

Project Delivery Dashboards & Public Engagement at State DOTs

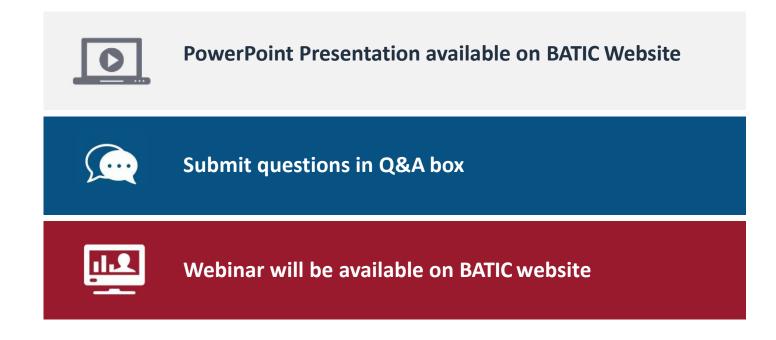
WEBINAR SERIES: INNOVATION IN PRACTICE

WEBINAR 12

February 20, 2019



Webinar Logistics





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Webinar Overview

Introduction to
Dashboards as Public
Engagement Tool

Virginia Department of Transportation:

Dashboard 4.0

Minnesota Department of Transportation:
Performacne Website

Questions Submitted by Webinar Participants



Dashboards as Public Engagement Tool

An Introduction

Ryan Avery, WSP USA



Why Dashboards?

 Communicate key information to stakeholders to drive understanding

• What information?

 E.g. performance, status, progress results

To whom?

 E.g. team members, operators, the public

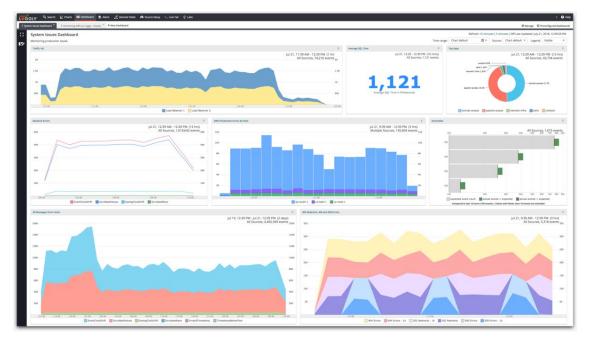
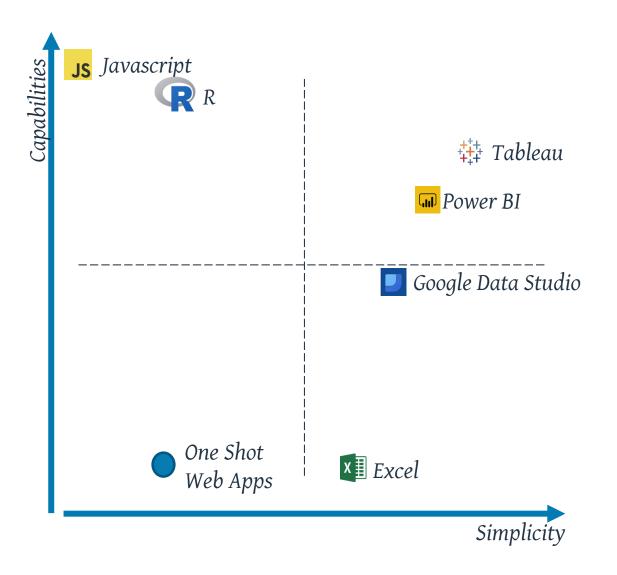


Image: <u>CC BY-SA 4.0 Loggly-inc</u>



Types of Dashboards



- Static vs Dynamic:
 - Interactivity
 - Frequency of Update
- Function:
 - Operational/Analytical
 - Tactical
 - Strategic
- Software: Tableau, Power BI, numerous web platforms & technologies

