I-81 Corridor Improvement Plan
# I-81 Corridor Improvement Plan

## District Public Input Meetings

<table>
<thead>
<tr>
<th>Date</th>
<th>Location</th>
<th>Address</th>
<th>City, State, Zip</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wednesday, June 6, 2018</td>
<td>Bristol District</td>
<td>Southwest Higher Education Center One Partnership Cir</td>
<td>Abingdon, VA 24210</td>
</tr>
<tr>
<td>Tuesday, June 12, 2018</td>
<td>Staunton District (north)</td>
<td>Strasburg High School 250 Ram Drive</td>
<td>Strasburg, VA 22657</td>
</tr>
<tr>
<td>Wednesday, June 13, 2018</td>
<td>Staunton District (south)</td>
<td>Blue Ridge Community College Plecker Center for Continuing Education One College Lane</td>
<td>Weyers Cave, VA 24486</td>
</tr>
<tr>
<td>Thursday, June 14, 2018</td>
<td>Salem District</td>
<td>Holiday Inn Valley View 3315 Ordway Drive</td>
<td>Roanoke, VA 24017</td>
</tr>
</tbody>
</table>
Agenda

• Overview of I-81 Corridor Improvement Plan Purpose
• Summary of Safety, Congestion and Resiliency Data
• How to Provide Input
• What to Expect Next
What is Senate Bill 971?

Directs the Office of Intermodal Planning and Investment (OIPI) to develop an I-81 corridor improvement plan and report the results to the Commonwealth Transportation Board (CTB).

The plan will:

- Identify segments of I-81 for improvement
- Identify targeted set of improvements for each segment that can be financed by evaluated financing options
- Include corridor-wide incident management strategies
- Evaluate concepts to minimize impacts on local truck traffic and diversion of truck traffic
- Identify truck parking needs
- Assess economic impacts on corridor from tolling only heavy commercial trucks
I-81 Corridor Significance

- 11.7 million trucks per year
- $312 billion in goods per year
- 42% of statewide interstate truck VMT
- Approximately 11,000 crashes over 5 years
- Approx. 30 crashes per year (with clearance times greater than 6 hours)

*Data sources include TRANSITON.NEXT and VDOT data between 2012 and 2014*
I-81 Elevation Profile

SOUTHBOUND

2,600 feet

NORTHBOUND

0 feet

Abingdon
Bristol
Tennessee Line
Wytheville
Pulaski
Christiansburg
Roanoke
Buchanan
Lexington
Staunton
Harrisonburg
Woodstock
W. Va. Line

LEGEND:

3-LANE SECTION

2-LANE SECTION

I-81 Corridor Improvement Plan

Office of INTERMODAL Planning and Investment

VDOT Virginia Department of Transportation
Effect of Length of Grade and Trucks

**Description:** Daily traffic volume adjusted to account for the effects of the number of trucks and type of terrain.

**Definition:** PCE = Passenger Car Equivalent (factor used to convert trucks into passenger cars).

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### Description:

- **Bristol:** 40,000
- **Abingdon:** 50,000
- **Wytheville:** 60,000
- **Christiansburg:** 70,000
- **Salem:** 80,000
- **Roanoke:** 90,000
- **Buchanan:** 100,000
- **Raphine:** 110,000
- **Harrisonburg:** 120,000
- **Winchester:** 130,000

**2016 Daily Traffic Volume Converted to PCE**

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**2016 Daily Traffic Volume**

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What Makes I-81 Unique...Delay

INTERSTATE
All VA Interstates

- 16% Incidents
- 6% Workzone
- 1% Weather
- 5% Holiday

INTERSTATE
I-81

- 51% Incidents
- 15% Workzone
- 3% Weather
- 10% Holiday
- 21% Recurring

72% Recurring

I-81 Corridor Improvement Plan
Office of INTERMODAL Planning and Investment
VDOT Virginia Department of Transportation
I-81 has the **lowest** proportion of Recurring Delay and the **highest** proportion of Incident Delay than any other interstate in Virginia.
Where We are Right Now

Problem Identification

- Reviewing entire I-81 corridor to identify areas for improvement based on identified problems
  - Safety (crash frequency and severity)
  - Congestion (person-hours of delay)
  - Resiliency (incidents or crashes causing lane closures greater than one hour)
Performance Measures Definitions

• Safety
  • Crash frequency: number of crashes during the last 5 years
  • Crash severity: fatal and severe injury crashes during the last 5 years

• Congestion
  • Person-hours of delay: hours of delay caused by congestion, incidents, and weather events resulting in vehicles operating below the posted speed limit (accounting for occupancy of vehicles)

• Resiliency
  • Incident/crash lane closure > 1 hour: incidents/crashes that lead to at least one lane of the interstate being closed for an hour or more
Information For You to View Tonight

• Background information
• Display boards with performance measure information
• Corridor overview board
• Comment sheets to *provide your input*
Providing Input on the Display Boards

• Place **RED DOTS** in areas that are a safety concern to you
• Place **BLUE DOTS** in areas where you experience congestion issues
• Place **YELLOW DOTS** in areas that you see other issues and provide a staff member with an explanation
Next Steps

• Study team will use your feedback and data to develop recommended improvements

• August public meetings
  • Develop improvement recommendations and evaluate tolling feasibility

• October public meetings
  • Improvement recommendation packages and economic impact of tolling
Providing Feedback

- Participate in dot activity this evening
- Fill in and submit comment sheet (this evening or via mail)
- Project website: [http://www.VA81Corridor.org](http://www.VA81Corridor.org)
- Project e-mail address: VA81CorridorPlan@OIP.In.Virginia.gov
- VDOT Project Manager: Ben Mannell, 1401 E. Broad St., Richmond, Virginia 23219 or by phone at (804)786-2971
Providing Feedback...VA81Corridor.org
Online Tool...https://arcg.is/a1O14

Public Meeting Displays

View the public meeting presentation and handout.

View project meeting displays ahead of the first series of corridor public meetings.

View displays on I-81 focused in the District.

The CTB was presented with a briefing on the I-81 Corridor Improvement Plan at its May meeting in Bristol.

Provide Comments

- Provide verbal or written comments at an in-person meeting
- Email VA81CorridorPlan@OIPV.Virginia.gov
- Call 804-786-2971
- Online mapping tool: https://arcg.is/a1O14
- Mail - Attn: Ben Mannell, 1401 E. Broad St., Richmond, Virginia 23219

The first comment period will end Aug. 6, 2018. Additional comment opportunities will be available throughout the study.
Open House

• Participate in dot activity this evening
• Fill in and submit comment sheet (this evening or via mail)
• Project website: http://www.VA81Corridor.org
Thank you for coming tonight!