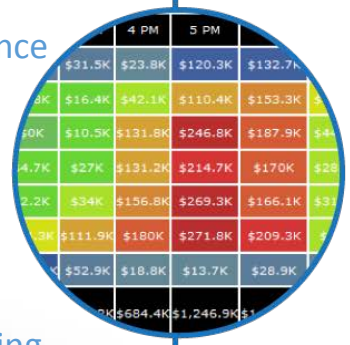
MAP-21 & the NPRM for System Performance Measures

Now what do we do?

Performance Measures



Planning

Operations

Communications

CATT LABORATORY

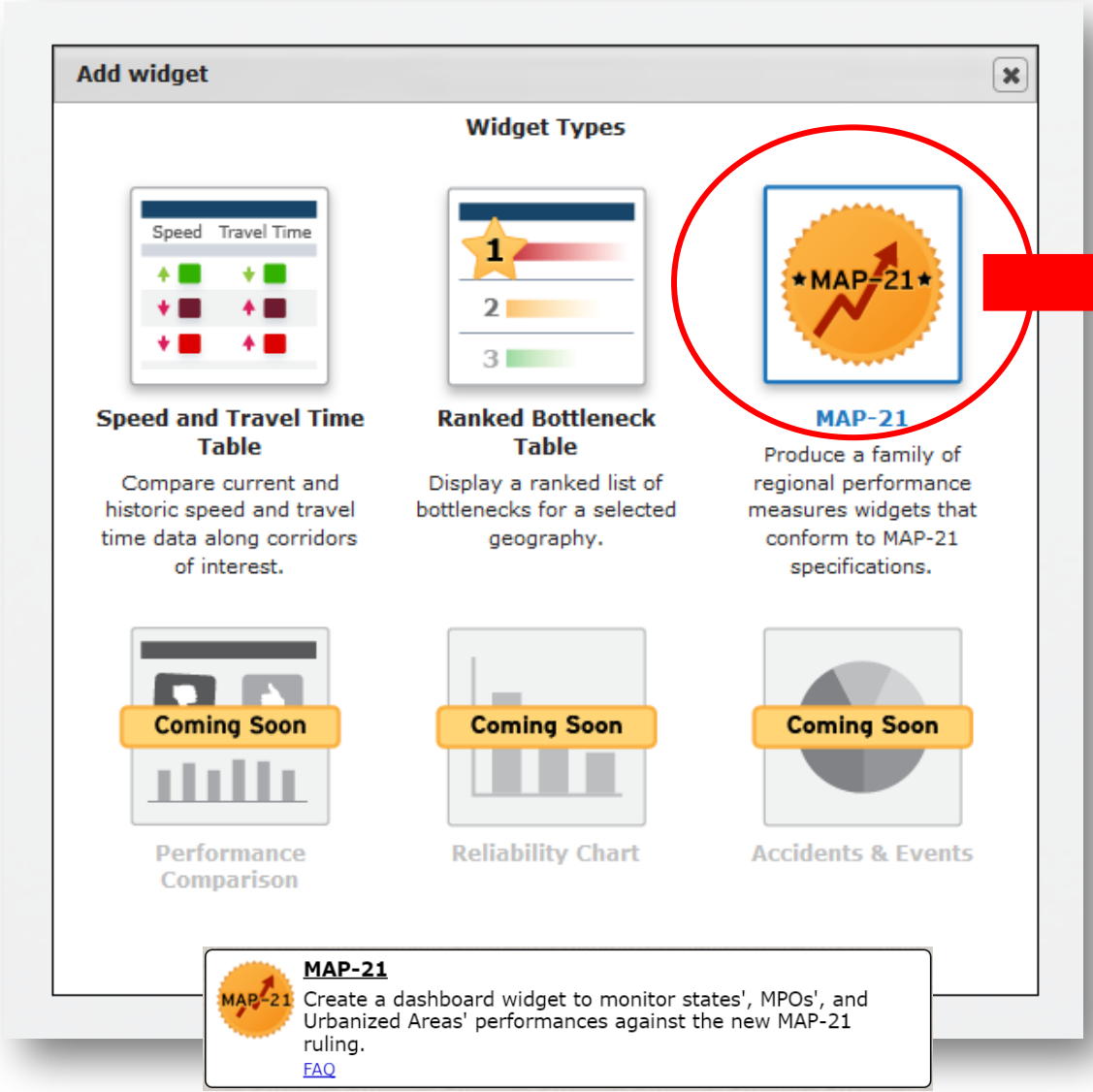
UNIVERSITY OF MARYLAND

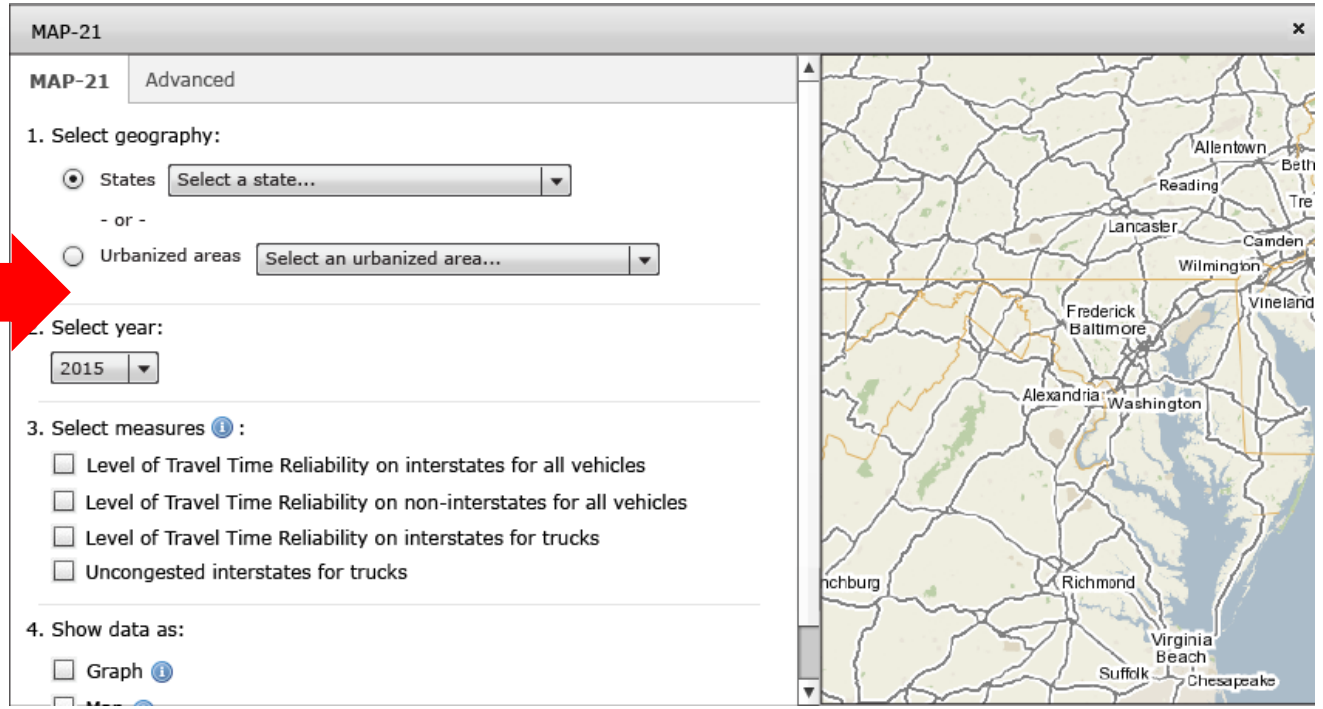
Enabling Decision Making & Effective Communication

