



SECRETARY of TRANSPORTATION

## SMART SCALE Round 3

Nick Donohue

Deputy Secretary of Transportation

January 2019







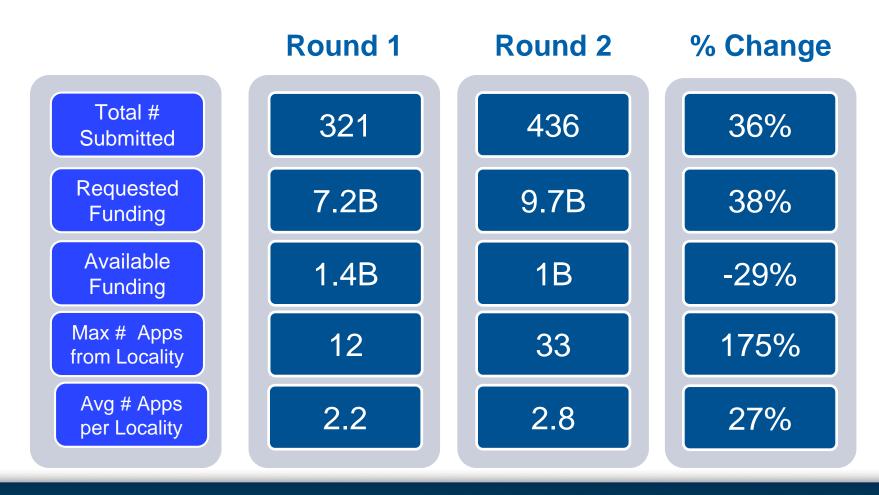






#### **SMART SCALE**





#### **Round 3 Summary**

#### 468 applications submitted

- 24 applications screened out
  - \$0.8 billion SMART SCALE request
  - \$1.2 billion total cost
- 11 applications withdrawn
  - \$0.1 billion SMART SCALE request
  - \$0.1 billion total cost
- 433 applications scored
  - \$7.4 billion SMART SCALE request
  - \$12.3 billion total cost

#### **Factor Areas**

#### Goals that guided measure development



- Safety reduce the number and rate of fatalities and severe injuries
- Congestion reduce person hours of delay and increase person throughput
- Accessibility increase access to jobs and travel options
- Economic Development support economic development and improve goods movement
- Environmental Quality improve air quality and avoid impacts to the natural environment
- Land Use support and improve non-work accessibility

Scoring focused on outcomes, not the size of the problem

#### **Dividing by Cost**



- Law requires that benefits produced by a project be analyzed on a basis of relative costs
- Results are provided to CTB based on:
  - Benefits relative to \$ request
  - Benefits relative to total costs
- Official SMART SCALE Score is





#### **Sample Project Scoring**



	SMART SCALE Area Type B													
Factor	Conge Mitig	estion ation	Sa	Safety Accessibility			Economic Development		Environment		Land Use			
Measure	Increase in Peak Period Person Throughput	Reduction in Peak Period Delay	Reduction in Fatal and Injury Crashes	Reduction in Fatal and Injury Crash Rate	Increase in Access to Jobs	Increase in Access to Jobs for Disadvantaged Populations	Increase in Access to Multimodal Travel Choices	Square Feet of Commercial/Industrial Development Supported	Tons of Goods Impacted	Improvement to Travel Time Reliability	Potential to Improve Air Quality	Other Factor Values Scaled by Potential Acreage Impacted	Support of Transportation- Efficient Land Use	Increase Transportation- Efficient Land Use
Measure Value	85.0 persons	6.0 person hrs.	225.7 EPDO	192.4 EPDO / 100MVMT	1.5 jobs per resident	0.6 jobs per resident	212.5 adjusted users	2,147,880.2 thousand adj sq.ft.	13,025.7 thousand adj daily tons	879,915,079.5 adj. buffer time index	170.0 adjusted points	7.3 scaled points	20,849.6 access * pop/emp density.h	4,384.2 access * pop/emp density change.
Normalized Measure Value (0-100)	0.3	0.1	64.7	0.4	0.0	0.0	0.8	10.9	0.3	20.2	1.2	22.1	1.6	1.2
Measure Weight (% of Factor)	0.5	0.5	0.5	0.5	0.6	0.2	0.2	0.6	0.2	0.2	0.5	0.5	0.7	0.3
Factor Value	0	.2	32	2.6		0.2		10.6		11	1.6	1	.5	
Factor Weight (% of Project Score)	1:	5%	20	0%		25%		20%		10	)%	10	)%	
Weighted Factor Value	0	.0	6	6.5 0.0 2.1 1.2			0	.1						
Project Benefit		10.0												
SMART SCALE Cost		\$13,239,000												
SMART SCALE Score (Project Benefit per \$10M SMART SCALE Cost)		7.6												

