## VRE OPERATIONS BOARD MEETING

June 16, 2023

The meeting will begin at 9 a.m.

Meeting materials are available at <u>vre.org/about/board/board-agenda-minutes/2023/June</u>

### PLEDGE OF ALLEGIANCE



### **ROLL CALL**



Walter Alcorn Fairfax County



Sarah Bagley Alexandria



Andrea Bailey Prince William County



Meg Bohmke Stafford County



Margaret Franklin



Deborah Frazier Spotsylvania County



Monica Gary Stafford County



Takis Karantonis Arlington County



Ralph Smith Manassas



Matt Kelly Fredericksburg



Dan Storck Fairfax County



Ο

Jeanine Lawson Prince William County



James Walkinshaw Fairfax County



Mike McLaughlin Commonwealth of Virginia



Alanna Mensing Manassas Park

### **SAFETY MOMENT**



## **APPROVAL OF AGENDA**

- I. Pledge of Allegiance
- 2. Roll Call
- 3. Safety Briefing
- 4. Approval of the Agenda
- 5. Approval of Minutes from the May 19, 2023 VRE Operations Board Meeting
- 6. Chair's Comments
- 7. Chief Executive Officer's Report
- 8. VRE Riders' and Public Comment
- 9. Consent Items
  - A. Authorization to Issue an Invitation for Bids for Window Gaskets for VRE Railcars
  - B. Authorization to Issue a Request for Proposals for Facility Security Services

- 10. Action Items
  - A. Authorization to Execute a Sole Source Contract for the Automated Fare Collections System Preventative and Remedial Maintenance, Software Support, Hosting Services, and Point-to-Point Encryption Technology
  - B. Recommend Approval and Authorize Submission of VRE Projects to NVTA for FY 2024-2029 Six-Year Program Funding Consideration
- II. Information Items
  - A. Spending Authority Report
- 12. Closed Session
- 13. Operations Board Members' Time

## **APPROVAL OF MINUTES**

#### Members Present

Sarah Bagley (NVTC) \* Andrea Bailey (PRTC) Meg Bohmke (PRTC) Katie Cristol (NVTC) Margaret Franklin (PRTC) Monica Gary (PRTC) Lori Hayes (PRTC) \* Jeanine Lawson (PRTC) Michael McLaughlin (VPRA) Ralph Smith (PRTC) James Walkinshaw (NVTC)

#### **Members Absent**

Walter Alcorn (NVTC) Matt Kelly (PRTC) Alanna Mensing (PRTC) Dan Storck (NVTC)

\*Participated virtually

May 19, 2023 Meeting with YouTube Livestream

#### **Jurisdiction**

City of Alexandria Prince William County Stafford County Arlington County Prince William County Stafford County Spotsylvania County Prince William County Commonwealth of Virginia City of Manassas Fairfax County

#### **Jurisdiction**

Fairfax County City of Fredericksburg City of Manassas Park Fairfax County



#### **James Walkinshaw** VRE Operations Board Chair Fairfax County

## **CHAIR'S COMMENTS**

- Welcome to the VRE Operations Board June meeting.
- A reminder that immediately following today's business meeting there will be a System Plan 2050 planning workshop, which will be livestreamed.
- I'd like to welcome Takis Karantonis to the Operations Board as the representative from Arlington County.
- Today marks the final Operations Board meeting for Fairfax County Supervisor Walter Alcorn, who has served with distinction since 2020. On behalf of the board, I'd like to thank him and present him with this plaque.



**James Walkinshaw** VRE Operations Board Chair Fairfax County

### CEO REPORT

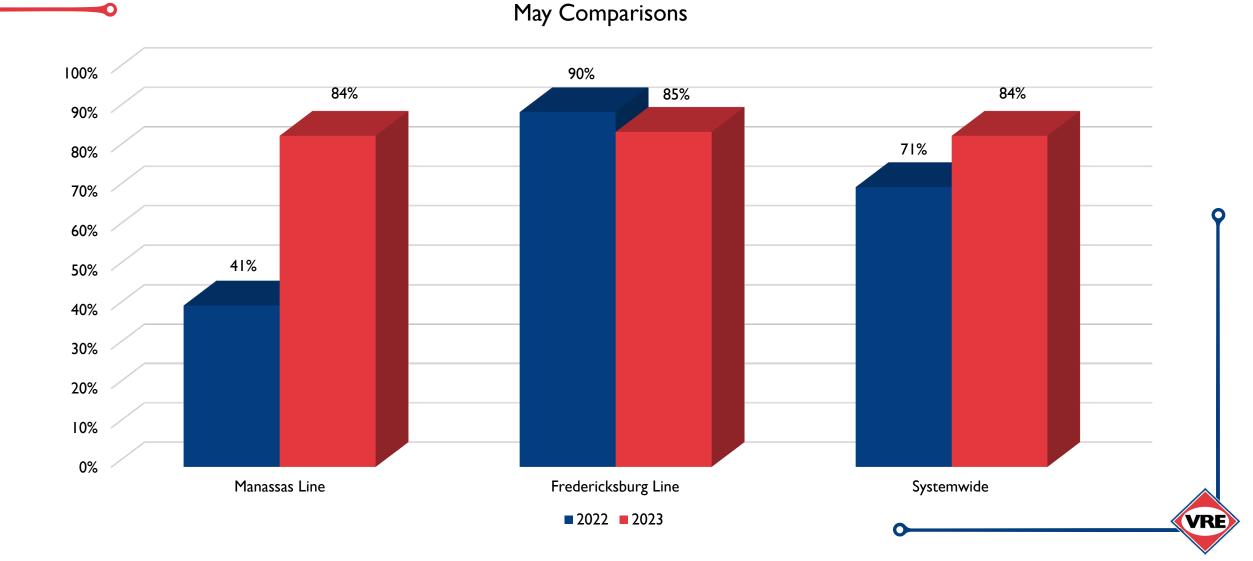
- Performance
- Ridership
- Meet the Management



**Rich Dalton** VRE CEO

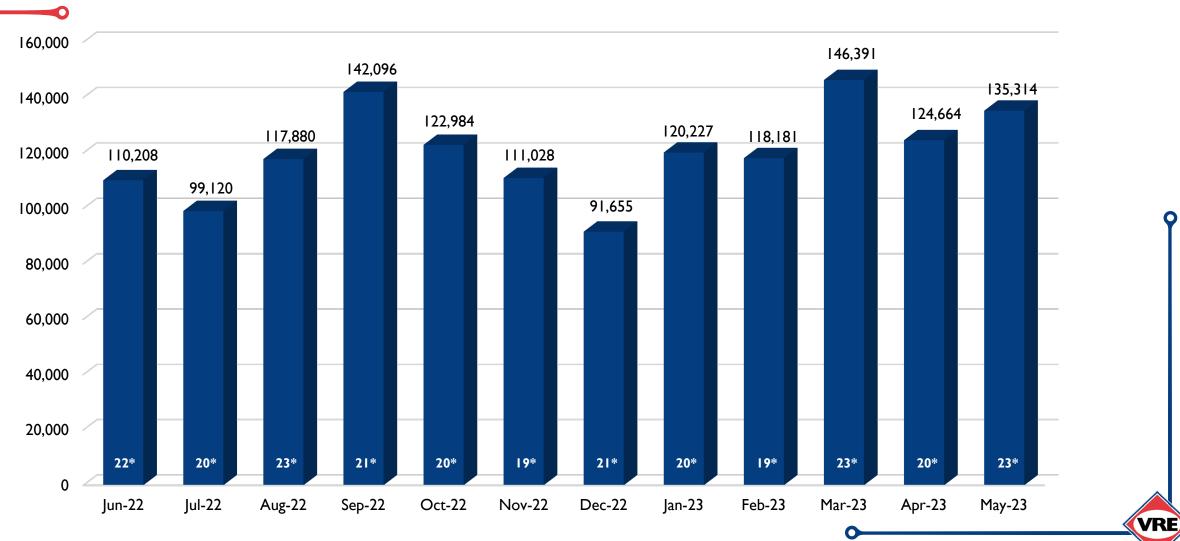


### **CEO REPORT – ON-TIME PERFORMANCE**



### **CEO REPORT – MONTHLY RIDERSHIP**

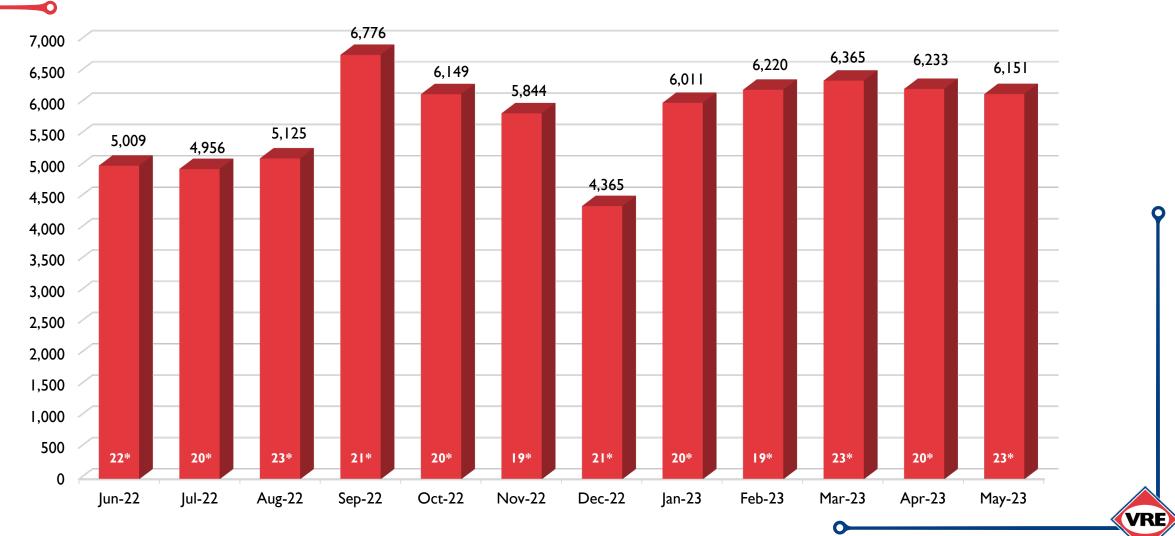
#### **Exclusive of Boardings at Alexandria and Crystal City**



\*service days per month

### **CEO REPORT – AVERAGE DAILY RIDERSHIP**

#### **Exclusive of Boardings at Alexandria and Crystal City**



\*service days per month

## CEO REPORT – MEET THE MANAGEMENT

**Locations & Dates** 

AlexandriaJune 21Franconia-SpringfieldJuly 12Union StationJuly 19



### • CEO REPORT – COMMENTS



### **VRE RIDERS' & PUBLIC COMMENT**





James Walkinshaw VRE Operations Board Chair Fairfax County

### **CONSENT AGENDA**

#### Authorization to Issue an Invitation for Bids for Window Gaskets for VRE Railcars

#### **Recommendation:**

The VRE Operations Board is asked to authorize the CEO to issue an invitation for bids to purchase window gaskets for VRE railcars. Between 2006 and 2014 VRE purchased 79 Gallery IV passenger railcars and 21 Gallery IV cab cars. Each Gallery IV car has on average 16 emergency windows and 29 non-emergency windows. Attaching each window to the car body are multiple window gaskets made primarily of rubber. Due to an average of 13 years' exposure to light, oxygen, and heat, the rubber in the gaskets has begun to deteriorate. Under VRE's Lifecycle Maintenance Program, these window gaskets have reached the end of their useful life and need replacement.

#### Authorization to Issue a Request for Proposals for Facility Security Services Recommendation:

The VRE Operations Board is asked to authorize the CEO to issue a request for proposals for facility security services for a period of a base year and four option years.VRE utilizes a multi-pronged strategy to protect its assets and personnel. A critical facet of this strategy is armed security officers at the Crossroads and Broad Run Maintenance and Storage facilities, and other locations as determined by VRE. The final option year of the existing contract will expire in December 2023 and advance preparations to provide for a seamless transition to a new contract is necessary.