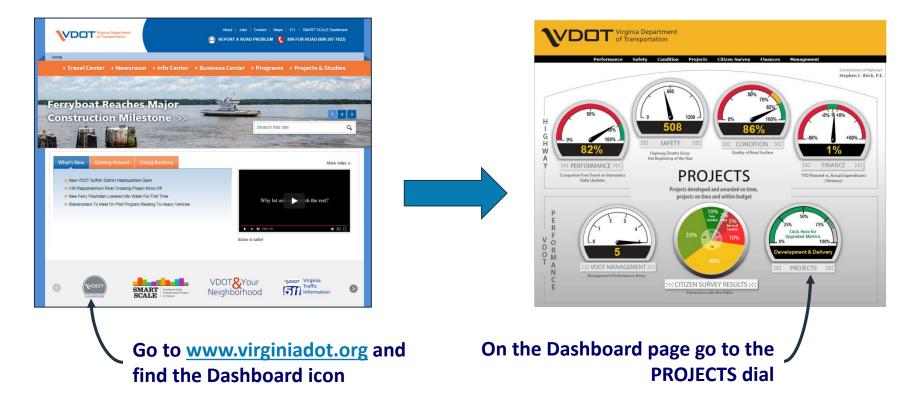
Virginia Department of Transportation: Dashboard 4.0

Jay Styles, Division Administrator Virginia Department of Transportation



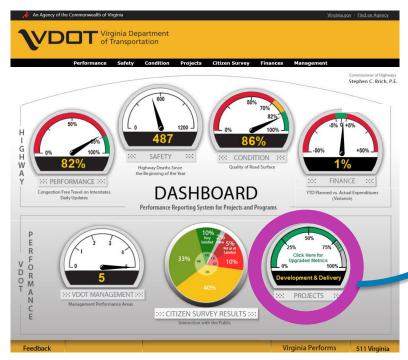
Why did VDOT implement a dashboard and how did we get there?

- Performance Reporting System for Projects and Programs
- Best used as a tool to identify strengths and weaknesses in project management and administration
- To get there:

