





• **DRPF**• Virginia Department of Rail and Public Transportation

COMMONWEALTH of VIRGINIA Office of the ______ SECRETARY of TRANSPORTATION

House Bill 2 Update

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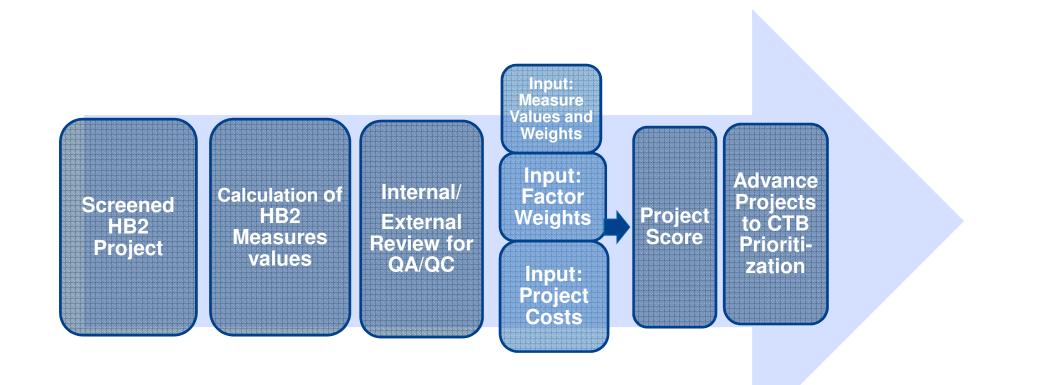
House Bill 2 Update

- Late February/Early March Held meetings in each district to get feedback on measures/process
- April/May Public Comment on draft
- Today Progress on HB2 Pilot Project Scoring
- May CTB Revised process presented
- June CTB Final process considered by the Board

Outline

- Framework and Evaluation Process
- Overview of Pilot Projects
- Scorecard and Relative Benefits
- Findings
- Challenges
- Recommended Changes
- Next Steps

HB2 Project Evaluation Process

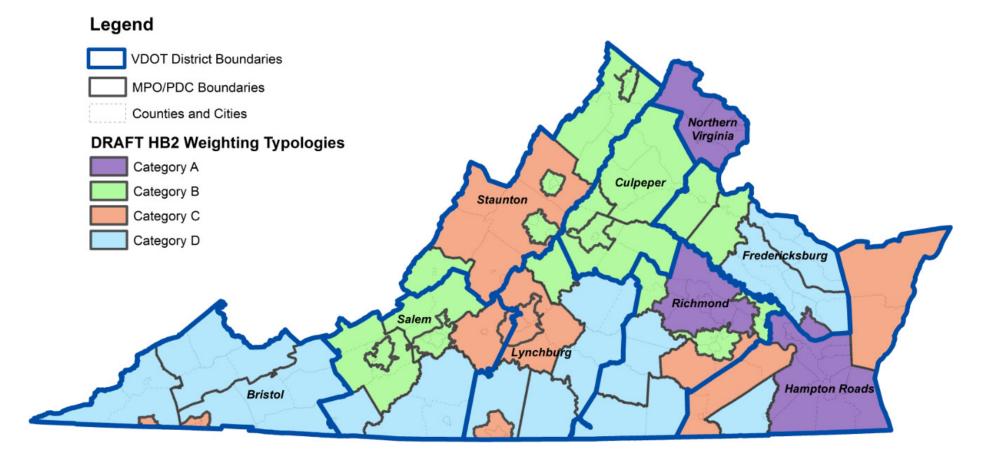


Factor Weighting Frameworks

Factor	Congestion Mitigation	Economic Development	Accessibility	Safety	Environmental Quality	Land Use
Category A	35%**	10%	25%	10%	10%	10%*
Category B	15%	20%	25%	15%	10%	15%*
Category C	10%	20%	30%	30%	10%	
Category D	10%	30%	20%	30%	10%	

- Note* For metropolitan planning areas with a population over 200,000 (TPB, HRTPO, RRTPO, FAMPO, RVTPO), the prioritization process shall also include a factor based on the quantifiable and achievable goals in VTrans (referred to as the Transportation-Land Use Coordination factor).
- Note** For Northern Virginia and Hampton Roads construction districts, congestion mitigation is weighted highest among the factors in the prioritization process.