**James Walkinshaw** VRE Operations Board Chair Fairfax County



#### Agenda Item 10A

#### AUTHORIZATION TO EXECUTE A SOLE SOURCE CONTRACT FOR THE AUTOMATED FARE COLLECTIONS SYSTEM PREVENTATIVE AND REMEDIAL MAINTENANCE, SOFTWARE SUPPORT, HOSTING SERVICES, AND POINT-TO-POINT ENCRYPTION TECHNOLOGY

#### **Recommendation:**

The VRE Operations Board is asked to authorize the CEO to execute a sole source contract with Scheidt and Bachmann USA, Inc. (S&B) of Lowell, Massachusetts, for preventive and remedial maintenance, software support and hosting, and a fully certified point-to-point encryption (P2PE) payment system for the automated fare collections system in the amount of \$5,360,115, plus a 10 percent contingency of \$536,012, for a total amount not to exceed \$5,896,127.The contract term includes a base year and three option years, with the CEO exercising the option years at his discretion.

#### Summary:

This action provides for the continued support of the automated fare collections system through onsite technical support, software support, and hosting services. In addition, S&B is enhancing their proprietary fare collections system with the most advanced and secure payment system currently available by integrating P2PE directly with a credit card processor. The system better protects passengers' personally identifiable information, reduces VRE's scope in maintaining Payment Card Industry Data Security Standards compliance, and helps improve VRE's overall cybersecurity posture. As the original equipment manufacturer and system supplier, S&B is the only viable option for the combination of maintenance, software support, hosting and the fully certified P2PE system.



**James Walkinshaw** VRE Operations Board Chair Fairfax County



#### Agenda Item 10B

### RECOMMEND APPROVAL AND AUTHORIZE SUBMISSION OF VRE PROJECTS TO NVTA FOR FY 2024-2029 SIX-YEAR PROGRAM FUNDING CONSIDERATION

#### **Recommendation:**

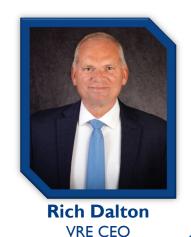
The VRE Operations Board is asked to recommend the Commissions approve submission of the Alexandria Station, Backlick Road, and Franconia-Springfield Station Improvements and Broad Run Expansion projects to the Northern Virginia Transportation Authority (NVTA) for evaluation and funding consideration in its fiscal year (FY) 2024-2029 Six-Year Program (SYP); and authorize the CEO to submit the approved projects for funding, make any necessary corrections to project amounts or descriptions in the applications, and execute all project funding agreements that may result from consideration of the projects.

#### Summary:

VRE has identified a group of capital improvements to support planned service enhancements identified in the VRE FY24-29 Capital Improvement Program that benefit regional travelers and contribute to congestion reduction by offering a high-capacity transit option as an alternative to single occupancy vehicles and increases VRE station and facility capacity. If authorized, VRE will apply for funding for these improvements from the NVTA FY24-29 SYP.



**James Walkinshaw** VRE Operations Board Chair Fairfax County



### **SPENDING AUTHORITY REPORT**

On September 18, 2020, the VRE Operations Board approved increasing the CEO's delegated spending authority from \$100,000 to \$200,000. It was resolved as part of that increased delegation that any purchase or contract award in the range of \$50,000 to \$200,000 would be communicated to the Board as an information item.

- On May 23, 2023,VRE issued a task order in the amount of \$143,800 to HDR Engineering, Inc. under the general engineering consulting services contract for pedestrian bridge, parking garage, and station inspection services. The scope of work for this task order requires HDR to inspect the pedestrian bridges at the Franconia-Springfield, Woodbridge, Rippon and Brooke stations and the garage structures at the Woodbridge and Manassas stations. HDR shall also be responsible for inspecting other station elements throughout the system to include platforms, canopies, stairs, ramps, roofs, railings, drainage elements, etc.
- On May 10, 2023, VRE issued a task order in the amount of \$157,659 to Fresh Air Duct Cleaning, LLC under the custodial and seasonal services for VRE facilities contract to paint the L'Enfant, Lorton, and Burke Centre stations.



Rich Dalton VRE CEO

### **OPERATIONS BOARD MEMBERS' TIME**



Walter Alcorn Fairfax County



Sarah Bagley Alexandria



Andrea Bailey Prince William County



Meg Bohmke Stafford County



Margaret Franklin Prince William County



Deborah Frazier Spotsylvania County



Monica Gary Stafford County



Arlington County



**Ralph Smith** Manassas



Matt Kelly Fredericksburg



Dan Storck Fairfax County



Jeanine Lawson Prince William County



James Walkinshaw Fairfax County



Mike McLaughlin Commonwealth of Virginia



Alanna Mensing Manassas Park







### THE JUNE 16, 2023 MEETING OF THE VRE OPERATIONS BOARD HAS CONCLUDED

### THE SYSTEM PLAN 2050 PLANNING WORKSHOP WILL BEGIN SHORTLY





## **Proposed Run-of-Show**

### June 16 VRE Ops Board Workshop

9:00 AM	9:30 AM	0:30	Ops Board meeting
Workshop			
09:30 AM	9:45 AM	0:15	Setup for Workshop
9:45 AM	10:00 AM	0:15	Introduction/Opening Remarks
10:00 AM	II:00 AM	1:00	Topic I – Survey Results
10:00 AM	10:30 AM	0:30	Presentation
10:30 AM	11:00 AM	0:30	Discussion/Questions
II:00 AM	11:10 AM	0:10	Break
11:10 AM	12:15 PM	I:05	Topic 2 – Travel Market and Ridership
11:10 AM	11:50 PM	I :00	Presentation/Discussion
11:50 PM	12:15 PM	0:05	Questions
12:15 PM	I:00 PM	0:45	Lunch
I:00 PM	2:15 PM	1:15	Topic 3 – 2030 Service Scenarios
1:00 PM	1:45 PM	0:45	Presentation
1:45 PM	2:15 PM	0:30	Discussion/Questions
2:15 PM	2:30 PM	0:15	Wrap-up/Closing Remarks
		5:00	Running Time

### SYSTEM PLAN 2050 UPDATE

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### **Operations Board Workshop** June 16, 2023



### • OPENING REMARKS



## **Today's Objectives**

- I. Update on System Plan progress
- 2. Solicit feedback from Board Members on analysis results
- 3. Discuss implications of market analysis and ridership projections on future service
- 4. Solicit feedback and seek direction on 2030 service scenario preference from Board
- 5. Provide guidance to staff on Plan next steps



### AGENDA

- I. Board Member Survey Results
- 2. Topic I: Survey Results
- Topic 2: Travel Market Analysis and Ridership Projections
- 4. Topic 3: 2030 Service Scenarios
- 5. Where do we go from here?

## What you said: Operations Board Survey

### **Opportunities**

- Ridership
- Budget
- Stable funding
- Attracting new riders
- Change in work habits
- Connectivity

### Service

- Weekend service—what moves the needle?
- More varied service offering
- Expanded hours (span)
- Evening service

### Funding

- Need reliable source to expand
- State operating support
- VRE development rights
- Re-gain lost fuel tax revenue
- Funding with toll revenues
- Evaluate fare policies
- Increase in jurisdictional subsidy tied to ridership increases

### TOPIC I: SURVEY RESULTS



## **Summary of Survey Efforts**

What is the purpose of this survey?

- To define current and future travel trends and ridership patterns
- Align VRE goals and future operating scenarios to public sentiments/trends

### Who did we survey?

- I. General population
- 2. VRE member jurisdictions' staff and partner agencies
- 3. VRE riders

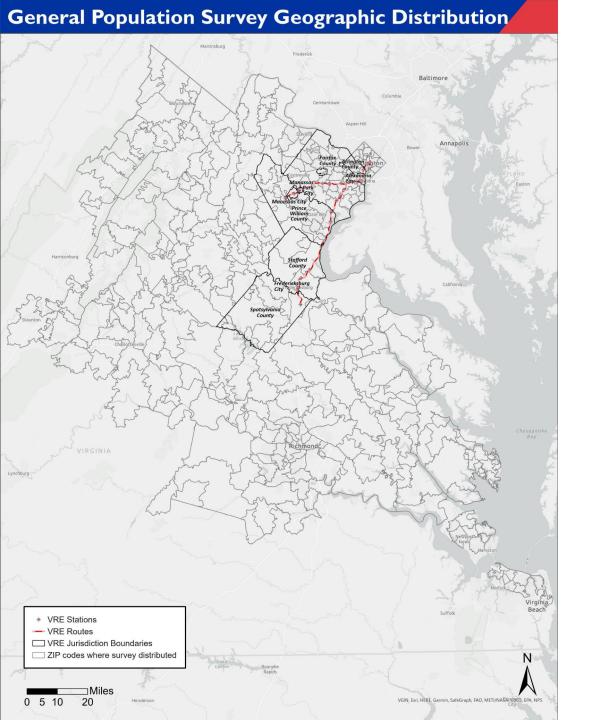
What can we learn or have learned from the survey?

- VRE provides a vital service with ridership growth tied to regional travel demand
- Travel patterns have changed and reliable service paired with service all week and for longer periods during the day can drive ridership growth

### GENERAL POPULATION SURVEY

## **Survey Results Summary**

- Comprehensive survey sent across the region to gauge usage and values on public transportation and transportation in general
- <u>Key Takeaways:</u>
  - Reliability is the most important factor, above speed and cost
  - Telework in the area remains high among current and lapsed transit riders
  - #I reason given by lapsed VRE riders is that it is faster to drive
  - A significant segment of former VRE riders have recently left the workforce



### **General Population Survey Distribution Reach**

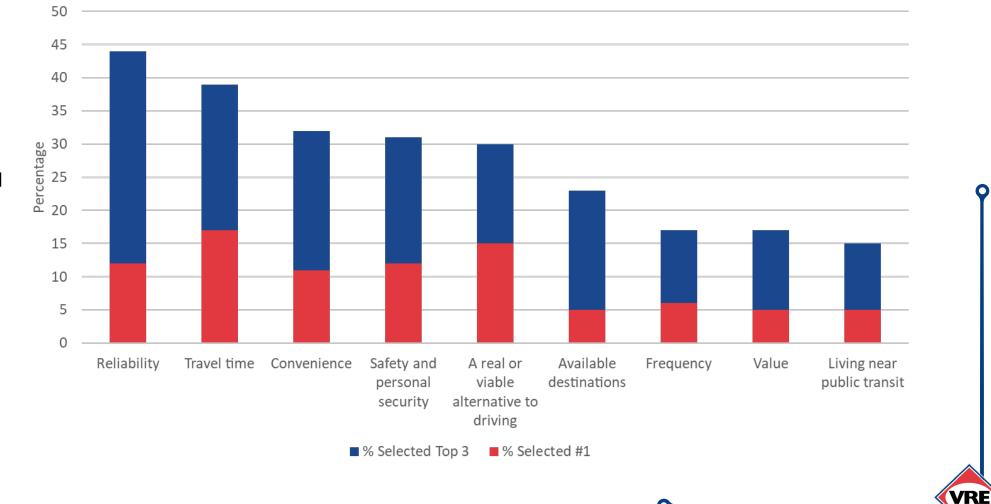
38,152 Surveys mailed across the region including member jurisdictions, D.C., Charlottesville, Richmond and Tidewater

- 817 responses
- Statistically significant sample
- 95% confidence level

## The Region: Values when traveling



What is most important to you when traveling in your area?