#### **Results - Benefits**

#### **Top Projects for Congestion Mitigation**

District	Organization Name	Project Title
Hampton Roads	HRTPO	Hampton Roads Bridge-Tunnel Widening/I-64 Exp
Hampton Roads	City of Chesapeake	Battlefield Blvd/Volvo Parkway Int. Improvements
Hampton Roads	City of Newport News	Jefferson Ave & Oyster Point Rd Int. Improvements
NOVA	City of Alexandria	West End Transitway Corridor Investments

#### **Top Projects for Safety**

District	Organization Name	Project Title
Richmond	Nottoway County	Roundabout for Darvills Rd (VA-40) at Military Road
Richmond	Chesterfield County	Superstreet - Rte 60 at Woolridge Rd/Old Buckingham Rd
Culpeper	Town of Culpeper	Roundabout - Rte 3 and McDevitte Dr Int.
Richmond	Chesterfield County	ITS Signal Upgrades

#### **Results - Benefits**

#### **Top Projects for Environment**

District	Organization Name	Project Title
NOVA	City of Alexandria	West End Transitway Corridor Investments
Hampton Roads	HRTPO	Hampton Roads Bridge-Tunnel Widening/I-64 Expansion
NOVA	Arlington Transit	Crystal City Metro East Entrance
NOVA	Fairfax County	Richmond Highway - Bus Rapid Transit

#### **Top Projects for Economic Development**

District	Organization Name	Project Title		
Lynchburg	Danville MPO	Southern VA Mega Site at Berry Hill Connector Road		
Bristol	Wythe County	Progress Park Connector		
Bristol	Cumberland Plateau PDC	Coalfields Expressway (Rte 121) - Doe Branch		
Bristol	Cumberland Plateau PDC	Coalfields Expressway Rte 121/460 Poplar Creek Phase B		



#### **Results - Benefits**

#### **Top Projects for Land Use**

District	Organization Name	Project Title
NOVA	Arlington Transit	Crystal City Metro East Entrance
NOVA	Arlington Transit	Crystal City Potomac Yard Transitway Southern Extension
NOVA	City of Alexandria	West End Transitway Corridor Investments
NOVA	City of Alexandria	Safety & Capacity Enhancements at Duke/Taylor Run/Telegraph

#### **Top Projects for Accessibility**

District	Organization Name	Project Title
Hampton Roads	HRTPO	Hampton Roads Bridge-Tunnel Widening/I-64 Expansion
NOVA	City of Alexandria	West End Transitway Corridor Investments
NOVA	Fairfax County	Braddock Rd Multimodal Improvements - Phase 1
NOVA	Fairfax County	Rte 286 Widening from Rte 29 to Rte 123

### **SMART SCALE Funding Distribution for Round 3**



(in millions)

District Grant Programs	\$389.9
Bristol	\$22.1
Culpeper	\$21.7
Fredericksburg	\$28.9
Hampton Roads	\$84.7
Lynchburg	\$23.8
NOVA	\$88.5
Richmond	\$60.6
Salem	\$33.5
Staunton	\$26.1
High Priority Projects Program (Statewide)	\$389.9
Total	\$779.8



## Staff Recommended Scenario

 Step 1: Fund District Grant projects first based on Benefit/SMART SCALE cost using District Grant funds

