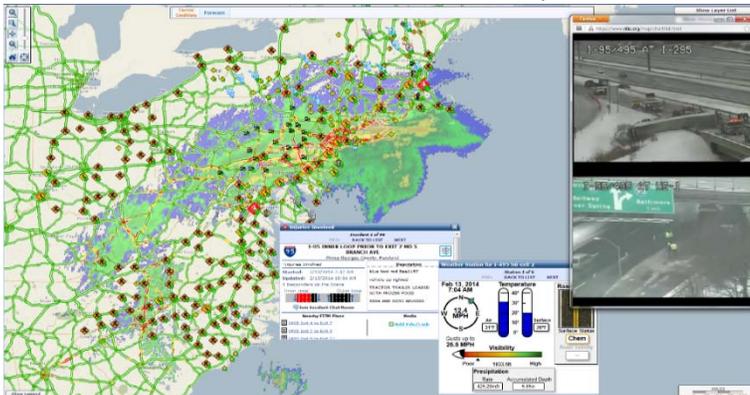
1) Real-Time Data Feeds, 2) Real-Time Situational Awareness Tools, and 3) Archived Data Analysis Tools

Real-Time Data Feeds:
RITIS data feeds are services that provide direct access to real-time incident, event, detector, probe, weather, transit, and other data sources including ITS device status. The RITIS data feeds are designed to facilitate integration of RITIS data back into legacy and third party systems and for third-party application developers that need access to real-time information for dynamic mobility applications. The data feeds provide for implementation flexibility both in data format and retrieval method. The RITIS platform allows each agency to determine which data elements it wishes to provide in the data feed or maintain secure and secluded from other agencies or the public.

Real-time Situational Awareness Tools: The RITIS website allows users with appropriate credentials to view all of the al-time RITIS data in a browser. The website provides users with a dynamic set of visualizations and tools that afford efficient situational awareness. Authorized users can interact with live events, incidents, weather, sensors, radio scanners, response vehicles, and other data sources and devices in maps, lists, and other graphics. Users can apply a rich set of filters, access contact information, and even set up alerts. A Collaborative Decision Tool, built within RITIS, provides a web-based communications platform for multiple participants to view live RITIS output, to share information and to record the webcast for further distribution.

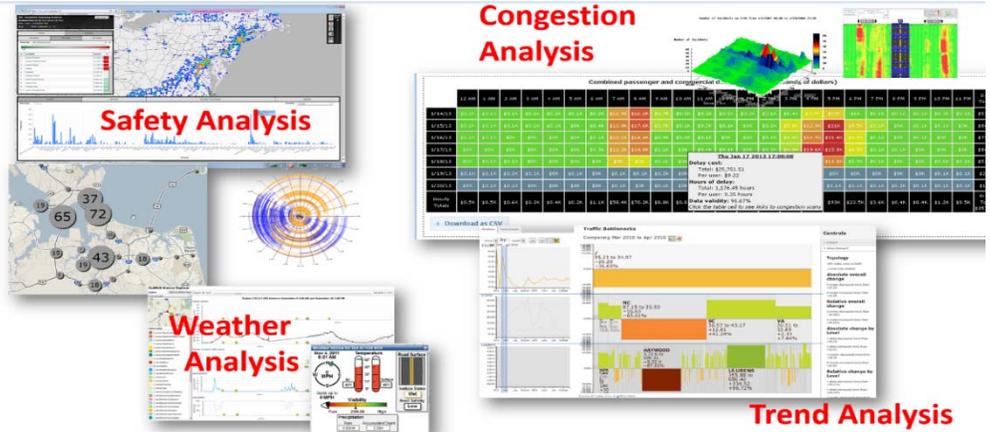**See the RITIS Overview Book for visuals and descriptions of applications and tools at:**
https://umd.box.com/shared/static/bx7v7k0ovcr7wp07r52k4ph4m4atm4e2.pdf

Archived Data Analysis Tools (Vehicle Probe Project Suite):

All data within RITIS is archived indefinitely — meaning that no data is ever deemed "too old" to be removed from user access. I-95 Corridor Coalition members participating in the Vehicle Probe Project (VPP), which requires the payment of a fee, have access to this archived data and to the associated tools allowing users to query, analyze, and derive performance measures from this archive. Many of these tools are highly interactive and dynamic. They have been developed with the user in mind and afford a high degree of freedom to explore the data with minimal training needed.