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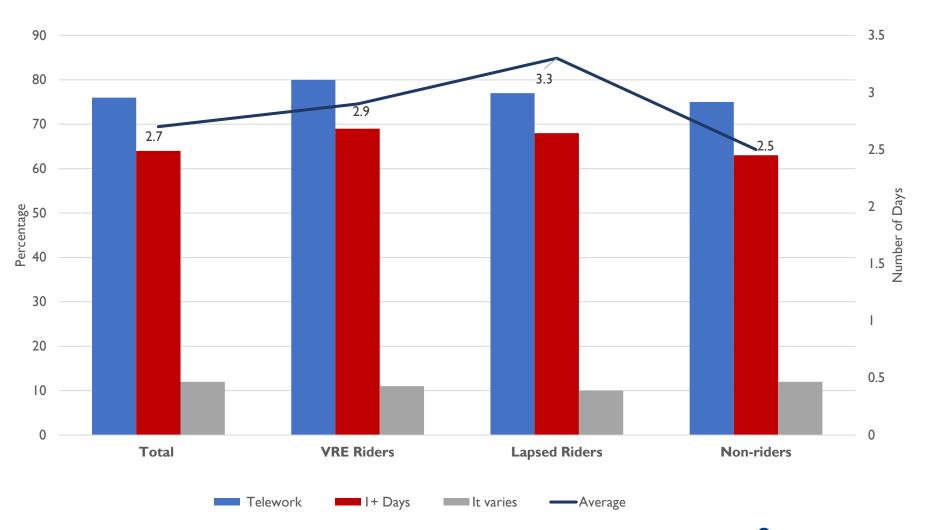
Base=Those answering Top mentions Multiple responses accepted N=816

32

# The Region: What makes a mode of travel reliable/unreliable?

Q3:What makes a mode of transportation reliable or unreliable?		
On-time performance/Knowing when it will leave and arrive/Adheres to a schedule		
Consistent service/Predictability/Dependable (not specific)		
Frequent service/Short wait times/Available every 10-15 minutes	17%	
Accessibility/Available during the times that I need it		
No breakdowns/Equipment in working order		
Safety/Security (not specific)	12%	
A good/well maintained car		

### The Region: How often people telework

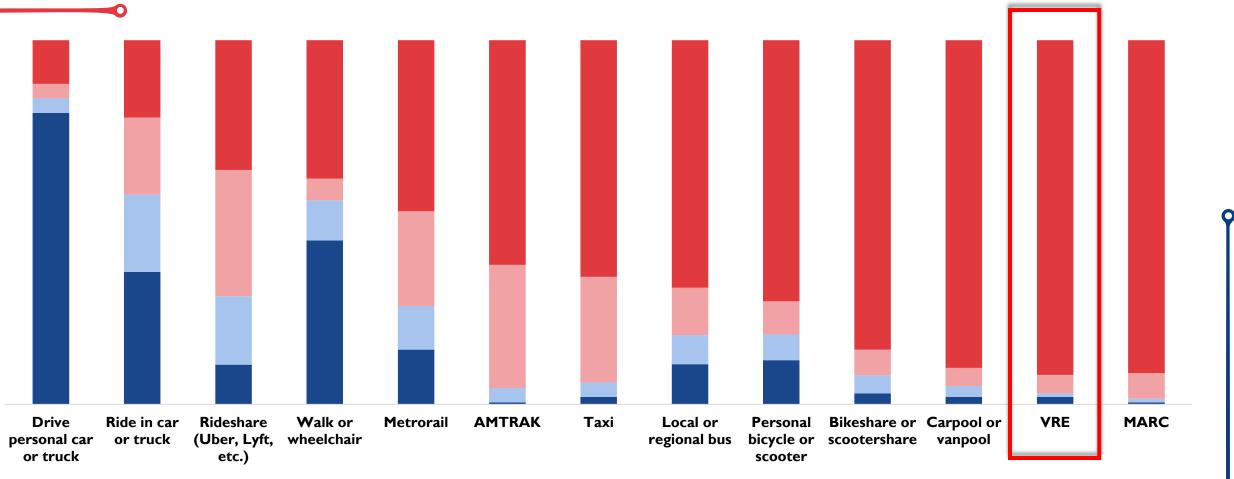


Base=Those employed and answering Base=Those who telework and answering

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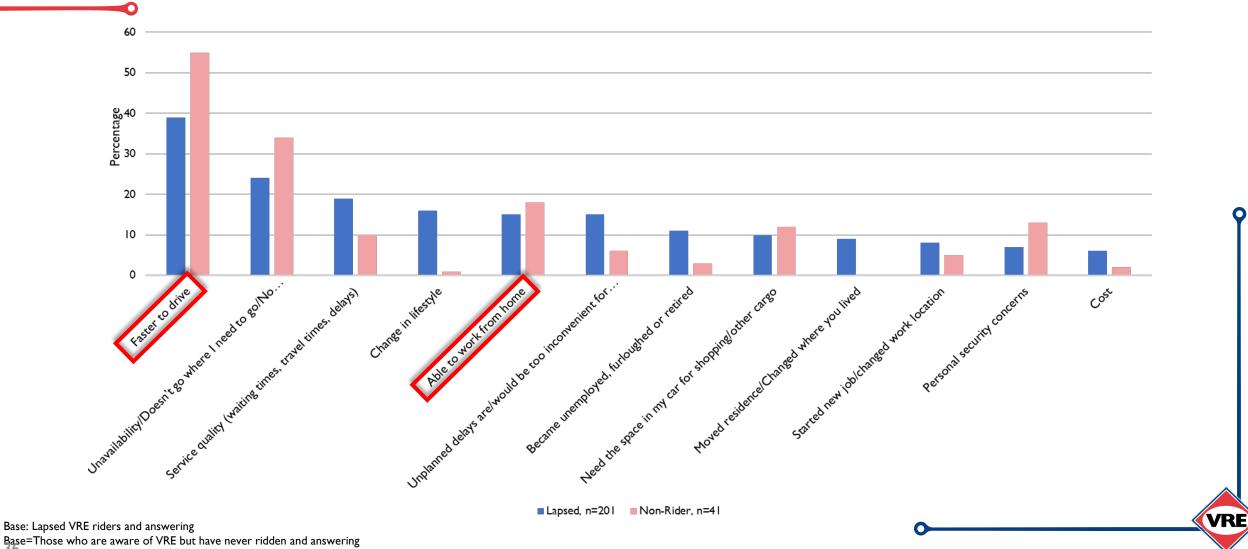
### How often do you use...?



■ At least once a week ■ Less than once a week but at least once a month ■ Less than once a month but at least once a year ■ Never/Not in the last 12 months

Base=Those answering 3=816-817 Segments 5% and under not labeled

## **VRE Riders: Why do you no longer ride?**



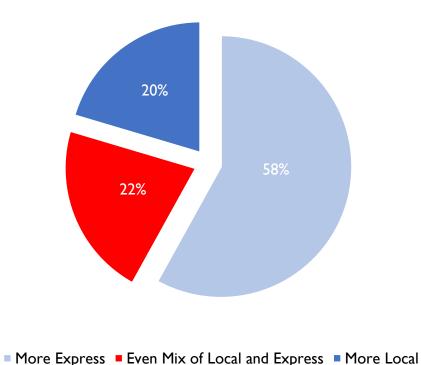
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Top mentions

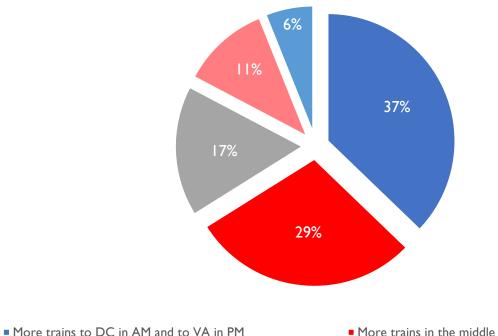
#### VRE RIDER SURVEY

Spring 2023 Customer Survey

If VRE adds more service to your line, how would you prefer service be added?



<u>On weekdays</u>, what would you prefer? Select all that apply.



More trains later in the day

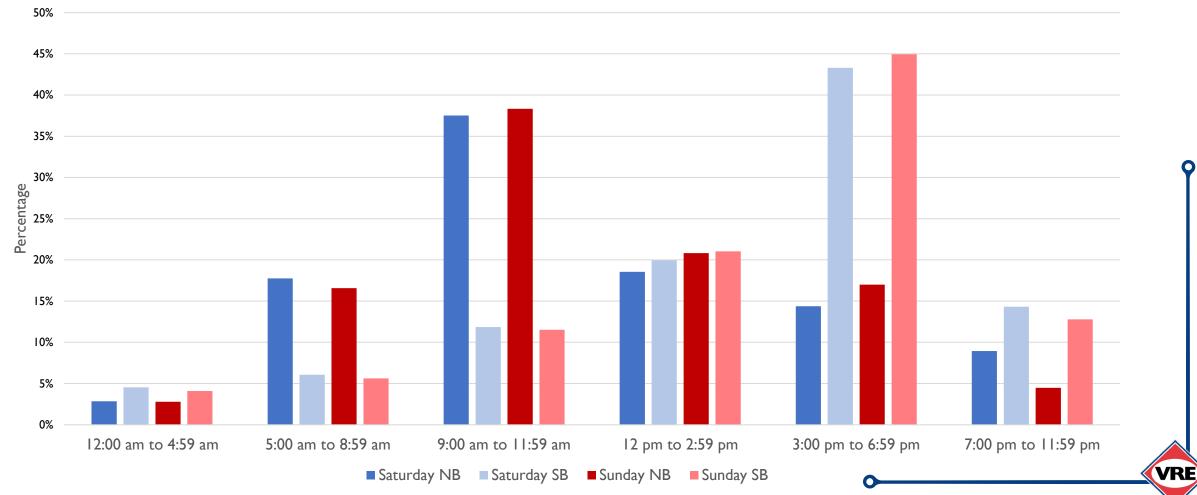
More trains earlier in the morning

More trains in the middle of the day

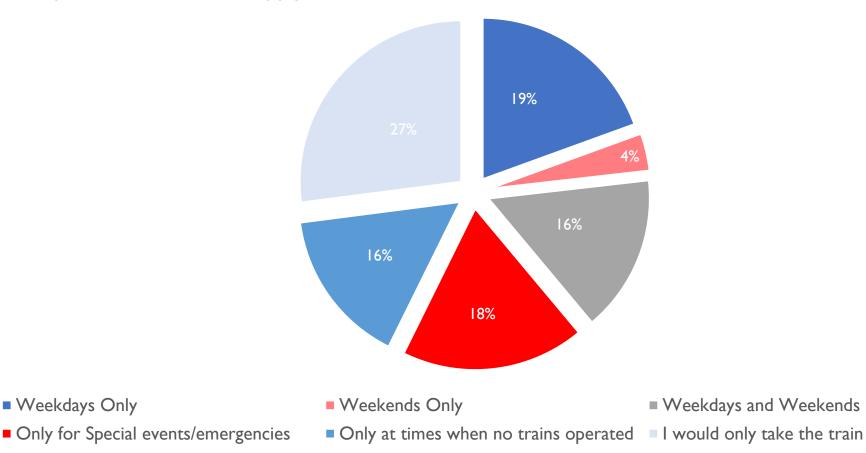
Same number of trains as today in same service window

VRE

If VRE provided <u>weekend</u> service, when would you want weekend trains to run? Select all that apply.



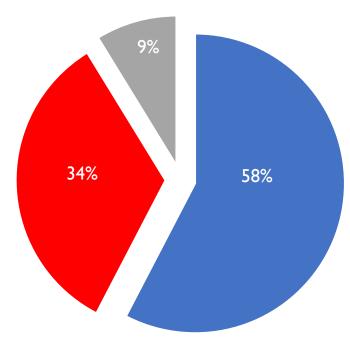
If VRE provided riders with the ability to travel to/from VRE stations on bus service using the same ticket, effectively increasing the number of VRE round-trip options, when would you use this bus option? Select all that apply.



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Weekdays Only

 In the future, if your VRE ticket allowed you to ride Amtrak for no additional cost what would you prefer? Select one.