Draft Area Types



Overview of Pilot Projects

Туроlоду	Α	В	С	D	Total
Train Station	1				1
Bus Expansion	1				1
Fixed Route Transit	1				1
New Location Roadway		2			2
Widen Existing Roadway	8	4	2	1	15
Reconstruction w/ Added Capacity				1	1
Interchange Improvements	4	8	2	1	15
Bridge Replacement			1		1
Safety			1		1
Multimodal – Park and Ride		1			1
Total	15	15	6	3	39

Illustrative Scorecard Examples

PROJECT NAME DRAFT HB2 PROJECT SCORECARD LIMITS OF PROJECT AND JURISDICTION WEIGHTING CATEGORY HB2 SCORE SUMMARY RELATIVE SCORES **PROJECT DESCRIPTION** (CHOOSE ONE): % = Percentile of all EVALUATION MEASURES RAW SCORES WEIGHTED SCORES General project description goes here along with key informational projects scored fields from application, including VDOT District, MPO and/or PDC. SAFETY YY.YY XX.XX Max Max Max Expected Reduction in #F+L Crashes (50%) YY.YY XX, XX XX, XX Expected Reduction in F+I Crash Rate (50%) YY.YY CONGESTION MITIGATION XX.XX YY.YY Person Throughput (50%) XX,XX % Person Hours of Delay (50%) XX,XX Map of project location goes here. Example provided. XX.XX ACCESSIBILITY Access to Work Destinations (60%) XX, XX (Y,Y)% Access to Non-Work Destinations (20%) XX, XX YYYY Access to Multimodal Choices (20%) XX, XX % 96 XX.XX ENVIRONMENTAL QUALITY YY.YY Air Quality and Energy Environmental Effect (50%) YY.YY XX,XX Access to Jobs for Disadvantaged Populations (40%) XX,XX YY.YY % Access to Essential Destinations for DP (10%) YY.YY XX, XX ECONOMIC DEVELOPMENT XX.XX YY.YY Project Consistency/Support (70%) XX, XX PROJECT READINESS Intermodal Access and Efficiency (30%) YY.YY XX,XX LAND USE COORDINATION YY.YY XX.XX Locally-Approved Planning Document YY.YY XX, XX Land Use Policy Consistency (50%) State-Approved Planning Document VMT Per Capita (50%) YY.YY XX, XX Min Min Constrained Long-Range Plan (CLRP) Cost ed Weighted Project Score Score Per Total Project Cost Transportation Improvement Program (TIP) FINAL PROJECT SCORE : YY.YY XX.XX HB2-Fund Preliminary EngineeringStarted ect Preliminary Engineering Complete \$XX,XXX,XXX TOTAL PROJECT COST: Proj **Right-of-way Started** WEIGHTED SCORE PER TOTAL PROJECT COST ##.## **Right-of-way Complete** Per **NEPA Started** (##) (RANKING): **NEPA** Complete Score F Other, Describe:_ \$XX,XXX,XXX HB2-FUNDED PROJECT COST: ##.## WEIGHTED SCORE PER HB2-FUNDED PROJECT COST VDOT • DRPT• (##) (RANKING):

HB2 Project Scorecard

Project Name: Route Z - Project A Description: This is a generic project description

