DASHBOARD 4.0

Briefing to the Commonwealth Transportation Board

May 15, 2018

Agenda Topics

- **Why is the Dashboard important?**

  - **Objective and Expected Outcomes**

- **The New Dashboard 4.0**

  - **What is Included and What is Changing**

  - **Business Rules**

- **Communications and Next Steps**

Why is the Dashboard important?

- **Maintain Focus**
  - **Flawless execution of the Six Year Improvement Program**
- **Time = money**
  - **Deliver transportation improvements to the citizens of our Commonwealth efficiently and without delay**
- **We are all accountable for delivering projects On-Time and On-Budget**
- **Equal focus on VDOT and locally administered projects**
 - **Localities have ½ the number of projects and ⅓ of the program value**

Objective & Expected Outcomes

- **Project Development & Project Delivery**
  - Implement Phase 1 (Projects Dial) to modernize VDOT's Dashboard
  - Introduce predictive / leading indicators of performance
    - Tracking and reporting on core activities, not only 'advertisement'
  - Delivery to budget rather than estimate
  - Quicken the pace of the program
    - Demonstrate that projects can be delivered quickly if there are no breaks in the funding stream
  - Rules apply to all fully funded projects scheduled for award in FY19 or later
  - Promote the early start and early finish of activities

VDOT Dashboard 4.0 Prototype
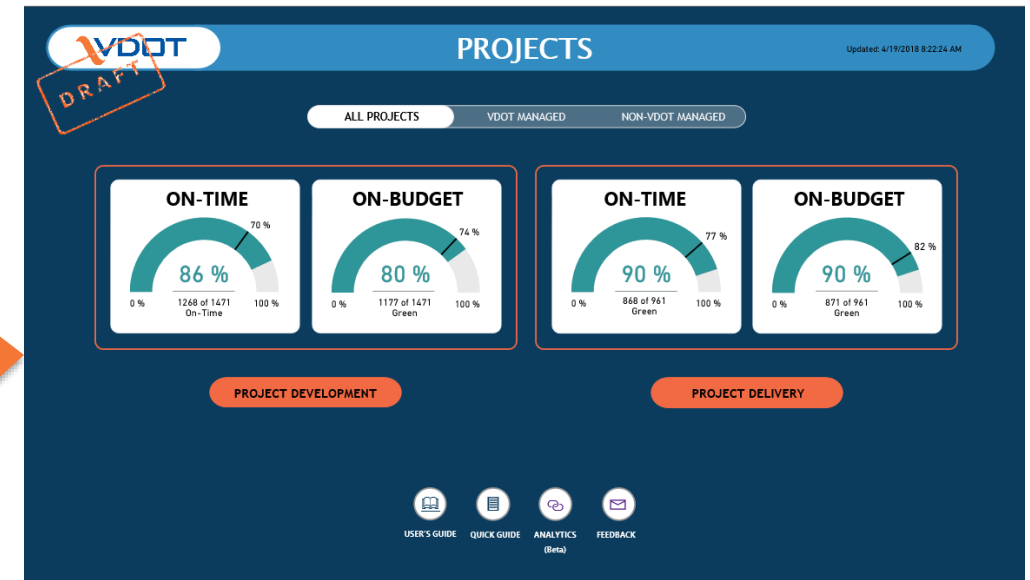
Interface from DB3 to DB4
From DB3 'Project Dial' users redirected to new Dashboard 4 Power BI generated web page.
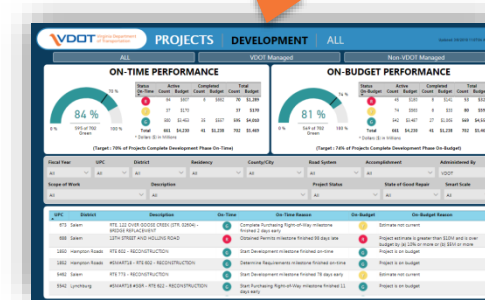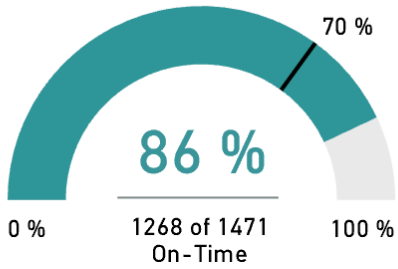
Project Development

Project Delivery

**PROJECTS HOME**   **PROJECT DELIVERY**   **ALL PROJECTS**   VDOT MANAGED   LOCALLY MANAGED

ON-TIME PERFORMANCE

70 %

86 %

0 %
1268 of 1471
On-Time
100 %

Status On-Time	Active Count	Active Budget	Completed Count	Completed Budget	Total Count	Total Budget
R	197	$1,319M	6	$532M	**203**	**$1,851M**
Y	86	$338M	1	$1M	**87**	**$339M**
G	1118	$5,633M	63	$668M	**1181**	**$6,300M**
Total	**1401**	**$7,289M**	**70**	**$1,200M**	**1471**	**$8,490M**

