VPP Suite User Group

April 8, 2015
Meeting Protocols

• Questions will be answered at the end of each presentation
• Ask your question verbally
• Give your name and agency before asking your question (at least the first time)
• Keep your phone muted until asking a question or speaking (press *6 to mute/unmute individual phone lines)
• Do not place call “on hold” as your hold music may be heard by the group
• Call 610-662-5569 for difficulties with the web or audio application.
Please confirm that your line is muted

*6

Thank you!
## Agenda

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker</th>
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</table>
| 10:00am to 10:10am | **Welcome**  
Introduction of new VPP Suite User Group Co-Chairs               | George Schoener, I-95 Corridor Coalition, Exec. Director |
| 10:10am to 10:15am | **Purpose of this Meeting**                                     | New co-chairs                          |
| 10:15am to 10:25am | **VPP Suite Funding Status & Cutoff dates for those states/agencies who are unable to continue funding** | Michael Pack, UMD CATT Lab                         |
| 10:25am to 10:45am | **Review of VPP Suite Features/Tools/Timeline**  
• New functionality since last meeting  
• In-progress development efforts  
• MAP-21 & NPMRDS updates  
• VMT-UDC changes               | Michael Pack, UMD CATT Lab                                  |
| 10:45am to 10:50am | **Working Group Update**  
• Establishing new working groups  
• Introduction of working group leader | Michael Pack, UMD CATT Lab                                         |
| 10:50am to 11:20am | **Agency Input Session** to learn about what is working & what needs some attention | All                                                   |
| 11:20am to 11:25am | **Other Issues**                                                    | Michael Pack, CATT Lab                                    |
| 11:25am to 11:30am | **Next Steps and Meeting Wrap Up**                                   | George Schoener, I-95 Corridor Coalition, Exec. Director |
## Meeting Participants

<table>
<thead>
<tr>
<th>#</th>
<th>Agency</th>
<th>Name(s)</th>
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<tbody>
<tr>
<td>1</td>
<td>Florida DOT</td>
<td>Russell Allen</td>
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<td>Georgia DOT</td>
<td>Mark Demidovich</td>
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<tr>
<td>2</td>
<td>New Jersey DOT</td>
<td>Bill Kingsland, Amir Ibrahim, Gail Yazersky, Neha Galgali, Sudhir Joshi, Ira Levinton, Simon Nwachukwu, Kelly McVeigh, Jim Hadden</td>
<td>3</td>
<td>Richmond Regional MPO</td>
<td>Greta Ryan</td>
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<td>4</td>
<td>Rhode Island DOT</td>
<td>Dan Herstine, Bill Nordstrom (Jacobs), Deanna Peabody (TranInfo)</td>
<td>5</td>
<td>Virginia DOT</td>
<td>Rose Lawhorne, Ram Venkatanarayana</td>
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<td>7</td>
<td>DVRPC</td>
<td>Jesse Buerk, Zoe Neaderland (and others)</td>
<td>8</td>
<td>MWCOG</td>
<td>Andrew Meese</td>
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<tr>
<td>9</td>
<td>North Jersey TPA</td>
<td>Keith Miller</td>
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<td>11</td>
<td>South Jersey TPO</td>
<td>Andrew Tracy</td>
<td>12</td>
<td>I-95 Corridor Coalition</td>
<td>George Schoener</td>
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<td>13</td>
<td>UMD CATT Lab</td>
<td>Michael Pack, John Allen</td>
<td>14</td>
<td>KMJ Consulting (Coalition Support)</td>
<td>Karen Jehanian, Joanna Reagle</td>
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</table>
Welcome

George Schoener
I-95 Corridor Coalition
Many Thanks, John Allen!

April 8, 2015
Introduction of new VPP Suite User Group Chairs

- With John Allen joining the CATT Lab, there was a need to fill the vacant User Group chair
- The thought was to fill the position with co-chairs, for more a complete perspective (State/MPO, Planning/Operations, etc.)
- So please welcome:
  - Kelly Wells (NCDOT)
  - Jesse Buerk (DVRPC)
The new co-chairs will create a cohesive synergy

The co-chair’s vision, leadership and guidance will help provide for:

- A more comprehensive State & MPO perspective…
- that leads to better integration of Planning-Ops-Travel Info needs & considerations…
- for improved tools and products.