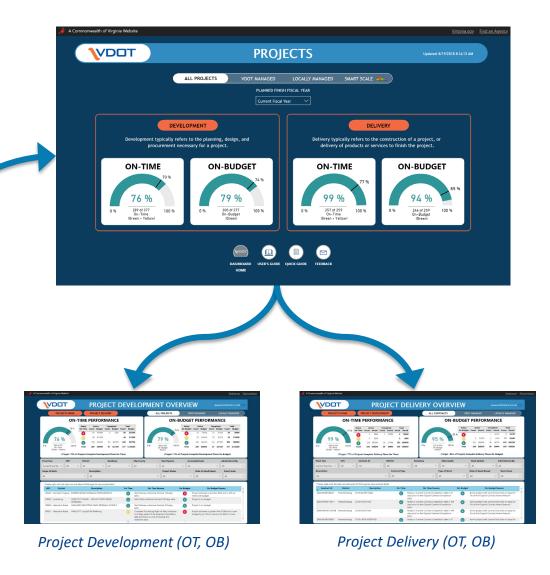




VDOT Dashboard Projects Dial

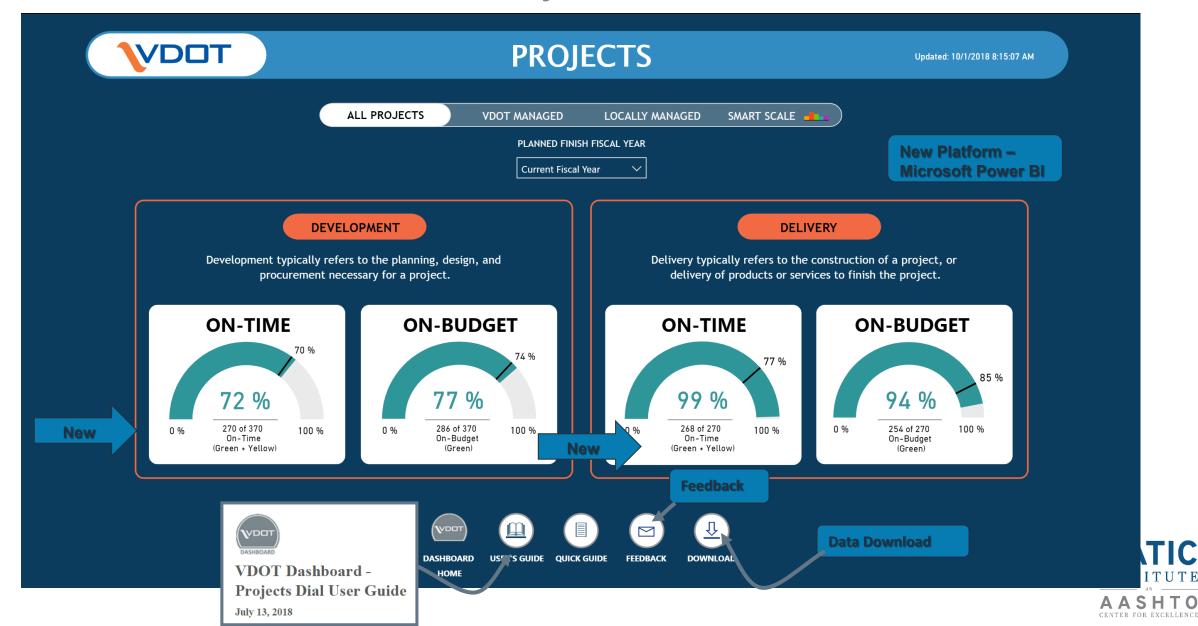


Interface to Project's Dial





VDOT's New Dashboard for Projects





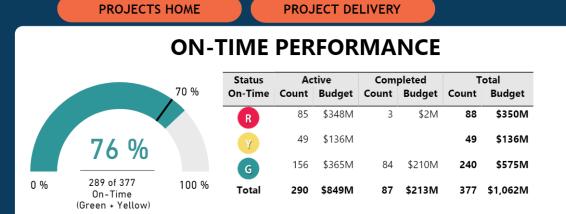
PROJECT DEVELOPMENT OVERVIEW

ALL PROJECTS

Updated: 8/19/2018 8:14:13 AM

LOCALLY MANAGED

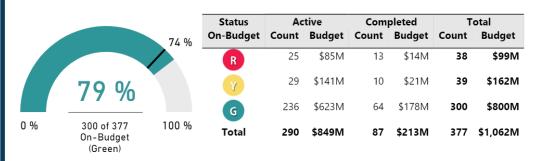
Find an Agency



(Target: 70% of Projects Complete Development Phase On-Time)

ON-BUDGET PERFORMANCE

VDOT MANAGED



(Target: 74% of Projects Complete Development Phase On-Budget)

Fiscal Year	UPC	District	Residency		City/County		Road System		Accom	plishment		Administered By	
Current Fiscal Ye ∨	All ~	All	✓ All	~	All	~	All	~	All		~	All	~
Scope of Work		Description					Project Status			State of Good Repa	air	Smart Scale	
All		✓ All				~	All		~	All	~	All	~

UPC	District	Description	On-Time	On-Time Reason	On-Budget	On-Budget Reason
100423	Northern Virginia	ROBERTS ROAD SIDEWALK IMPROVEMENTS	G	Start Delivery milestone finished 154 days early	R	Project estimate is less than \$5M and is 20% or more over budget
100822	Lynchburg	#HB2.FY17 PHASE I - MOUNT CROSS ROAD WIDENING	G	Solicit Bids milestone finished 196 days early	G	Project is on budget
100856	Hampton Roads	OAKLAND INDUSTRIAL PARK SIDEWALK, PHASE 2	G	Start Delivery milestone finished 322 days early	G	Project is on budget
100921	Hampton Roads	#HB2.FY17 Longhill Rd Widening	Y	Complete Purchasing Right-of-Way milestone is 32 days ahead of the expected completion date and there is a risk of missing this milestone date	R	Project estimate is greater than \$10M and is over budget by (a) 10% or more or (b) \$5M or more