- VRE provides local and express, Amtrak supplements
- VRE provides local, Amtrak provides express
- VRE provides local and express, Amtrak is not option for VRE ticket holders

VRE

#### JURISDICTION AND PARTNER OUTREACH

# **Feedback Summary**

	Current Ridership Numbers	Stable Funding	Improved Reliability	Enhanced Connections to Stations	Express Service (Shorter Trips)	Expanded Service Area	Match Service Levels to Demand / Forecasts	Expanded Weekday Service Options (Non- Peak, Reverse Service)	Weekend Service
Member Jurisdiction Transportation Staff	$\checkmark$	$\checkmark$		$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Non-Member Jurisdictions				$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$	$\checkmark$
Partner Agencies	$\checkmark$			$\checkmark$		$\checkmark$	$\checkmark$	$\checkmark$	$\sim$
VRE Board Members	$\checkmark$	$\checkmark$					$\checkmark$	$\sim$	
General Public		$\sim$	$\sim$		$\sim$				
Current VRE Riders					$\checkmark$				$\checkmark$
Lapsed VRE Riders			$\sim$		$\checkmark$				

# Summary: What did we hear?

- **Travel time and reliability** are the two most important deciding factors for the public when making transportation choices
- **Telework rates** in the area continue to be higher than pre-Pandemic averages: 2.9 days per week for current VRE riders and 3.3 days per week for former riders
- The perception and/or reality that it's faster to drive than take transit is a real barrier to use
- Attrition from employment has had a significant impact on VRE ridership
- Most regional travelers do not use VRE

# QUESTIONS?



#### TOPIC 2: TRAVEL MARKET ANALYSIS AND RIDERSHIP PROJECTIONS



# Introduction

#### **Market Analysis and Ridership Projections**

#### What we considered

- Regional and national ridership trends
- Regional population and employment growth
- Travel patterns across the VRE service region
- Future assumptions for telework rates and growth

#### TRAVEL MARKET ANALYSIS •

# **Driving Forces for VRE Ridership**

#### • What we can control:

- Levels of service
- Quality of transit service\*
- Fares
- Integrated services (partnerships with other transit operators)

#### • What we react to:

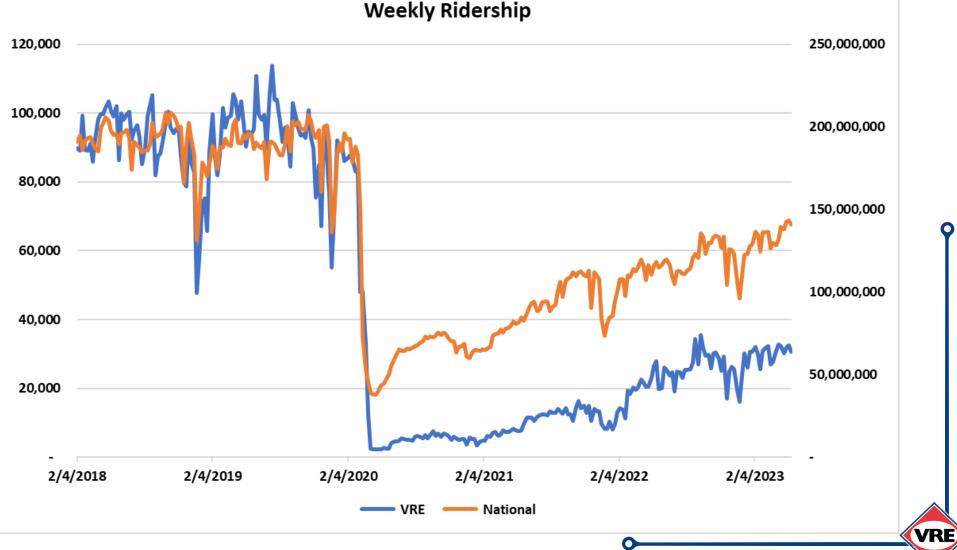
- Competitive modes (auto operating cost and congestion)
- Highway congestion mitigation projects (i.e., toll lanes, widenings, etc.)
- Land use/urban form
- Socioeconomic characteristics
- Telework—federal workforce decisions
- Pandemic

# **Transit Ridership Trend: National & VRE**

National 70% Recovery VRE 30+% Recovery

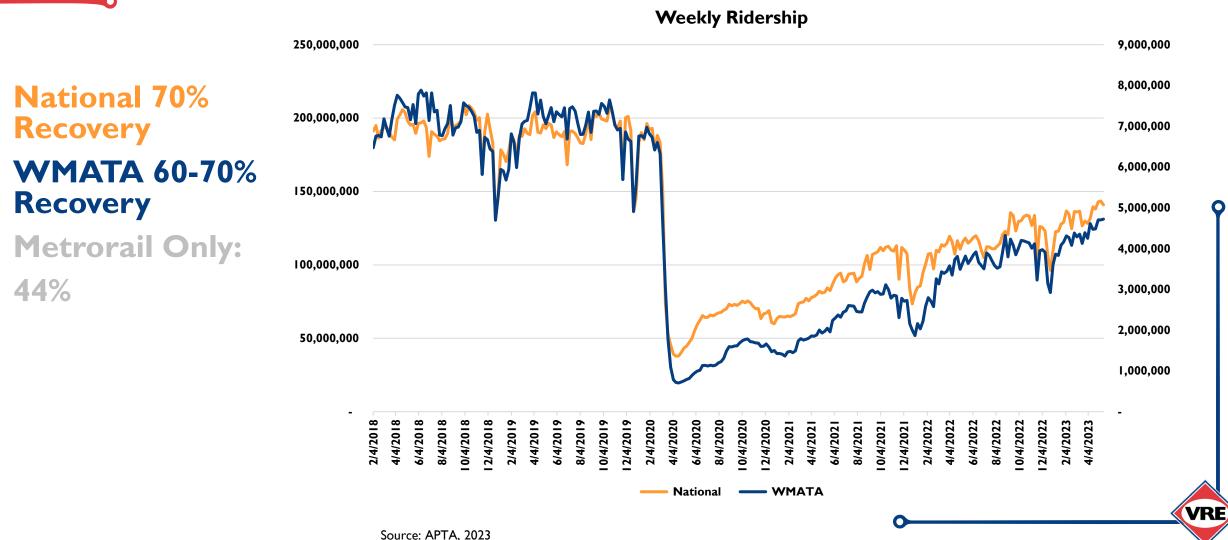
MARC: 35% Metrorail: 44% National Commuter Rail: 57%

Metrobus: 80%

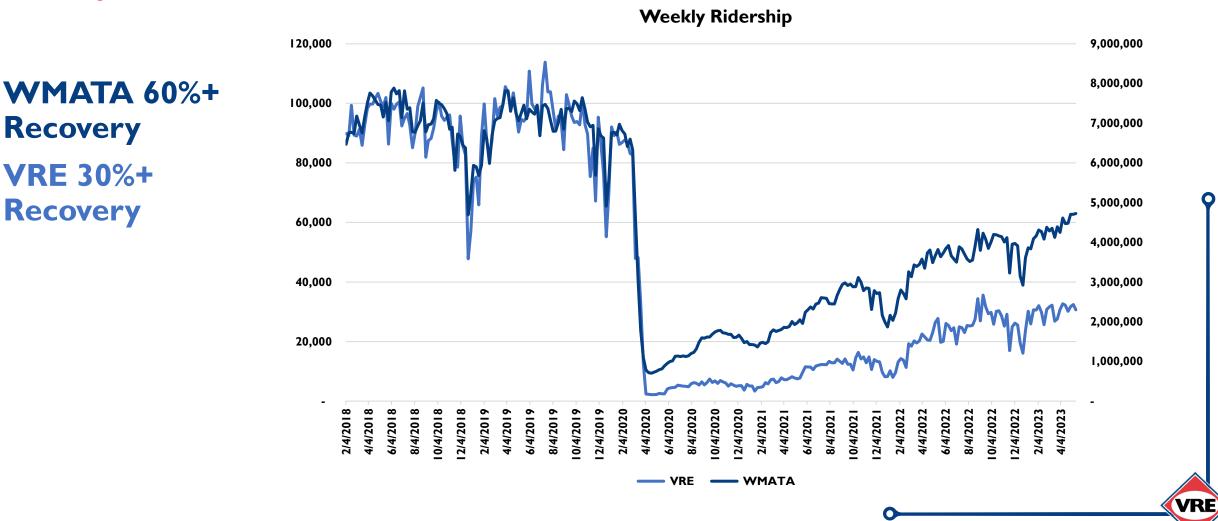


Source: APTA, 2023. NTD, 2023

### **Transit Ridership Trend: National & Regional**



# **Regional Transit Ridership Trend**



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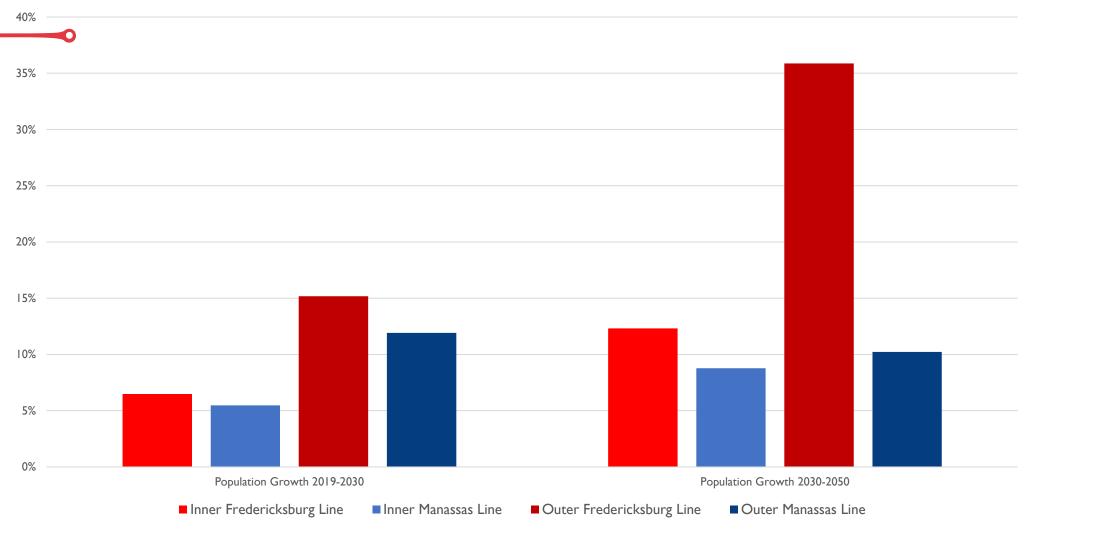
# **Travel Market Assessment**

#### **Population and Employment Growth**

- Highest rates of regional population growth to 2030 and 2050 will be around VRE outer stations' service areas<sup>1</sup>
- Employment densities in 2030 and 2050 will increase primarily along high frequency transit corridors
- Highest areas of employment growth served by VRE:
  - Crystal City
  - D.C. Core
  - Fairfax County Springfield/Belvoir North area

1: FBG Line Outer Stations: Spotsylvania, Fredericksburg, Leeland Road, Brooke, MSS Line Outer Stations: Broad Run, Manassas, Manassas Park 2: FBG Line Inner Stations: Quantico, Rippon, Woodbridge, Lorton, Franconia, MSS Line Inner Stations: Burke Centre, Rolling Rd., Backlick Rd.

# **Population Growth Projections**



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1: FBG Line Outer Stations: Spotsylvania, Fredericksburg, Leeland Road, Brooke, MSS Line Outer Stations: Broad Run, Manassas, Manassas Park 2: FBG Line Inner Stations: Quantico, Rippon, Woodbridge, Lorton, Franconia, MSS Line Inner Stations: Burke Centre, Rolling Rd., Backlick Rd.