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

ON-BUDGET PERFORMANCE
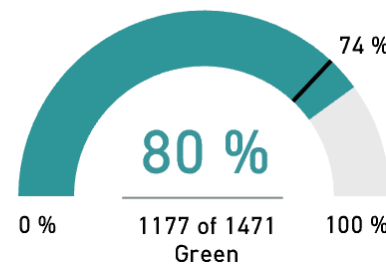
74 %

80 %

0 %
1177 of 1471
Green
100 %

Status On-Budget	Active Count	Active Budget	Completed Count	Completed Budget	Total Count	Total Budget
R	109	$480M	14	$80M	**123**	**$561M**
Y	162	$990M	9	$34M	**171**	**$1,024M**
G	1130	$5,819M	47	$1,086M	**1177**	**$6,905M**
Total	**1401**	**$7,289M**	**70**	**$1,200M**	**1471**	**$8,490M**

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

Fiscal Year	UPC	District	Residency	City/County	Road System	Accomplishment	Administered By
All	All	All	All	All	All	All	All

Scope of Work	Description		Project Status	State of Good Repair	Smart Scale
All	All		All	All	All

UPC	District	Description	On-Time	On-Time Reason	On-Budget	On-Budget Reason
100200	Hampton Roads	#SMART18 - SKIFFES CREEK CONNECTOR	G	Start Development milestone finished 33 days early	G	Project is on budget
100395	Bristol	Rt. 1101-Install Concrete Crossing Surface	G	Determine Requirements milestone finished on-time	G	Project is on budget
100396	Bristol	Lincoln St. - Install Concrete Crossing Surface	G	Determine Requirements milestone finished on-time	R	Critical information missing
100422	Northern Virginia	REBUILDING MT. VERNON TRAIL PARALLEL TO ABINGDON DR.	G	Determine Requirements milestone finished on-time	G	Project is on budget
100423	Northern Virginia	ROBERTS ROAD SIDEWALK IMPROVEMENTS	G	Solicit Bids milestone finished on-time	R	Project estimate is less than $5M and is 20% or more over budget

110012
#SGR Route 658 Str 6104 over SF Holston River Fed ID 17648

DEV.

GENERAL INFORMATION

Fiscal Year	District	Residency	City/County
FY2019	Bristol	WYTHEVILLE	Smyth County

Road System	Route	Administered By	Program Manager
Secondary	0658	VDOT	Programming/Operations Planning Division

Accomplishment

RAAP CONTRACT

Associated Contract ID

Scope of Work

Bridge Rehab w/o Added Capacity

Contact Type	Name	Phone	Email
Non-VDOT Project Manager			
VDOT Project Manager/Coordinator	David L Lively	(276) 696-3388	✉
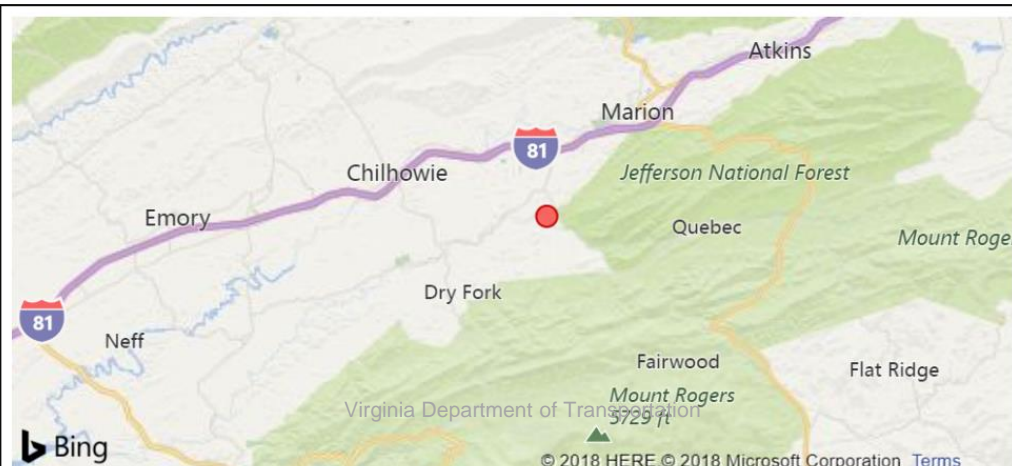
SCHEDULE