Performance Measures and NPRM

- Announced on April 22
- 120 days to comment
- FHWA Webinars

MAP-21 Dashboard





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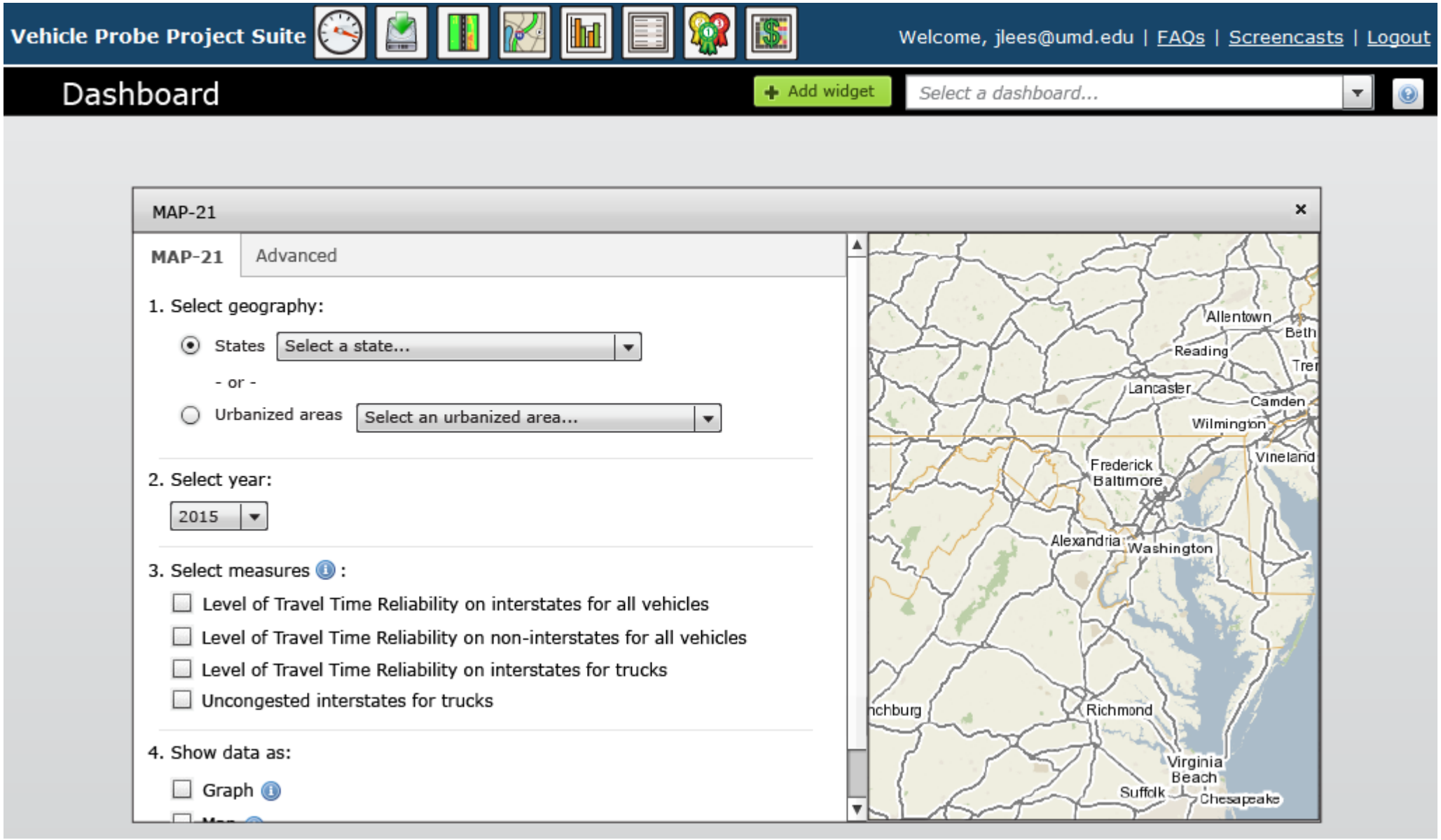
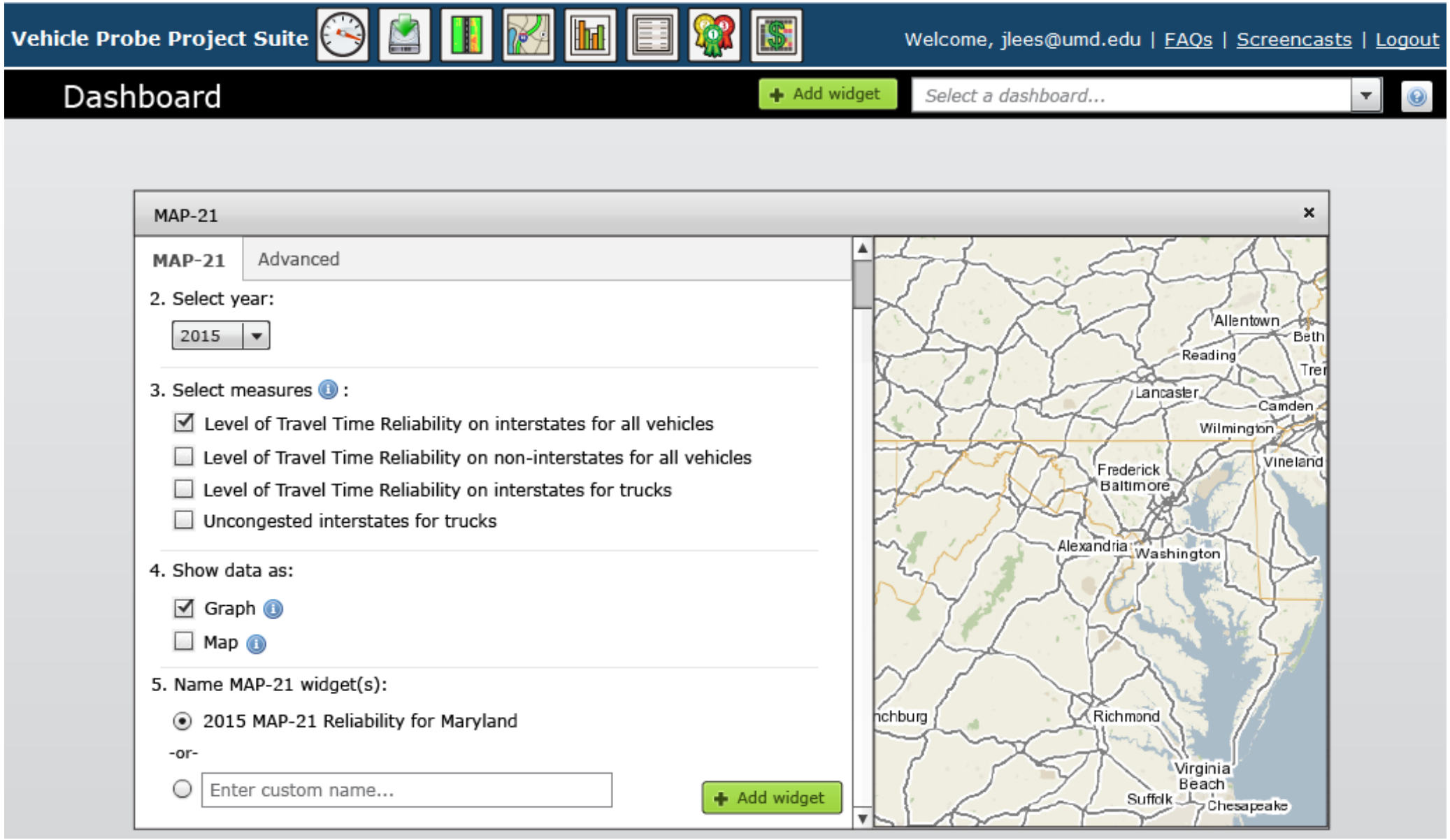
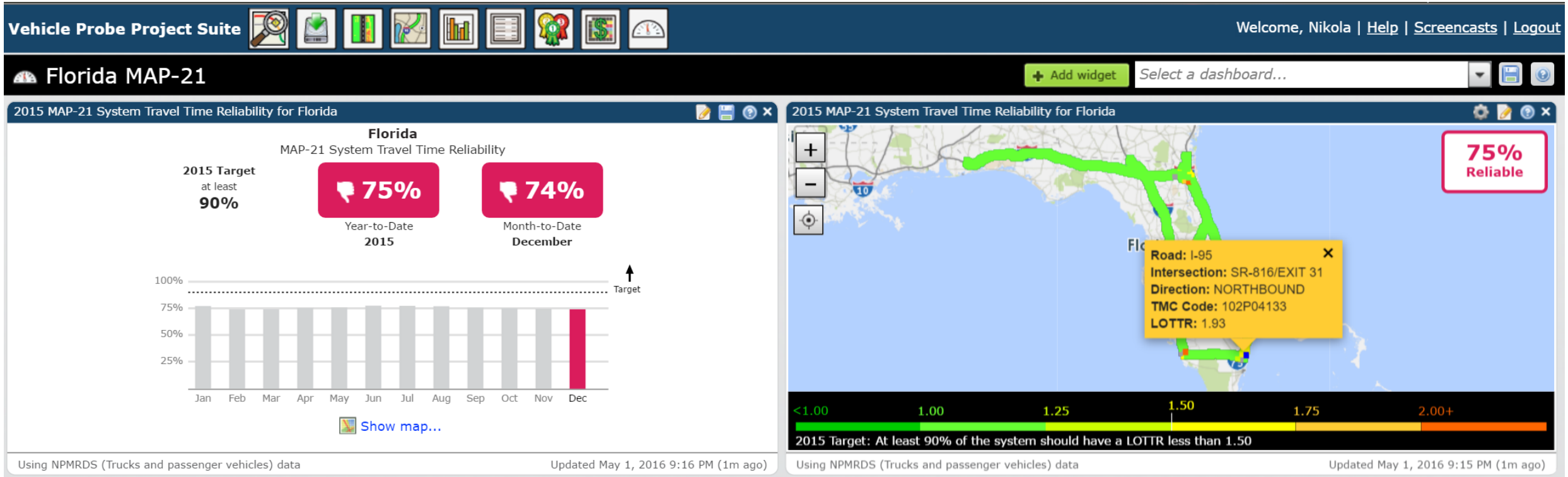
Creating MAP-21 Dashboard – State