	DG Only				
District	Count	Allocated	Remaining		
Bristol	3	\$20.1 M	\$2.1 M		
Culpeper	4	\$20.8 M	\$0.9 M		
Fredericksburg	7	\$28.2 M	\$0.7 M		
Hampton Roads	23	\$83.6 M	\$1.0 M		
Lynchburg	7	\$21.2 M	\$2.6 M		
NOVA	7	\$88.2 M	\$0.3 M		
Richmond	12	\$60.4 M	\$0.2 M		
Salem	6	\$31.4 M	\$2.1 M		
Staunton	15	\$25.3 M	\$0.8 M		
Total	84	\$379.2 M	\$10.7 M		



## Staff Recommended Scenario

 Step 2: Fund projects that otherwise would have been funded based on rank, but did not receive funding because they were not eligible for the District Grant funds, using High Priority funds as long as their cost does not exceed the total amount of District Grant funds available

	HP Only				
District	Count	<b>HP Allocated</b>	<b>HP Remaining</b>		
Bristol	0	\$0.0 M			
Culpeper	0	\$0.0 M			
Fredericksburg	3	\$11.6 M			
Hampton Roads	2	\$1.5 M			
Lynchburg	0	\$0.0 M			
NOVA	3	\$61.6 M			
Richmond	2	\$3.7 M			
Salem	0	\$0.0 M			
Staunton	1	\$3.2 M			
Total	11	\$81.6 M	\$308.3 M		



## Staff Recommended Scenario

 Step 3: Fund projects with a Benefit/SMART SCALE cost greater than an established threshold based on the highest project benefit using High Priority funds until funds are insufficient to fully fund the next unfunded project with the highest project benefit

District	Count	<b>HP Allocated</b>	<b>HP Remaining</b>
Bristol	0	\$0.0 M	
Culpeper	0	\$0.0 M	
Fredericksburg	0	\$0.0 M	
Hampton Roads	1	\$200.0 M	
Lynchburg	1	\$30.9 M	
NOVA	1	\$50.0 M	
Richmond	0	\$0.0 M	
Salem	0	\$0.0 M	
Staunton	0	\$0.0 M	
Total	3	\$280.9 M	\$27.4 M



### Staff Recommended Scenario - Bristol

Project	Applicant	Funding	SMART SCALE Score
Rte 460 Corridor Improvements	Tazewell County	\$3,597,000	10.50
US Rte 11 / SR 660 Roundabout South	Smyth County	\$3,607,316	10.02
Progress Park Connector	Wythe County	\$12,857,000	9.06



# Staff Recommended Scenario - Culpeper

Project	Applicant	Funding	SMART SCALE Score
Roundabout - Rte 3 and McDevitt Dr Intersection	Town of Culpeper	\$6,200,000	15.91
West Main Streetscape	City of Charlottesville	\$2,009,265	15.44
Rte 29 / Freeman's Ford Alt. Intersection	Fauquier County	\$7,100,000	8.16
US 33 / Rte 20 East Roundabout	Orange County	\$5,500,000	6.84



# Staff Recommended Scenario - Fredericksburg

Project	Applicant	Funding	SMART SCALE Score
Rte 301 University Dr/Market Ctr Double R-Cut	King George County	\$3,500,000	10.48
FRED Transit Shelters & Benches	Fredericksburg Regional Transit	\$218,500	9.17
Lafayette Blvd/Kenmore Ave/Charles St Roundabouts	City of Fredericksburg	\$1,978,826	5.90
Rte 301 & Rte 3 Median U-Turn Intersection	King George County	\$3,300,000	5.33
New Commuter Parking Lot on Rte 3	Fredericksburg Regional Transit	\$5,055,000	5.11
Bicycle/Pedestrian Imp. on Rte 17B - Main St	Gloucester County	\$7,300,000	3.98
Dixon St/Lansdowne Rd Int. Improvements	City of Fredericksburg	\$2,200,000	3.94
Rte 3 Stars Study Improvements	George Washington Regional Commission	\$6,374,139	2.70
Rte 1/Fall Hill Ave Int. Improvements	City of Fredericksburg	\$7,200,000	2.27
Stefaniga & Mt. View Rd Int. Improvements	Stafford County	\$2,700,000	2.07