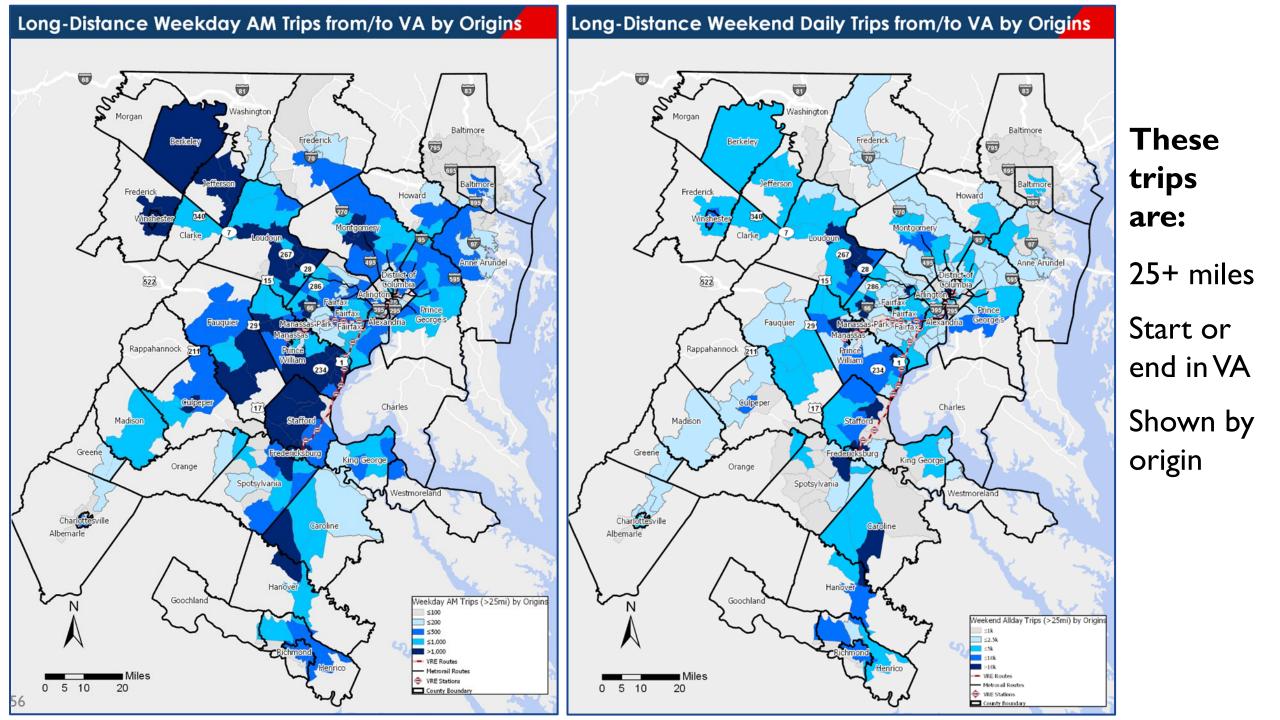
# **Travel Market Assessment**

#### **Geographic Travel Patterns**

- VRE service provides the most travel time advantage for longer trips
- Most of long-distance trip making is originating in areas far from VRE stations
- Significant number of trips begin or end beyond VRE's termini

#### **O-D** pairs with the highest level of +25-mile trip demand

Weekday Peak	Saturday	Sunday
Centreville – DC Core	Centreville – DC Core	<ul> <li>Dulles Airport – DC Core</li> </ul>
<ul> <li>Caroline County West of I-95 – Central Fredericksburg/South Stafford</li> </ul>	DC Core – Centreville	DC Core – Centreville
<ul> <li>Potomac Mills – DC Core</li> </ul>	• Dulles Airport – DC Core	• DC Core – Dulles Airport



# Travel Market Assessment

#### **Evolving Travel Choices**

- Severe drop and modest recovery of VRE ridership due to:
  - Seasonal demand variability observed even in pre-pandemic times
  - Attrition from workforce (Retirement, layoff, etc.)
  - Higher rates of telework
  - Faster driving options
- Recovery mirrors national and regional transit trends
- Many travel markets along VRE corridors have relatively high demand but less competitive transit travel time
  - Lower weekend transit competitiveness due to lower roadway congestion and lower frequency of transit service
- Very modest numbers of Maryland-bound trips originate along VRE corridors

# **Pandemic and Teleworking**

Teleworking in the D.C. region...

- Grew 4.5% between 2007 and 2019
- Approximately 44% of all regional workers teleworked or worked at home on a typical workday in early 2022
- The regional telework rate grew by more than x5 between 2019 and 2022

50% 45% 40% 35% 30% 25% 20% 15% 10% 5% 0% 2013 2016 2019 2022

% Workers Teleworking

# **Pandemic and Teleworking**

# Teleworking in the D.C. region...

- A strong pattern of increasing rates of telework as household income increases
- High rates of telework among high-earners is nothing new

#### 90% 80% 70% 60% 50% 40% 30% 20% 10% 0% Less than \$30,000 -\$60,000 -\$100,000 -\$140,000 -\$180,000 -\$250,000+ \$139,999 \$30,000 \$59,999 \$99,999 \$179,999 \$249,999 **2019 2022** 77% of VRE Riders in 2022

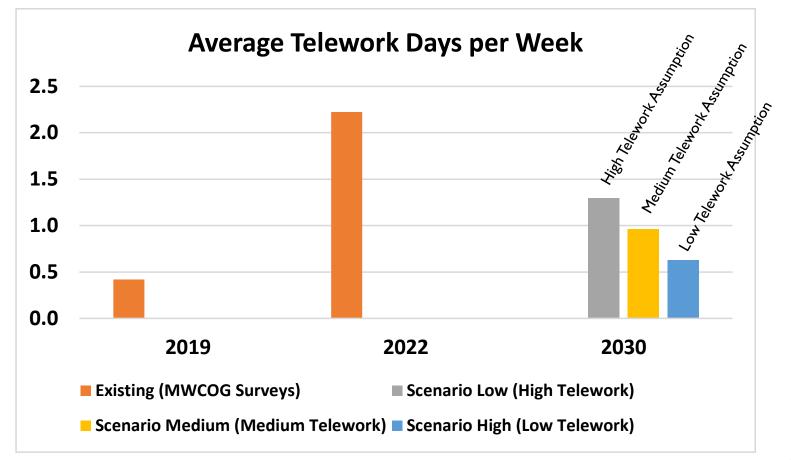
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#### % Telework by Income

Source: MWCOG, 2022

# **Telework Assumptions for Forecasting**

Existing 2019 / 2022 Future (2030)



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Source: MWCOG State of Commute Surveys for Existing Data

#### **LET'S DISCUSS**

- I. What are effects of mismatch between growth areas and VRE station locations?
- 2. How can VRE become a competitive travel option for longer trips?
- 3. What does post-pandemic growth in off-peak and weekend travel mean for a peak-focused service?
- 4. What are the implications of remote work and high incomes in service area?

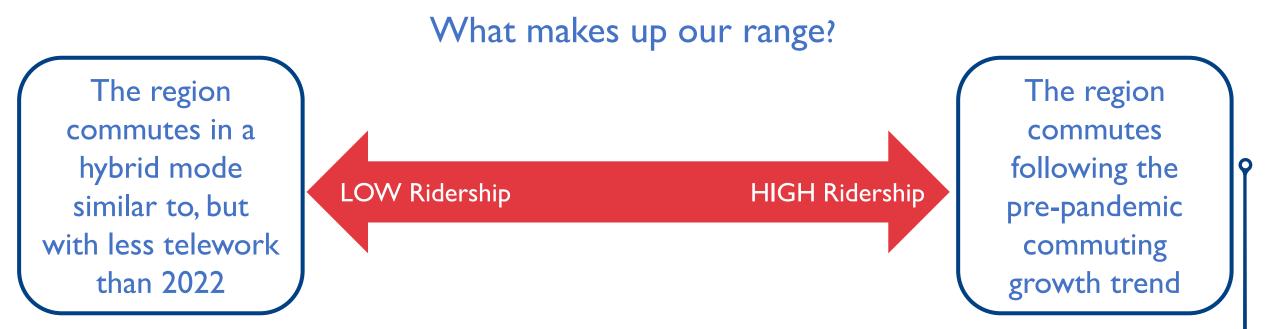


#### 2030 RIDERSHIP PROJECTIONS

# **2030 Ridership Projection Summary**

- Presented as a range of Low, Medium, and High
- The low end assumes that telework rates will be elevated because of hybrid work patterns similar to but less than the 2022 level
- The high end assumes that telework rates return to 2019 (prepandemic) levels, then grow at a rate similar to that observed between 2007-2019
- Based on the general population survey and regional demographic trends,VRE riders tend to telework at a higher-than-average rate our rates were adjusted accordingly

# **Baseline Ridership Projections: Telework**



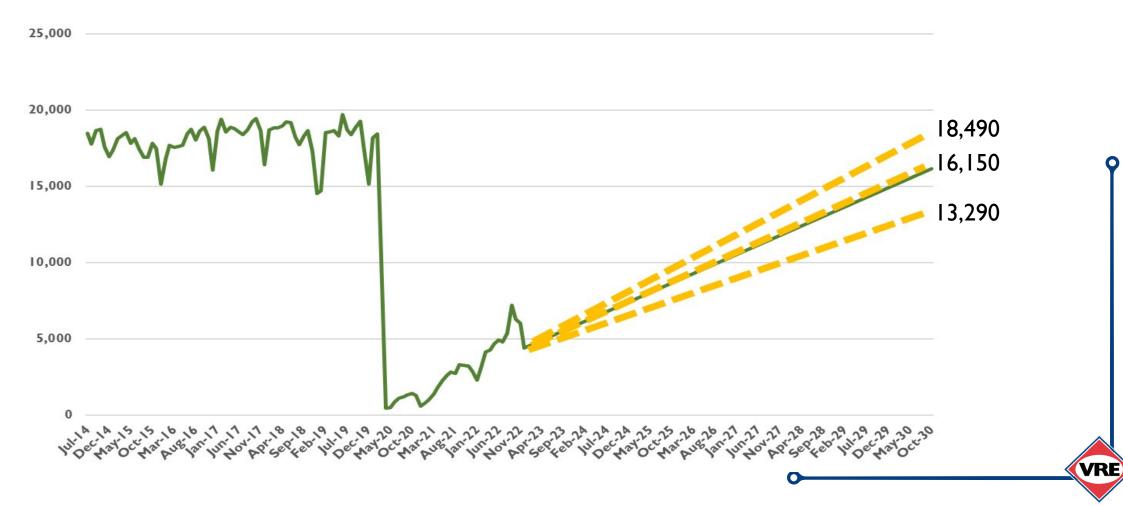
MWCOG's State of the Commute Survey used for telework data



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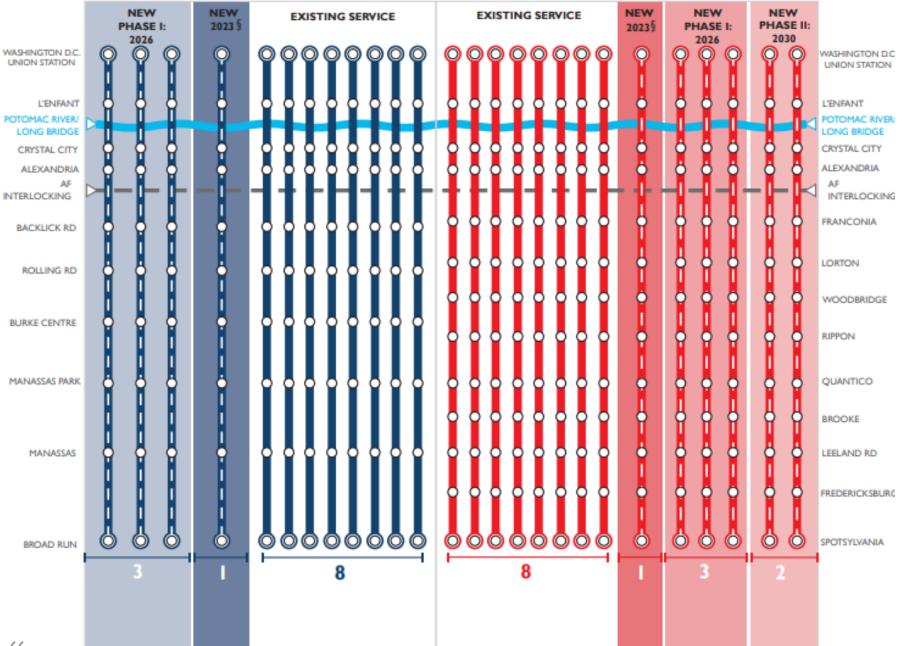
### 2030 Ridership Forecast: No Build (2023 Service)

2030 average daily ridership with no change to VRE service pattern



#### **\*VRE MANASSAS LINE**

#### VRE FREDERICKSBURG LINE



#### **TRV Baseline Service**

# Additionally, Amtrak service will grow:

#### 8 VA R/T Trains 2023

13 VA R/T Trains 2030\*

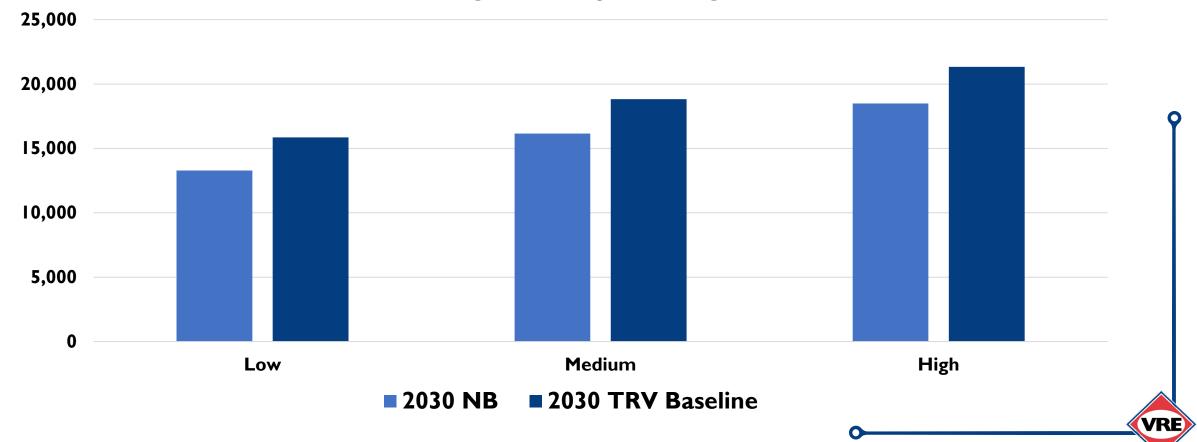
\*Only includes VA State-Sponsored Amtrak trains