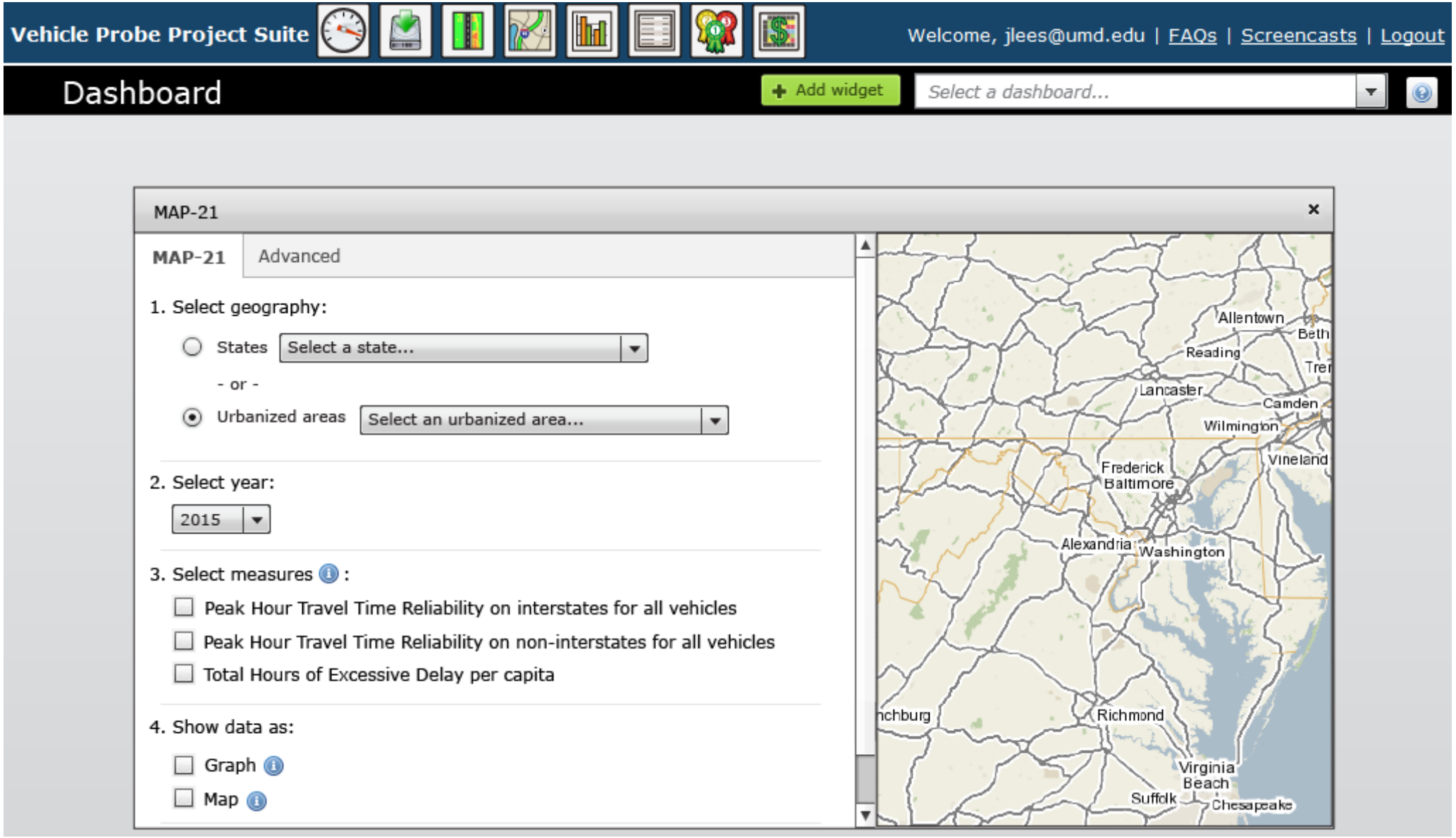
Creating MAP-21 Dashboard – State



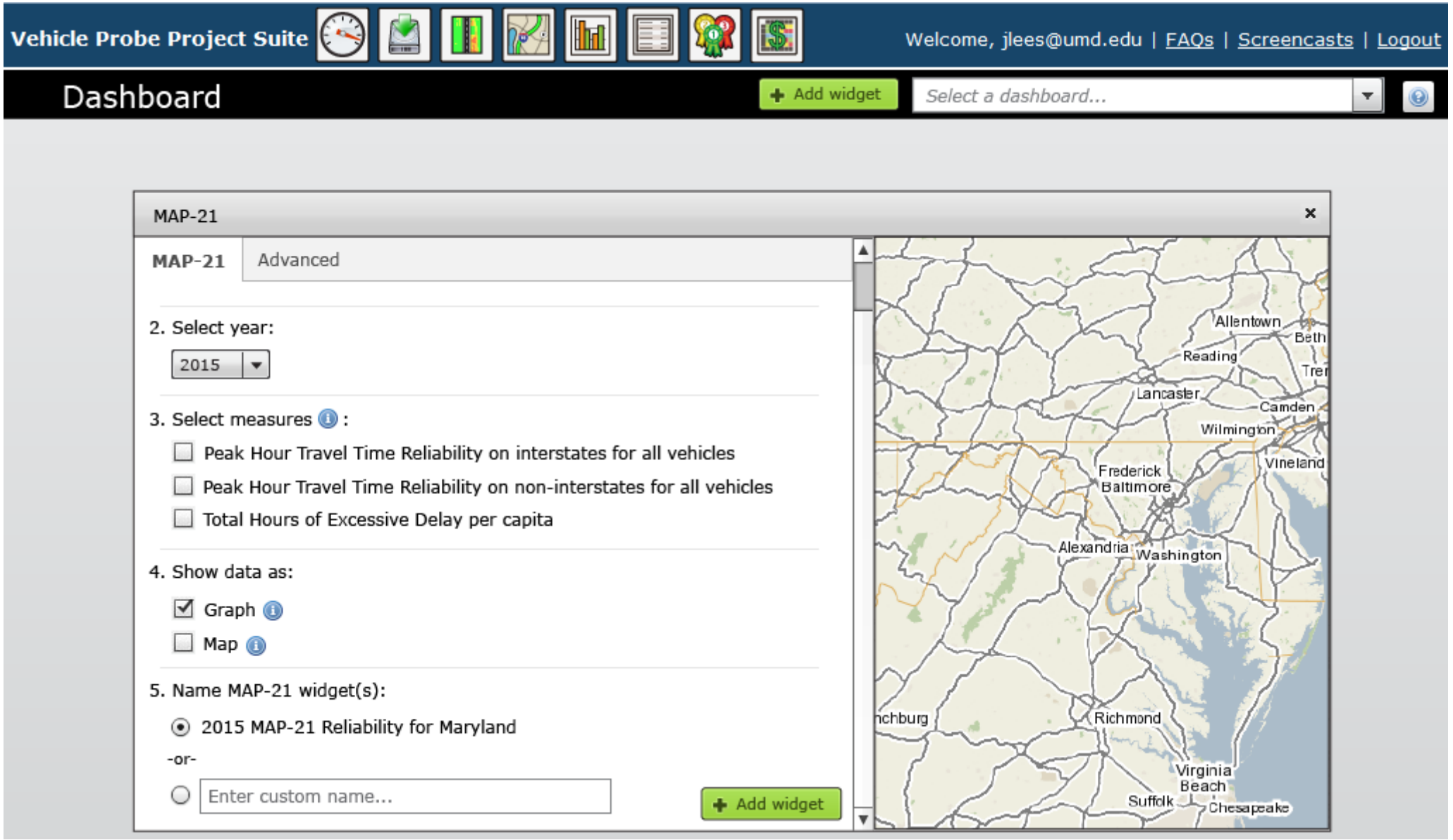
