

2023 Richmond Regional
Transportation Planning
Organization (RRTPO)

TRANSPORTATION FORUM





From concept to reality

MARCH 17, 2023 – RRTPO TRANSPORTATION FORUM





TRANSPORTATION IMPACTS EVERYONE ALL THE TIME

- Moving around your neighborhood
- Getting to local services
- School and work trips
- Regional destinations
- Day trips
- Long distance





WHAT IS TRANSPORTATION?

A **continuing, comprehensive** and **collaborative** process to encourage and promote the development of a **multimodal** transportation system to ensure **safe** and **efficient** movement of **people** and **goods** while balancing **environmental** and **community** needs.



- *US Department of Transportation*

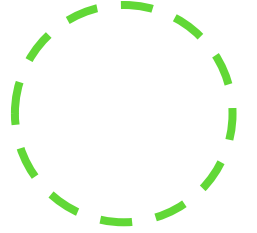


TRANSPORTATION INCLUDES...

- ✓ Walking on sidewalks
- ✓ Walking and riding on trails
- ✓ Riding on buses
- ✓ Scooting on scooters
- ✓ Riding trains
- ✓ Driving on highways
- ✓ Riding in airplanes
- ✓ Piloting boats
- ✓ What else?



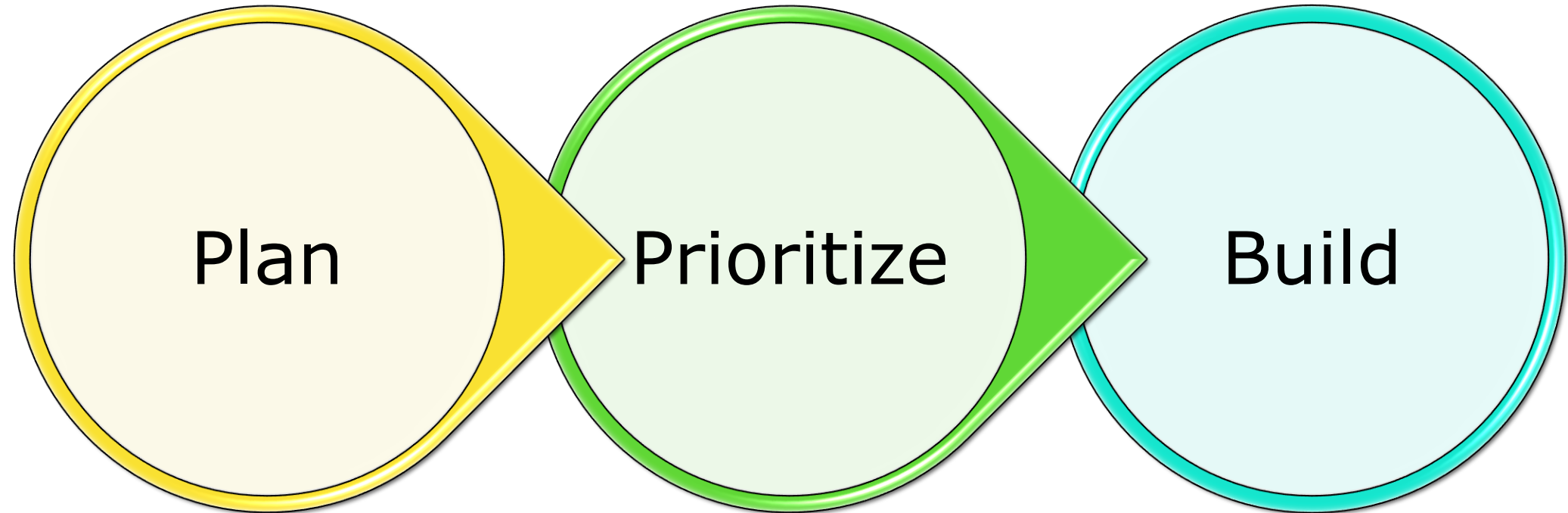
A GOOD TRANSPORTATION SYSTEM IS...



- ✓ Safe
- ✓ Efficient
- ✓ Equitable
- ✓ Accessible
- ✓ Environmentally friendly
- ✓ Affordable
- ✓ Reliable
- ✓ Comfortable

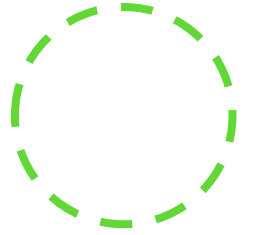


TRANSPORTATION DEVELOPMENT PROCESS



Localities +

HOW DO WE MAKE THINGS HAPPEN?



01

Plans

02

Finances

03

Engineering

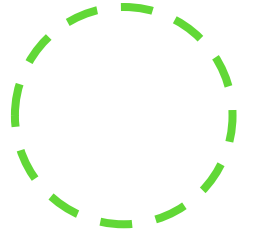
04

Property

05

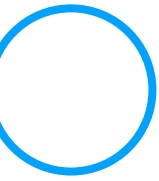
Construction





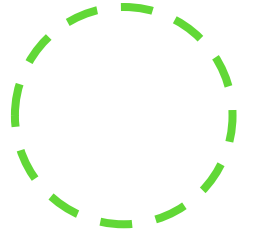
TRANSPORTATION PLANNING

- ✓ Responsible party: Local, Regional, State, Federal
- ✓ Scale of project: From sidewalk to superhighway
- ✓ Timeframe: Months to years
- ✓ Partnerships: Single source to multiple partners

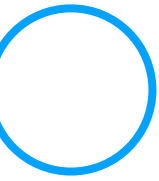




TRANSPORTATION FINANCING

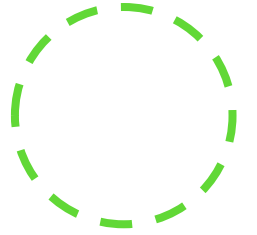


- ✓ Understand the scale: Complexity and impact
- ✓ General cost: Order of magnitude
- ✓ Source(s) of funds: From HOA to Congress
- ✓ Availability of funds: When is money needed?

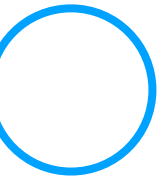




TRANSPORTATION ENGINEERING




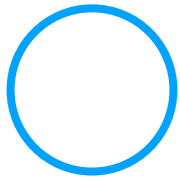
- ✓ Plans: Develop detailed plans
- ✓ Detailed cost: Get reliable estimates
- ✓ Materials: Inventory and source materials
- ✓ Timeframe: Phasing and real-world timeframe





04


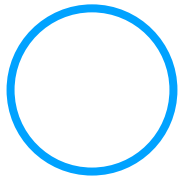
TRANSPORTATION RIGHT-OF-WAY

- ✓ Impacts: What will the project do to nearby property?
 - ✓ Method: Agreements, easements, purchase
 - ✓ Negotiation: Proper compensation for land value
 - ✓ Acquisition: Control the land for construction
- 
- 




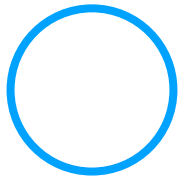
05

TRANSPORTATION CONSTRUCTION

- ✓ Mobilization: Get equipment and materials in place
 - ✓ Traffic control: Have a plan to reroute traffic
 - ✓ Construction: Actually build the project
 - ✓ Opening: Close out and open for use
- 
- 



BIG IDEAS...

- We're all going to have to work together to accomplish big things in the Richmond region
 - There are way more needs than we have the funding to cover
 - How can we get there?
 - First step: Understand what the experts are thinking about
- 
- 



2023 Richmond Regional Transportation Planning Organization (RRTPO)

TRANSPORTATION FORUM



Vision Zero: Our Steps to Improve Public Health

A Regional Focus

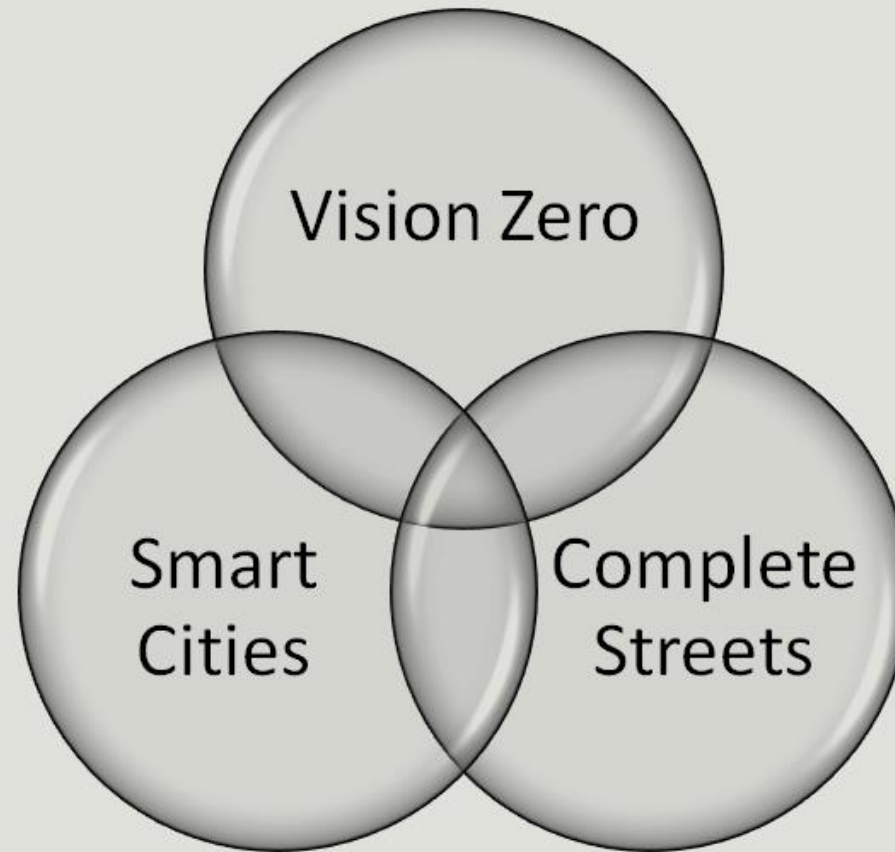
MICHAEL B. SAWYER, PE

CITY TRANSPORTATION ENGINEER

MARCH 17, 2023



Our Regional Transportation Emphasis



What is Vision Zero?

How many traffic fatalities occur in the United States each year?

What is a good goal for the United States?

What is a good goal for your family?

Shouldn't that be the goal for everyone?

Changing our built environment + shifting our safety culture.



What is Vision Zero?

The Vision Zero is the Swedish approach to transportation safety thinking.

It can be summarized in one sentence:

No injuries or loss of life is acceptable.



Towards Zero Deaths – Virginia's Plan

TOWARD ZERO DEATHS

MOVING VA TOWARD ZERO DEATHS

HOME ARRIVE ALIVE ▾ SAFETY TIPS ▾ RESOURCES

MOVING VIRGINIA TOWARD ZERO ROADWAY DEATHS

LEARN HOW YOU CAN MAKE A DIFFERENCE ▸

WELCOME TO VIRGINIA
VIRGINIA IS FOR LOVERS

Old Town
Alexandria
Mt. Vernon
EXIT 177 C

EXIT 177 C-B-A
Alexandria
Fort Belvoir
EXIT ONLY

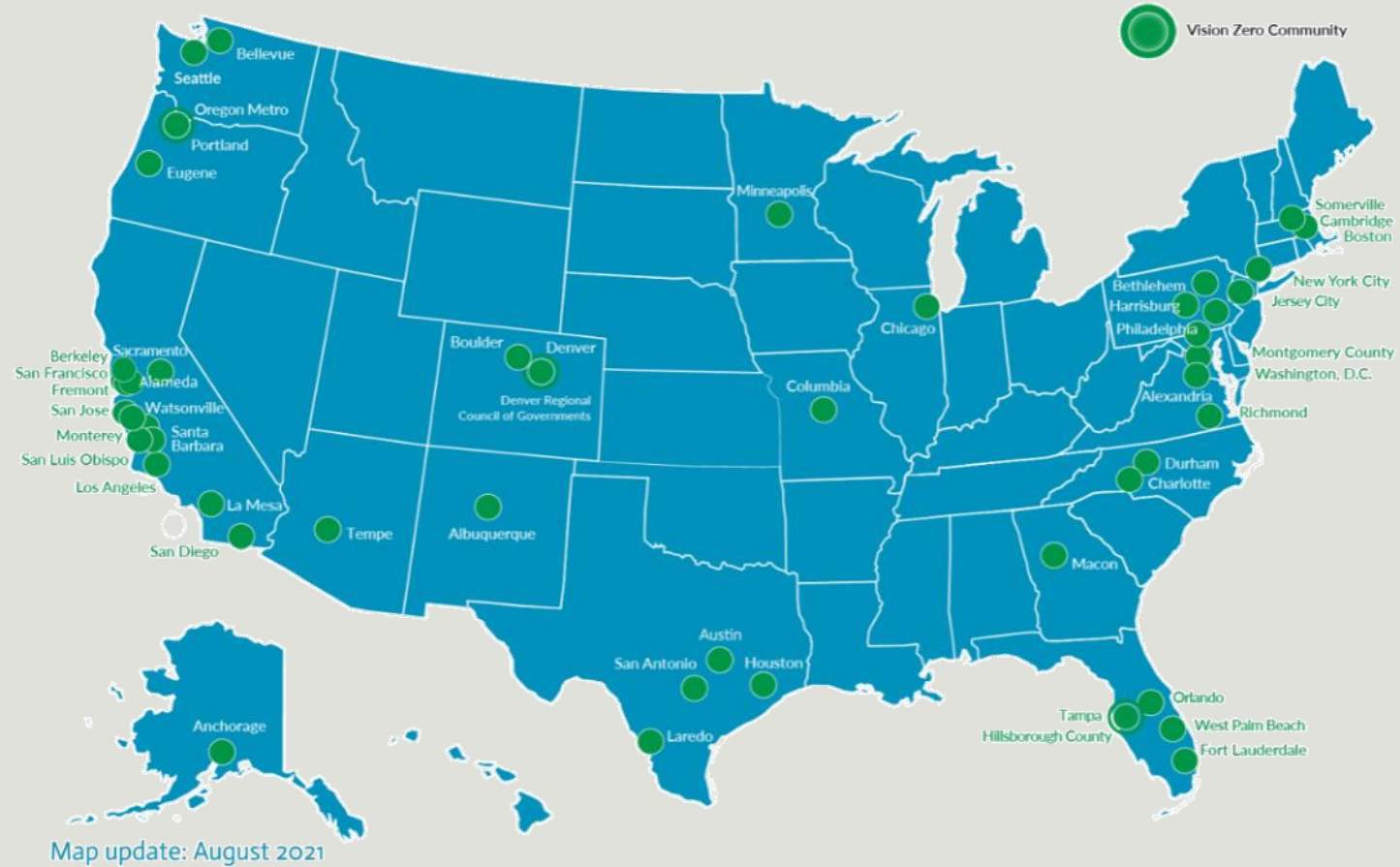
Arrive Alive Virginia
Virginia Strategic Highway Safety Plan