Data within the archive can also be downloaded and/or exported so that users can perform their own independent analysis. These tools can allow users to identify accident hot-spots, analyze queue lengths and traffic congestion or bottlenecks at specific areas, perform after-action reviews, and evaluate the effectiveness of transportation operations strategies.

RITIS is in use by decision makers, researchers, planners, operations specialists, the military, and homeland security officials in every state. The use of RITIS has been shown to:

- Reduce transportation research costs by as much as 50%;
- Be a significant asset to 5,200+ Federal, State, and Local officials for real-time situational awareness;
- Enable regional response and inter-agency coordination among hundreds of agencies;
- Provide for transparent decision making through data-driven approaches to prioritizing and justifying projects;
- Provide for better communication to decision makers and the public;
- Significantly reduce agency costs while dramatically speeding up the ability of agency staff to respond to media and decision makers.

See the RITIS Overview Book for visuals and descriptions of applications and tools at:
https://umd.box.com/shared/static/bx7v7k0ovcr7wp07r52k4ph4m4atm4e2.pdf

Objectives

- Demonstrate proof-of-concept to show:
    - Technology can accurately identify available parking spaces.
    - Parking information can be communicated to drivers in a timely, useful, and efficient fashion.
- Demonstrate feasibility of the concept in a limited deployment in Maryland and Virginia.
- Develop an approach that could be expanded and replicated by states beyond this pilot deployment.

Truck Parking Deployment Status

- System deployed, configured, integrated with host system, and extensively tested at two Tier I locations:
    - I-95 Ladysmith Rest Area, Northbound, Caroline County, VA.
    - I-95 Welcome Center, Northbound, Laurel, MD.
- All system components and communications are fully functional.
- System successfully "acceptance tested" with Coalition, FHWA, and VDOT.
- Coalition system is a true "production-level" system:
    - Includes both front- and back-end components.
    - Designed to support a significant volume of web and telephone traffic simultaneously hitting the system, and is expandable.
    - System is linked to an O&M Center.

Truck Parking Project Next Steps

- Complete Tier I user testing:
    - Recruiting truckers to participate in field test.
- Assess Tier I performance and refine system as needed.
- Expand pilot locations in Tier II, and open system usage to the general public.
- Working with VDOT to integrate system into their ITS/TMC environment to continue operation post Tier I testing.
- Assess Tier II performance, share results with other states.

	Current Year Jul 2014 - Jun 2015	Next Year Jul 2015 – Jun 2016
Revenue & Available Funding		
State Funds	$1,300,000	$1,300,000
Carryover[1]	1,498,733	829,242
Conference Sponsorships & Non-Member Fees	14,800	
Total Revenue & Available Funding	**$2,813,533**	**$2,129,242**
Expenses		
Operating Costs[2]	$928,291	$881,769
Website Update and Maintenance	49,000	50,000
Member & Committee Support:		
• Travel Information Services	134,000	120,000
• Coordinated Incident Management & Safety	75,000	75,000
• Intermodal Freight & Passenger Movement	40,000	80,000
Projects:		
• 2014-2015 Projects *(see Section 1: Accomplishments)*	758,000	
• 2015-2016 Projects *(see descriptions on following pages)*:		
• Vehicle Probe Project Technical Support		135,000
• CIM Education and Multi-jurisdictional Support		75,000
• Operations Academy Scholarships		55,000
• Freight Academy		100,000
• RITIS State Integration Support		100,000
• Standardized Lexicon to Facilitate Consistent Performance Measures for Safety and Mobility		65,000
• Leveraging Agency Transit Data – General Transit Feed Specification (GTFS) Workflows – to Third Party Information Providers		30,000
• Conferences, Workshops, Webcasts		110,000
• Reserve for Emerging Initiatives/Carry-Over	829,242	252,473
Total Expenses & Reserve	**$2,813,533**	**$2,129,242**

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[1] Remaining funds from consultant contract and previous years' projects.

[2] Operating Costs: Staff salaries & fringe benefits; equipment, communications, travel, operations, University administrative fee.