**VRE** 

#### 2030 Weekday Ridership Forecasts: No Build versus TRV Baseline

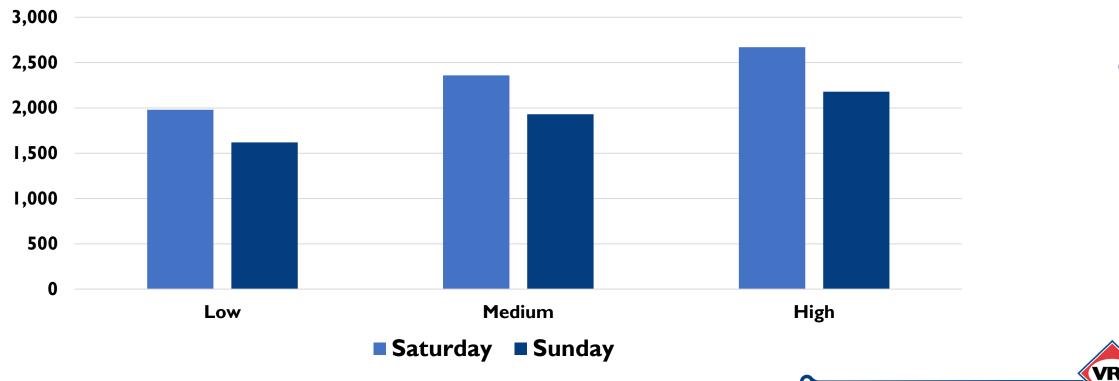
Planned 2030 TRV Baseline service improvements will increase weekday boardings by 20%

**Average Weekday Boardings** 



### 2030 Weekend Ridership Forecasts: TRV Baseline

2030 TRV Baseline service improvements add 3,600 – 4,800 weekend riders with 20% more on Saturday than Sunday

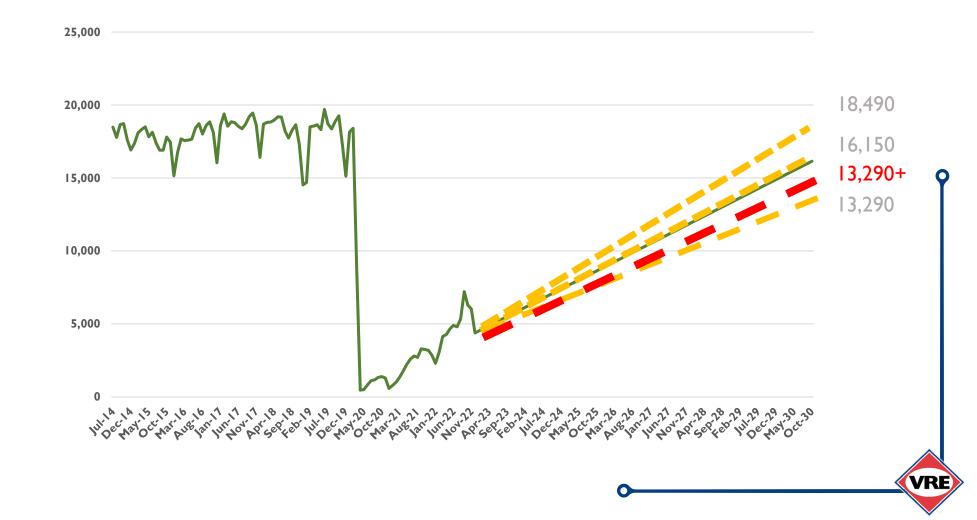


**Average Daily Boardings** 

O

# What-if: Re-baseline telework assumptions to 2023 VRE Ridership levels

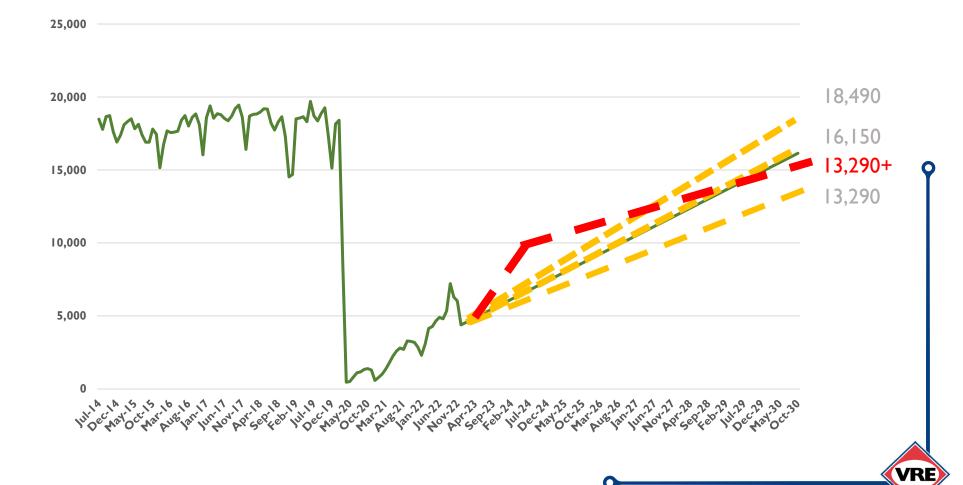
More people commuting increases the low-end of the forecast range



# What-if: Large Federal Return-to-work directive in spring 2024

More people commuting increases the lowend of the forecast range

Does not likely change the high-end of the forecast range



#### What We Learned 2030 Ridership Projections

- Managed lanes along I-95/I395 and I-66 have offered an option of better travel times for those willing to pay, competing with VRE
- During the pandemic, many people switched to driving due to lower congestion levels and health concerns – they have been slow to return to transit
- TRV 2030 Baseline service adds ~63% more weekday service and ~20% more weekday riders (and up to 4,800 weekend riders)
- Major return-to-office initiatives will improve the outlook of projections but do not impact the "high" end of the forecast range

### **LUNCH BREAK**



### TOPIC 3: 2030 PROPOSED SERVICE SCENARIOS



### How we can "move the needle" between now and 2030

#### Serve longer trips better

- Provide better connections to outer stations to extend the reach of VRE
- Add more express trains to improve travel times and give riders a convenient alternative to driving
- Coordinate with VPRA on Amtrak stopping patterns to maximize convenience for intercity and regional travelers and utility for VRE users

#### Serve unmet travel needs

- Add weekend service to increase ridership without need for additional capacity or equipment
- Add service throughout the day, making VRE an option for more travelers
- Focus on station access to support sustainable and equitable growth

# Transforming Rail in Virginia (TRV)

2030 Scenarios are developed to answer this critical question:

How does VRE best leverage this <u>transformational</u> investment to best meet the needs of regional travelers and jurisdiction partners?

## **Refined Short List Service Scenario Screening**

Operating Concept	Ref	Refined Short List Service Scenarios									
Existing	Ex	Existing (2023) [16 roundtrips]									
TRV Baseline Service	TR	RV Baseline (2030) [26 roundtrips]									
TRV Baseline Modified Service	A	Rebalanced schedule + 6 weekend roundtrips									
	В	Rebalanced schedule + 26 weekend roundtrips									
	С	Rebalanced schedule + 13 weekend roundtrips									
	D	Rebalanced to focus on express service + 6 weekend roundtrips									

# **TRV Baseline Modified Service Scenarios**

Span: Longer All Day

Frequency: 2 Long Peaks - Rebalanced peak/off-peak service patterns

Stopping Patterns: VRE Local & Peak Express, Flexible Amtrak stopping patterns

Roundtrips (Weekday): A-B-C-D: 26 – Same as TRV Baseline

**Roundtrips (Weekend):** A: 6 B: 26 C: 13 D: 6

**Bi-Directionality:** Selective Bi-Directional

**Timed Transfers:** MARC Penn Line – Meet 1/4 to 1/3 of arrivals/departures within 10-30min transfer

Equipment Use: VRE all times, with Amtrak supplementing

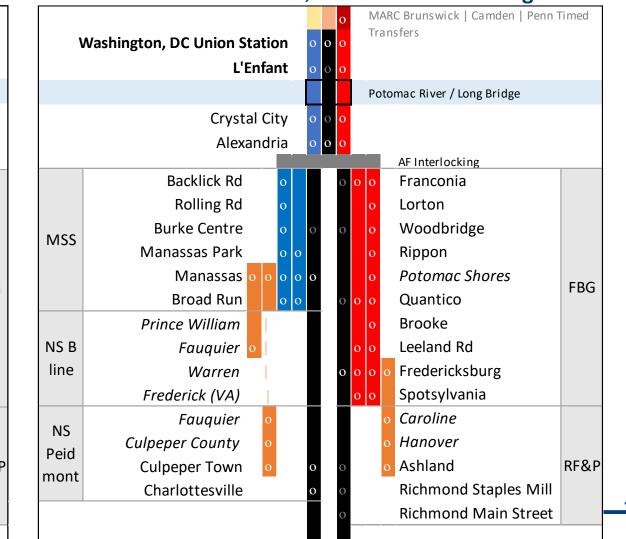
Implementation Timeframe: Weekday: Post Long Bridge, Weekend Alts. A, C, D: 2024, Weekend Alt. B: 2026

# **Existing vs TRV Baseline Modified Service**

#### Existing VRE and Amtrak Service Pattern

	0	-		-						
Washir	ngton, DC Union Station L'Enfant			0 0 0		MARC Brunswick   Camden   Per Timed Transfers	n		۱	ľ
						Potomac River / Long Bridge				
	Crystal City		0	o						
	Alexandria		0	0 0						
						AF Interlocking				_
	Backlick Rd	0			0	Franconia				
	Rolling Rd	0			0	Lorton				
MSS	Burke Centre	0	0	0	0	Woodbridge			MSS	
10122	Manasas Park	0			0	Rippon			10133	
	Manasas	0	0		0	Potomac Shores	500			
	Broad Run	0		0	0	Quantico	FBG			
	Prince William				0	Brooke				
NS B	Fauquier				0	Leeland Rd			NS B	
line	Warren			0	0	Fredericksburg			line	
	Frederick (VA)				0	Spotsylvania				L
NC	Fauquier					Caroline			NS	
NS Peid	Culpeper County					Hanover			Peid	
	Culpeper Town		0	0		Ashland	RF&P			
mont	Charlottesville		0	0		Richmond Staples Mill			mont	
				0		Richmond Main Street				
								i		

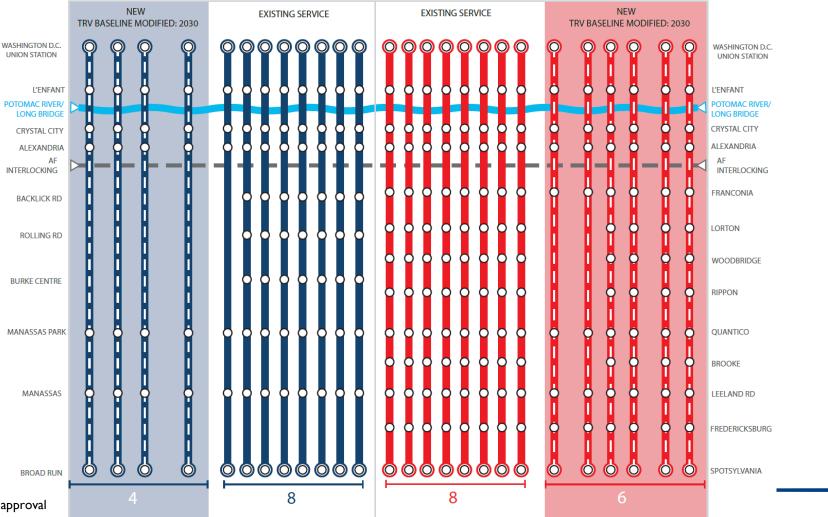
#### **TRV Baseline Modified VRE, Amtrak & Connecting Service**