# Staff Recommended Scenario – Hampton Roads (1/3)

Project	Applicant	Funding	SMART SCALE Score
Lafayette Street Signal & Pedestrian Improvements	Williamsburg City	\$91,000	65.74
Battlefield Blvd/Volvo Pkwy Intersection Improvements	Chesapeake City	\$1,447,129	62.83
Richmond Road Signal Coordination & Pedestrian Improvements	Williamsburg City	\$203,500	57.28
Ballentine Blvd Lane Improvements	Norfolk City	\$1,067,388	51.75
Portsmouth Railroad Crossing Message Signs	Portsmouth City	\$570,000	47.68
WATA Bus Stop Pull Offs	Williamsburg Area Transit Authority (WATA)	\$255,000	22.17
Terminal Blvd/Diven St Intersection Improvements	Norfolk City	\$1,732,600	19.19
Shoulder Widening Rte 13	Northampton County	\$2,923,357	10.41
HWY 301S Sidewalk Greensville Project	Greensville County	\$576,903	9.54



# Staff Recommended Scenario – Hampton Roads (2/3)

Project	Applicant	Funding	SMART SCALE Score
J. Clyde Morris Blvd Intersection Improvements	Newport News City	\$1,768,528	7.58
Newport News Shipyard - Gloucester MAX Service	Hampton Roads Transit	\$1,200,000	7.52
Jefferson Ave & Oyster Point Rd Intersection Improvements	Newport News City	\$10,856,521	6.68
Hampton Roads Center Pkwy Bike & Pedestrian Access	Hampton City	\$2,158,325	6.42
Wakefield 460 Eastbound Turnlane	Sussex County	\$981,290	6.21
N Armistead Ave Reconstruction, Ped, & Drainage Improvements	Hampton City	\$4,818,528	3.83
Carrollton Boulevard (Route 17) Crosswalks	Isle of Wight County	\$212,000	3.82
Hampton Roads Bridge-Tunnel Widening/I-64 Expansion	Hampton Roads Transportation Planning Organization	\$200,000,000	3.71
Route 171 capacity enhancements between Routes 134 and 1740	York County	\$2,420,000	3.03



# Staff Recommended Scenario – Hampton Roads (3/3)

Project	Applicant	Funding	SMART SCALE Score
Warwick Blvd & Oyster Point Rd Intersection Improvements	Newport News City	\$5,445,737	3.01
Bicycle Lane on US Business 13	Northampton County	\$2,360,061	2.37
Virginia Beach Blvd Widening – George St to Newtown Rd	Norfolk City	\$15,701,021	2.37
General Booth Blvd/Oceana Blvd Intersection Improvements	Virginia Beach City	\$3,600,000	2.21
Lafayette Street Widening	Williamsburg City	\$4,329,000	1.94
Monticello Ave-Richmond Rd-Lafayette St Roundabout	Williamsburg City	\$6,381,090	1.88
Longhill Road Shared Use Path	James City County	\$4,400,000	1.83
Route 31 Bicycle Accommodations	Surry County	\$9,600,000	1.79



# Staff Recommended Scenario - Lynchburg

Project	Applicant	Funding	SMART SCALE Score
Rivermont Ave. and Bedford Ave. Intersection improvement	Lynchburg City	\$485,000	27.97
Shula Drive Relocation	Pittsylvania County	\$4,768,466	11.72
Southern Virginia Mega Site at Berry Hill Connector Road	Danville Metropolitan Planning Organization	\$33,456,704	7.76
Main St. (US501)-Mountain Rd. (VA360) Turning Radius	Halifax Town	\$738,925	7.63
Route 29/Route 151 Intersection	Amherst County	\$3,300,027	7.54
US Route 29 and Route 6 Intersection	Nelson County	\$2,725,677	7.15
US 501 Bus - Langhorne and Vassar Roundabout	Lynchburg City	\$6,100,000	3.79
Route 29 / 699 Intersection Improvements	Campbell County	\$3,086,810	3.73