PROJECT DELIVERY DETAIL

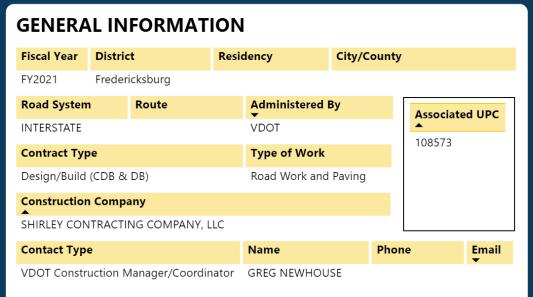
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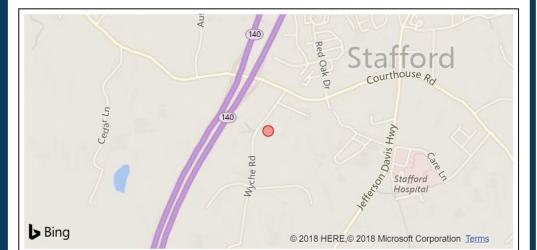




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#HB2.FY17 I-95/RT 630 RECONSTRUCTION & WIDENING DESIGN BUILD





SCHEDULE

Today or Current Contract Completion date is 711 days prior to the Original Contract Completion Date

Contract Execution Date	Original Specified Completion Date	Acceptance Date
10/26/2016	7/31/2020	
Current Estimated Completion Date	Current Specified Completion Date	Type of Schedule Days

CONTRACT MILESTONE

Milestone	Number	Specified Completion Date	Actual Completion Date	Status	
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BUDGET



Active project with contract over more than 3% and less than or equal to 10% of the Original Contract Award Amount

Contract Award Amount	Current Contract Amount	Cost of Work To Date	Un-audited Final Cost
\$99,946,970	\$104,195,329	\$36,831,508	

VDOT's Results

- Heightened attention to project schedules and budgets throughout the development process
 - Increased importance on scoping, since scoping locks in the schedule (and budget for non-Smart Scale projects)
- Increased focus on locally administered projects
 - Good communication between VDOT and localities is key
- Activities are finishing earlier



Minnesota Department of Transportation: Performance Website

Peter Olson, Senior Planner with the Office of Transportation System Management Minnesota Department of Transportation



Need for Website

- Until 2017 all of MnDOT's performance measures were tracked using a paper report.
- The report was usually released in the fall of the following year, after individual area reports had been released creating a lag in data for our audience.



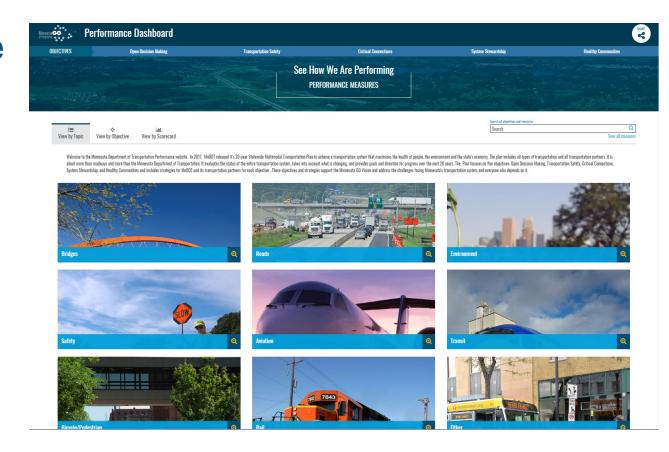






Audience for Website

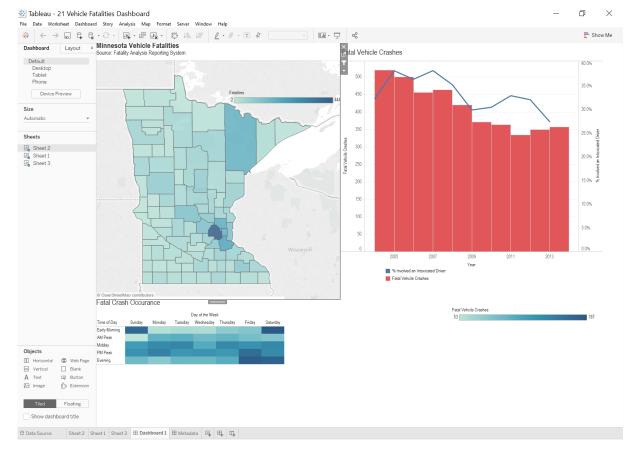
- MnDOT's performance website and dashboards are public facing and are designed to tell MnDOT's story to the public as well as internal users and legislators.
- The dashboards are designed to be the most up-to-date source for publicly available data.