Jesse Buerk (DVRPC)

TBD

Kelly Wells (NCDOT)
VPP Suite User Group Goals

Use a collaborative approach to expand and improve the use and benefit of the Suite by:

- **Addressing User Needs**
  - Assistance with software issues
  - Detailed explanation/guidance on using the tools

- **Addressing Developer Needs**
  - Gain feedback on the usability
  - Gather requests for additional functionality
Funding Status and Cutoff Dates


On July 1, 2015, the suite will be disabled for agencies that have not worked out a funding plan with the CATT Lab for their 2015 contributions.

States, MPOs, etc. who have already contributed (or worked out a plan) will continue to have unrestricted access.

States/MPOs/users will receive follow-up calls next week to confirm participation.
Review of VPP Suite
Features/Tools/Timeline

Michael L. Pack
CATT Laboratory
Topics for Today

• Review of VPP Suite Features/Tools/Timeline
  - New functionality since the last meeting
  - In-progress development efforts
  - MAP-21 & NPMRDS updates
  - VMT-UDC changes

• Working Group Update
  - Establishing new working groups
  - Introduction of working group leader

• Agency Input Session
  - What’s working/what needs attention
Bottleneck Ranking – Bottleneck/Event Data

Bottleneck Ranking now includes traffic event and incident data from RITIS and aligns those events to bottlenecks, with new features added into the Impact Factor table, map and 3 visualization choices.

### Bottleneck Ranking

Bottleneck locations from Interstates in MD (1166 miles) between October 1, 2014 and October 31, 2014 (Still total)

<table>
<thead>
<tr>
<th>Rank</th>
<th>Map Location</th>
<th>Average Duration</th>
<th>Average max length (miles)</th>
<th>Occurrences</th>
<th>Impact Factor</th>
<th>All Events/Incidents</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>I-695 E/B @ I-95</td>
<td>1h 20m</td>
<td>3.94</td>
<td>61</td>
<td>73,752</td>
<td>58</td>
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<tr>
<td>2</td>
<td>I-665 W @ I-95</td>
<td>2h 02m</td>
<td>3.94</td>
<td>70</td>
<td>62,987</td>
<td>52</td>
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<tr>
<td>3</td>
<td>I-655 @ I-95</td>
<td>3h 11m</td>
<td>4.76</td>
<td>44</td>
<td>97,489</td>
<td>174</td>
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<tr>
<td>4</td>
<td>I-95 N &amp; I-81</td>
<td>2h 25m</td>
<td>5.83</td>
<td>57</td>
<td>58,545</td>
<td>73</td>
</tr>
<tr>
<td>5</td>
<td>I-695 W @ I-95</td>
<td>2h 17m</td>
<td>6.04</td>
<td>50</td>
<td>50,930</td>
<td>145</td>
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<tr>
<td>6</td>
<td>I-665 W @ I-95</td>
<td>2h 02m</td>
<td>5.76</td>
<td>43</td>
<td>46,920</td>
<td>145</td>
</tr>
<tr>
<td>7</td>
<td>I-695 W @ I-95</td>
<td>1h 40m</td>
<td>7.08</td>
<td>59</td>
<td>40,782</td>
<td>88</td>
</tr>
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</table>

Show Events/Incidents: During selected time range: Only during bottleneck conditions

![Map of bottleneck locations](image.png)

![Graph of Occurrences](image.png)
Map Bottleneck/Event Detail

- Total number of events are shown in red diamonds
- Use zoom to reveal more event detail
- Clicking on the green crosses (areas of multiple events) opens a detail box for that location
Get an overview-level understanding of the data

Scrollable to dig into the details

Incident Icons Legend
- Red — Severe events and incidents
- Orange — Roadwork
- Yellow — All other events and incidents
Time Spirals & Event Icons

Color View

Grayscale View

Incident Icons Legend

- Red — Severe events and incidents
- Orange — Roadwork
- Yellow — All other events and incidents
Events on Trend Maps
Harmonic Mean

- Improves upon how average speeds are calculated across our tools
- Has the benefit of preserving the relationship between speed and travel time
- Impacts the calculations of the **buffer time index**, **planning time index**, **user delay cost**, and all other performance metrics
- You will need to recreate any previous reports to take advantage of the harmonic mean
User Documentation
Tutorials
Multi-vendor Integration Status

- Data downloader is live.
- Users will soon be able to choose from different data sources for all other tools.
- Will be able to prioritize how the data is used and presented.
- A fusion option will give users the ability to average the sources in a number of ways.
Multi-vendor Integration over Multiple Tools

UDC

6. Select volume data source:
Use the arrows, click and drag or double click to move available Data Sources to selected Data Sources. Priority can be set for Data Sources by reordering them with the arrows to the right or click and drag.