# Staff Recommended Scenario – Northern Virginia (1/2)

Project	Applicant	Funding	SMART SCALE Score
Citywide TSP on Major Corridors	DASH Alexandria Transit Company	\$2,110,000	49.07
Crystal City Potomac Yard Transitway Southern Extension	Arlington Transit	\$6,611,694	29.51
S Washington Multimodal Improvements	Falls Church City	\$2,827,010	22.25
Safety & Capacity Enhancements at Duke/Taylor Run/Telegraph	Alexandria City	\$5,745,460	16.91
Access Improvements to the Landmark Transit Hub	Alexandria City	\$6,334,630	10.22
Pickett Trail Connector	Fairfax City	\$5,965,444	6.73
Route 50 Corridor Improvements	Loudoun County	\$1,292,500	6.17
Fairfax Blvd/Warwick Ave Intersection Improvements	Fairfax City	\$8,839,327	5.58



## Staff Recommended Scenario – Northern Virginia (2/2)

Project	Applicant	Funding	SMART SCALE Score
Crystal City Metro East Entrance	Arlington Transit	\$52,900,000	5.49
West End Transitway Corridor Investments	Alexandria City	\$57,200,000	5.10
Richmond Highway-Bus Rapid Transit	Fairfax County	\$50,000,000	2.99



### Staff Recommended Scenario – Richmond (1/2)

Project	Applicant	Funding	SMART SCALE Score
Lower Appomattox River Trail	Prince George County	\$44,000	31.64
Roundabout for Darvills Rd. (VA 40) at Military Rd.	Nottoway County	\$7,267,500	26.92
Parham Rd Traffic Signal & Sidewalk Project	Henrico County	\$1,335,000	24.54
A Scott's Addition BRT Station Pedestrian Safety/Streetscape	Greater Richmond Transit Company (GRTC)	\$1,612,000	22.70
G US33 Leigh Street Streetscape Improvements	Richmond City	\$6,608,000	11.91
ITS Signal Upgrades	Chesterfield County	\$10,440,000	10.87
I Boulevard Shared Use Path to Science Museum BRT Station	Richmond City	\$2,992,481	10.40
Construct R-CUT at the end Lewistown Plank Rd at 460	Nottoway County	\$3,364,437	10.08



### Staff Recommended Scenario - Richmond (2/2)

Project	Applicant	Funding	SMART SCALE Score
Route 106/Route 5 Roundabout	Charles City County	\$4,110,000	9.91
E Maury Street Streetscape Phase II	Richmond City	\$4,618,000	9.19
C Riverfront/Orleans BRT Station Pedestrian Safety/Streetscape	Greater Richmond Transit Company (GRTC)	\$2,057,000	7.91
N Laburnum Avenue Pedestrian and Transit Improvements	Henrico County	\$2,689,000	7.78
Superstreet - Route 60 at Woolridge Road/Old Buckingham Road	Chesterfield County	\$13,239,000	7.57
Route 600/Route 601 Roundabout	Dinwiddie County	\$3,700,000	7.31



### Staff Recommended Scenario - Salem

Project	Applicant	Funding	SMART SCALE Score
Orange Avenue (US 460) Improvements	Roanoke City	\$2,818,704	12.28
Roadway Improvements on Rtes 220/619(Pleasant Hill/Sontag)	Franklin County	\$5,928,000	9.15
Roadway Improvements on Rtes 220/919 (Grassy Hill)	Franklin County	\$6,958,000	6.42
Williamson Road Sidewalk Improvements	Roanoke County	\$1,662,220	4.95
Roadway improvements on Routes 122 & 636 (Lost Mountain Rd)	Franklin County	\$9,759,000	4.89
Route 220 at International Parkway Intersection Improvements	Botetourt County	\$4,251,000	3.83