G Complete Purchasing Right-of-Way milestone finished 52 days early

PROJECT DEVELOPMENT TASK

Task	Code	Planned Start	Planned Finish	Actual Start	Actual Finish	Status
Start Development	12	9/1/2016	12/29/2016	9/1/2016	12/29/2016	G
Determine Requirements	22	12/30/2016	3/21/2017	12/30/2016	3/21/2017	G
Engage Public	49	9/7/2017	9/7/2017	9/14/2017	9/14/2017	R
Start Purchasing Right-of-Way	52	12/28/2017	12/28/2017	11/6/2017	11/6/2017	G
Complete Purchasing Right-of-Way	69	12/28/2017	12/28/2017	11/6/2017	11/6/2017	G
Obtained Permits	70	12/7/2017	8/10/2018	12/1/2017		G
Relocate Utilities	67U	5/10/2018	11/14/2018			G
Solicit Bids	80	12/11/2018	12/11/2018			G
Start Delivery	84	2/5/2019	2/26/2019			G

BUDGET

G Project is on budget

Budget	Estimate	Variance	Estimate Date
$1,180,000	$1,180,000	0.00 %	1/22/2018

What is Changing – Project Development

Old Rules	New Rules
Tracked 1 activity (advertisement) at the end of development process	Tracking 10 key milestones in project development
Once a project turned red, it stayed red	Leading indicators provide early warning signs and opportunities to recover
No incentive to finish early – just meet the deadlines	Encouraging activities to finish early
Looked at accuracy of estimates and obtain additional money if needed	Delivering to project budget

How do we set deadlines and budgets?

- **On-Time (Smart Scale and non-SmartScale)**

  - **Before the project is scoped, the Local Agreement, PE Authorization, and Scoping milestones are set. The remaining project development milestones are locked after scoping is completed.**

- **On-Budget**

  - **Non-Smart Scale – Before project is scoped, the budget is equivalent to the estimate. Post scoping, the subsequent estimate update is locked as the project budget.**

  - **Smart Scale - The approved funding in the SYIP is the budget**
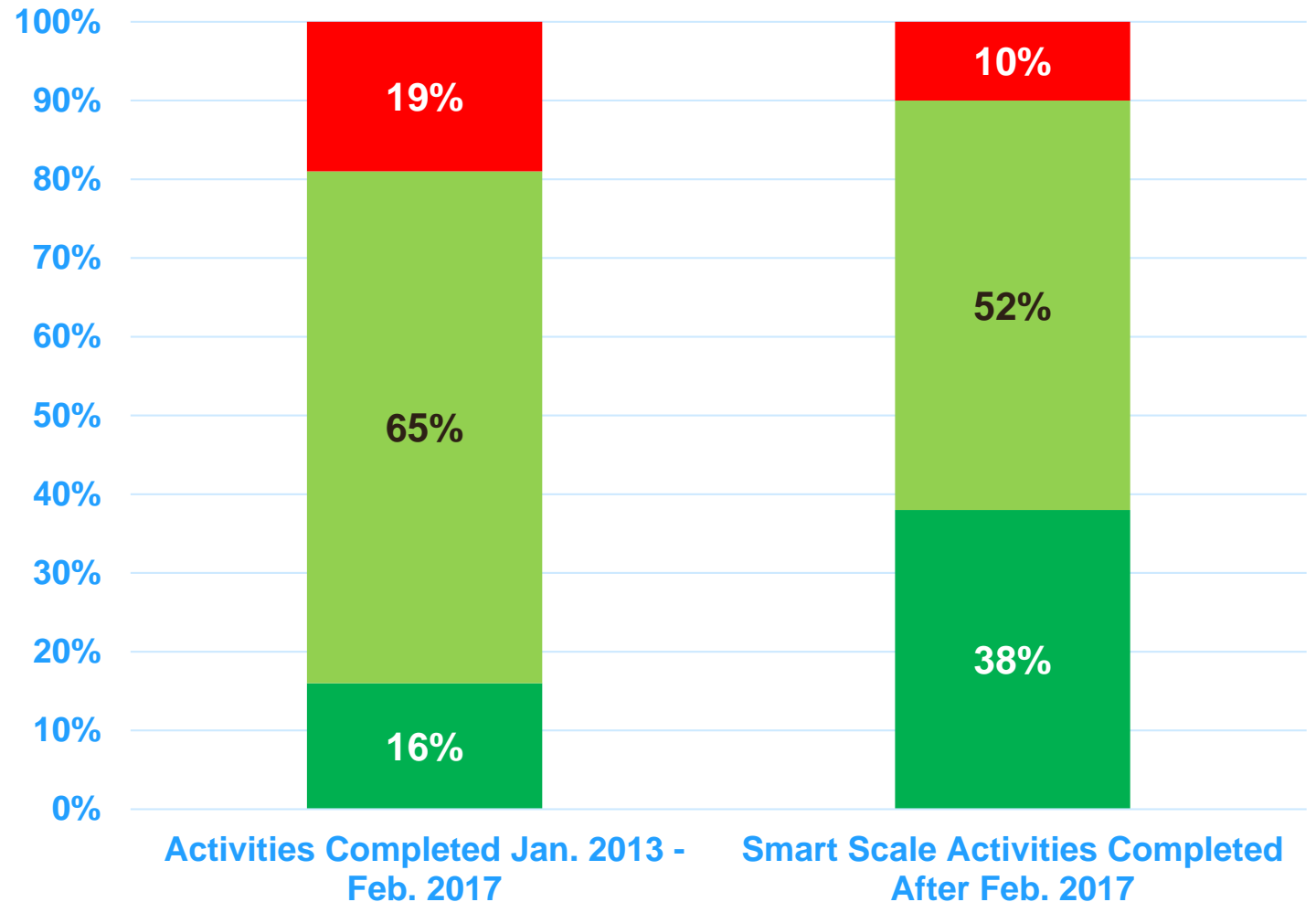
Business Rules: Project Development On-Time

