

### COMMONWEALTH of VIRGINIA Office of the \_\_\_\_\_\_ SECRETARY of TRANSPORTATION

## SMART SCALE Process Review Update

July 18, 2023















VIRGINIA SPACE

### **Presentation Overview**

### Process Bias Analysis

- Urban Preference
- Leveraged Project Preference

### Scoring and Funding Modifications

- $\circ$  Overview
- Forward-Looking Congestion Factor
- Forward-Looking Economic Development

### Revisit Previous Recommendations

- Possible Impacts with Previous Solutions
- All Solutions Scenario
- Public Outreach Updates
  - SMART SCALE Website
  - Schedule and Next Steps

## Urban Preference Survey Response



 One area of perceived bias identified in the SMART SCALE Process Review Survey responses was "Urban"

"Do you think the current process is biased in any way (urban/rural, large/small projects, mode, etc.)?" (yes/no & free text response)



## Urban Preference Typologies and Assumptions



### Weighting typologies were established by CTB resolution in 2017

- Based on a robust public involvement process, it was determined that needs within each construction district are often diverse
- The four weighting frameworks are assigned by planning district commission (PDC) and metropolitan planning organization (MPO) boundaries

### Assumptions:

- Urban and rural areas are categorized based on area types as delineated on the SMART SCALE Technical Guide typology map\*
  - Area Types A & B are considered largely "urban" areas
  - Area Types C & D are considered largely "rural" areas

\*Note: This breakdown is important when categorizing and identifying trends across historical Program data

# Urban Preference Typology Map





# Urban Preference Findings



- The number of projects submitted and the number of projects funded\* are fairly evenly distributed between urban and rural areas
- The amounts submitted and funded are higher in urban areas, although the ratio of submitted and funded amounts are similar
  - Significant difference in HPP (83% vs. 17%)
  - Funding for projects in rural areas has increased in Rounds 4 & 5
- The success rates based on the number of projects is higher for urban projects and the success rates based on the amounts funded are even
- \* Funded represents projects recommended for funding in the staff scenario

### **Urban Preference** Submitted & Funded Projects – Count





## Urban Preference Funded Projects (DGP & HPP) – \$ Amount



<ul> <li>The total funded amounts in DGP and HPP are higher in urban areas, particularly in Rounds 2 and 3</li> </ul>							
	\$ Funded	DGP	\$ Fund	ed HPP			
	Urban (Type A/B)	Rural (Type C/D)	Urban (Type A/B)	Rural (Type C/D)			
Round 1	58% (\$580M)	42% (\$420M)	80% (\$784M)	20% <mark>(\$196M)</mark>			
Round 2	70% (\$221M)	30% (\$95M)	95% (\$643M)	5% (\$34M)			
Round 3	60% (\$227M)	40% (\$152M)	91% (\$330M)	9% (\$33 <mark>M</mark> )			
Round 4	59% (\$470M)	41% (\$326M)	73% (\$358M)	27 <mark>% (\$132M)</mark>			
Round 5	54% (\$594M)	46% (\$506M)	75% (\$350M)	25 <mark>% (\$117M)</mark>			
Overall	58% (\$2.1B)	42% (\$1.5B)	83% (\$2.5B)	17% (\$ <mark>500M)</mark>			

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## Urban Preference Funded Projects (HPP) – \$ Amount



 Taking out Mega Projects (SMART SCALE funding of \$75M or greater) changed Round 3 but not Round 2 or the overall percentage

	\$ Fund	ed HPP	\$ Funded HPP w/o Mega Projects			
	Urban (Type A/B)	Rural (Type C/D)	Urban (Type A/B)	Rural (Type C/D)		
Round 1	80% (\$784M)	20% <mark>(\$196M)</mark>	80% (\$784M)	20% <mark>(\$196M)</mark>		
Round 2	95% (\$643M)	5% (\$34M <mark>)</mark>	93% (\$450M)	7% (\$33M <mark>)</mark>		
Round 3	91% (\$330M)	9% (\$33 <mark>M</mark> )	79% (\$129M)	21% (\$34 <mark>M</mark> )		
Round 4	73% (\$358M)	27 <mark>% (\$132M)</mark>	73% (\$358M)	27 <mark>% (\$132M)</mark>		
Round 5	75% (\$350M)	25 <mark>% (\$117M)</mark>	75% (\$350M)	25 <mark>% (\$117M)</mark>		
Overall	83% (\$2.5B)	17% (\$ <mark>500M)</mark>	82% (\$2.1B)	18% (\$ <mark>500M)</mark>		