### Staff Recommended Scenario – Staunton (1/2)

Project	Applicant	Funding	SMART SCALE Score
Hot Springs - US 220 & VA 615 Intersection Improvements	Bath County	\$560,769	42.82
Rte. 340/522 SB/I-66 WB On-Ramp Extension	Warren County	\$518,664	31.88
John Marshall Hwy./Rte. 55 East Safety Improvement Project	Warren County	\$1,633,637	25.18
I-81 Exit 291 Northbound Ramp Widening	Shenandoah County	\$781,701	21.38
Rte. 340/522 Lighting Project	Warren County	\$3,149,948	16.48
Intersection Improvements US-211/340 Big Oak Rd	Page County	\$3,310,977	14.02
US 11 N (North Valley Pike) Sidewalk	Rockingham County	\$3,037,558	12.00
East Main Streetscape	Waynesboro City	\$2,249,987	11.91
RT 254 - RT 640 Intersection Safety Project	Augusta County	\$1,165,137	9.72



# Staff Recommended Scenario - Staunton (2/2)

Project	Applicant	Funding	SMART SCALE Score
Edgewood Road Sidewalk Improvements	Staunton City	\$1,098,071	8.68
13th and Rosser Roundabout	Waynesboro City	\$550,990	8.42
North Augusta SidewalkLambert St to Terry Court	Staunton City	\$1,477,371	8.00
Traffic Signal Improvements on Valley and Gerrard Corridors	Winchester City	\$1,227,000	7.89
I-81 Exit 317 Accel/Decel Lane Extensions	Win-Fred Metropolitan Planning Organization	\$3,209,056	7.05
University Blvd/Evelyn Byrd Ave Road Diet & Sidewalk	Harrisonburg City	\$3,515,278	6.54
North Augusta SidewalkTerry Court to Meadowbrook Rd	Staunton City	\$1,058,211	6.36

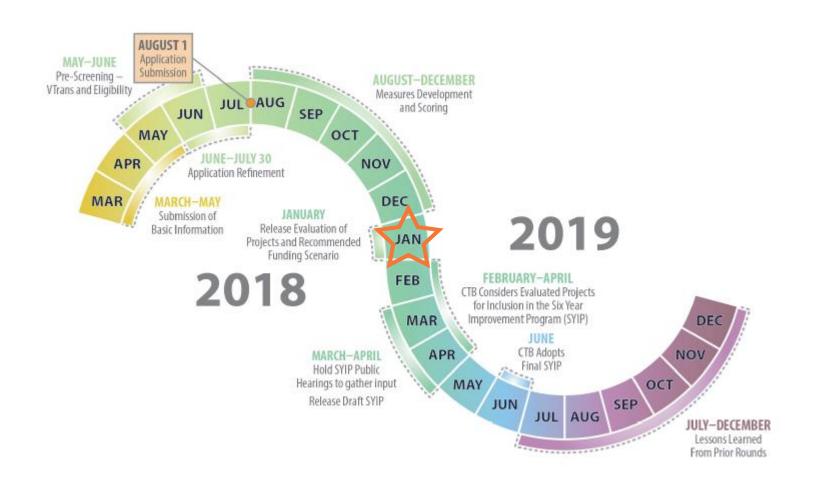
# Policy Reminders: SMART SCALE Projects



- Projects must be initiated within one year of the first year of allocation
- Changes to the SMART SCALE request may trigger a rescore
- Changes to the scope may trigger a re-evaluation
- Applicants cannot reapply for additional funds for the same project to cover cost increases or replace other committed funds
- A new project meeting the same need in the same location as a previously selected project cannot be submitted for two rounds after construction completion

#### **Round 3 Timeline**







### **Moving Forward**

- February CTB meeting Review of recommended projects
- March to April Board to develop potential revisions to staff recommended funding scenario
- April to May Public hearings on staff recommended scenario and any potential revisions
- May CTB meeting Revised funding scenario developed
- June CTB meeting Adoption of Six-Year Improvement Program