MAP-21 State Performance



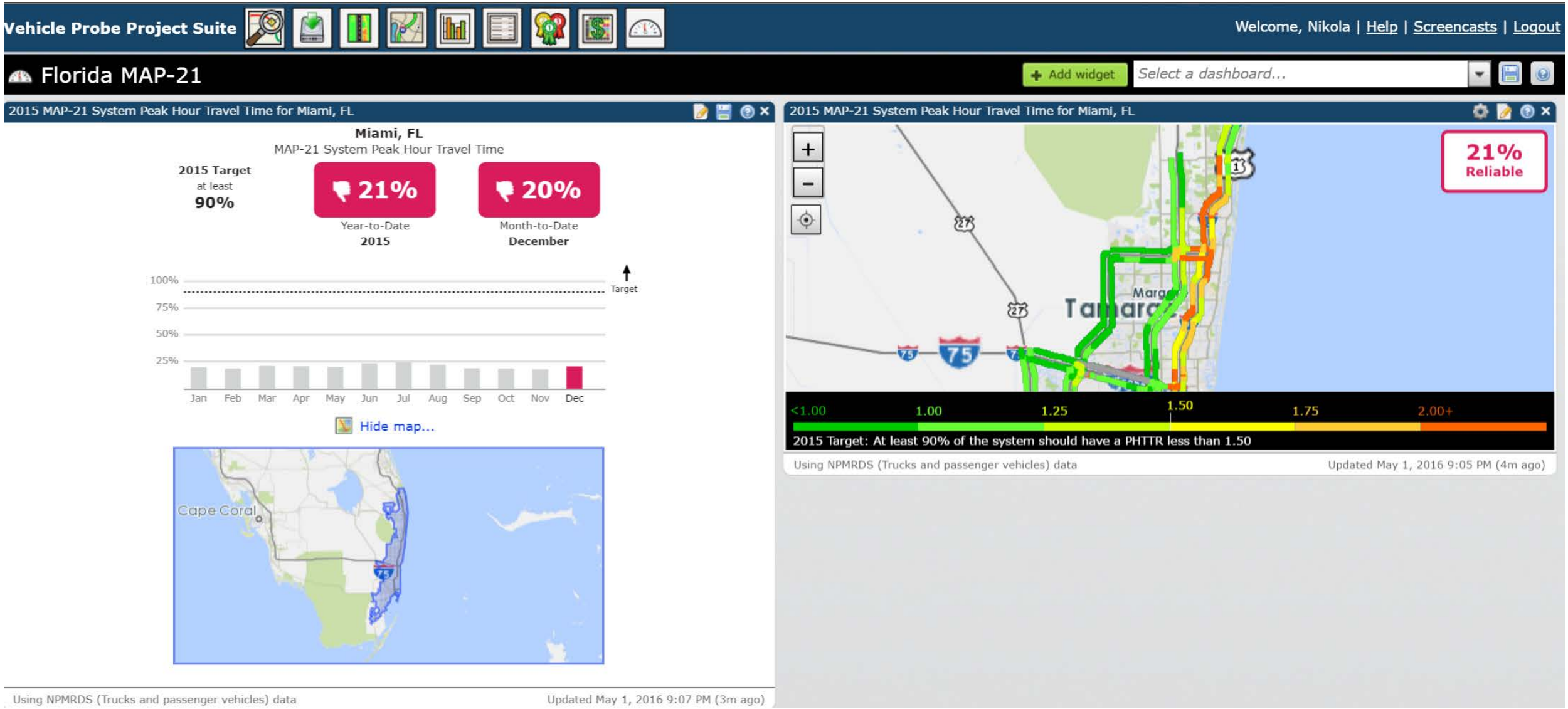
Creating MAP-21 Dashboard – Urbanized Area