Available Data Sources
- VDOT

Selected Data Sources
- INRIX

7. Select data source:
Use the arrows, click and drag or double click to move available Data Sources to selected Data Sources.

Available Data Sources
- TomTom
- NMPRDS

Selected Data Sources
- INRIX
- HERE

Future Functionality

8. Priority Support (optional):
When a segment has data from more than one source...
- Separate results for each Data Source.
- Fusion
  - Average the sources
  - Use the priority of the list
  - Intelligent fusion
  - Use the highest speed
  - Use the lowest speed
  - Average the sources

Priority can be set for Data Sources by reordering them with the arrows to the right or click and drag.
Date-filtering Options (in-progress)

1. Within the range of **01/01/2015** to **01/31/2015**,

2. Using data from
   - All days
   - Only the following selected days...
     - Select all
     - New Years
     - Martin Luther King Day

3. That occurs in and on

4. During

All Days, or; Excluding certain days (holidays/custom list), or; Including only certain days
Date-filtering Options (in-progress)

- Exclude certain days/months, etc.

1. Within the range of last 5 months,
2. Using data from all days,
3. That occurs in and on

**Months of year**

- Jan
- Feb
- Mar
- Apr
- May
- Jun
- Jul
- Aug
- Sep
- Oct
- Nov
- Dec

- Current month of year

**Days of week**

- Sun
- Mon
- Tue
- Wed
- Thu
- Fri
- Sat

- Current day of week
MAP-21 Dashboards (Coming Soon)
The Dashboard Includes MAP-21 Performance Comparisons…
...and Custom Comparisons
Reliability Widgets at a State and Geographic Area Level
NPMRDS Integration

- Where appropriate, NPMRDS data has been integrated into all of the previously mentioned tools.

- NPMRDS data produces meaningful results when looking at a month and/or an entire year’s worth of aggregated performance measure data.

- The Probe Data Analytics Tools show where gaps exist in the NPMRDS when viewing individual days and/or weeks worth of data.
VMT-UDC Changes

- On-going confusion with “Volume” aggregation
- Working groups have identified a number of improvements/changes
- Moving away from per-person UDC, and switching over to some form of VMT-based measures. Clarifying how volume data is used and presented.
Working Group Update

Michael L. Pack
CATT Laboratory
A New Working Group that Emphasizes User Experience

• There is a desire to engage the User Group more intimately in the development of interfaces and end products

• We propose a User Focus Group that will help shape and guide final development

• John Allen (CATT Lab) will lead the effort
Agency Input Session

Focus on New Features

Event Data Integration
Dashboard Functionality

Any Other Topics of Interest

MAP-21 Working Group

Committed to
★ MAP–21 ★
Coming Soon

www.I95Coalition.org
April 8, 2015
Other Issues?
Next Steps & Meeting Wrap Up

George Schoener
I-95 Corridor Coalition

Next User Group Meeting:
July 16, 2015
<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Contact Information</th>
<th>Email</th>
<th>Website</th>
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<tbody>
<tr>
<td>George Schoener</td>
<td>I-95 Corridor Coalition</td>
<td>703.389.9281</td>
<td><a href="mailto:geschoener@comcast.net">geschoener@comcast.net</a></td>
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<tr>
<td>Joanna Reagle</td>
<td>I-95 Corridor Coalition Support</td>
<td>610.228.0760</td>
<td><a href="mailto:jreagle@kmjinc.com">jreagle@kmjinc.com</a></td>
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<tr>
<td></td>
<td>VPP Suite questions/feedback</td>
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<td><a href="mailto:vpp-support@ritis.org">vpp-support@ritis.org</a></td>
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</tbody>
</table>

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April 8, 2015
Thank You