## **Urban Preference Success of Funded Projects**



 The success rate for the number of funded projects was slightly higher for urban areas than rural areas and about even for amount funded



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## **Urban Preference Conclusion**



- There is not a consistent bias toward urban projects in the SMART SCALE program
  - Urban area projects have higher success rate than rural area projects based on the number of projects but are even on the amount funded
  - Submitted and funded amounts were higher in urban areas, especially in HPP funding
    - Overall, the ratio of submitted and funded amounts are similar
  - o Rural area projects received higher share than what was submitted in the last two rounds
  - Urban areas represent 2/3 of the population

## Leveraged Project Preference Survey Response



 A vast majority of survey respondents believe that Leveraged Funding Policy is good policy

"The SMART SCALE scoring process positively weighs applications that include committed project funding from other sources (often regional or local). In your opinion, is this good public policy and an appropriate way to value the Commonwealth's investment?" (yes/no question)



## Leveraged Project Preference Policy & Perceptions



### • Policy, as stated in the SMART SCALE Technical Guide:

 Applicants are encouraged to identify other sources of funding (local, regional, proffers, other state/federal funds) to reduce the amount of funding being requested via SMART SCALE

### • Perceptions:

- Leveraged projects are more successful than non-leveraged projects
- Urban areas are more likely to have leveraged projects

# Leveraged Project Preference Findings



- \$3.5B in SMART SCALE funding has funded over 3X in total project cost (\$11.5B)
- The success rates of the number of leveraged projects and the amount funded were slightly higher than the non-leveraged projects
- The success rate for the number of urban leveraged projects was slightly higher than rural leveraged projects but lower for amount funded
- Leveraged projects are at least 6X more successful for projects with SMART SCALE funding equal to or greater than \$30M

Leveraged Funding

## Leveraged Project Preference Submitted and Funded Projects



 One third of funded projects have leveraged funding, representing 55% of the total amount funded

	Leveraged	Non-Leveraged		Leveraged	Non-Leveraged
Projects	30%	70%	Projects	33%	67%
Submitted	(588)	(1,332)	Funded	(236)	(476)
Amount	45%	55%	Amount	55%	55%
Submitted	(\$17.1B)	(\$20.8B)	Funded	(\$3.5B)	(\$2.8B)

## Leveraged Project Preference Success Rate Leveraged vs. Non-Leveraged

 The success rates of the number of leveraged projects and the amount funded were slightly higher than the non-leveraged projects



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Leveraged Funding

## Leveraged Project Preference Submitted and Funded by Urban & Rural Areas



	Urban	Rural		Urban	Rural
Projects	73%	27%	Projects	74%	26%
Submitted	(426)	(157)	Funded	(175)	(61)
Amount	89%	11%	Amount	87%	13%
Submitted	(\$15.2B)	(\$1.9B)	Funded	(\$3.0B)	(\$466M)

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Leveraged Funding

### Leveraged Project Preference Success Rate for Urban vs. Rural



 The success rate for the number of leveraged projects was slightly higher for urban areas than rural areas but lower for amount funded



## Leveraged Project Preference Comparison by Funding Tier





# Leveraged Project Preference Success Rate by Funding Tier – Leveraged vs. Non-Leveraged



## Leveraged Project Preference Conclusion

- While leveraged projects generally have slight edge over non-leveraged projects overall, the advantage is at least 6X higher for projects in greater than \$30M tier
- There is not a bias toward urban leveraged projects over rural leveraged projects, however urban areas utilize leverage funding more than rural areas
- \$3.5B in SMART SCALE funding has funded \$11.5B in total project cost

## **Overview**

 There are no recommendations related to Urban Preference or Leveraged Project Preference but will report on analyzed biases in final scenario.