Creating MAP-21 Dashboard – Urbanized Area



MAP-21 Urbanized Area Performance



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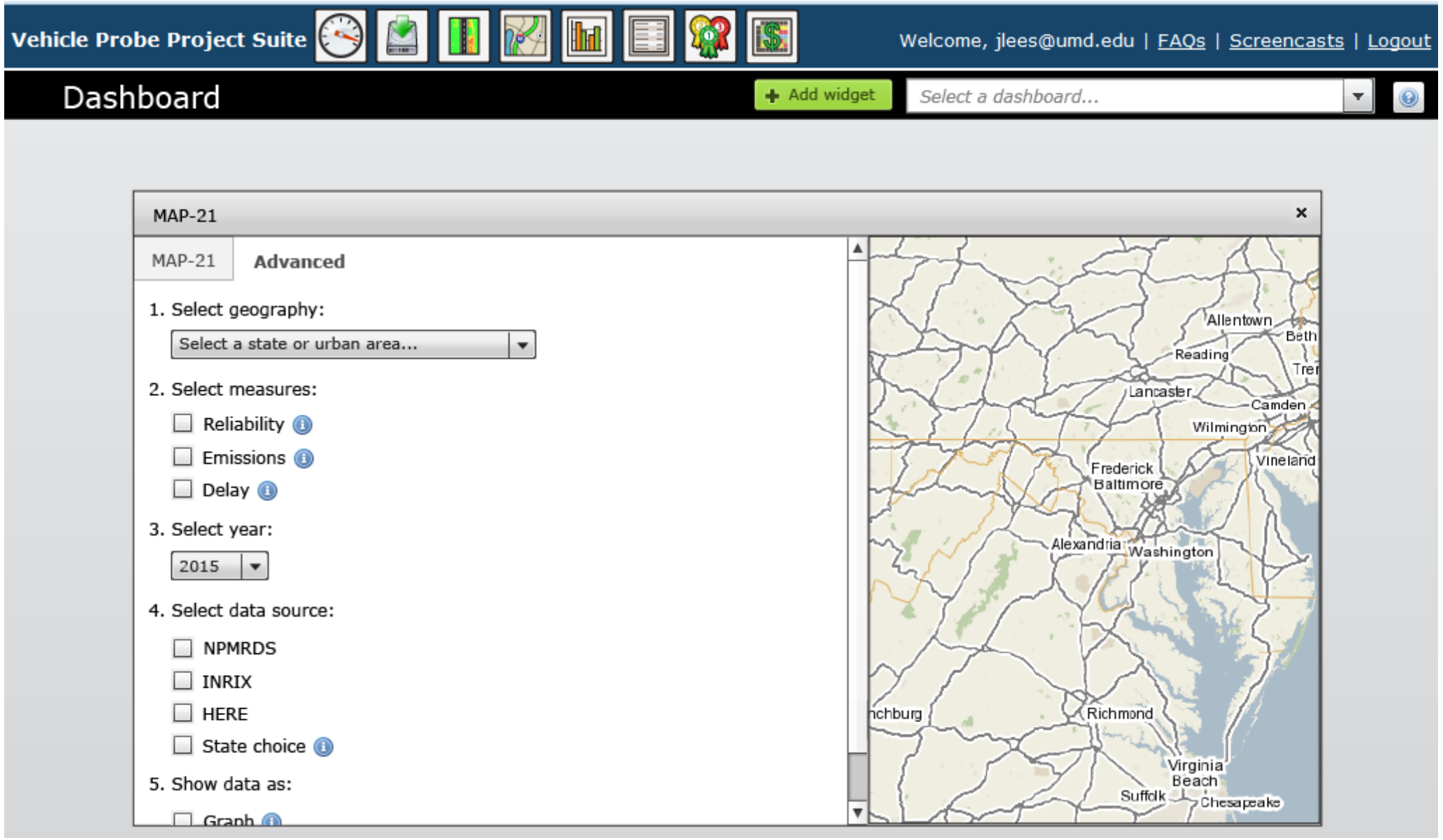
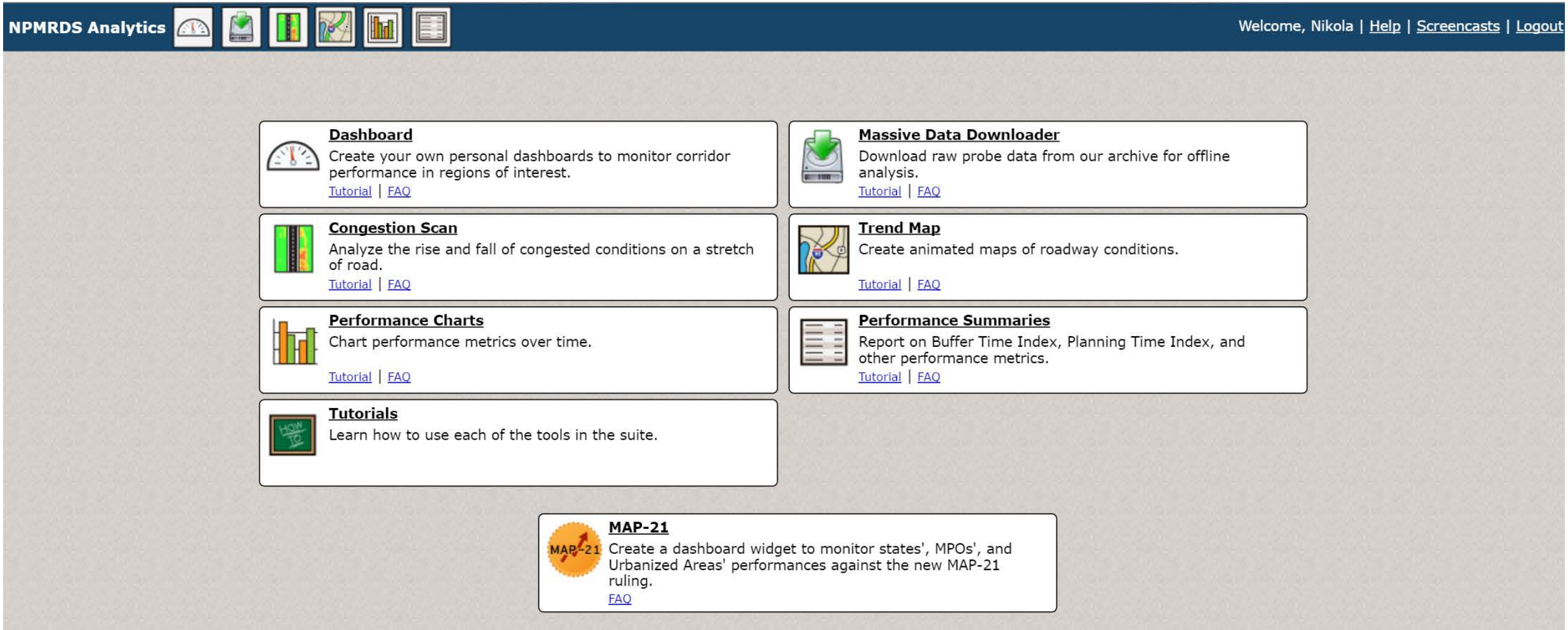
Creating MAP-21 Dashboard – Advanced

