DASHBOARD 4.0

VTCA-VDOT Consultant Forum

Jay Styles, Performance and Strategic Planning Director
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
• Results
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 \( \frac{1}{2} \) the number of projects and \( \frac{1}{3} \) of the program value
Objective & Expected Outcomes

- **Project Development & Delivery**
  - **Better Technology**
    - Implement Phase 1 (Projects Dial) to modernize VDOT’s Dashboard
  - **Better Metrics**
    - Introduce predictive / leading indicators of performance
      - Tracking and reporting on core activities, not only ‘advertisement’
  - **Better Business**
    - 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
    - Promote the early start and early finish of activities
Introduction to Dashboard
What it is and how do you 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:

Go to www.virginiadot.org and find the Dashboard icon

On the Dashboard page go to the PROJECTS dial
VDOT’s New Dashboard for Projects

DEVELOPMENT
Development typically refers to the planning, design, and procurement necessary for a project.

ON-TIME
72%  
70%  
0%  
270 of 370 (Green, Yellow)

ON-BUDGET
77%  
74%  
0%  
286 of 370 (Green)

DELIVERY
Delivery typically refers to the construction of a project, or delivery of products or services to finish the project.

ON-TIME
99%  
77%  
0%  
266 of 270 (Green, Yellow)

ON-BUDGET
94%  
85%  
0%  
254 of 270 (Green)

Data Download

Feedback

VDOT Dashboard - Projects Dial User Guide
July 13, 2018
PROJECT DELIVERY DETAIL

GENERAL INFORMATION

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>District</th>
<th>Residency</th>
<th>City/County</th>
</tr>
</thead>
<tbody>
<tr>
<td>FY2021</td>
<td>Fredericksburg</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Road System: INTERSTATE
Contract Type: Design/Build (CDB & DB)

Associated UPC: 108573

Contractor:
Shirley Contracting Company, LLC

Contact Type: VDOT Construction Manager/Coordinator
Name: GREG NEWHOUSE

SCHEDULE

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

<table>
<thead>
<tr>
<th>Contract Execution Date</th>
<th>Original Specified Completion Date</th>
<th>Acceptance Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>10/26/2016</td>
<td>7/31/2020</td>
<td></td>
</tr>
</tbody>
</table>

Current Estimated Completion Date: 7/31/2020
Current Specified Completion Date: 7/31/2020
Type of Schedule Days: Fixed Date

CONTRACT MILESTONE

<table>
<thead>
<tr>
<th>Milestone</th>
<th>Number</th>
<th>Specified Completion Date</th>
<th>Actual Completion Date</th>
<th>Status</th>
</tr>
</thead>
</table>

BUDGET

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

<table>
<thead>
<tr>
<th>Contract Award Amount</th>
<th>Current Contract Amount</th>
<th>Cost of Work To Date</th>
<th>Un-audited Final Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>$99,946,970</td>
<td>$104,195,329</td>
<td>$36,831,508</td>
<td></td>
</tr>
</tbody>
</table>
# What is Changing – Project Development

<table>
<thead>
<tr>
<th>OLD</th>
<th>NEW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tracked 1 activity (advertisement) at the end of development process</td>
<td>Tracking 10 key milestones in project development</td>
</tr>
<tr>
<td>Once a project turned red, it stayed red</td>
<td>Leading indicators provide early warning signs and opportunities to recover</td>
</tr>
<tr>
<td>No incentive to finish early – just meet the deadlines</td>
<td>Encouraging activities to finish early</td>
</tr>
<tr>
<td>Looked at accuracy of estimates and could obtain additional money</td>
<td>Delivering to project budget</td>
</tr>
</tbody>
</table>
## Business Rules: Project Development On-Time

<table>
<thead>
<tr>
<th>Project Milestone</th>
<th>Activity Code</th>
<th>Early Finish</th>
<th>Late Finish Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Local Agreement</td>
<td>10</td>
<td>&gt; 30 days early</td>
<td>≤ 30 days early</td>
</tr>
<tr>
<td>Start Development (Authorize PE)</td>
<td>12</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Determine Requirements (Scope Project)</td>
<td>22</td>
<td>&gt; 30 days early</td>
<td>≤ 30 days early</td>
</tr>
<tr>
<td>Engage Public (Approve Willingness, Adopt Location/Design)</td>
<td>47, 49</td>
<td>&gt; 60 days early</td>
<td>≤ 60 days early</td>
</tr>
<tr>
<td>Start Purchasing Right-of-Way (Authorize R/W &amp; UT Funds)</td>
<td>52</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Utility Relocation</td>
<td>67U</td>
<td>&gt; 30 days early</td>
<td>≤ 30 days early</td>
</tr>
<tr>
<td>Complete Purchasing Right-of-Way (Acquire Right-of-Way)</td>
<td>69</td>
<td>&gt; 60 days early</td>
<td>≤ 60 days early</td>
</tr>
<tr>
<td>Obtain Permits</td>
<td>70</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Solicit Bids (Advertise Project)</td>
<td>80</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Start Delivery (Award Contract)</td>
<td>84</td>
<td>&gt; 30 days early</td>
<td>≤ 30 days early</td>
</tr>
</tbody>
</table>
### Business Rules: Project Development On-Budget

<table>
<thead>
<tr>
<th>Approved Budget</th>
<th>Current Estimate in PCES</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; $5 million</td>
<td>≤ 0</td>
</tr>
<tr>
<td>$5 million to $10 million</td>
<td>≤ 0</td>
</tr>
<tr>
<td>&gt; $10 million</td>
<td>≤ 0</td>
</tr>
</tbody>
</table>

* Whichever is less
## Business Rules: Project Delivery On-Time

<table>
<thead>
<tr>
<th>Milestones</th>
<th>Early Finish</th>
<th>Late Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project Specific Interim Milestones</td>
<td>&gt; 14 days</td>
<td>&gt; 0 days</td>
</tr>
<tr>
<td>Complete Delivery</td>
<td>≥ 0 days</td>
<td>&gt; 0 days</td>
</tr>
</tbody>
</table>
## Business Rules: Project Delivery On-Budget

<table>
<thead>
<tr>
<th></th>
<th>Contracts have not been executed; no status</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Active</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Contracts</strong></td>
<td>Neither the current contract amount, nor the cost of work to date, exceed the award amount by more than 3%</td>
</tr>
<tr>
<td><strong>Completed</strong></td>
<td>Un-audited final cost is within 110% of award amount</td>
</tr>
</tbody>
</table>
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
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

Activities completed late
- Completed Late
- Yellow but Completed On-Time
- Completed Early (Never Yellow)

- 19%
- 65%
- 16%

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