VIRGINIA 2022-2026
STRATEGIC HIGHWAY SAFETY PLAN

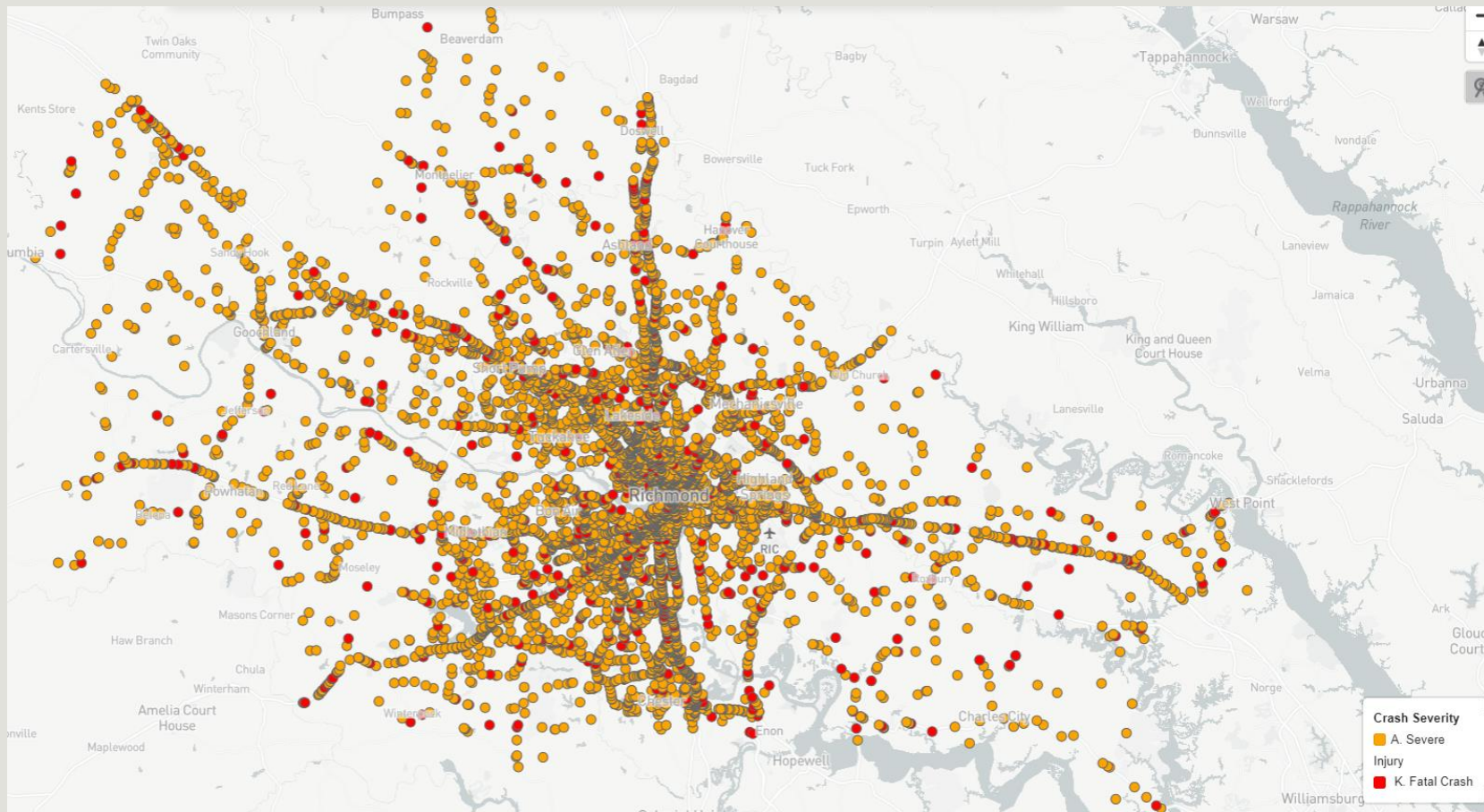
Icons representing various road users: car, motorcycle, bicycle, pedestrian, wheelchair, stroller, and truck.



Vision Zero Localities in the United States



Why is Vision Zero important?



Source: VDOT Crash Tool



Since 2015 in our region...

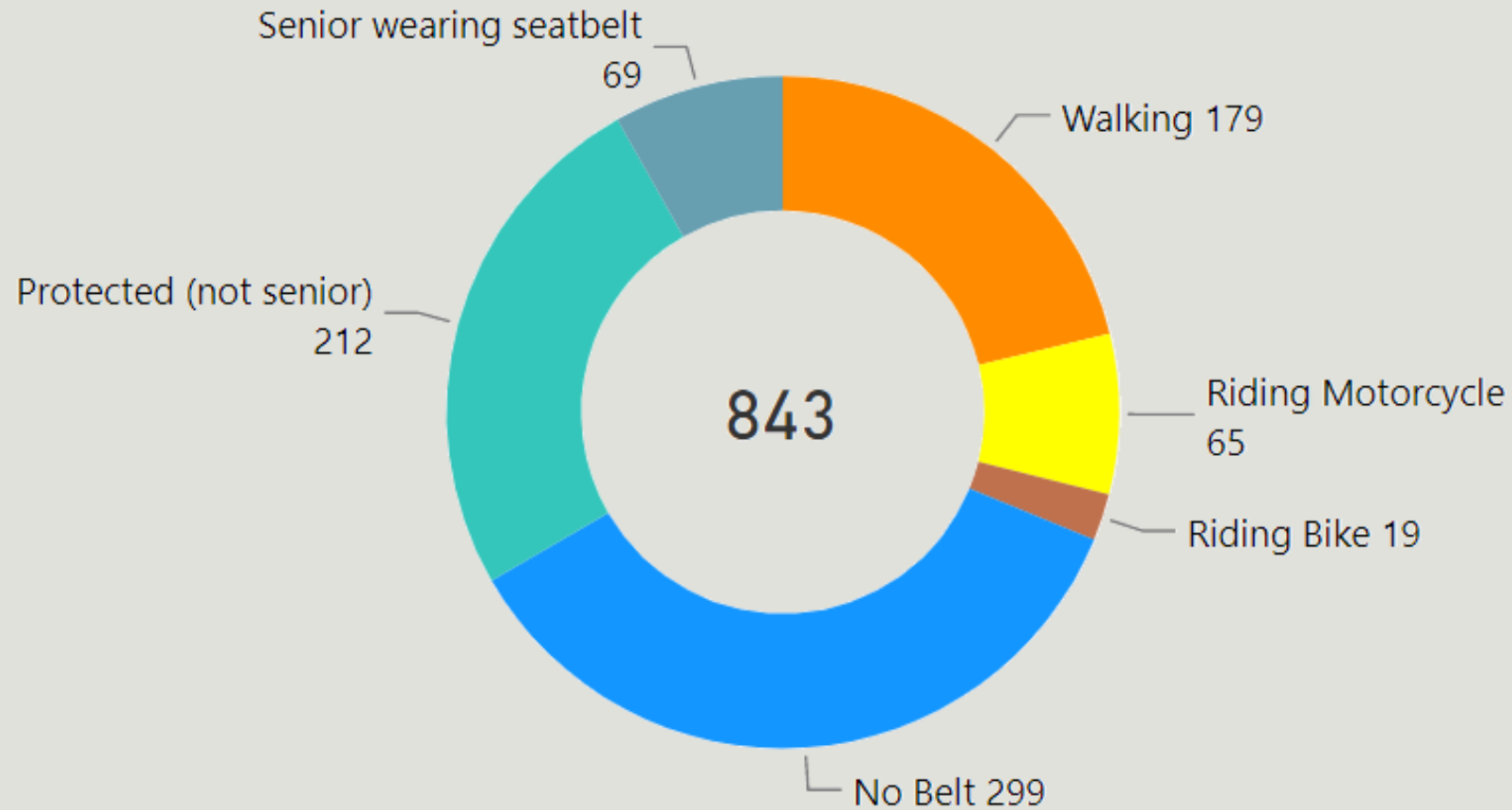
6,725 Severe Crashes (155,000+ total)

- 843 people killed in traffic related deaths
 - 179 people were walking (1 in 5)
- 7,220 people suffer incapacitating injuries
 - 562 people were walking (1 in 13)

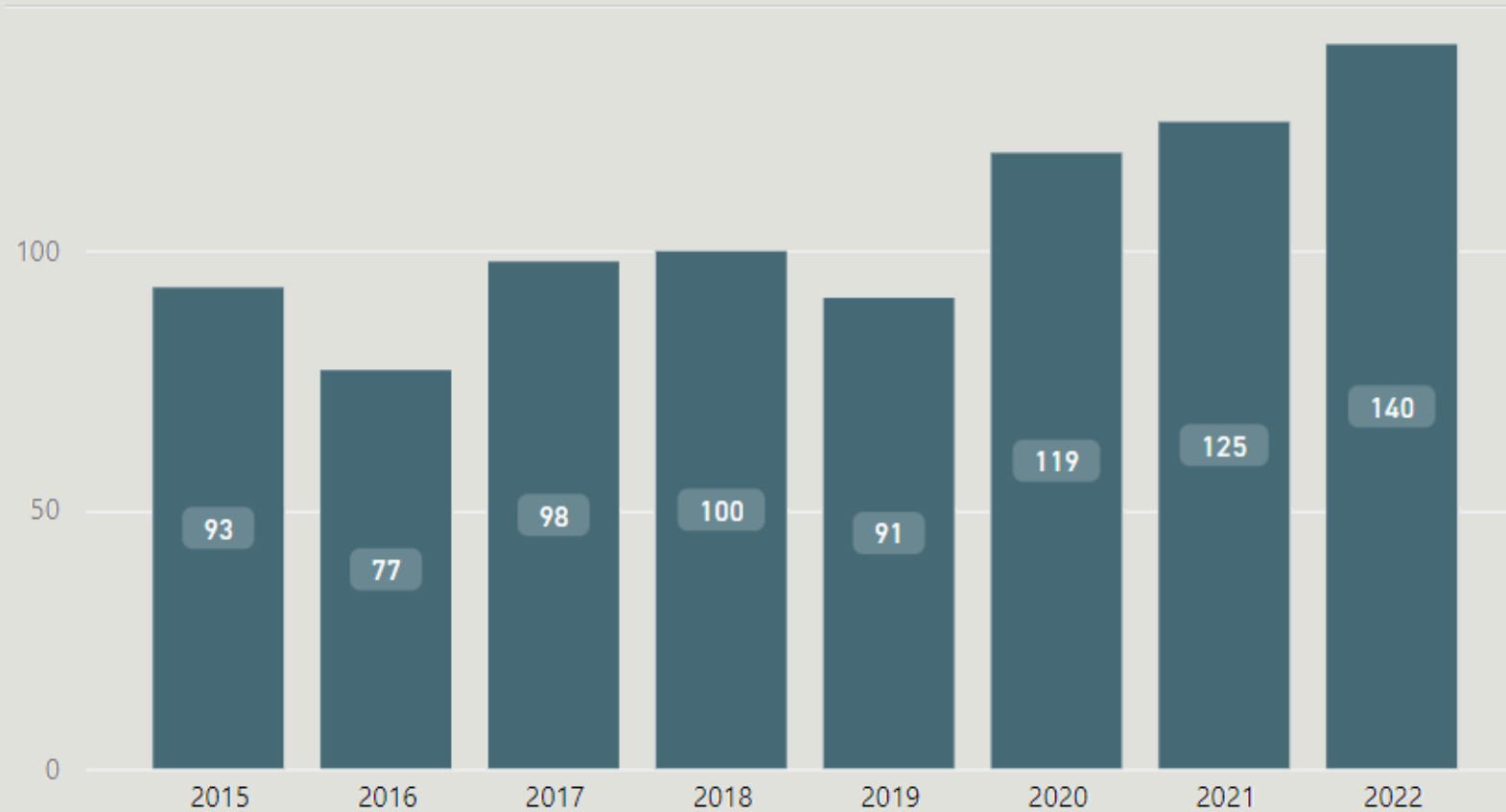
19 people per week did not make it safely to their destination; instead they ended up in a morgue or in the hospital with life changing injuries.