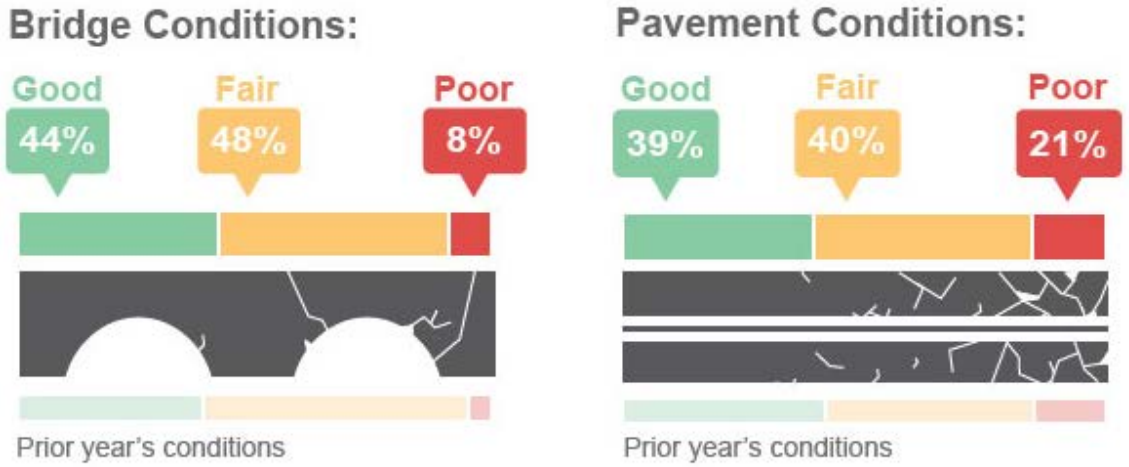


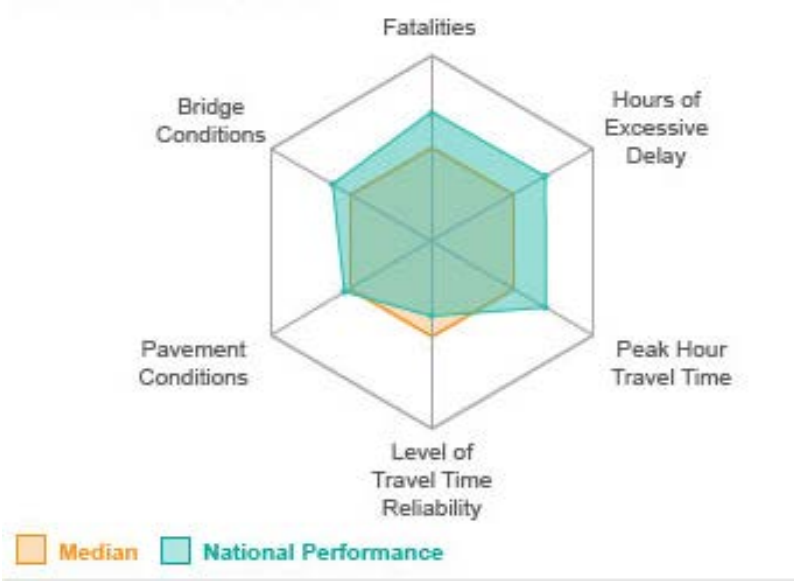
Other Capabilities Using NPMRDS



Near Future Updates

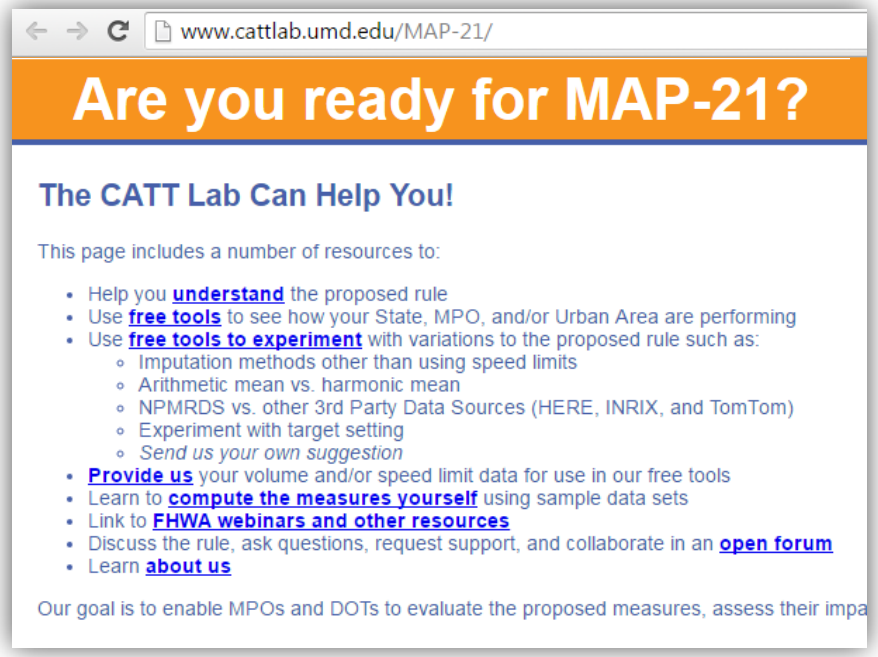
- Other MAP-21 measures:
  - Safety
  - Bridge Performance
- Integration with other big data sets.
- Integration of O/D data.





We're Here to Help: cattlab.umd.edu/MAP-21

Working with AASHTO, I-95 Corridor Coalition, and others to evaluate MAP-21 measures and test hypothesis/alternatives



Helping State DOTs and MPOs:

- Exploring the NPMRDS
- Working with other data sources
- Providing guidance and feedback
- A forum for discussion
- A place to ask question
- How to provide us your volume and speed limit data
- What else can we do for you?

We're Here to Help: cattlab.umd.edu/MAP-21

www.cattlab.umd.edu/MAP-21/

Are you ready for MAP-21?

The CATT Lab Can Help You!

This page includes a number of resources to:

- Help you **understand** the proposed rule
- Use **free tools** to see how your State, MPO, and/or Urban Area are performing
- Use **free tools to experiment** with variations to the proposed rule such as:
  - Imputation methods other than using speed limits
  - Arithmetic mean vs. harmonic mean
  - NPMRDS vs. other 3rd Party Data Sources (HERE, INRIX, and TomTom)
  - Experiment with target setting
  - *Send us your own suggestion*
- **Provide us** your volume and/or speed limit data for use in our free tools
- Learn to **compute the measures yourself** using sample data sets
- Link to **FHWA webinars and other resources**
- Discuss the rule, ask questions, request support, and collaborate in an **open forum**
- Learn **about us**

Our goal is to enable MPOs and DOTs to evaluate the proposed measures, assess their impact, experiment with alternatives, and respond to the docket. Comments on the latest Systems Performance NPRM are currently due by **August 20**.