Project Milestone	Activity Code	Early Finish		Baseline Finish Date	Late Finish
Local Agreement	10	> 30 days early	≤ 30 days early		> 0 days late
Start Development (Authorize PE)	12				
Determine Requirements (Scope Project)	22				
Engage Public (Approve Willingness, Adopt Location/Design)	47, 49				
Start Purchasing Right-of-Way (Authorize R/W & UT Funds)	52				
Utility Relocation	67U				
Complete Purchasing Right-of-Way (Acquire Right-of-Way)	69	> 60 days early	≤ 60 days early		
Obtain Permits	70				
Solicit Bids (Advertise Project)	80				
Start Delivery (Award Contract)	84	> 30 days early	≤ 30 days early		> 0 days late

Business Rules & Impact of Smart Scale Dashboard
Completed Activities by Status

- **Activities completed early have doubled since before Smart Scale Dashboard**

- **Activities completed late have been cut by nearly 1/2**

■ **Completed Late**

■ **Yellow but Completed On-Time**

■ **Completed Early (Never Yellow)**

Activities Completed Jan. 2013 - Feb. 2017
- 19%
- 65%
- 16%

Smart Scale Activities Completed After Feb. 2017
- 10%
- 52%
- 38%

Business Rules: Project Development On-Budget

Approved Budget	Current Estimate in PCES		
< $5 million	≤ 0	> 0 to < 20%	≥ 20%
$5 million to $10 million	≤ 0	> 0 to > $1M	≥ $1M
> $10 million	≤ 0	> 0 to < 10% or < $5M*	≥ 10% or ≥ $5M*
Whichever is less			

Business Rules: Project Delivery On-Time

Milestones	Early Finish			Late Finish
Project Specific Interim Milestones	> 14 days	≤ 14 days	Baseline End Date	> 0 days
Complete Delivery	≥ 0 days			> 0 days

Business Rules: Project <u>Delivery</u> On-Budget

	Contracts have not been executed; no status		
Active	Neither the current contract amount, nor the cost of work to date, exceed the award amount by more than 3%	Either the current contract amount, or the cost of work to date, exceeds the contract award amount by 3% to 10%	Either the current contract amount, or the cost of work to date, exceeds the contract award amount by more than 10%
Completed	Un-audited final cost is within 110% of award amount	Cost of work to date, or the current contact amount, exceed the original award amount by 3% to 10%	Un-audited final cost is not known; Either the cost of work to date, or the current contract amount, exceeds 110% of the award amount

Communications Plan – VDOT

- ✓ **Conceptual buy-in from agency leadership**
- ✓ **Draft Initial Prototype and work with division and district staff to ensure rules are properly applied and data is accurate**
- ✓ **Communicate with key agency leadership**
- ✓ **Open Prototype to all staff and receive feedback**
  - Quick Start Guide
  - User's Guide

Communication Plan - Localities

- ✓ **Local gov't stakeholders (Mar)**

- ✓ **Hampton Roads LAP CIRCLE workshop (Apr)**

- ✓ **Statewide Webinar to all localities**

- **Upcoming outreach**

  - **Additional meetings with locals and administration officials**

  - **Local Assistance Division Newsletter**

  - **Coordination with Office of Communications to inform public**

Next Steps

- **Beta Test period: March 30- July 1**

- **Receive feedback from localities: May 31**

- **Public launch: July 1**

- **Begin Reporting - Quarterly Report Card to CTB: First Quarter of FY19**