VRE

## **VRE 2023 vs. TRV Baseline Modified Service**

#### ALTERNATIVE A/B/C - WEEKDAY VRE MANASSAS LINE VRE FREDERICKSBURG LINE



MSS Line service changes subject to NS approval

VRE

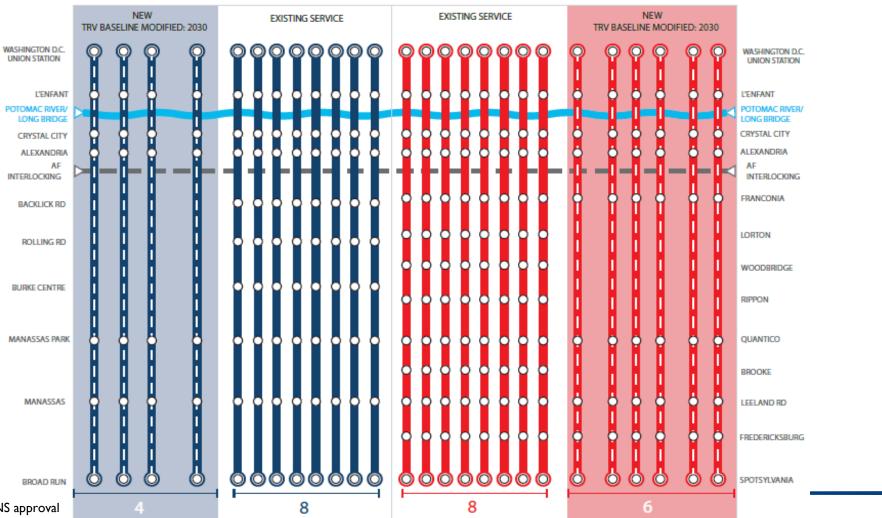
## **VRE 2023 vs. TRV Baseline Modified Service**

#### **ALTERNATIVE D - WEEKDAY**

#### **VRE MANASSAS LINE**

#### **VRE FREDERICKSBURG LINE**

VRE

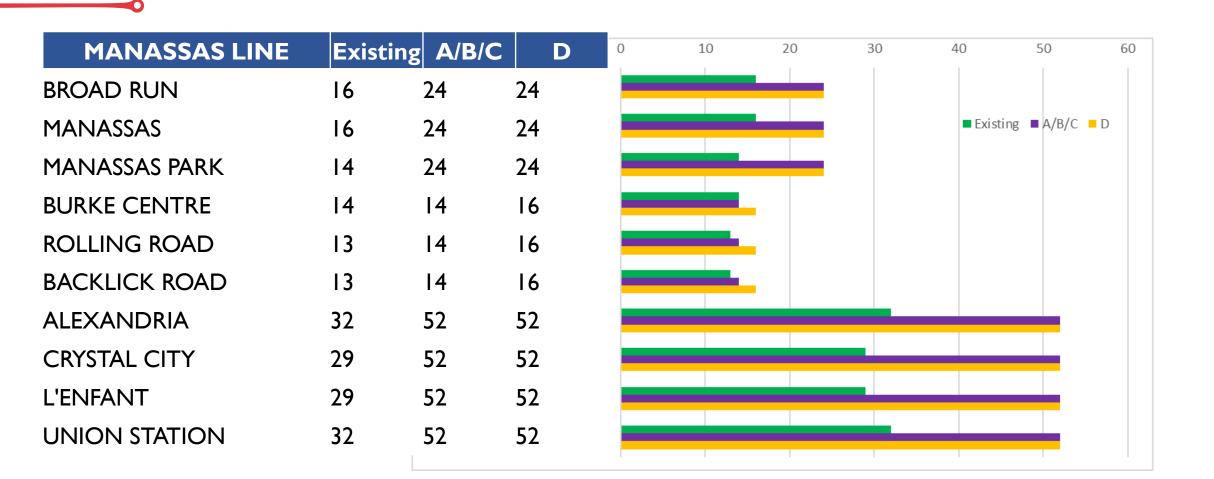


MSS Line service changes subject to NS approval

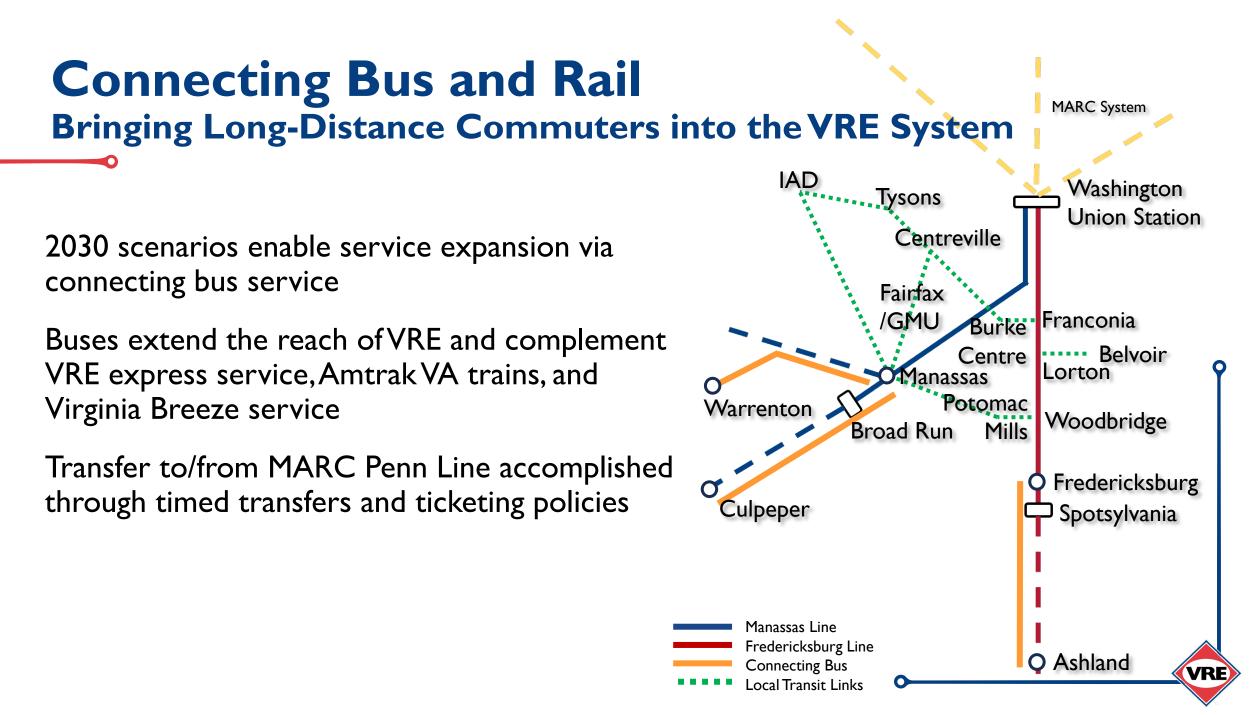
#### **VRE Train Stops by Station** Alternative A/B/C/D - Fredericksburg Line - Weekday

				0	10	20	30	40	50	60
FREDERICKSBURG LINE	Existing	A/B/C	D		10	20	50	40	50	00
SPOTSYLVANIA	16	28	28				-			
FREDERICKSBURG	16	28	28				-	Evicti		
LEELAND ROAD	16	28	28				-	EXISU	ng ∎A/B/C	
BROOKE	16	25	17							
QUANTICO	15	28	28	_						
POTOMAC SHORES	0	25	17							
RIPPON	15	25	17							
WOODBRIDGE	16	25	17							
LORTON	15	25	17							
FRANCONIA-SPRINGFIELD	15	28	28							
ALEXANDRIA	32	52	52							
CRYSTAL CITY	29	52	52							
L'ENFANT	29	52	52							
UNION STATION	32	52	52							
				1	1	1	1	1	1	1

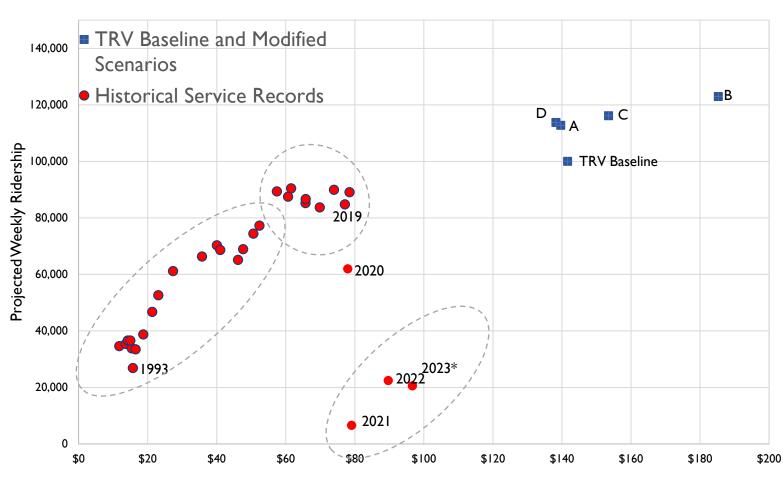
#### VRE Train Stops by Station Alternative A/B/C/D – Manassas Line - Weekday



VRE



## 2030 Operating Cost vs Projected Ridership



Annual Operating Cost \$Million

All historical data from National Transit Database (NTD) and VRE

Operating cost estimates of TRV Baseline and TRV Baseline Modified Scenarios based on 2019 Operating Expense per Vehicle Revenue Mile/Hour

2020 - 2022 records seen as outliers due to pandemicrelated impacts on ridership

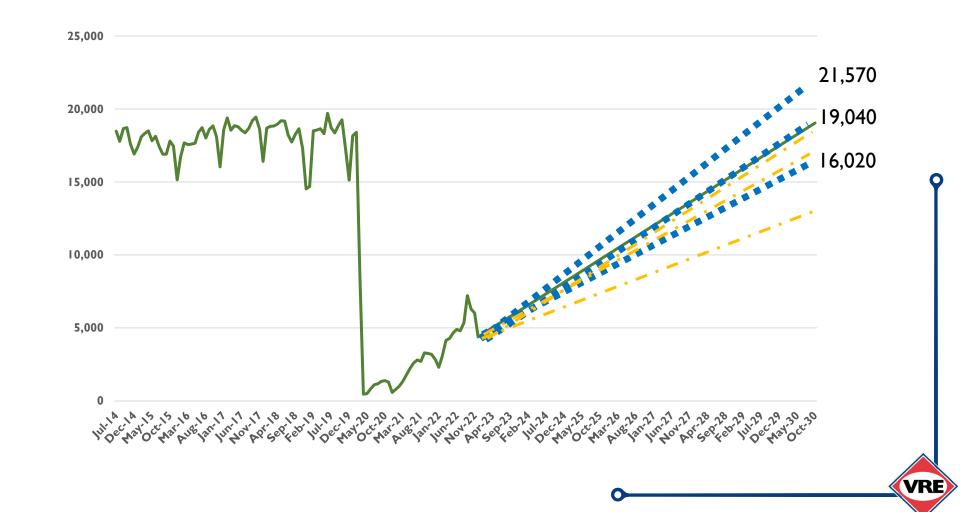
VRE

2023\* (3-months of data)