- One person every fourth day was walking

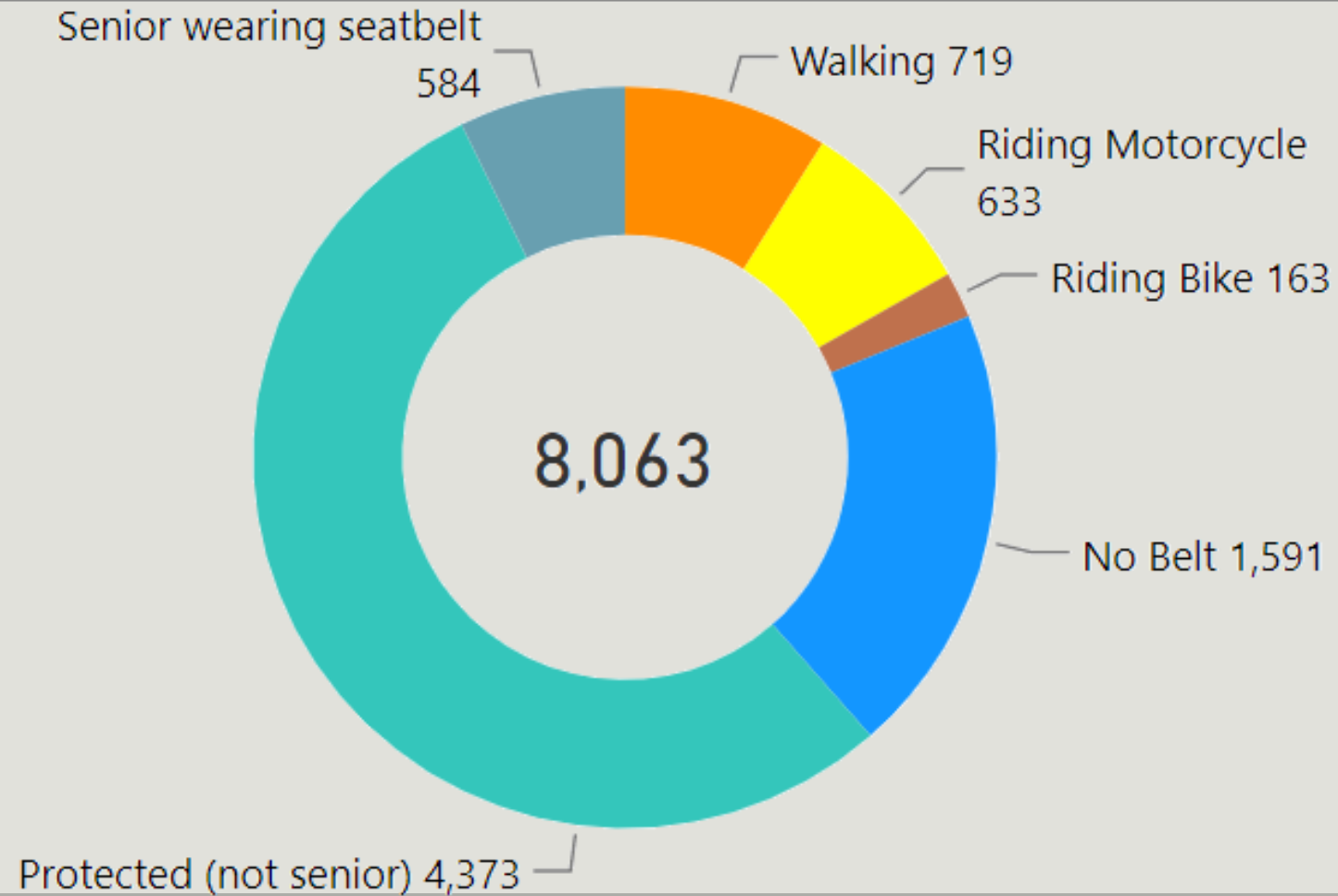
Traffic Related Deaths in our region...



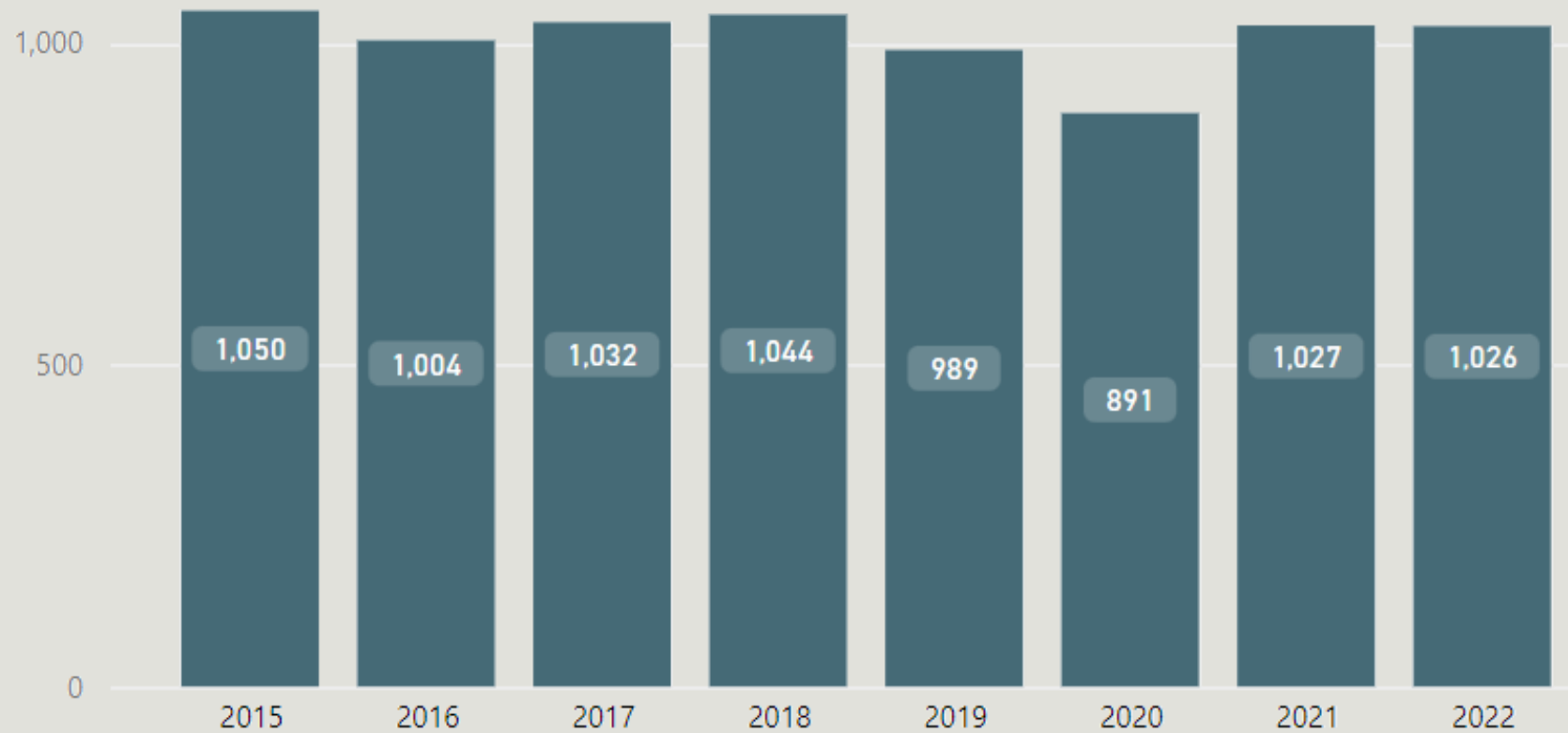
Traffic Related Deaths in our region...



Traffic Related Deaths with Serious Injuries



Traffic Related Deaths with Serious Injuries



Twelve Steps to Vision Zero

STEP 1: Establish Safe and Healthy Streets Commission

STEP 2: Adopt a Vision Zero Resolution

STEP 3: Sign a Vision Zero Pledge

STEP 4: Issue a Safe and Healthy Streets Challenge

STEP 5: Adopt Vision Zero Action Plan

STEP 6: Establish a Vision Zero Task Force

STEP 7: Establish Year One Priorities and Metrics

STEP 8: Engage community leaders

STEP 9: Shift the safety culture

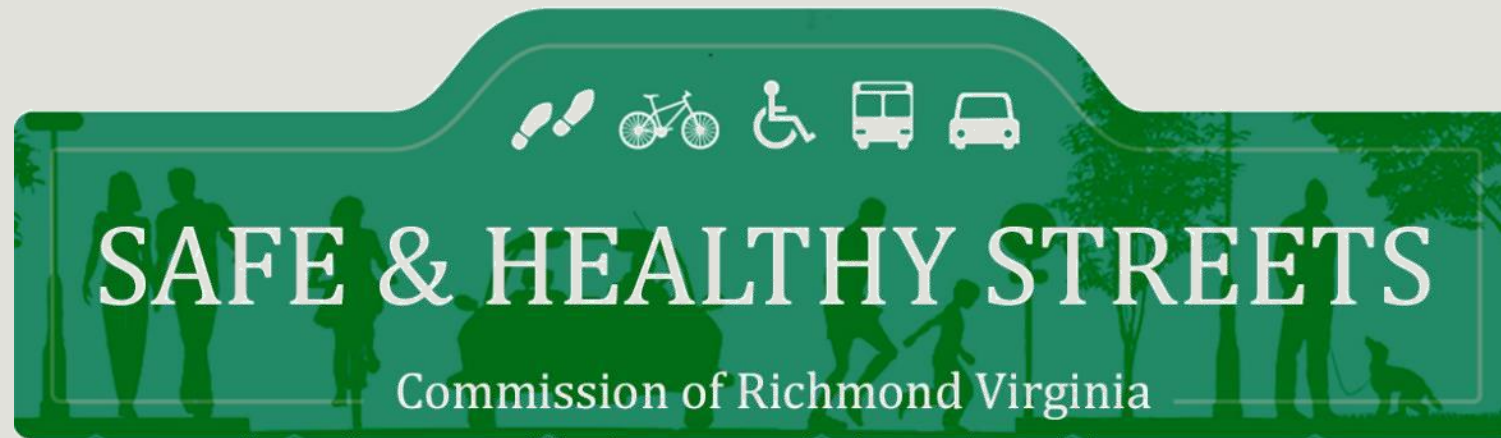
STEP 10: Vision Zero as DNA

STEP 11: Focus on resources

STEP 12: Keep your head up



STEP 1: Establish a Safety Commission



Next Meeting:
Wednesday April 19, 2022 at 2PM



Safe and Healthy Streets Commission

Founded in 1966

Multidiscipline Team

Codified by Local Ordinance

Advises City Council on all transportation safety matters

Creates, monitors, and reports on Vision Zero Action Plan

Recommends Annual Priorities

Recommends Safety Legislation

Meets quarterly



Support the Regional Transportation Safety Plan

Adopted in 2022

Identifies High Injury Street Network

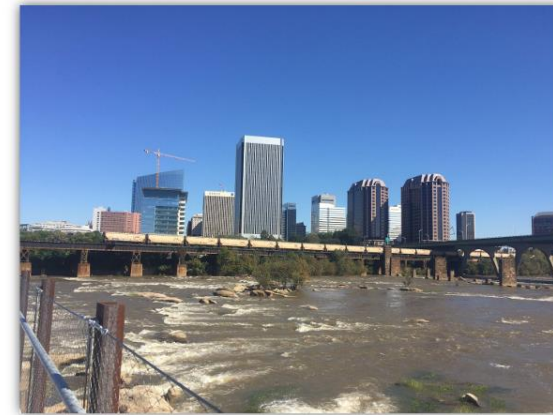
Overlays Health Opportunity Index

Jurisdiction Based Approach

Next Steps

Richmond Regional Transportation Safety Plan

February 2022



Prepared for:



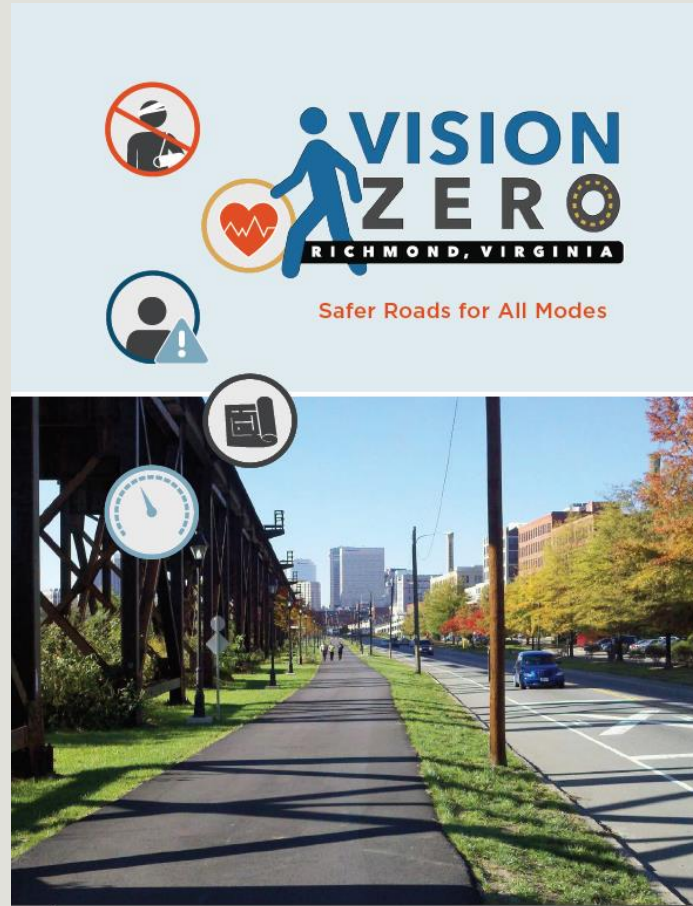
Prepared by:



Develop Vision Zero Action Plans

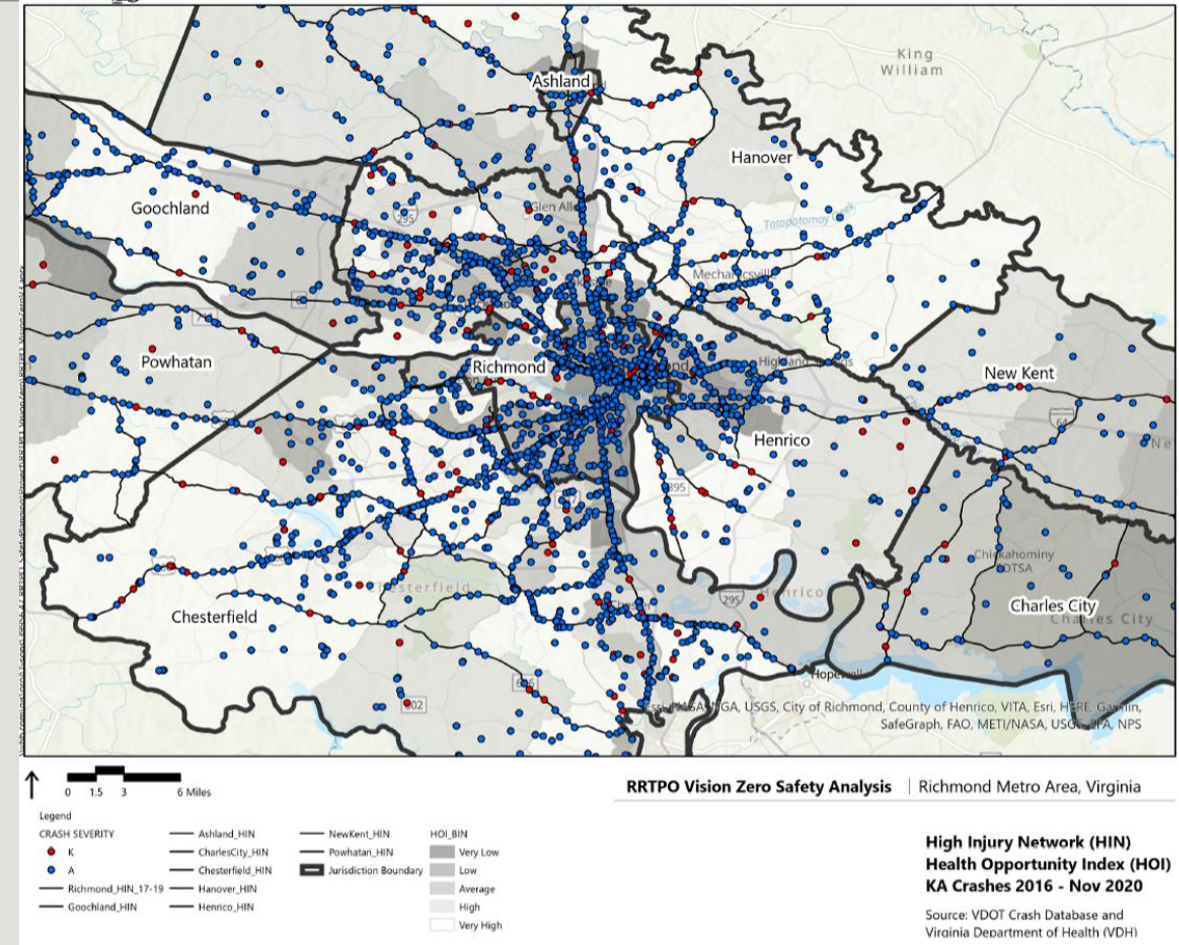
Safe Streets and Roads for All Federal Grant:

- Chesterfield County \$350,000
- City of Richmond \$950,000
- Henrico County \$400,000



Focus on Our Region's High Injury Network

Jurisdiction	KA Crashes	Miles
Ashland	72%	6 (5%)
Charles City	84%	55 (16%)
Chesterfield	60%	152 (7%)
Goochland	66%	82 (13%)
Hanover	59%	113 (8%)
Henrico	63%	131 (6%)
New Kent	66%	55 (11%)
Powhatan	70%	81 (16%)
Richmond	67%	59 (5%)

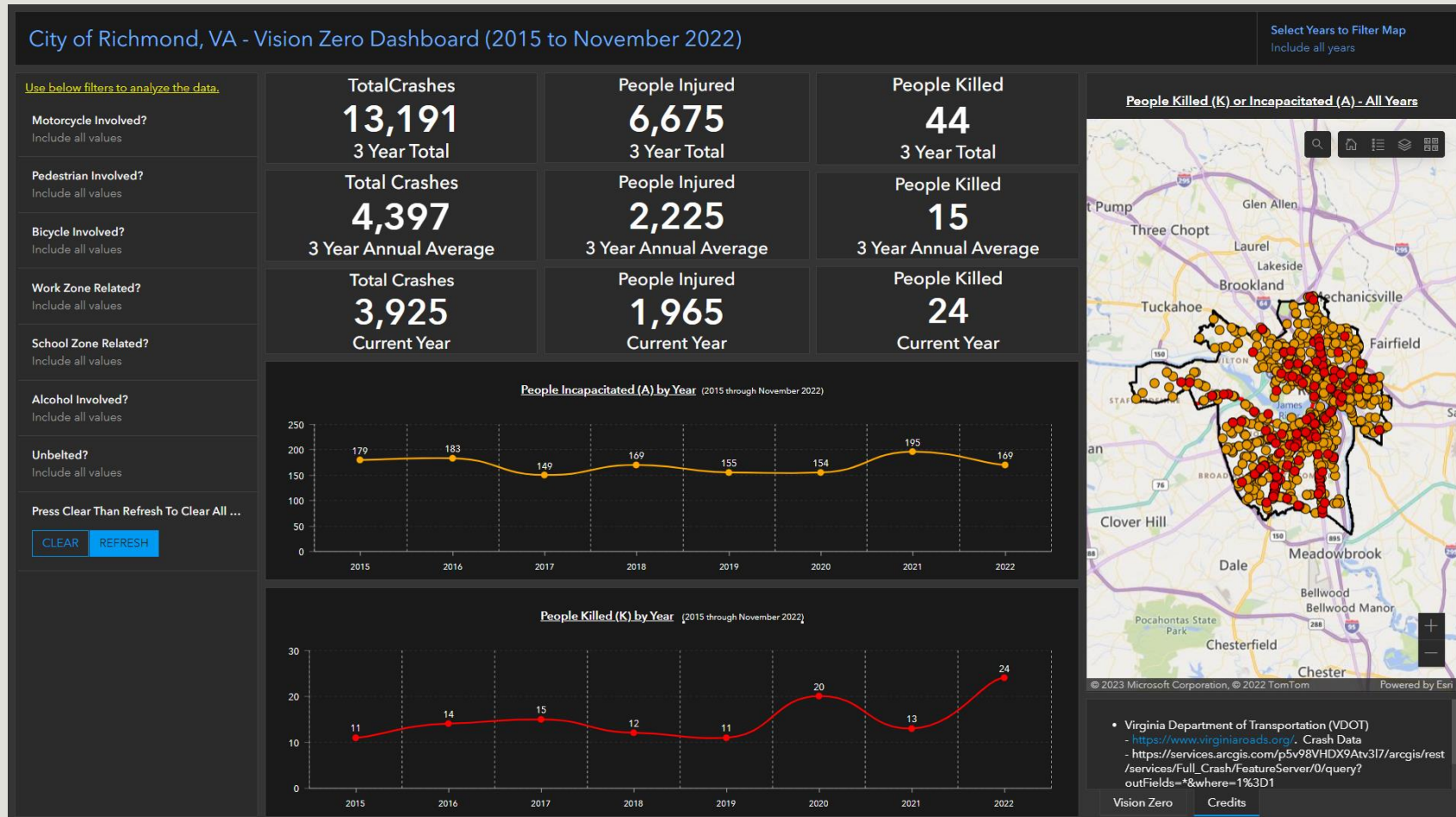


Establish Yearly Regional and Local Priorities and Metrics

Year Five Priorities - FY23 Vision Zero Production Metrics					
No.	Action	Category	Lead Organization	Metric	Status
I-1	Establish and maintain right-sized law enforcement practices, traffic unit personnel, and equipment needs based upon national best practices.	Executive	RPD	# of FTEs by shift dedicated to safety enforcement; # of citations for top 5 crash related actions on HISN	In progress.
I-2	Create messaging on HISN to promote safe speeds and compliance with traffic laws.	Executive / Cultural	PIE, DMV	# of messages per month	In progress. Speed Management Pilot.
I-3	Implement safety treatments on the high injury street network.	Executive	DPW	# safety treatments on HISN	In progress.
I-4	Conduct strategic, multi-modal high visibility enforcement campaigns with educational components that are designed to reach all users of the transportation system, particularly stopping behavior for people crossing the street.	Executive / Cultural	RPD, PIE, NPO, SHSC	# of campaigns by dangerous behavior (OP, DUI, Yielding Behavior, and Speed)	In progress. Speed Management Pilot.
I-5	Provide a parity of transportation choices for all users through a complete streets approach which allows for multiple modes to make the same trip safely.	Executive	DPW	# lane miles of bike infrastructure	In progress. 66 miles implemented with 16 miles designed and 19 miles under design.
I-6	Provide safe access to transit stops on HISN partnering with GRTC.	Executive	GRTC / DPW	# accessibility treatments on HISN	In progress.
I-7	Encourage the passage a 0.05 BAC limit in Virginia.	Legislative and Budget	SHSC / VZC	Law adopted	FY23 General Assembly
I-8	Deploy photo enforced cameras to reduce speed and red light running.	Executive	RPD	# of Enforcement Tools Deployed	In progress.
I-9	Encourage the passage of a primary seat belt law for all vehicle occupants	Legislative and Budget	SHSC / VZ Coordinator	Law adopted	FY23 General Assembly
I-10	Work with the Commonwealth Transportation Board and Virginia First Cities to establish street maintenance funding levels for cities and towns based upon an asset management program approach.	Legislative and Budget	CAO / DPW	Access management approach adopted	In progress. JLARC report confirmed.



Establish a Regional Vision Zero Dashboard



Issue a challenge to the public

Safe and Healthy Streets Challenge

- **Share the Road**
- **Obey speed limits**
- **Buckle in**
- **Avoid Distractions**
- **Drive Sober**

If we did these five things, it would not be **SO BAD....**



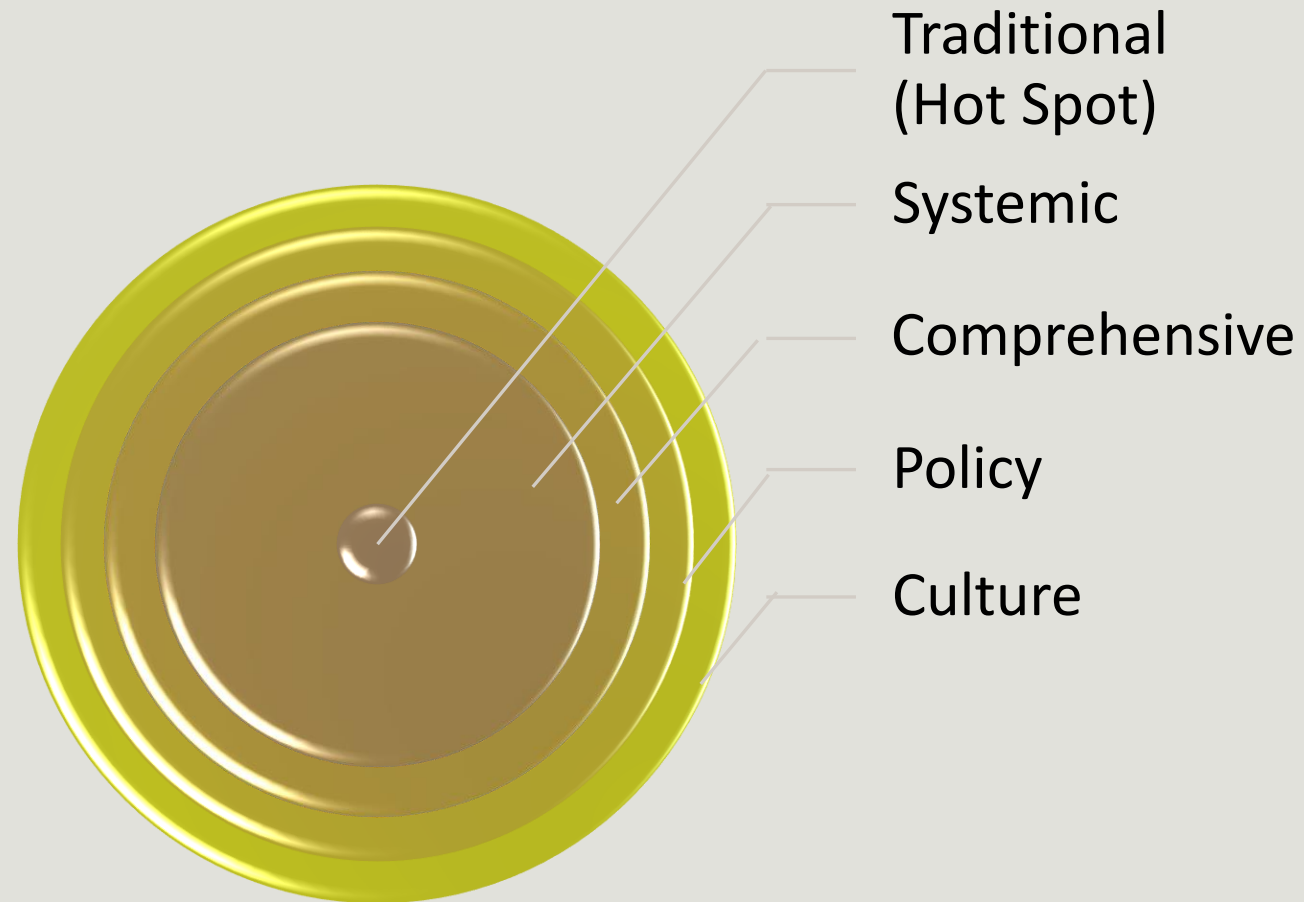
Coordinate Regional Public Outreach

Coordinate a transportation safety calendar to promote safety messaging and high visibility enforcement.

- JANUARY People who walk
- FEBRUARY People who drive unbelted
- MARCH People who cross railroads
- APRIL People who work in our roads
- MAY People who bike



Adopt a Vision Zero Pledge to shape Workplace Culture



Push Key Safety Legislation – Commonwealth of Virginia

- A. Primary Seat Belt Law for all occupants
- B. Reckless Driving Threshold in 25MPH zones
- C. Expanded Photo Speed Enforcement
- D. 0.05 Blood Alcohol Concentration
- E. Stop signs as Yield for Bicyclist