I-95 CORRIDOR COALITION CURRENT & UPCOMING YEAR'S BUDGET & WORK PLAN
CURRENT PROJECTS UNDERWAY

SUMMARY OF CURRENT PROJECTS UNDERWAY:

- Operations Academy 2015
- Significant Events Coordination:
  - Collaborative Decision Tool
  - Ongoing Project Team Activities
  - Enhancing Seamless Transport of OS/OW Loads
- Toll Interoperability & Enforcement Reciprocity Info Exchange
- Mileage-Based User Fees Info Exchange
- RITIS Expansion
- Vehicle Probe Project:
  - MPO Outreach
  - Achieving Quality Travel Time on Arterials
  - Traffic Message Codes: Impact and Use within the Coalition
  - Integrating Real-Time Volume Data
  - Travel Time On-line and Instructor-led Course
  - Optimal Traffic Monitoring with Probe and Sensor Data
  - Real Time Volume O/D Cooperative Research Initiative
- Real-Time Work Zone Map for the Website
- Work Zone Performance Monitoring Dashboard
- CAD Integration Guidelines for TMCs
- Regional Highway Operations Groups Meetings and Activities
- Coordinated Incident Management First Responder Workshops
- 3-D Incident Management Training System (Exploring Use in SHRP2/FHWA Training)
- Freight Data Needs for Planning and Performance Measures
- Truck Parking
- Commercial Vehicle Infrastructure Integration (Connected Vehicles)

2015-2016 PROJECT PROPOSALS:

- **Vehicle Probe Project Technical Support - $135,000**
  - Provide Vehicle Probe Project (VPPII) agency project team with technical and logistics support to engage and discuss their topics of interest related to probe data and its use including sharing lessons learned with their peers. Quarterly webcast meetings are held as well as individual support and information exchange sessions of special topics on an as-needed basis. Support VPP Suite User Group to keep members informed on updates and new features as well as allowing them to provide input for further Suite enhancements through quarterly webcast meetings and communications. Coordinate and communicate with DOTs, MPOs and other agencies on planning and performance measures.

- **Coordinated Incident Management (CIM) Education and Multi-Jurisdictional Support - $75,000**
  - This project will continue support for the Coordinated Incident Management Committee emerging activities to encourage active identification and pursuit of best practices regarding regional issues to engage responder teams and encourage safe and coordinated incident response across multiple states, jurisdictions, and disciplines, leading to safer, faster, integrated response teams throughout the Corridor.

- **Operations Academy - $55,000**
  - Pre-study, lectures, workshops, field visits, speakers, and a final exam…for two straight weeks the Operations Academy participants are totally immersed in transportation systems management and operations (TSMO) training. The Operations Academy is an intense, timely, and nationally recognized program and acceptance to the program is highly competitive. To date, there have been 10 Operations Academy Senior Management Program sessions, with a total of 272 students representing 80 state and local agencies and FHWA. Through Coalition-sponsored scholarships, 107 representatives from 34 member agencies have attended. This funding proposal will cover 9 scholarships to the Operations Academy, for the 2015 session (November 3-13) for Coalition member agency representatives.

- **Freight Academy VI - $100,000**
  - This allocation provides for 50% of the funding to support development and delivery of a Freight Academy Immersion Program to Coalition members in spring 2017. Since inception, the five Freight Academy programs that have been held have been primarily supported by I-95 Coalition funds for curriculum development, execution, staff support and scholarships for Coalition member attendees (funding was derived from original Coalition annual set aside and from Coalition awarded MCOM 1 & 2 grants, with attendance costs for non-Coalition members provided by AASHTO, direct paying agencies, FHWA, FMCSA, MARAD among others). Of the 149 Freight Academy program participants to date, approximately 2/3 are from I-95 agencies. As in past offerings, the Coalition will continue to leverage the Coalition's program investment with additional support thru scholarship supported participants from agencies, as well as continuing to build unique partnerships such as with the University of Maryland NTC which has provided scholarships and program curriculum staff support.

- **RITIS State Integration Support - $100,000**
  - These funds will complement prior year Federal funding to finalize the incorporation of state operations data feeds into the Regional Integration Transportation Information System. This funding will also supplement technical support to member agencies through the rest of the year. Future O&M will be covered by contributions from users starting in 2016.

