In the Works (the latest features, functions and fixes for the VPP Suite)

Category	Tool(s)	Description	Deployment Status
Recent Deploys			
Long-running Queries		An **Improvement** that ensures log-running queries will not timeout.	✓ Deployed 04.14.2016
Multivendor Access in Bottleneck Ranking		An **Improvement** that adds checkboxes to Bottleneck Ranking for each of the platform's datasources that support bottleneck data (NPMRDS does not support bottleneck data). When the user clicks the submit button, the app will open one new tab per checkbox clicked.	✓ Deployed 04.14.2016
INRIX TMC Map Update (v16.1)		An **Improvement** to the INRIX TMC Map in VPP Suite.	✓ Deployed 04.01.2016
Partial Road radio button affects TMC segment selection		A **Bug Fix** that corrects some segments disappearing from either end of the selected road after clicking the partial road radio button.	✓ Deployed 03.03.2016
Faster Data Downloads		An **Improvement** in Massive Data Downloader that achieves 4-5x faster data exports.	✓ Deployed 02.08.2016
Multi-Road Congestion Scan		A **New Feature** in Congestion Scan that allows you to stitch together multiple roads to define travel routes and corridors for more comprehensive analyses.	✓ Deployed 11.30.2015
Download by Quality		A **New Feature** in Massive Data Downloader that allows you to choose to filter out data that does not match your agency's criteria for quality (can also significantly reduce the size of a data export).	✓ Deployed 10.15.2015
Scheduled for Deployment			
Backend Hadoop Architecture (Raptor)		Greatly improves storage and tool processing speeds, allowing for faster results, longer date ranges and larger geographies.	2nd Q 2016
Bottleneck Algorithm/Ranking Tool		An updated algorithm and additional graphing features will significantly improve the usability of the Bottleneck Ranking tool.	2nd Q 2016
TomTom data		TomTom data will be integrated into the Suite in the same way that HERE, INRIX, and the NPMRDS are integrated into the Suite.	2nd Q 2016
Embedded Dashboards		Allows users to embed (publish) the dashboards they have created in the VPP Suite on other web sites (like agency websites, for press releases, etc.) This feature exists for the trend maps today.	3rd Q 2016
Advanced Time Selection and Filtering & Query Date Range Summary		Allows users to perform advanced time-based filtering for all reports including things like: excluding outlier dates (weather events, holidays, sporting events, etc.), aggregating non-consecutive date ranges (the last four Thanksgivings), etc. Enhance all summary reports so that it is more clear as to which dates, roads, filters, and other query parameters were selected by the user.	Late Q3/Early Q4 (must follow Raptor release)
MAP-21 widgets		Dashboard-style widgets that make it easy to produce MAP-21 systems performance reports. Results are displayed on interactive maps and graphs. They display actual performance compared to state, MPO, and/or federal targets.	Pending release of NPRM/Final Rule
A "State's Choice" Layer (In Region Explorer)		This enhancement will allow states to save their default preferences for data sources (HERE, INRIX, or TomTom) and share that with other states so that agencies that view data across borders will know which data source is being used in that particular state.	On hold
The National Volume Dataset		This will be a volume dataset that we will offer for free to agencies who do not already provide their volume data to the VPP Suite. It can be used to make UDC reports or in any future reports that require volume data.	On hold

In the Works (potential features & functions for the VPP Suite)