Speed versus Height



Speed and Heights



But my vehicle has FIVE Stars

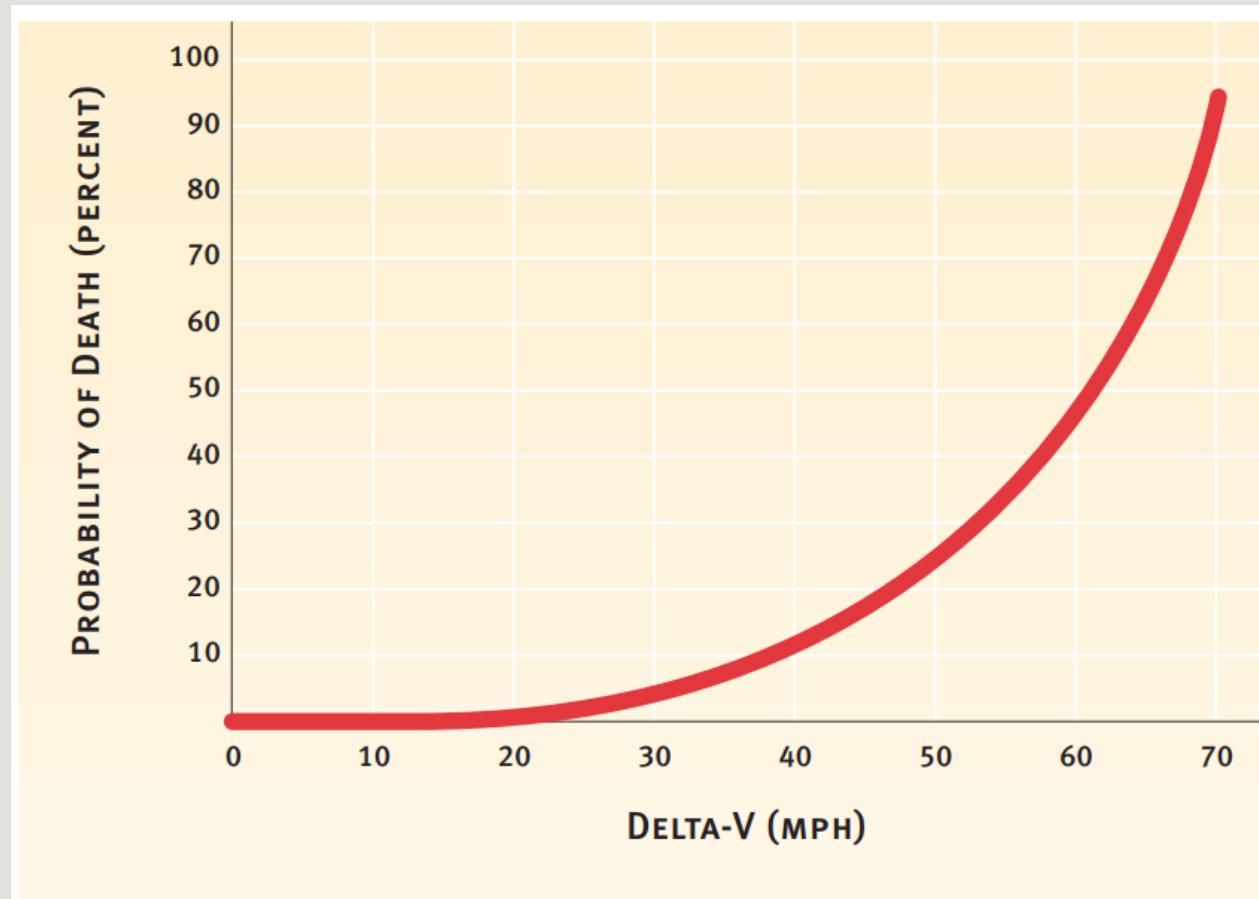


5-Star Safety Ratings

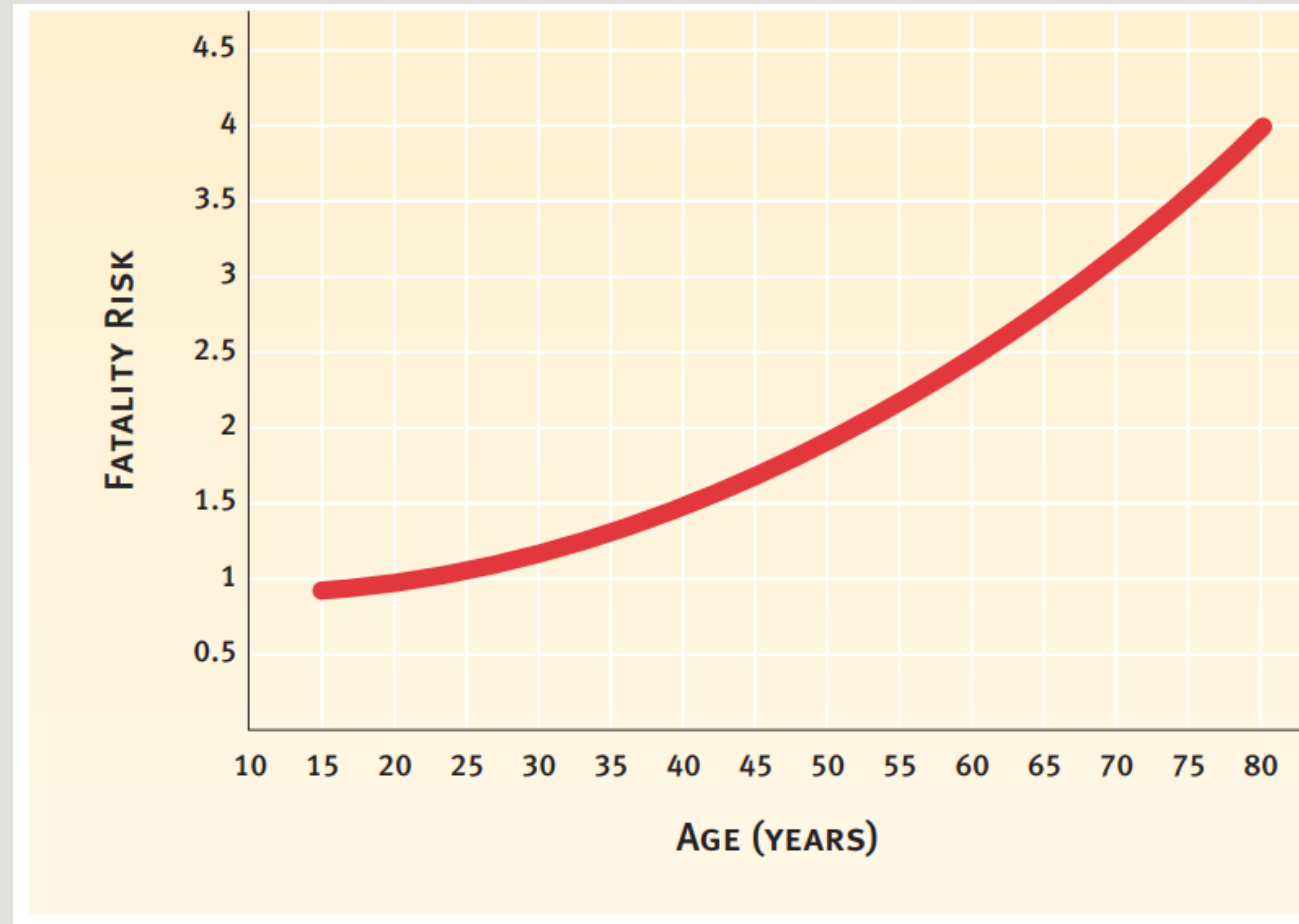
More Stars. Safer Cars.



Speed and Severity



Same impact – Different Age



What do these have in common?

Unbelted daughter in a motor vehicle

Son crossing street to go to school

Mother riding motorcycle

Dad riding bicycle

Grandmother jogging

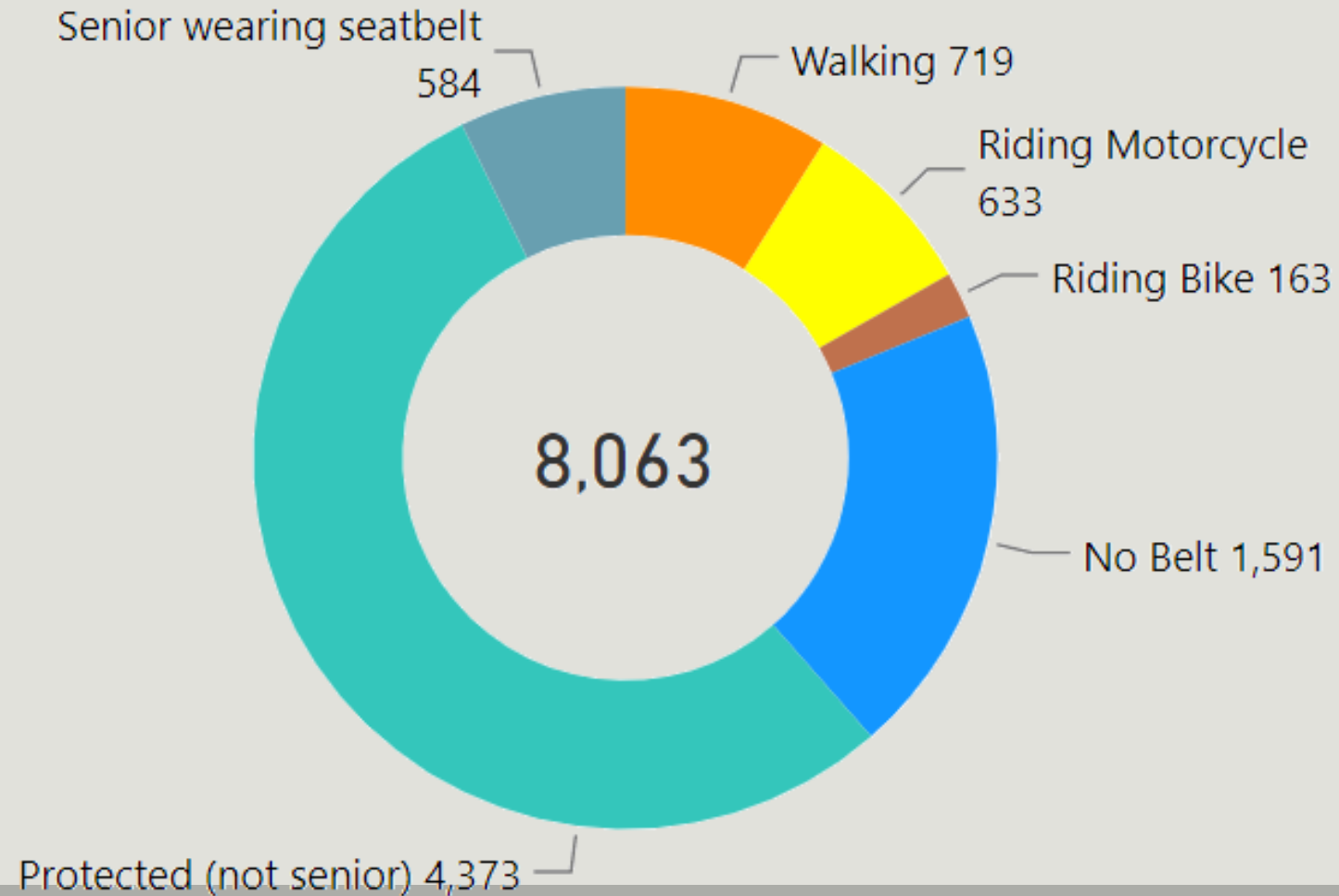
Grandfather buckled in back seat at 40MPH

Dog running out front door

Deer crossing to the field



Who is vulnerable on our streets?



The background is a dark blue-tinted photograph of a residential street at dusk or dawn. Several cars are parked along the right side of the road. In the foreground, a large, light blue bicycle symbol is painted on the asphalt, indicating a bike lane. The text is overlaid on this image.

