

Funding the Right
Transportation Projects

House Bill 2 Implementation

May 5, 2016



Strategic Framework for Funding the Right Projects

How it's planned.



How it's scored.



How it's funded.



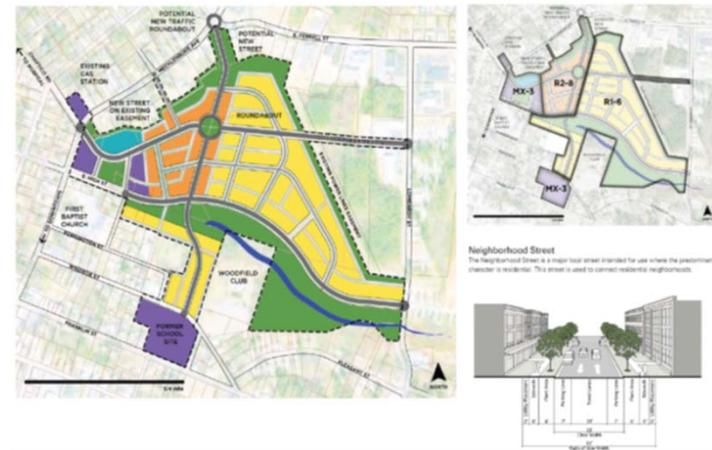
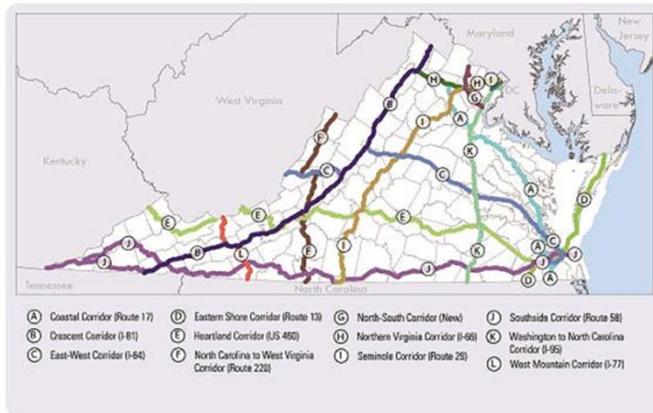
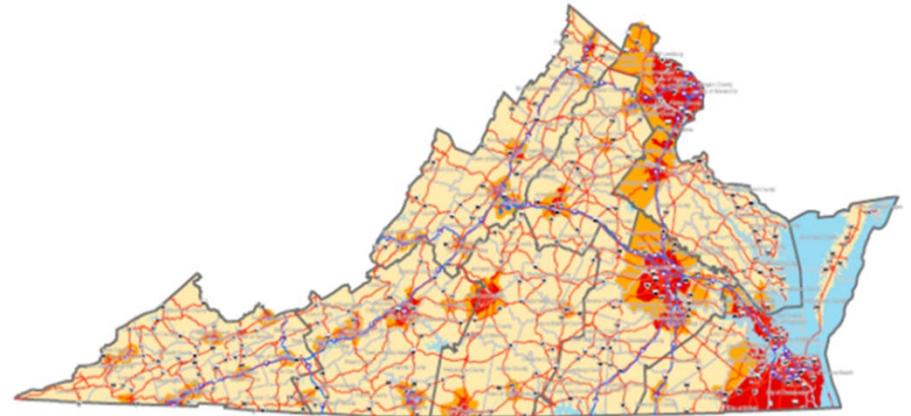


House Bill 2 (HB2) Requirements

- **2014 Bill directs the Commonwealth Transportation Board to develop a statewide prioritization process**
- **Board must use quantifiable and objective measures for 6 factor areas**
- **Board must consider highway, transit, rail, road, operational improvements and transportation demand management projects**

Solicitation of Projects

- Eligibility and screening:
 - Corridors of statewide significance
 - Regional networks
 - Urban development areas



Factor Areas



Safety



Congestion mitigation



Accessibility



Environmental quality



Economic development



Land use and transportation coordination (areas with over 200,000 people)