April 22, 2016

Potential New Features

Origin-Destination Data Analytics	This new feature would allow users to analyze OD data from INRIX within the Suite. Various visualizations, analytics, and summary statistics will be provided	**TBD**
Sub-segment data storage and retrieval	This significant enhancement will allow users who choose to purchase XD or sub-segment granularity within the Suite. This requires both front-end and back-end software development.	**TBD**
In-App User Feedback	Integrated survey and feedback forms that allow users to provide instant, detailed feedback from within the app (no email required). Examples of feedback might include bug reporting, enhancement request, "how do it," etc.	**TBD**
Color threshold selection in UDC reports	Similar to the color threshold selection in Trend Map and Congestion Scan, change the color-coding of each cost in the User Delay Cost app by using slider bars (and choose your own color palate).	**TBD**
Multivendor support in the Dashboard	Other tools in the suite already allow you to choose between data sources. This will bring that selection to the Dashboard.	**TBD**
Travel-time Monitoring Report	Develop a reporting protocol w/form that emulates NCDOT's Fortify reporting process	**TBD**
Email report notification for long duration queries	This feature will allow users to submit a query for any and all analytics, walk away (or log out) from the suite, and simply wait for their query to complete via email notification. When an email is received, the user will be able to click on a link, and their query results will appear.	**TBD**
Scheduling Reoccurring Reports	For users that frequently run the "same" type of report, this feature will allow users to schedule certain types of reports and downloads to automatically run: every X-days, hours, or minutes; the first day of each month; every 2nd Wednesday; etc.).	**TBD**
Data quality filtering in other tools	The massive data downloader already allows users to filter data based on quality indicators provided by the data vendors. This new features would allow users to request that the Suite filter out data of low quality for certain reports.	**TBD**
Data quality/availability visualizations throughout the suite	The User Delay Cost tool already allows users to visualize data availability indicators. This new feature would allow users visualize both data quality and data availability in all other tools within the Suite.	**TBD**
More dashboard widgets (safety, reliability, trends, etc.)	The current offering of widgets is relatively small (travel times, bottlenecks, MAP-21 reports, etc.) We are looking to add more widgets related to safety data, weather, trends, etc. We are also soliciting ideas from Coalition members.	**TBD**
Experienced travel times	Current travel times in the Suite are "instantaneous" travel times. This enhancement would enable the calculation of user experienced travel times, which is significantly more processor intensive), and we would then allow users to choose which travel time they want to view: experienced or instantaneous.	**TBD**
Graphics showing percent of time at certain speeds	For any given TMC or set of TMCs, this graph would show what percent of time the segments were reporting a given speed over any date/time range. For example: 65% at 55MPH, 20% @ 50MPH, 10% @ 25 MPH, etc.	**TBD**
Cumulative Frequency Diagram (CFD) plots	This enhancement will allow users to generate cumulative frequency diagrams (CFDs), or sometimes called Cumulative Distribution Functions. This plot of percentiles versus travel times for a period of study (similar to the percent of time at certain speeds) helps to reduce any data set to a monotonically increasing single line plot for analysis. It can be particularly useful in analyzing arterials performance measures.	**TBD**
Integrating Treeversity features into the suite (bottleneck ranking)	The TreeVersity2 application has the capability to show users how congestion, bottlenecks, and travel times have changed from one time period to another (Month X compared to Month Y, Year X to year Y, etc.) and how those changes are reflected in various geographies (nation compared to state compared to MPO compared to county compared to city). This enhancement would enable certain TreeVersity2 functionality within the Suite.	**TBD**
Trend Map movie editor	Allow users to customize and annotate the Trend Map movies they create with things like: captions, callout arrows, customized start/end times, etc.	**TBD**
Shockwave plots	This animated map would allow users to visualize how bottlenecks grow and shrink over time in various locations.	**TBD**

In the Works (potential features & functions for the VPP Suite - cont'd.)

April 22, 2016

Mile marker filters		For agencies that can provide their mile-marker data in appropriate formats, this feature will add mile marker filters to the road selection alongside the existing intersection filters.	**TBD**
More comprehensive caching of queries		This enhancement will allow our servers to store the results of your common queries for longer periods of time. Therefore, if you run the same report every day, you won't have to wait as long for your results to be returned.	**TBD**
Front-end Modernization Effort		This significant enhancement effort will rework front-end components to be more in-line with current web standards--enabling mobile analytics on certain devices, removing dependence on the Flash player, and revamping outdated color-schemes and layouts.	**TBD**
Enhanced support on 4K and higher resolution displays		Many users are updating their monitors to ultra-high-definition (UHD), 4K, or other resolutions that are higher than HD. This enhancement would handle scaling and visibility at these higher resolutions more gracefully--ensuring the best possible user experience for all display types.	**TBD**
Finer grained zooming on the map		This enhancement will allow users to zoom in further on the map to allow for finer analysis, especially with sub-segment resolutions becoming available.	**TBD**
"My Reports" list (i.e. query history or bookmarks)	Report Archive	This feature will enable users (and potentially agencies) to save commonly used query parameters in a "my reports" or "report history" section of the Suite for quick reuse.	**TBD**
Blue-tooth sensor data		This data enhancement would make it easier for agencies with significant Bluetooth sensors to integrate that data as another probe data source in the Suite.	**TBD**
Integrating volume data from real-time detectors		This feature will make it possible for agencies to integrate their real-time volume sensors into the Suite for use in the User Delay Cost reports and other features requiring volume data.	**TBD**
Hourly Statewide Traffic Speeds		This new feature would allow users to view statewide traffic speeds on all primary routes (e.g.; what are all the speeds on preselected routes for 8 AM? For 5 PM?)	**TBD**