2023 Richmond Regional Transportation Planning Organization (RRTPO)

TRANSPORTATION FORUM



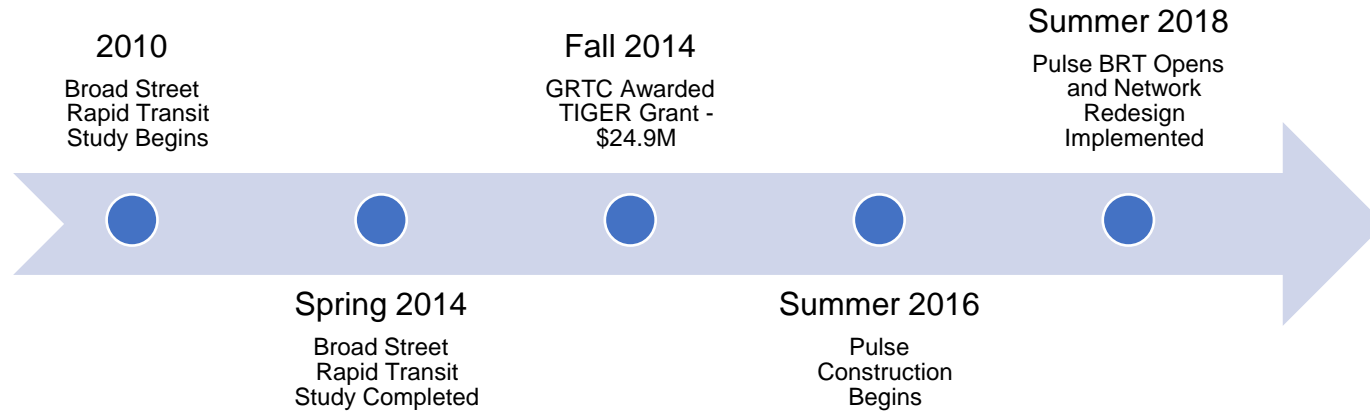


Planning for Expansion

Adrienne Torres, Chief of Staff

March 17, 2023

Planning for Expansion Pulse BRT



Regional Collaboration



Pulse BRT

Successful Regional Collaboration



Sean Baucum



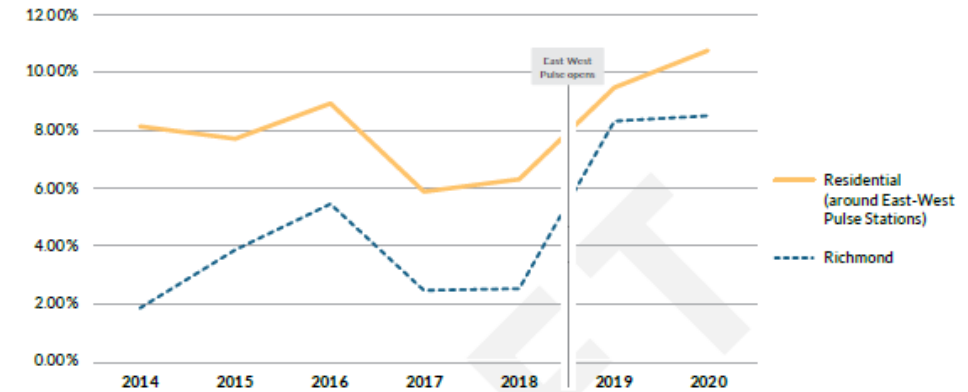
DRPT



Pulse BRT Successful Regional Collaboration

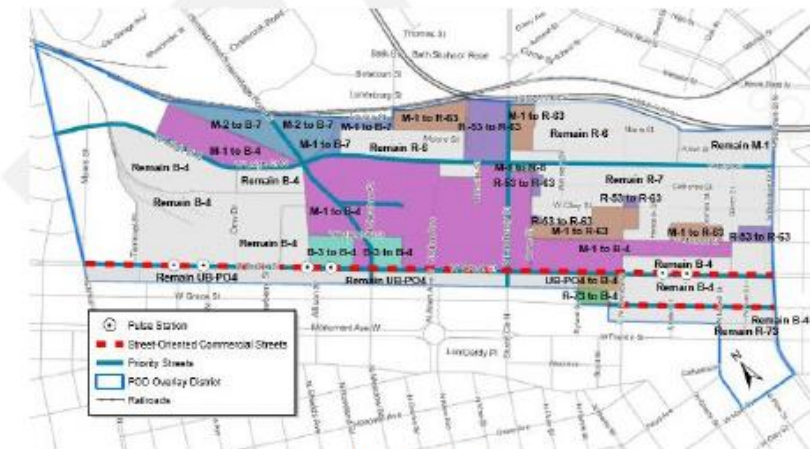


GROWTH IN PROPERTY VALUES WITHIN A QUARTER MILE OF PULSE STATIONS



Greater Washington Partnership & City of Richmond Parcel Assessment Data

PULSE CORRIDOR PLAN REZONING – SCIENCE MUSEUM, ALLISON STREET, VCU & VUU STATION AREAS



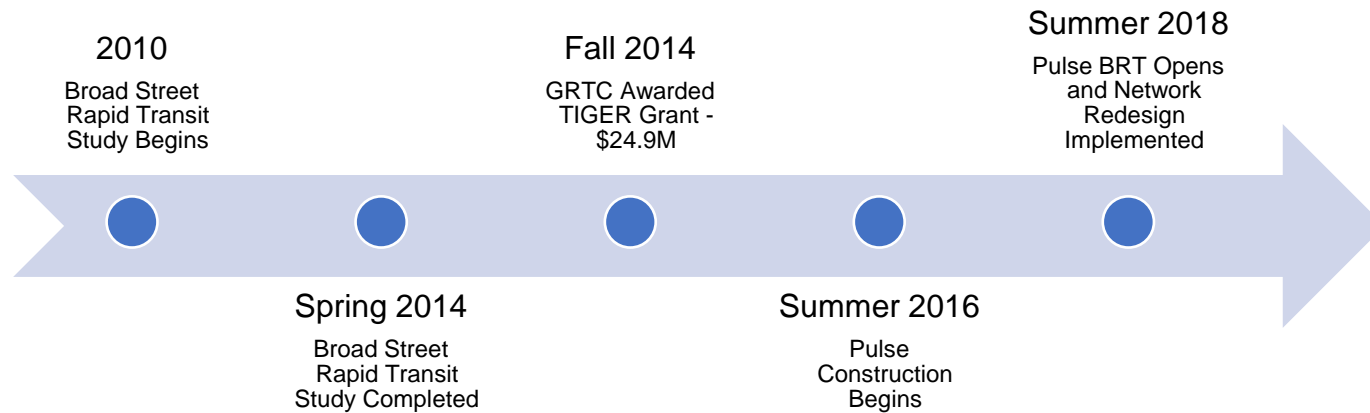
PDR/City of Richmond

Pulse BRT Successful Regional Collaboration

- GRTC awarded funding for 6 articulated buses (DRPT MERIT and SMARTSCALE)
- Spring 2023 – begin design followed by construction for BRT platform modifications
- Summer 2023 – Order vehicles (18 months to arrive)
- Purpose: alleviate capacity concerns on the Pulse with more seats and standing room

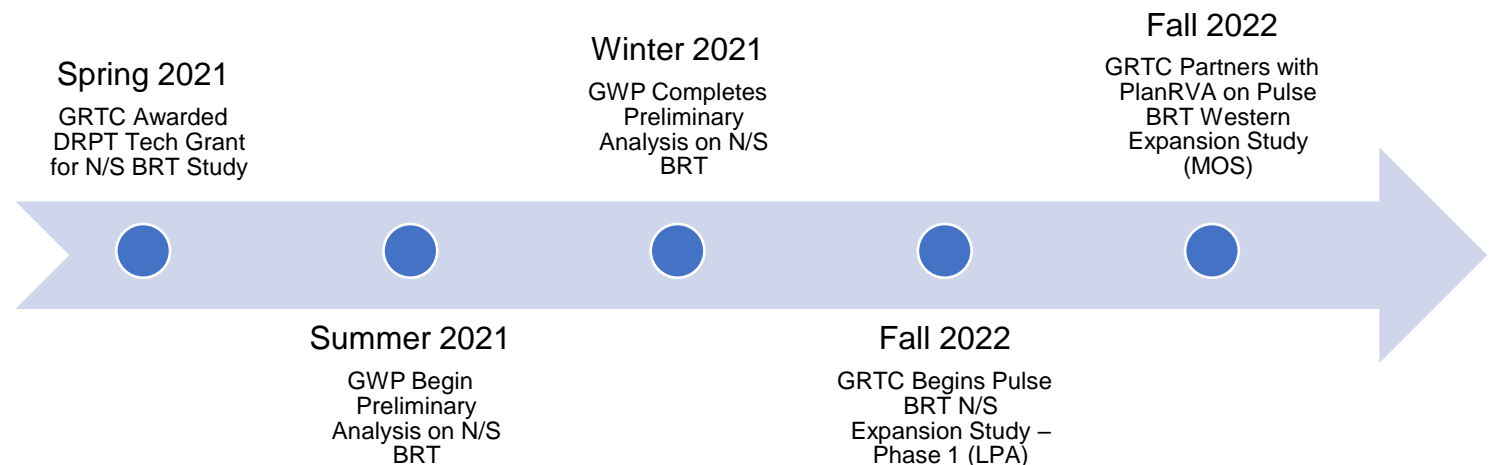


Planning for Expansion



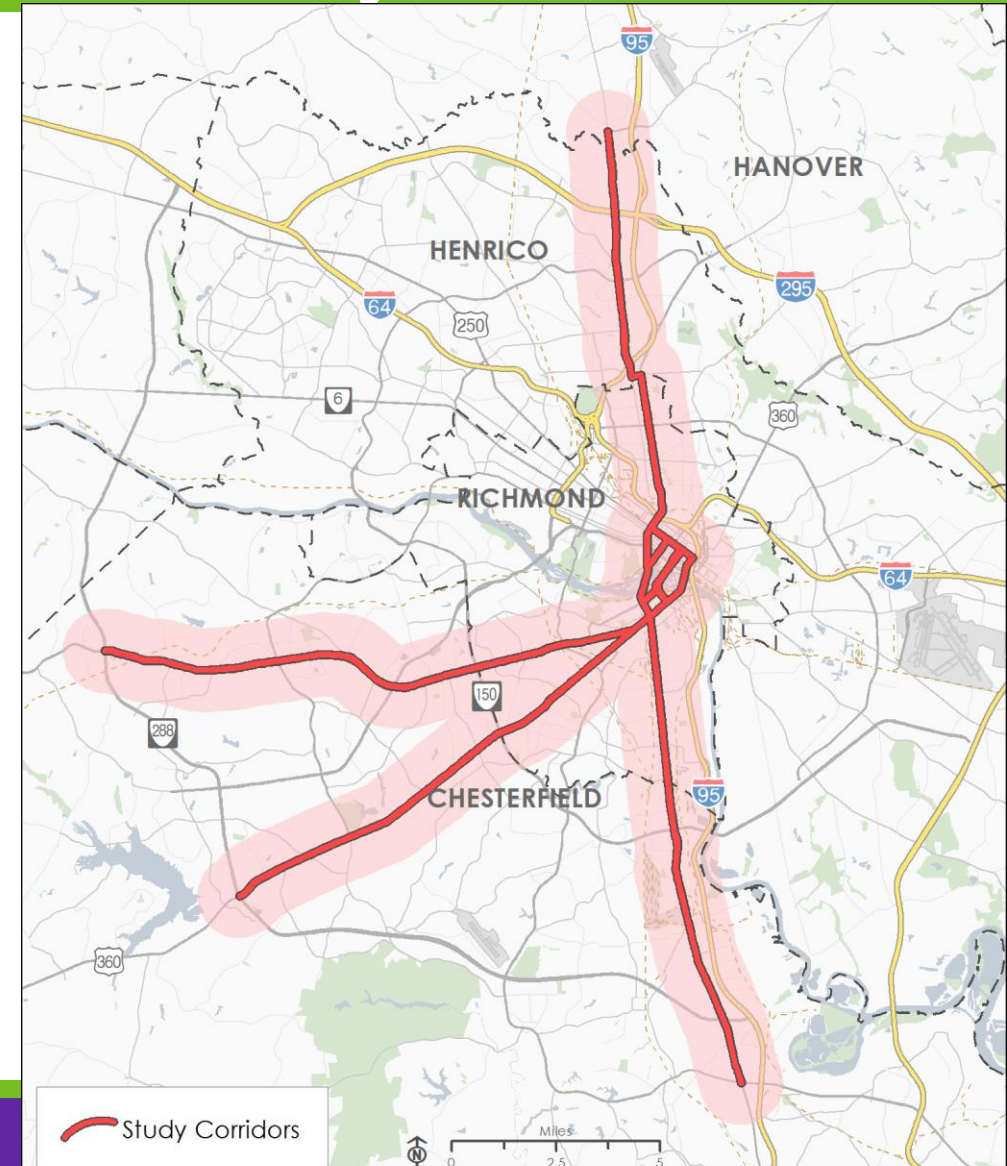
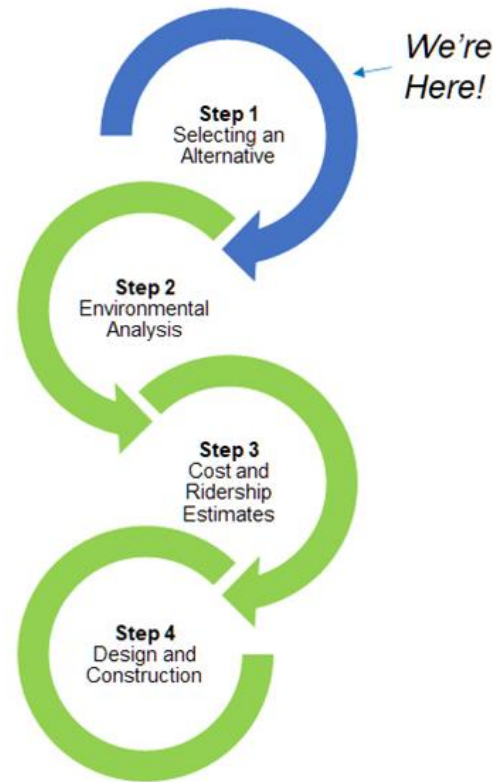
Regional Studies Supporting Expansion

The Pulse Corridor Plan - 2017
Greater RVA Transit Vision Plan - 2017
Greater RVA Transit Vision Plan: Near-Term Strategy Technical Analysis - 2020
Richmond 300 Master Plan - 2020
Connect RVA 2045 - 2021
GRTC Regional Public Transportation Plan - 2021



Planning for Expansion North-South Pulse BRT Corridor Study

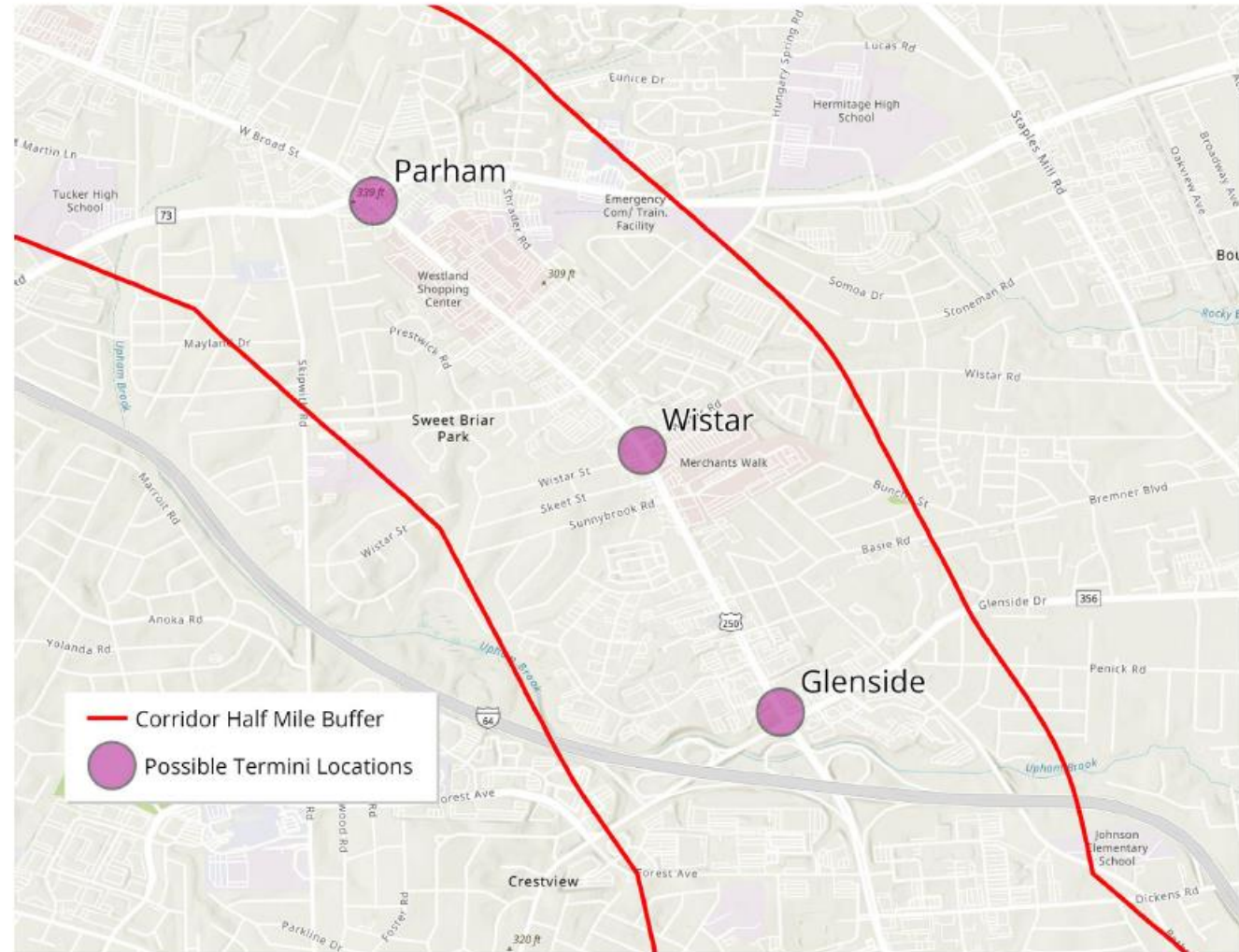
- Evaluate options for creating a North-South BRT line that would connect to the existing Pulse
- Engage the community