Measures Selection

- **Transparent and understandable process**
 - Easy to communicate to project sponsors
 - Ability to evaluate projects with available resources
- **Measures applicable statewide and across modes**
- **Meet implementation schedule**
 - Establish process that can be implemented in Year 1 and improved over time



Evaluation Measures – Safety

- **50% based on expected reduction in fatal and severe injury crashes on the facility (100% of score for transit projects)**
- **50% based on expected reduction in the rate of fatal and severe injury crashes on the facility**



Evaluation Measures - Congestion Mitigation

- **50% based on expected reduction in person hours of delay up to posted speed limit**
- **50% based on expected increase in person throughput in the corridor**



Evaluation Measures - Accessibility

- **60% based on cumulative increase in access to jobs in the region**
- **20% based on cumulative increase in access to jobs for disadvantaged populations in the region**
- **20% based on increase in access to multimodal choices:**
 - **Projects receive points based on features that enhance multimodal access (Transit, Park and Ride, Bike/Ped, etc.)**



Evaluation Measures- Environmental

- **50% on the degree to which the project is expected to reduce in air emissions and greenhouse gases**
 - **Points awarded based on:**
 - Providing bicycle or pedestrian facilities
 - Improvements for transit
 - Addressing freight bottlenecks
 - New or expanded Park and Ride lot
 - Provisions for hybrid/electric vehicles or
 - Energy efficient infrastructure
- **50% on potential impact to natural, cultural and historic resources from the project (based on acres of land impacted)**



Evaluation Measures - Economic Development

- **60% based on support for economic development plans**
 - Points awarded based on consistency with local/regional economic development strategy
 - For each project, development sites are identified that the project supports – used to weight ED points
- **20% based on expected improvements to travel time reliability of the facility**
- **20% based on improved intermodal access and efficiency**



Evaluation Measures – Land Use

- **100% on the support of transportation efficient land use patterns**
 - **Points awarded based on:**
 - Promoting walkable bicycle friendly mixed use development
 - Supporting in-fill development
 - Having an adopted corridor/access management plan
 - **Points scaled by projected population and employment density**



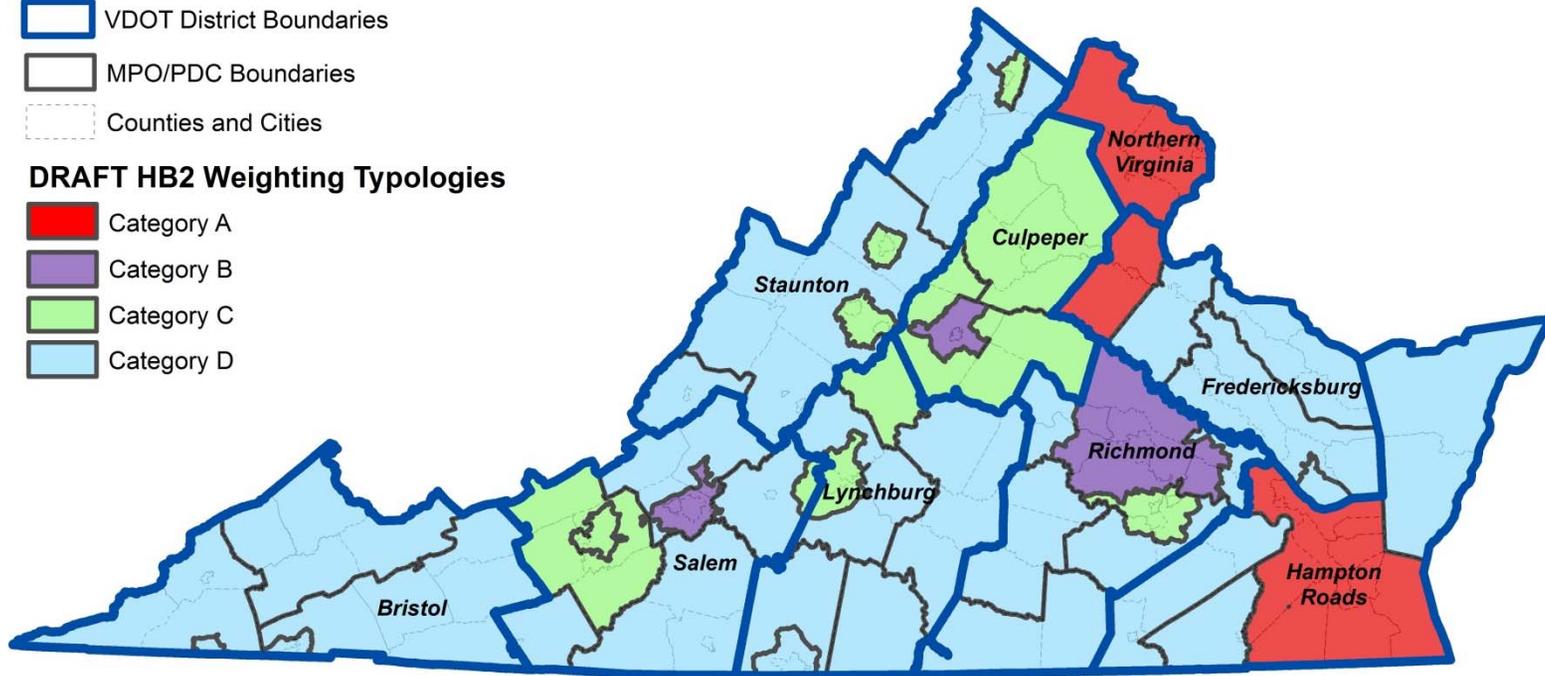
Factor Weighting Categories by MPO and PDC