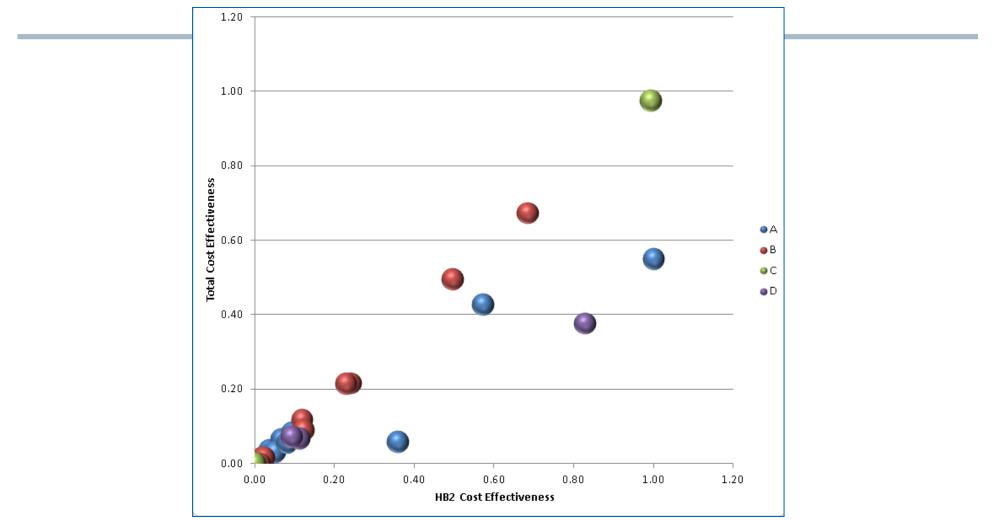


Project Location Project Information Total Cost: \$2,500,000 System: NHS Non-Interstate HB2 Cost: \$500,000 Location: District 9 Non-HB2 Cost: \$2,000,000 Area Type Typology: A Performance Information: Percentile Rank Benefits Overall **Based on Value** Safety Fatal & Severe Crash Rate 7 (out of 800) 99% Reduction Based on HB2 Cost Washington 5.2 Within District Effectiveness 2 (out of 25) 85% **Congestion Mitigation Delay Savings** in Person-Hours 400 **Project Rated in Environmental Quality** Tier #1 (out of 4) Number of Non-SOV Users **Reached through Ridesharing Programs**, **Project Score by Criteria** ncreased Transit Use, and other Energy Efficiency Efforts 650 75 Economic Development 56 Economic Development Congestion Mitigation Tonnage of Freight Goods 48 Moved through Improved Accessibility Intermodal Connectivity 35 ■ Safety 200 Land Use Coordination 20 Environmental Quality Change in Corridor **Population Job** Accessibility 0.08 100 0 20 40 60 80 **Best Possible**

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Sample Scorecard

Project Scoring Cost-Effectiveness



Overall Findings:

- Develop consistent and clear definitions and criteria for applications
 - Minimize interpretation of responses
 - Ensure consistency of information provided
- Reduce complexity and improve clarity of certain measures
 - Congestion
 - Accessibility
 - Economic Development

Safety Factor Area

- Finding: Inconsistent project scope descriptionsdictates scope of analysis
- Recommended Action: Crashes as performance measure- emphasis on locations with greatest potential for fatalities and injuries
- Finding: Insufficient number of incidents in certain locations
- Recommended Action: Expand to larger sample size to be consistent with federal guidelines- five years

Congestion Factor Area

- Finding: Using multiple evaluation techniques based on location provided inconsistent results. For example, a regional model may provide one answer while a calculation based on the Highway Capacity Manual may provide a different answer
- Recommended Action: Use a uniform, consistent, and repeatable process that will allow projects to be comparably evaluated

Economic Development

- Finding: It is difficult to determine which undeveloped or underdeveloped parcels within the project area should be considered as benefitting from improved transportation facility
- Recommended Action: Incorporate levels of commitment- active site plans, occupancy permits, water and sewer in place, letters of intent, market studies, etc.

Potential Changes to Measures

- Economic development factor area
 - Undertaking analysis to determine if a reliability measure can be incorporated into this factor area
- Environmental factor area
 - Concern that accessibility for disadvantaged populations is not an environmental justice measure
 - Concern over lack of consideration of natural, historic and cultural resources
- Accessibility factor area
 - Concern over appropriateness and definition of "essential destinations"

Next Steps

- April/May-
 - Public comment on draft will be solicited
 - Six-Year Improvement Program hearings
- May CTB Pilot Results and process revisions presented
- June CTB Final process considered by Board