- **Standardized Lexicon to Facilitate Consistent Performance Measures for Safety and Mobility - $65,000**
    - The objective of this project is to adopt a common lexicon of terms that describe specific operational data points and their interim milestones (such as "incident" and each milestone along the incident management life cycle timeline) such that agency data input to a common database and subjected to performance measurement analyses provides consistent (apples to apples) results and proper information to the traveler.
- **Leveraging Agency Transit data -- General Transit Feed Specification (GTFS) Workflows – to Third Party Information Providers - $30,000**
    - The objective of this project is to improve GTFS workflows. These are the processes for how transit data is gathered, formatted, and delivered to the public (i.e. mobile applications). In this is three-part project regarding GTFS Workflows, the North Jersey Transportation Planning Authority (NJTPA) and the I-95 Corridor Coalition (I-95 CC) would work collaboratively for a capacity building information exchange for gathering and sharing transit information and ultimately convene a webcast for Coalition members, especially MPOs and transit agencies, where they can gain the lessons learned and "how to" relative to creating a consistent system-wide General Transit Feed Specification (GTFS) workflow from NJTPA.
- **Conferences, Workshops, Webcasts - $110,000**
    - Coalition members have raised, and continue to raise, topics for potential workshops and information exchange webcasts. This fund will allow the planning and conduct of Coalition-wide, theme-based events on topics such as:
        - Connected & Autonomous Vehicles – Identify and asses how to advance CV/AV activities; and identify programs/practices/policies within the Corridor states in such a manner as to insure interoperability and seamless travel given the proximity of Coalition states and the large numbers of travelers that cross state and MPO boundaries on a regular basis.
        - Significant Events Coordination – Follow-on to this month's conference with continued collaborative work on sharing information to support agencies in multi-level and multi-disciplinary planning for and management of significant events, including tools for agency use and bringing together the key public and private sector entities in the region.
        - Integrated Corridor Management – Support information sharing, through collaboration with USDOT/NYSDOT, on ICM Bus Rapid Transit Workshop.
        - Truck Parking – Potential webinar/workshops on this topic to further the discussion on truck parking solutions including: sharing of technical information on potential agency incorporation of the I-95 Real Time Availability System by agencies; examining lessons learned/share best practices from other FHWA/agency truck parking projects; examining options/issues related to: capacity expansion; discussing parking information dissemination via third parties; evaluating public private partnership options; and, determining how industry "users" (distributors and warehouses, ports) might collaborate with DOTs/MPOs and other public agencies to help address truck parking/waiting times.
        - Freight Planning and MAP-21 Performance Measures – Conduct webinars or workshops to follow up on the results of the Coalition's freight data projects (Multi-State Jurisdictional Models for Freight Performance Measures, Freight Data Needs and Real Time Volume O/D) or any related freight performance measures, freight corridors projects brought forward by the agencies.
- **Reserve for Emerging Initiatives/Carry-Over - $252,473**
    - This emerging initiatives funding is retained for development of projects as they arise throughout the program year. The Program Track Committees may find opportunities, within the Coalition's focus areas, to conduct timely projects with relatively short lead time. In that event, the project scope and budget will be presented to the Steering Committee (first) and the Executive Board (next) for consideration and approval.

HANDOUTS: SECTION 2
EMERGING & AGENCY PROGRAMS

- **TOPICS:**
    - Connected and Autonomous Vehicles
    - Significant Events Coordination

- **QUESTIONS TO BE ADDRESSED:**
    - Are there recent experiences to be shared with other agencies?
    - If so, were there any unusual regional (or cross-border) challenges associated with the experiences?
    - What are the lessons learned?
    - How can the I-5 Corridor Coalition assist in the future?
        - Communications and/or coordination among agencies/jurisdictions?
        - Advancing tools (i.e., RITIS, etc.)
        - Training
        - Information sharing
        - Other

Following is a brief summary of the survey responses; the complete table of responses can be found on the Coalition's website at www.i95coalition.org.