### ALTERNATIVES A/B/C/D RIDERSHIP PROJECTIONS

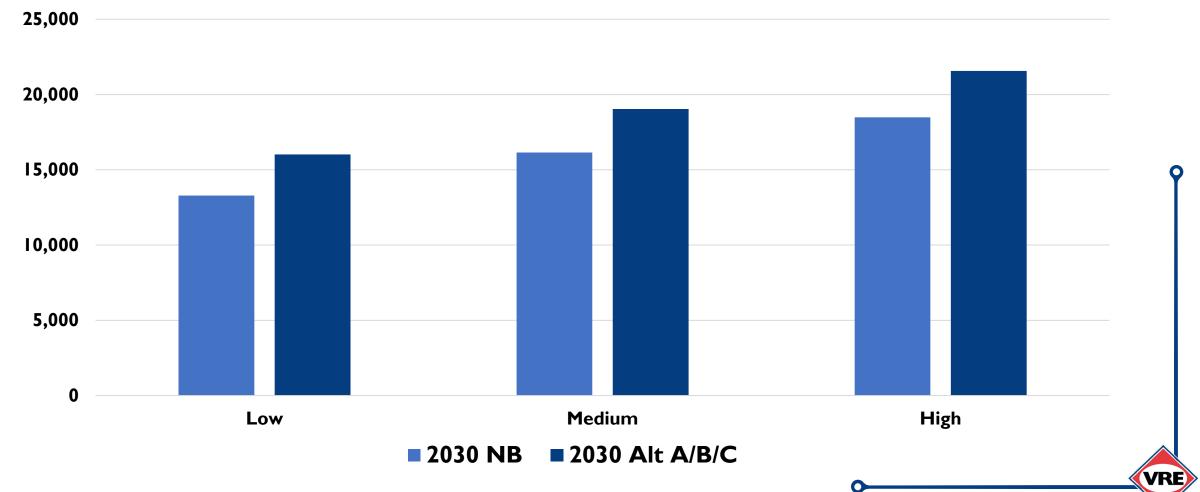
## Alt A/B/C 2030 Average Weekday Ridership

**Build Alts Average** Weekday **Boarding Forecasts No-Build** Average Weekday Boarding **Forecasts** 



### 2030 Weekday Ridership Forecasts: Alt A/B/C vs No Build

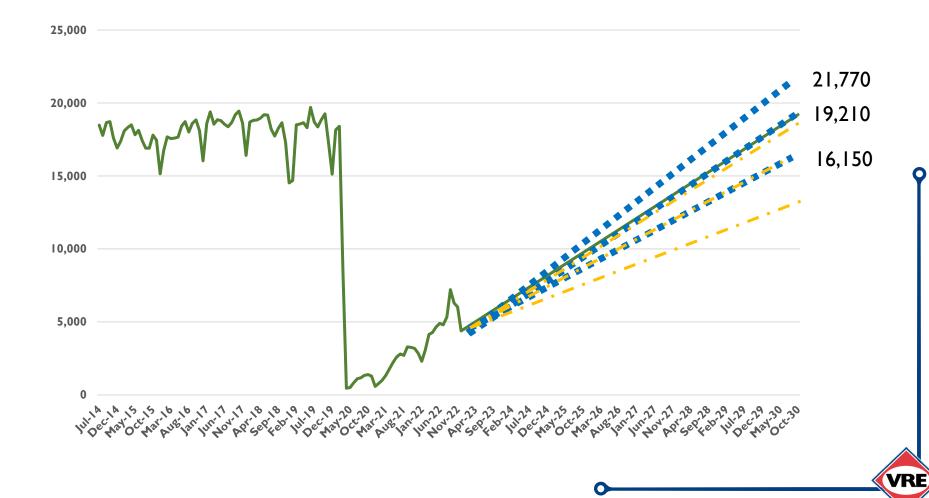
**Average Weekday Boardings** 



# Alt D 2030 Average Weekday Ridership

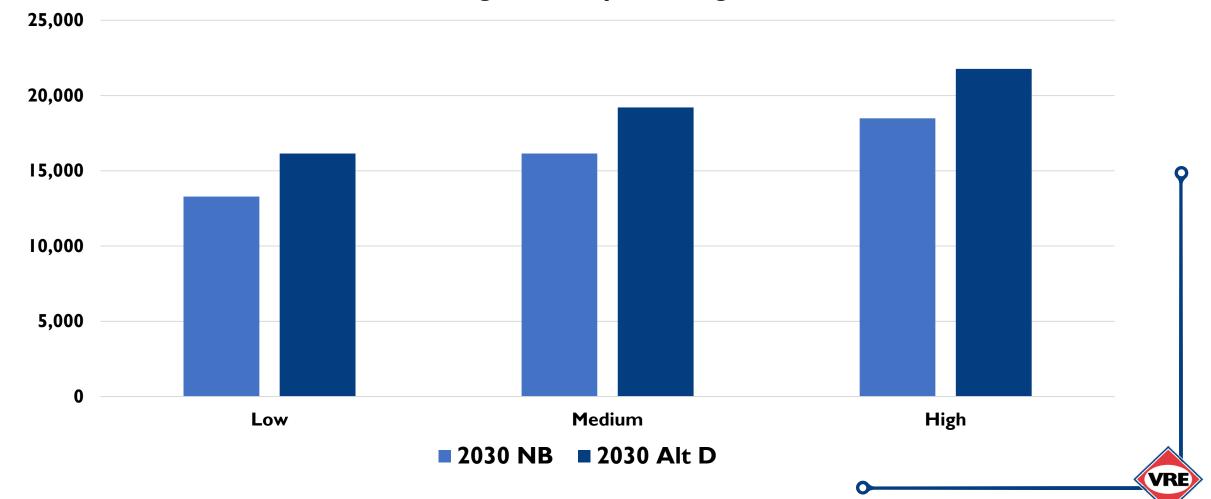
Alt D Average Weekday Boarding **Forecasts** (slightly higher than Alt A) **No-Build** Average Weekday Boarding

**Forecasts** 



### 2030 Weekday Ridership Forecasts: Alt D vs No Build

**Average Weekday Boardings** 



## **2030 Average Saturday Ridership Forecasts**

#### 9,000 8,000 7,000 6,000 5,000 4,000 3,000 2,000 1,000 Alt A & D Alt B Alt C ■ Low ■ Medium ■ High VRE

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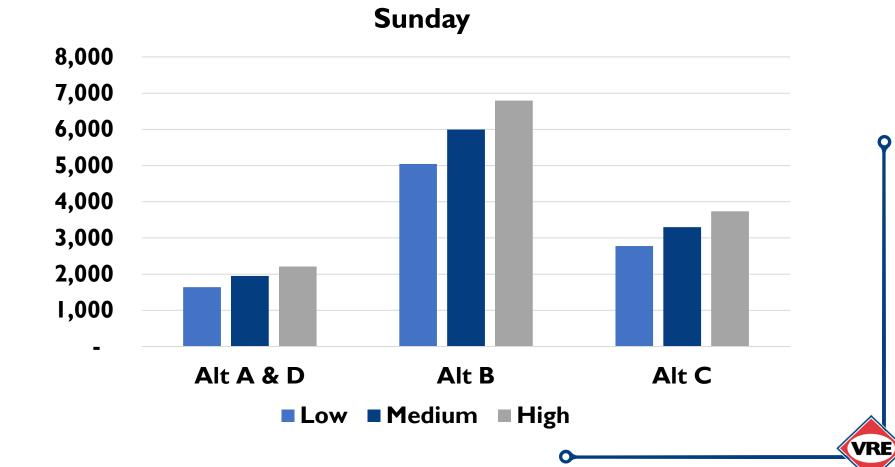
**Saturday** 

#### Average **Saturday Boardings**

## 2030 Average Sunday Ridership Forecasts



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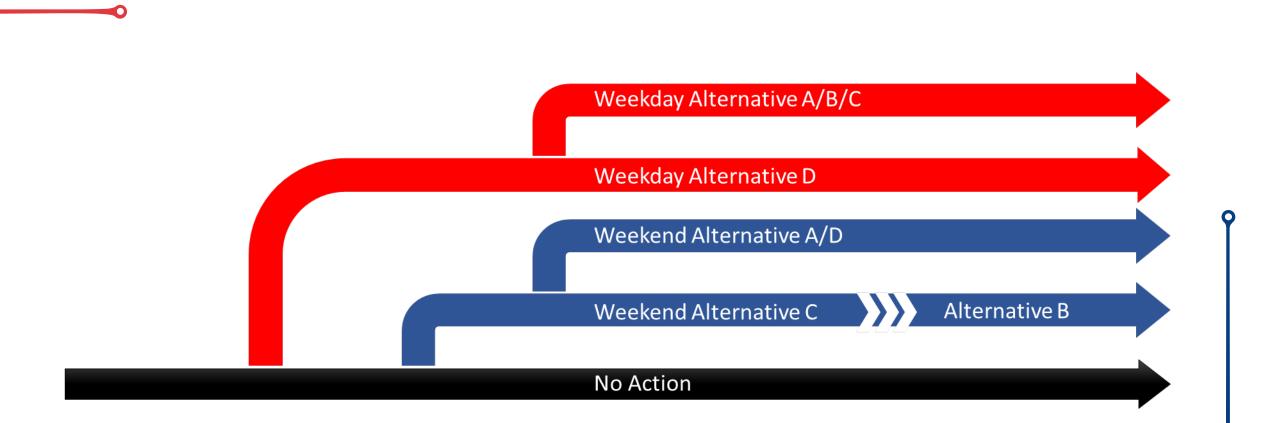
# In Summary

- Telework assumptions have a significant impact on the ridership forecasts, forming a wide range of potential daily ridership projection for 2030
- Holding service to 2023 levels or even the TRV Baseline level will make returning to pre-pandemic ridership levels a challenge by 2030
- TRV Baseline would generate a considerable ridership increase over the nobuild (approximately 20%)
- TRV Modified (A-D) Service scenarios would increase the weekday ridership marginally (1-2%) over TRV <u>AND</u> result in significant weekend ridership gains
- Adding express service (decreasing travel times) increases ridership
- Increased service frequency also increases ridership and convenience

### DISCUSSION

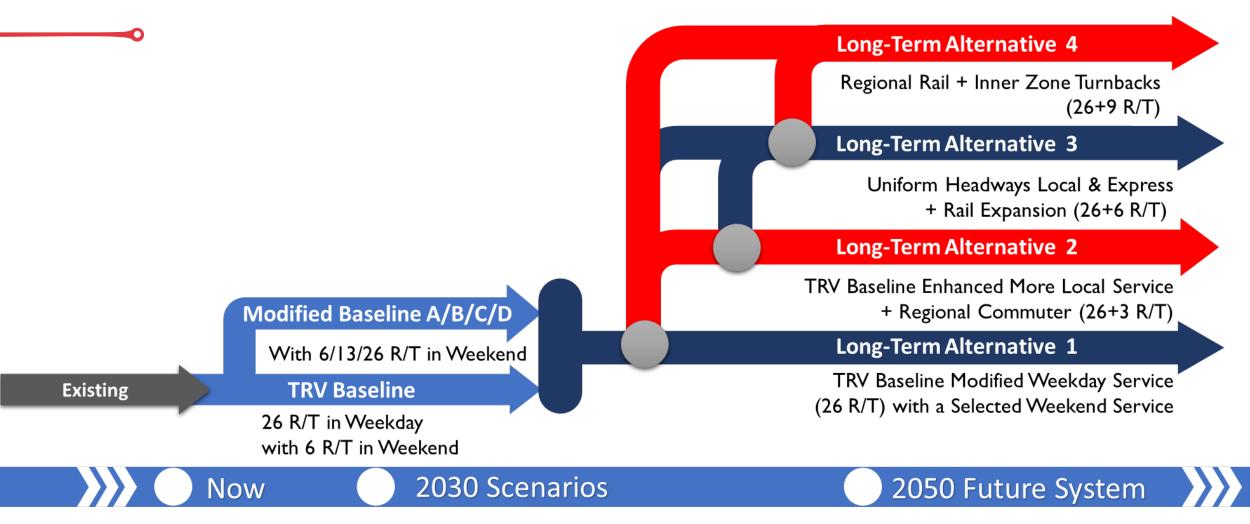
- I. What opportunities does TRV create for VRE by 2030 or even before that?
- 2. What areas of flexibility should VRE retain as we plan for 2030?
- 3. How will service improvements in the near-term shape the future?
- 4. Which service alternative do you prefer?

# Looking Ahead to 2030



**VRE** 

## Looking Ahead Beyond 2030



# Looking Ahead

- VRE's down payment in TRV creates an important opportunity and obligation for VRE to invest in impactful service for 2030
- <u>Your</u> recommendation for 2030 will inform how VRE staff shapes the 2050 long-term scenarios
- Public input on 2050 scenarios would be valuable at this stage

#### Proposed Fall Board Work Session topics:

- Further detail (cost/funding, etc.) on 2030 recommended alternative
- Range of 2050 scenarios and implications
- Other key topics?

### THANK YOU FOR YOUR TIME, GUIDANCE, AND LEADERSHIP