Creation of Website

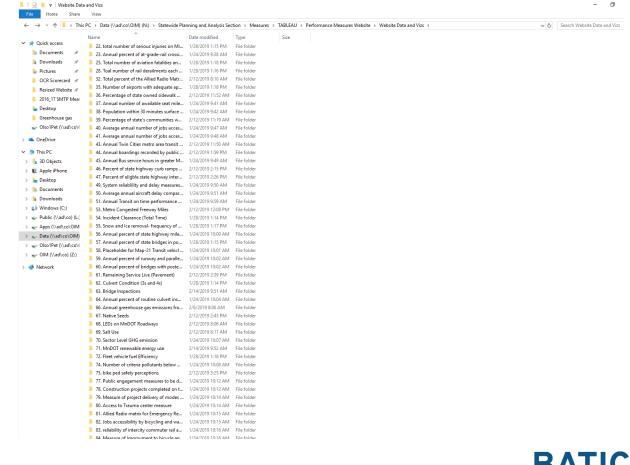
- MnDOT brought on a consultant who created the template and structure of the website.
- The website is managed using Concrete 5 management software by OTSM staff.
- The performance dashboards are created in Tableau Desktop and can be updated on the website instantly.





Construction of Dashboards

- Dashboards are created by OTSM staff and then reviewed by subject matter experts.
- Data is maintained on a shared drive, as are the dashboards so any OTSM staff member can update and Dashboard.
- Each dashboard under goes a soft launch and is reviewed by subject matter experts before being launched to the public.





Storytelling



Traveler Safety

2016 saw Minnesota return to its desired trend of decreasing the number of fatalities on Minnesota roadways after an increase in 2015. The top four contributing factors for roadway fatalities in Minnesota are speed, distraction, impaired fiving, and failier to wear seathlets. ManDIG1 is seeking ways to better address these four major factors. Influencing the cultural morns that drive these factors will take sustained and widespread focus from MinDIG and partners.



Traveler Safety

2016 saw Minnesota return to its desired trend of decreasing the number of fatalities on Minnesota readways after an increase in 2015. The lot prior contributing factors for readway fatalities in Minnesota are speed, distraction, impaired driving, and fallier to wave seathers. ManDIOT is seeking ways to better address these four major factors. Influencing the cultural norms that drive these factors will take sustained and widespread focus from MIDIOT and partners.





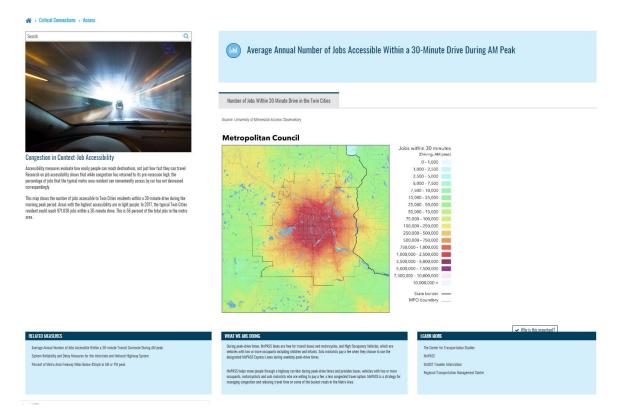
Total Number of Fatalities on Minnesota Roadways Resulting From Crashes Involving a Motor Vehicle Each Year





Expanding Use

- As part of our dashboard 2.0
 process our team is meeting with
 group across the organization to
 expand the amount of information
 for each measure.
- We use website to not only showcase measures but one time studies that provide relevant information to the users.





Let's hear from you



Wrap-Up

Thank you for attending today's webinar

The BATIC Institute will post responses to all questions received today on its website

The recorded webinar will also be available on the BATIC Institute website:

www.financingtransportation.org

UPCOMING BATIC INSTITUTE OFFERINGS

OMNI Peer Exchange
Oklahoma City, Oklahoma

March 2019

I-76 Corridor Peer Exchange

Harrisburg, Pennsylvania **April 2019**

Advance Construction

Research Report **Spring 2019**

Maintenance of Effort Test

Research Report **Spring 2019**

Update on Enacted State Public-Private Partnership Legislation

Research Report Spring 2019