Planning for Expansion

Pulse BRT West Extension Corridor Analysis

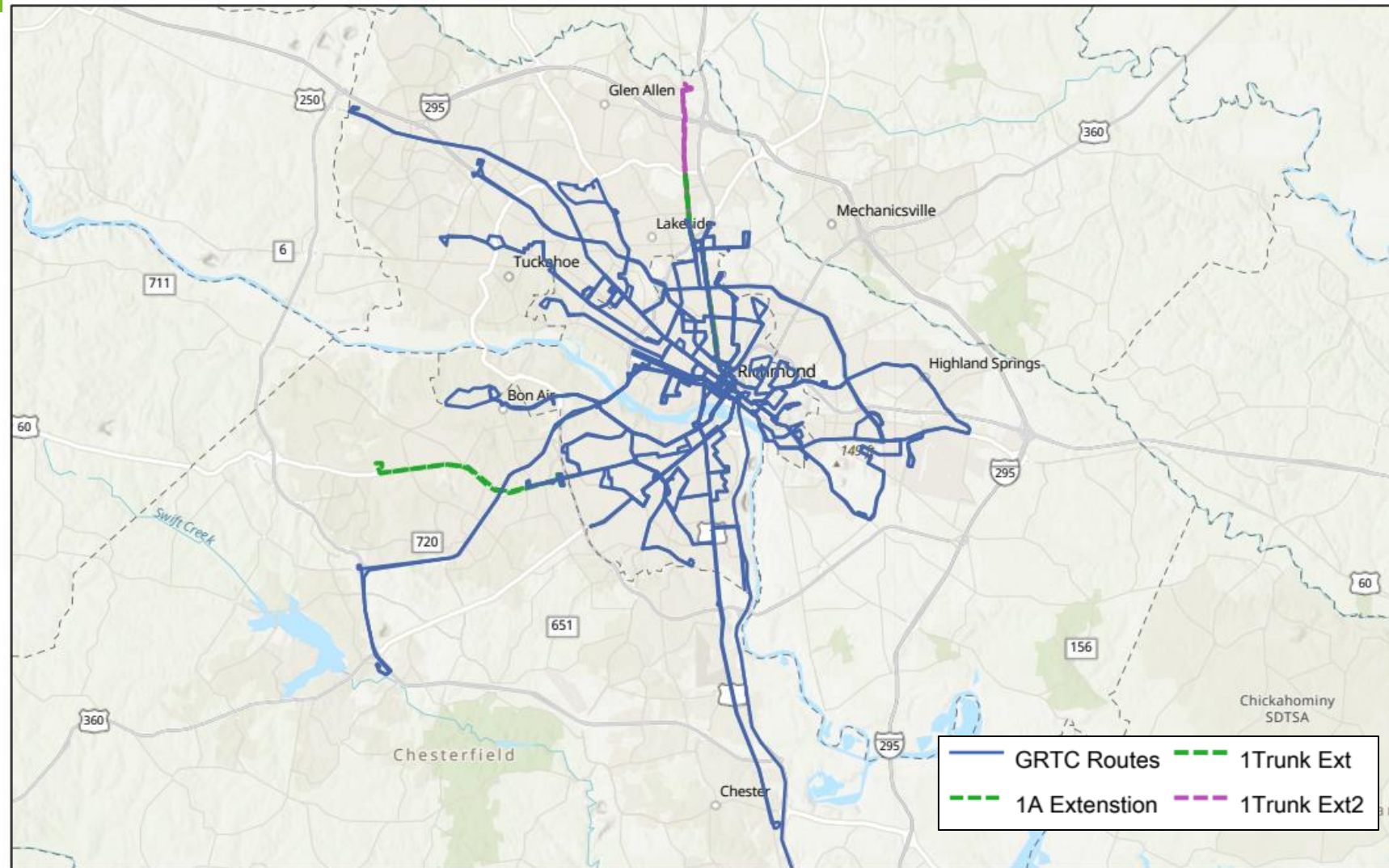
- Identify a minimum operable extension in partnership with PlanRVA
 - Survey
 - Transit Propensity
 - Traffic Analysis
 - MOS Options
 - Economic Impact
 - Park and Ride Potential
- Future phases:
 - Detailed traffic/ridership analysis
 - Environmental clearance
 - Design/construction



Planning for Expansion

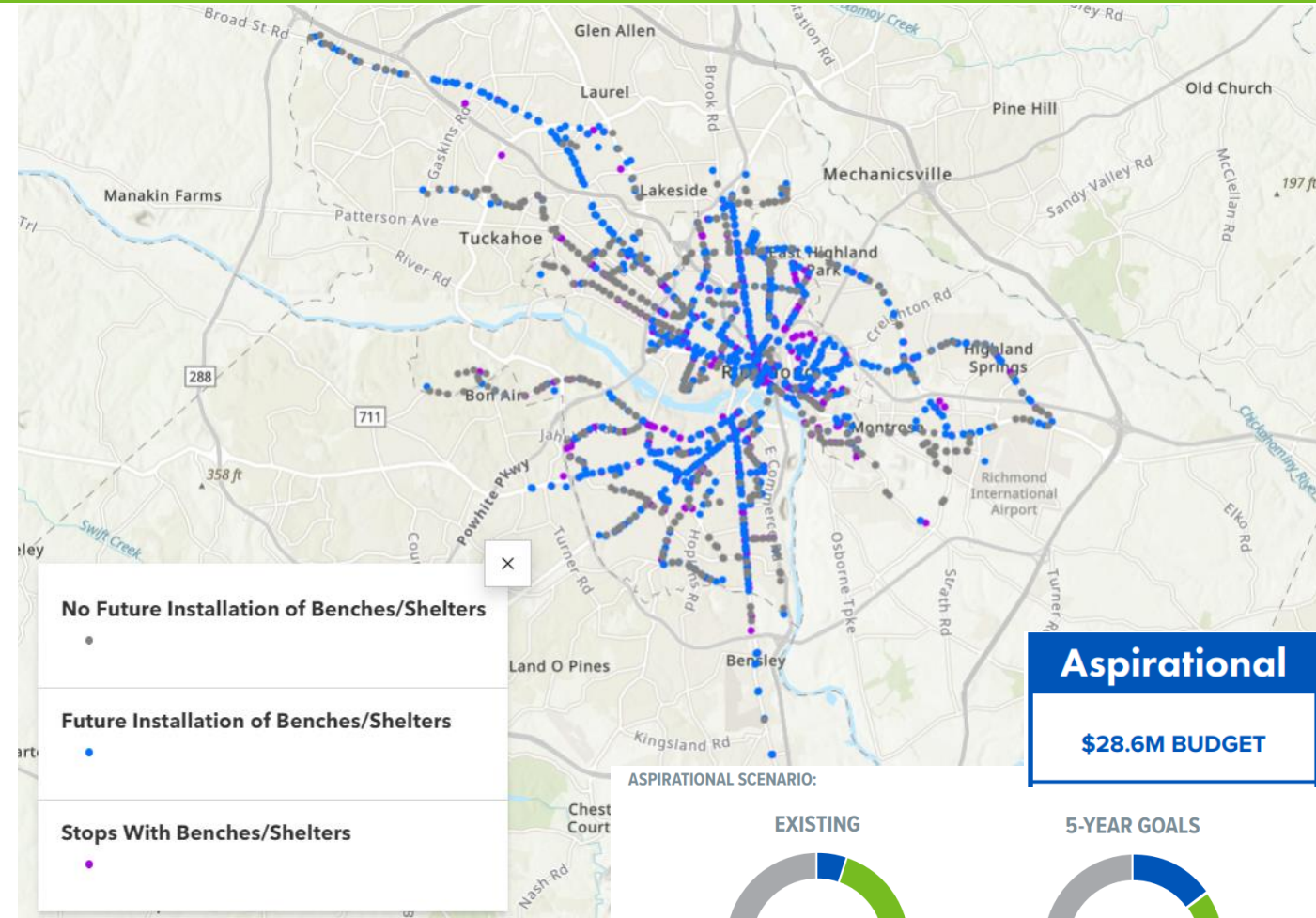
Prioritized Fixed Route Expansion

- Route 1A – Midlothian Turnpike Extension
- Route 1 North – Brook and Parham (Ext. 1)
- Route 1 North – Green Cities/VCCS (Ext. 2)



Planning for Expansion Essential Transit Infrastructure (ETI) Plan

- Investment in Infrastructure Improvements
- GRTC has 1600+ bus stops
 - 26% have a bench or a shelter
- GRTC Board adopted aspirational goal in Summer 2022
 - Increase percent of bus stops with a bench or shelter to 75% with a five-year goal






Planning for Expansion Downtown Transfer Station

- Temporary Location – 8th and Clay
 - 12 bus bays
 - Shelters, trashcans, benches
 - Wayfinding E-signs
 - Lighting Improvements
 - Supervisor parking
 - Operator restrooms
 - 6,000 bus patrons daily
- Opening Spring 2023
- Service to the transfer station all day
- Several route changes to better connect

Need for permanent location to support seamless connections to Local and Pulse



Planning for Expansion

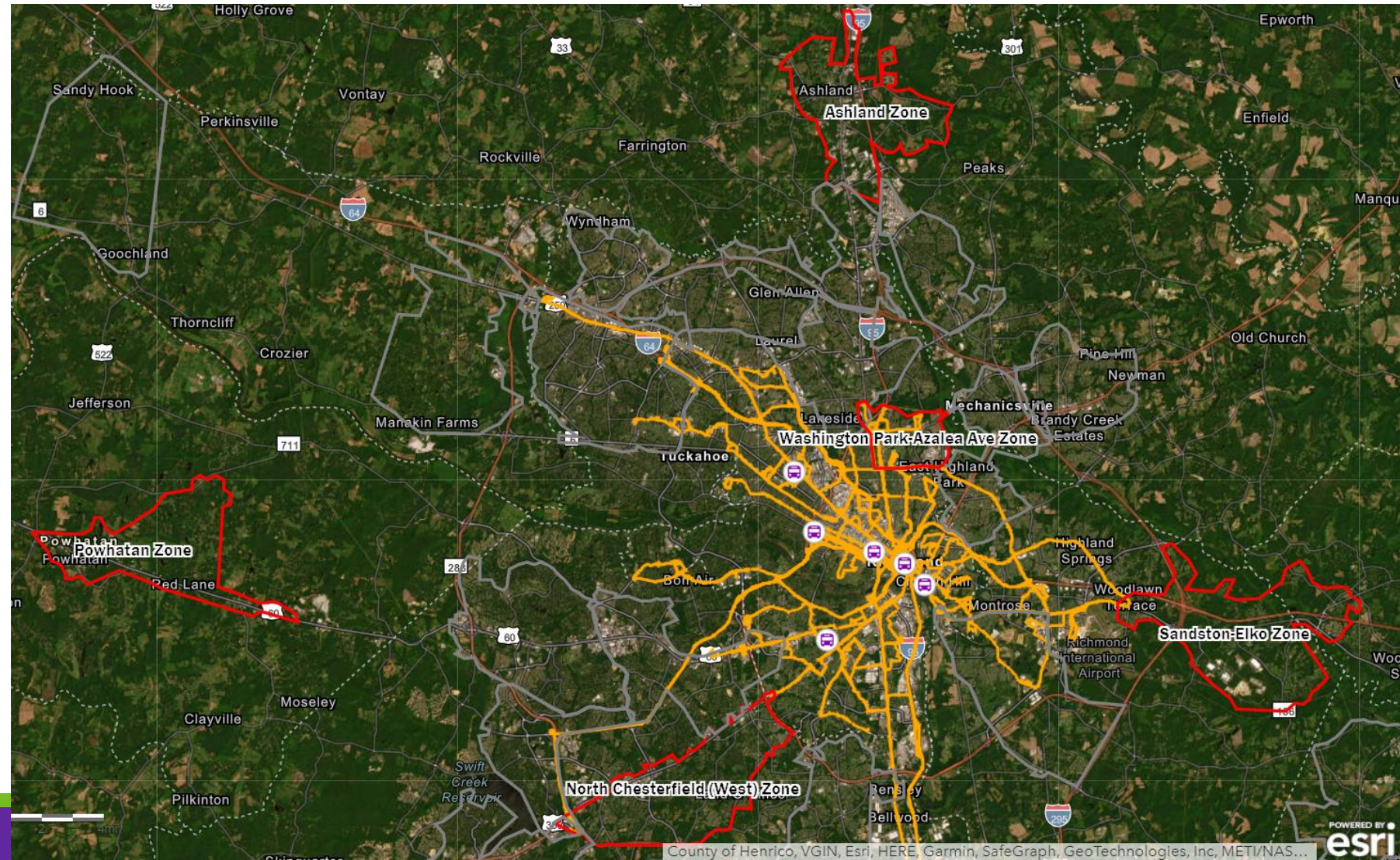
 TRANSIT AND MULTIMODAL TRANSPORTATION INFRASTRUCTURE	 AFFORDABLE HOUSING AND COMMERCIAL BUSINESS SPACE	 TRANSIT-SUPPORTIVE LAND USES
<ol style="list-style-type: none">1. Enhance Transit Service and Implement a Phased North-South BRT Project2. Buildout a Safe and Connected Sidewalk Network3. Upgrade Bus Stops and Shelters4. Plan for Seamless Downtown Pulse Connectivity and County Transit Expansion5. Create and Execute a Bus Operator Recruitment & Fleet Expansion Strategy	<ol style="list-style-type: none">1. Create Specific Goals for Affordability and Access to Frequent Transit2. Leverage Private Funds with Public Money to Create More Affordable Housing Units3. Expand the Toolkit of Incentives to Develop Mixed-Income Communities4. Targeted Rental and Property Tax Relief for Low-Income Residents and Seniors5. Provide Grants and Technical Assistance to Support Existing Small Businesses6. Explore Zero Fare and Equitable Fare Strategies for GRTC Operations	<ol style="list-style-type: none">1. Concentrate Density Along Potential Corridors2. Diversify Land Uses Along Potential Corridors3. Secure Public Benefits with Density Bonuses4. Plan Transit Stops as Hubs of Activity

Greater Washington Partnership

Planning for Expansion Micro-transit

What is Micro-Transit

- Technology-enabled
- On-demand
- Public Transportation
- Smaller Vehicles
- Similar to Uber/Lyft
- Ride-sharing
- General Public
- Phased Implementation in FY2024





Questions?

Adrienne Torres, Chief of Staff



The background of the slide is a photograph of a residential street at dusk or dawn. Several cars are parked along the right side of the road. In the foreground, a large, light blue bicycle symbol is painted on the asphalt, indicating a bicycle lane. The overall scene is dimly lit, with a blue tint applied to the entire image.