Current Experience, Plans, Initiatives or Applications:

- Vermont: Pilot application submitted, and initial discussions with neighboring states/agencies to develop regional ConOps for Road Weather Apps.
- New York: Commercial Vehicle Infrastructure Integration Program focus, and related activities have been conducted. Participating in AASHTO CV Group – Infrastructure Footprint Analysis.
- New Jersey: Eco-signal Operations application under development; previously tested a Dynamic Mobility Applications suite with a focus on EnableATIS.
- Pennsylvania: Developed a "Connected and Autonomous Vehicles 2040 Vision;" supports DSRC equipped signals installed or to be installed in various locations.
- Maryland: Supported demonstration of RESCUME (Response, Emergency Staging, Communications, Uniform Management, and Evacuation) program using dynamic mobility application bundle.
- Virginia: Two test beds developed, equipped and installed through partnership with other Virginia agencies and universities.
- South Carolina: CV pilot project, with Clemson University, underway on I-85.
- Florida: Involved in CV technology for a number of years. Projects include: ITS CV test bed; two locations designated as USDOT CV test beds; conducted FL Automated Vehicles Summits (2013, 2014); three stakeholder working groups (Policy, Infrastructure, Mobility); two pilot projects; university research partnerships (almost $500,000 underway), and public outreach.

Potential Roles for the I-95 Corridor Coalition:

- Peer exchange, lessons learned or information sharing on:
  - Telecommunications infrastructure requirement (specifically in rural areas).
  - Physical deployment of roadside equipment and how it is integrated into existing infrastructure, such as traffic signal controller cabinets, DMS controller cabinets, etc.
  - Connected/Autonomous Vehicles benefits to agencies and travelers.
  - Holiday/seasonal traffic congestion, peak hour congestion affecting throughput and travel times, and lack of available data that could provide a comprehensive view of the corridor performance, parking, pedestrian/bicycle activity close to the roadway.
  - Liability issues, managing big data, cyber security and resiliency, roles of public vs. private sector, driver distraction, long range planning implications, behavioral changes, geographic and demographic impacts (residential, business and commercial).
  - Ongoing issue with proprietary rights to the communications protocol between roadside units and on-board equipment.
  - Enhanced performance measurement and management in the Connected/Autonomous Vehicles environment.
  - Early stage development practices (documentation and/or assistance), updates on manufacturers' equipment, and aid in development of forming partnerships.
- Work in partnership with AASHTO, FHWA, University Centers
- Identify areas for collaboration among agencies and/or with partner organizations
- Push for more funding to assist states lacking infrastructure to implement connected and autonomous vehicles programs.

A core mission of the I-95 Corridor Coalition, since its inception, has been cross-border/multi-jurisdictional response coordination for major traffic incidents. This activity remains a high priority, and encompasses major transportation system impacts caused by any significant event, including those caused by severe weather. Following, in brief, are recent Significant Events Coordination activities conducted by the I-95 Corridor Coalition:

- **Significant Events Corridor-Wide Conference** (May 12-13, 2015):   This corridor-wide Significant Events Conference's theme was: "Removing Barriers for Coordination and Opening the Door for Cross-Disciplinary Understanding." Panel Sessions included:
    - **"Significant Events Response –A Roadmap for All Levels and Disciplines"** which will address a multi-level, multi-disciplinary approach to dealing with events with the theme of "Aggressively Making the Call – to Travel or Not to Travel."
    - **"How to Do Business When It's Not Business as Usual,"** addressing "Getting on the Same Page" regarding Facility Closure decision-making and coordination, as well as toll waiver coordination.
    - **"Event Response – Tools You Can Use at Your Agency,"** wherein there will be system demos and discussion of available systems and technologies agencies can use right now for planning and response purposes.
    - **"A Roadmap for Implementation – Some Examples of Best Practices,"** addressing pre-event planning, coordination and communications; response during the actual events including communications; and post event activities such as roles and responsibilities including neighboring state's recovery and "rules of engagement."
    - **"Protecting ITS Networks"** considering cyber security, anti-hacking on such things as DMS/VMS, traffic signal systems, and the like. We will also have a presentation on remote vehicle attack surfaces in the Connected Vehicle.
    - **"The Future of Response" –** Looking ahead to the future of homeland security technology and of multiregional coordination related to significant events.
- Collaborative Decision Tool
- Highway Operations Groups – Regional and Corridor Wide
- NASTO Significant Weather-Related Events Operational Response Information Coordination Regional Communication Program
- Mid-Atlantic/Southern States Winter Workshop
- New England Meteorological Winter Operations Regional Conference