Legend

-  VDOT District Boundaries
-  MPO/PDC Boundaries
-  Counties and Cities

DRAFT HB2 Weighting Typologies

-  Category A
-  Category B
-  Category C
-  Category D





Factor Weighting Framework

Factor	Congestion Mitigation	Economic Development	Accessibility	Safety	Environmental Quality	Land Use
Category A	45%	5%	15%	5%	10%	20%
Category B	15%	20%	25%	20%	10%	10%
Category C	15%	25%	25%	25%	10%	
Category D	10%	35%	15%	30%	10%	

Project Scoring

Everything is Relative

Highest Value
Dictates Scores

Project	Measure	Score
A	250	50
B	300	60
C	75	15
D	15	3
E	500	100
F	150	30

Change here
only affects
one score

Project	Measure	Score
A	200	40
B	300	60
C	75	15
D	15	3
E	500	100
F	150	30

Change here
affects all
scores

Project	Measure	Score
A	250	33.3
B	300	40
C	75	10
D	15	2
E	750	100
F	150	20

The best project for that measure dictates the score for all other projects

Project Scoring

Project located in Typology													
Category A	Congestion		Safety		Accessibility			Environment		Econ. Dev			Land Use
	Throughput	Delay	F&SI Crashes	F&SI Crash Rate	Access to Jobs	Access to Jobs (Disadvantaged)	Multimodal Choices	Air Quality	Natural and Cult. Resources	Economic Development	Intermodal Access	Travel Time Reliability	Future Land Use Policy Consistency
Measure Score	62	48	20	32	10	20	10	38	28	30	20	20	17
Measure Weight	50%	50%	50%	50%	60%	20%	20%	50%	50%	60%	20%	20%	100%
Weighted Measure Score	31	24	10	16	6	4	2	19	14	18	4	4	17
Raw Factor Score	55		26		12			33		26			17
Factor Weighting	45%		5%		15%			10%		5%			20%
Weighted Factor Score	24.8		1.3		1.8			3.3		1.3			3.4
Project Score	35.9												
Total Project Cost	\$20,000,000												
Score Divided by Total Cost	18.0												
HB2 Cost	\$10,000,000												
Score Divided by HB2 Cost	35.9												

Annual Cycle

Anticipated HB2 Yearly Cycle