Understanding the Notice of Proposed Rule Making *(coming soon)*

FHWA's **MAP-21 NPRM Website** has a lot of good information about the rule, but here is our quick and dirty interpretation of what is being asked, how it will affect you, and how complicated it's going to be. *(Coming soon.)*

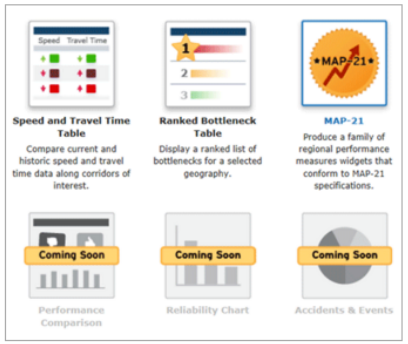
Free MAP-21 Performance Calculation Tools

The CATT Lab has developed some free tools that are available to states, MPOs, and consultants working on behalf of an agency to better explore the National Performance Management Research Data Set (NPMRDS) data (one of the datasets that FHWA suggests using for computing performance). Within this suite of tools is a MAP-21 widget that allows you to quickly and easily calculate your region's performance as described in the NPRM subparts **E**, **F**, **G**, and **H**.

The tool outputs the systems performance measures as charts, maps, and data files that can be used to report up to FHWA or to simply understand your agency's performance.

The tool can be found at **npmrds.ritis.org**.

Detailed tutorials will be added soon, so please check back often.



How do I see these tools?

► If you already use RITIS tools, your **existing login** is all you need to access the NPMRDS analytics tools.

► If you do not have a RITIS account, click now to **request a login**. Most accounts will be ready within 1 business day.

Any users experiencing issues with access or login should email **support@ritis.org**.

Our databases already include everything needed to calculate Level of Travel-Time Reliability (LOTTR) across all states and MPOs nationwide. However, we do not have all data needed to calculate all measures for all areas. We can work with you to load your data for immediate analysis of additional parameters such as speed limits and traffic volume.

Experimenting with the Rule *(coming soon)*

Many who read the NPRM may question the algorithms, methods, data, etc. Our goal is to modify our free tools described above to allow your agency to experiment with variations to the proposed rule to see how those variations might impact both your performance and the intent of the rule. We encourage you to email us (or post to the forum) your questions and/or requests for what you'd like us to experiment with. Time permitting, we will attempt to add options to the tools to allow you to test each possibility (or combination of possibilities). Examples could include things like:

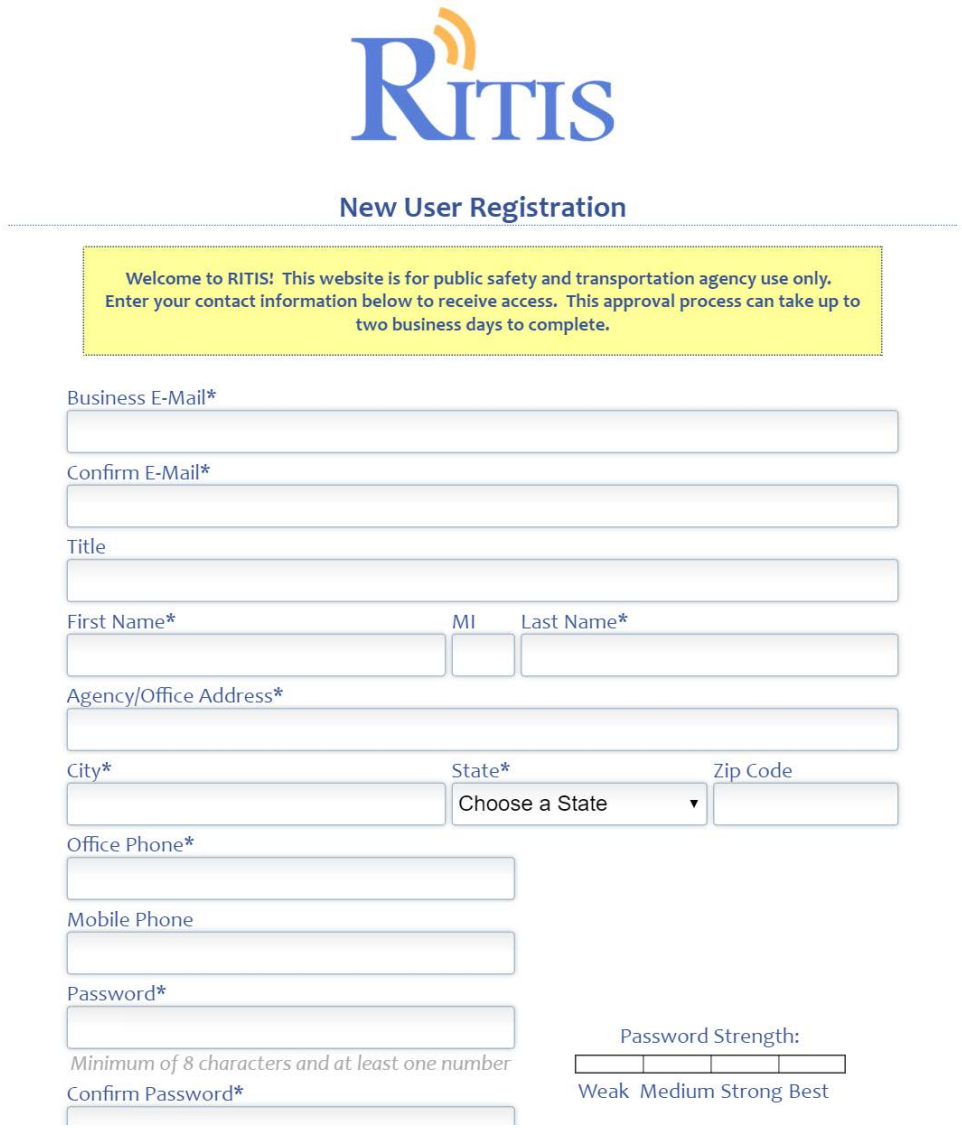
- Testing of Imputation methods other than just filling gaps with speed limits
- Arithmetic mean vs. harmonic mean
- NPMRDS vs. other 3rd Party Data Sources (HERE, INRIX, and TomTom)

Getting Access

If you have an existing RITIS account, you can access the tool at: **npmrds.ritis.org**

If you do not have a RITIS account, you can request one at: **ritis.org/register**

For more information visit: **cattlab.umd.edu/MAP-21**



Powered by: RITIS

Thank You!

Nikola Ivanov

ivanovn@umd.edu

301-405-3626