- Adjusting in one area can affect another
- A singular issue identified may be resolved by adjusting multiple components of the process
- A singular process adjustment may resolve multiple issues

	Scoring	
Factor Weighting	Typology Me	thods

• Project design requirements accommodate future growth volumes, but congestion scoring is in the current day.

• Survey Feedback - Projects aren't receiving the full projected benefits as they're analyzed in existing year conditions

### Rounds 1 & 2 looked 10 years in the future

**Forward-Looking Congestion Factor** 

- o Methodology was switched to current-day in Round 3, to prioritize existing problems
- Recommend calculating congestion benefits for 10 years in the future
  - o Solution considers major economic development activity in the analysis
  - Solution has positive downstream calculation impacts on Accessibility, Economic Development, and Environment measures
  - Will have more impact if weighting adjustments are made

#### SCORING AND FUNDING MODIFICATIONS

	Scoring	
Factor Weighting	Typology	Methods

### **Forward-Looking Congestion Factor**

### Future Year Analysis Applied to Round 5 Zero or Negative Congestion Scores to Positive Congestion Scores

Display ID	District	Name	Project Type	Change in Throughput (Persons)	Change in Delay (Person- Hours)	Original Congestion Rank	Future Year Congestion Rank	Change in Rank
9135	Richmond	I-64 at Ashland Rd. (Rte. 623) Interchange	Highway	689	784	88	5	+83
9449	Fredericksburg	Lafayette Blvd - Rte 3 Roadway Improvements	Highway	957	261	113	11	+102
9098	Hampton Roads	Great Bridge Bypass and Battlefield Blvd Interchange Imp.	Highway	260	4	390	55	+335
9061	Culpeper	Route 3 and the Post Office Intersection Improvements	Highway	153	30	274	57	+217
9298	Staunton	Route 7/Route 601 Intersection Improvements	Highway	23	14	299	116	+183

#### SCORING AND FUNDING MODIFICATIONS





- Survey identified a disconnect between square footage and economic benefit
- Engaged VEDP to develop a more forward-looking methodology, which
- will be brought in September
- Since Round 1, planned or zoned Site Building Square Footage in the vicinity of the proposed transportation project was used as the measure
  - Last revision to Economic Development was between Rounds 2 and 3 to distinguish the level of readiness for site plans

SCORING AND FUNDING MODIFICATIONS



The average total cost of funded projects raised from \$15.1M to \$21.8M The average total request of funded projects raised from \$10.1M to \$13.9M (removes 39 projects)

### For Principal Improvement Type

- Bike & Ped 51 to 13
- Highway 98 to 99
- Bus Transit 3 to 1

### For Area Type

- **A** 39 to 29
- **B** 34 to 26
- **C** 23 to 14
- **D** 56 to 44

# **SMART SCALE Website**

- Resources linked directly on the SMARTSCALE.org homepage
- Comment intake available at bottom of page

Key Components of the SMART SCALE Process Review



Additional Resources

- June CTB Meeting SMART SCALE Presentation
- May CTB Meeting SMART SCALE Presentation
- April CTB Meeting SMART SCALE Presentation
- February CTB Meeting SMART SCALE Presentation

Click here to contact us with questions or comments.

#### PUBLIC OUTREACH UPDATES

### **Schedule and Next Steps**

		Economic Development.				
	Process Biases (Part 1), One Factor Majority, Funding Steps	SEPT	Retreat Summary, Disconnect Between Need and Benefit, Flexibility in Project Change Process, Project Performance			
JULY	Process Biases (Part 2), Emphasis on Safety Priority, Forward-Looking Process	ост	Final Recommendations			
JULY Retreat	Summarize findings to date and respond to comments received. Identify additional focus areas of analysis. Discuss preliminary recommendations.	NOV	Virtual Town Hall			
AUG	No Meeting	DEC	Policy Adoption			