2023 Richmond Regional Transportation Planning Organization (RRTPO)

TRANSPORTATION FORUM





BEYOND THE BOUNDS OF
TRADITIONAL DEVELOPMENT



THE CURRENT - BEFORE



THE CURRENT - AFTER

THE HARD THING ABOUT HARD THINGS

BEN HOROWITZ

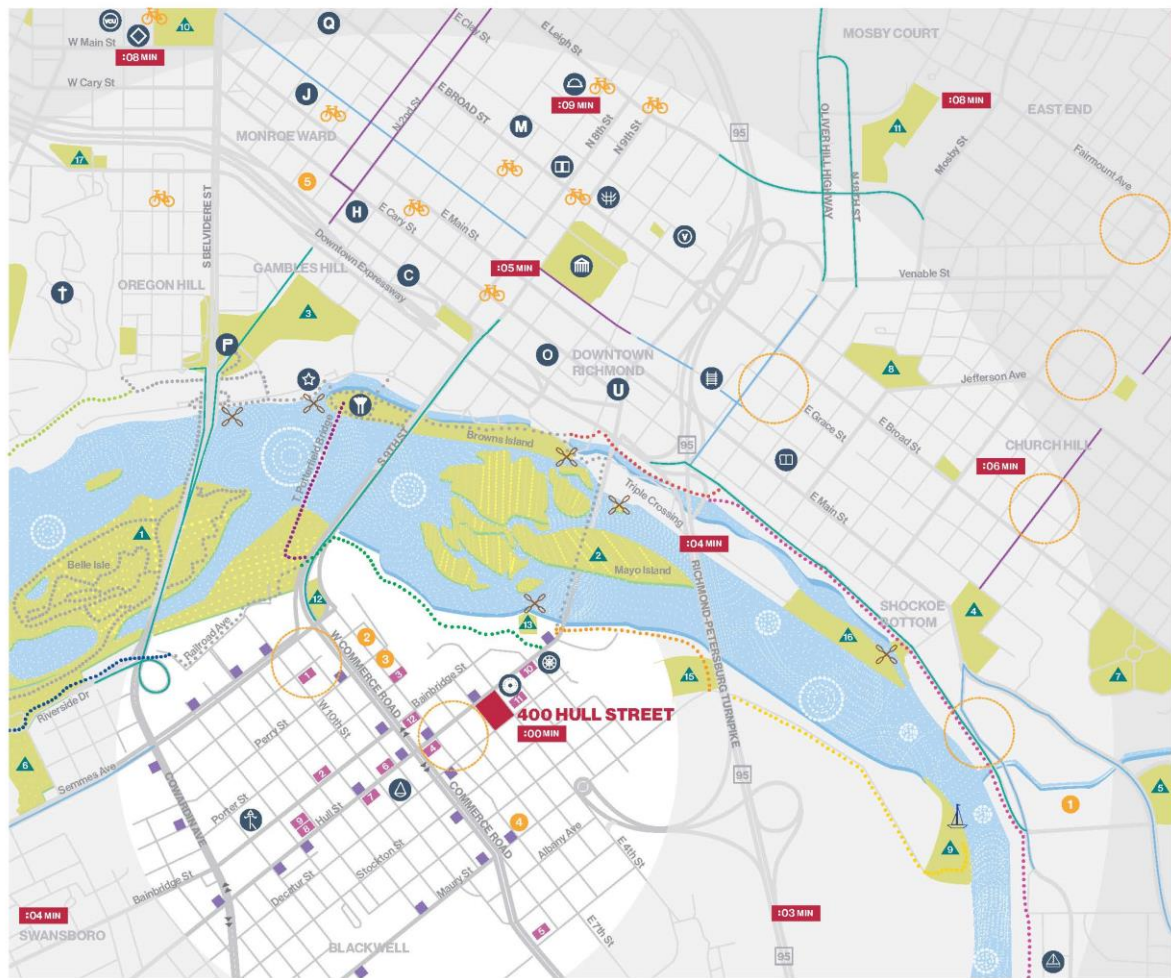


“It’s winter. Plants don’t grow. I’m having a fight about books right now because I decided at my age that there are so many things you want to read, you can’t do it. So, do you just give up and read nothing? Or do you go into high gear and read everything you can find? I just wanted to throw that out there. When you’re out long, that’s what your mind does. You start thinking about weird things.”



BE BOLD

Define Success Metrics



400 HULL STREET

CULTURAL / HISTORIC

- Richmond Railroad Museum
- American Civil War Museum
- Virginia War Memorial
- Edgar Allan Poe Museum
- Virginia State Capitol
- Hollywood Cemetery
- The National
- Altria Theatre
- Richmond Coliseum
- Plant Zero
- City Hall
- District Court

ENTERTAINMENT

- Brown's Island
- Dogtown Dance Theatre

TRANSPORTATION

- Main Street Station
- Bus Stop
- GRTC

BIKE LANES

- Bike Share Locations Phase I
- Bike Share Service areas Phase II
- Completed
- Indesign
- Funded

BOAT LUNCH

- Ancarrow's Landing

BOAT SLIPS

- Rockett's Landing

KAYAK / CANOE ACCESS

- Triple Crossing

DRIVING TIME

- Driving Time

TRAILS

- T. Potterfield Bridge
- Manchester Floodwall
- Buttermilk Trail
- Canal Walk
- Richmond Slave Trail
- Virginia Capital Trail
- North Bank
- Connecting Trails

EDUCATION

- VCU Medical
- VCU MP Campus

LODGING

- The Omni
- Crowne Plaza
- Holiday Inn Express
- The Jefferson
- Quirk Hotel
- Richmond Marriott
- Courtyard by Marriott

RESTAURANTS

- Iron Clad Pizza
- Brewers Cafe
- Camden's
- McDonald's
- Sisters Cafe
- Caribbean Chef
- Croaker's Spot
- Sand-a-Chef
- Vibes Cuisine
- Papa's Pizza
- Plant Zero Cafe
- Zala Cafe

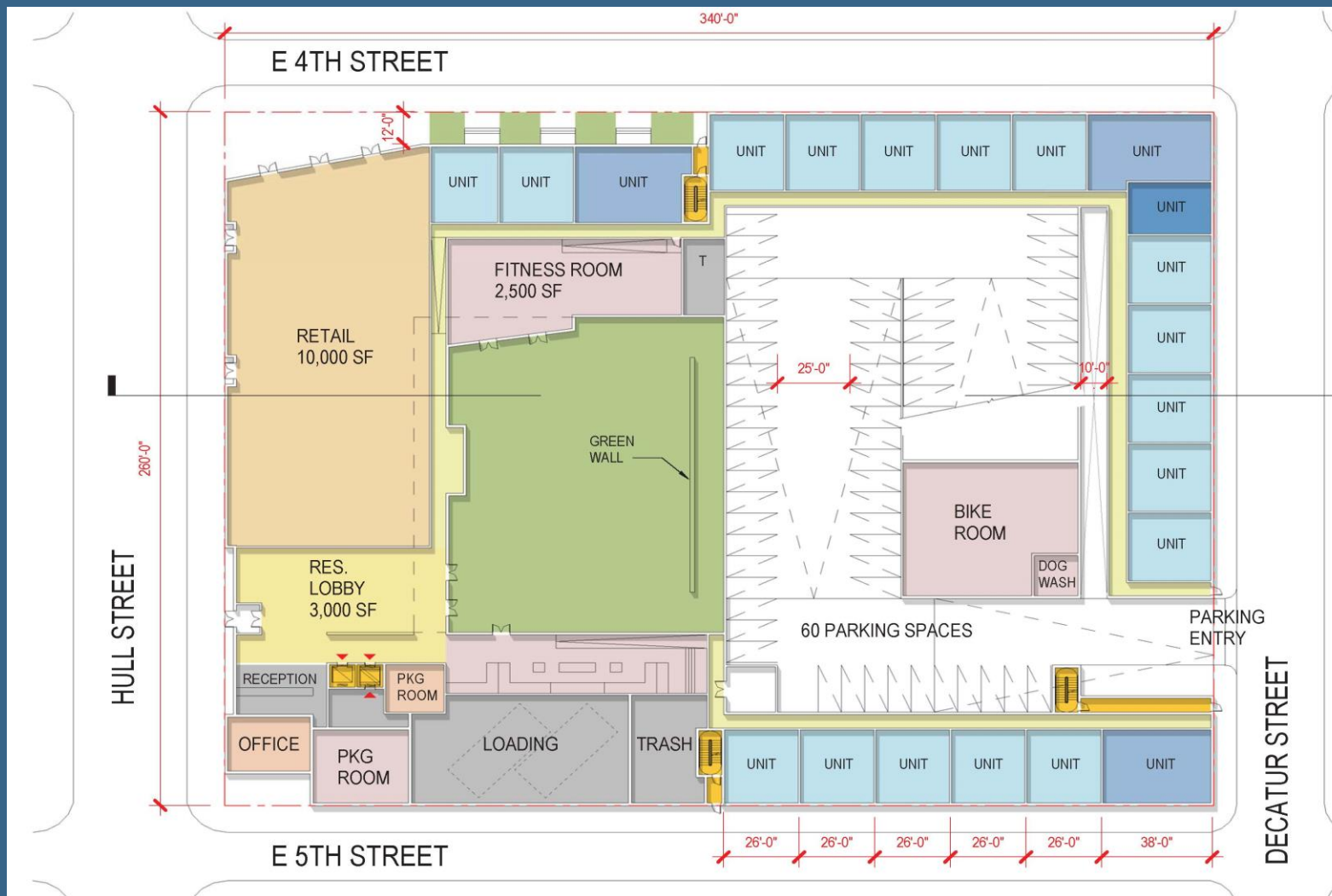
BREWERIES

- Stone Brewing
- Legend Brewing
- Twisted Alas
- Belle Isle Craft Spirits
- Triple Crossing

PARKS

- Belle Isle
- Mayo Island
- Gambles Hill Park
- Libby Hill Park
- Gillies Creek Park
- Canoe Run Park
- Chimborazo Park
- Jefferson Park
- Ancarrow's Landing
- Monroe Park
- Parker Field
- Climbing Wall
- Floodwall Park
- Great Shiplock
- Retention Basin Park
- Chapel Island Park
- Grace Aron's Community Garden







Parking Cost

Surface

\$5,000/space

Precast

\$18,500/space - \$24,000/space

Cast-in-Place

\$45,000-\$65,000/space – above grade

\$55,000-\$85,000/space – below grade

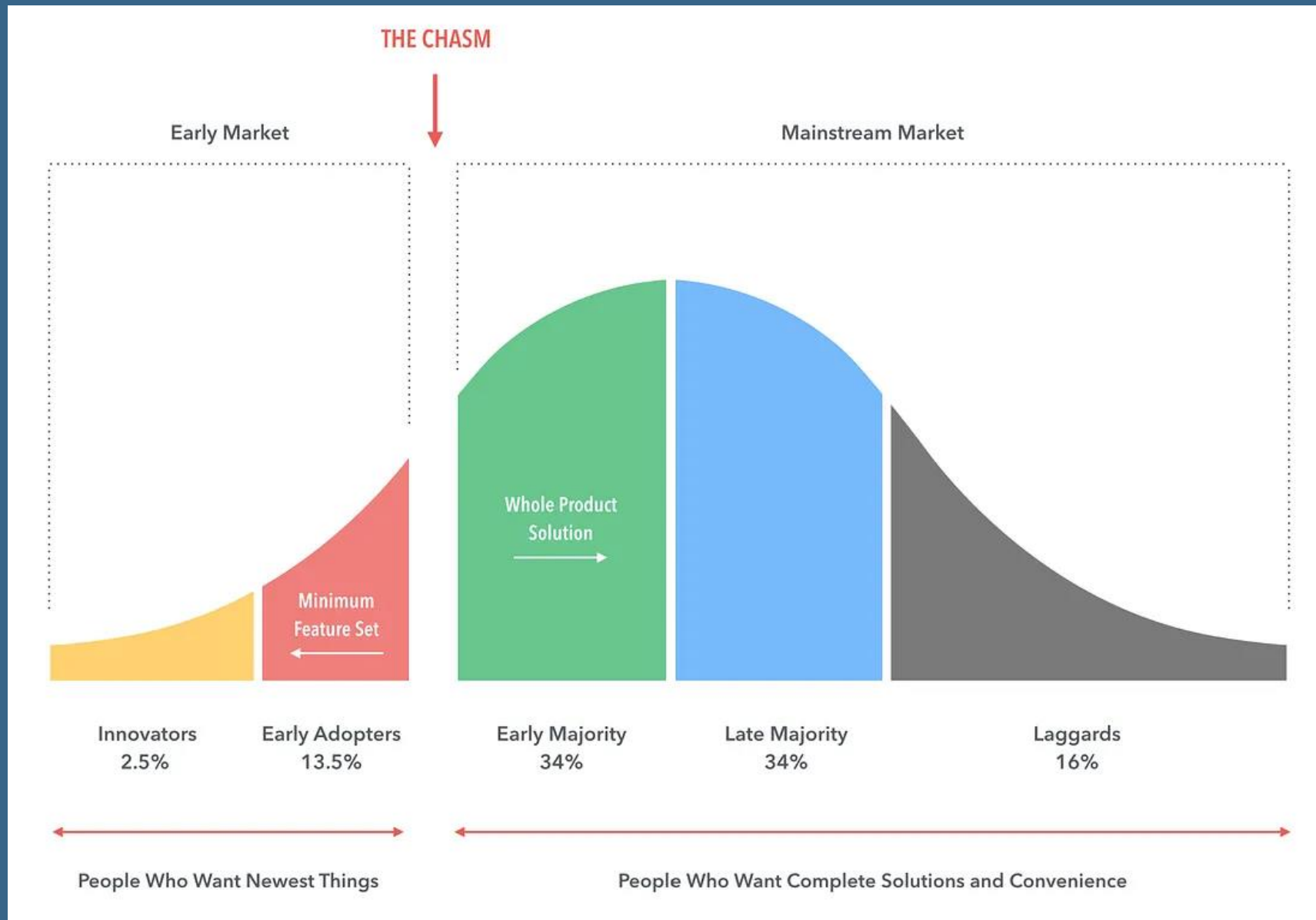
BE TENACIOUS

Develop a Sales Strategy



"We don't try to convince people very often, honestly. I think it's overblown like we're going to have some sort of sales deal. We tried to sell Jason Kidd, and it didn't work. We had Mariachis and everything, I think. All kinds of stuff. After that, I decided never again."

"I'm seeing a little bit of unconfidence, a little hesitation. It's not supposed to be easy. Every round gets tougher. Penetrate hard. Good passes. Shoot with confidence. I want some nasty!"



≥ 20%

affordable housing units reserved for households earning up to 80% AMI



improved public access to the James River Parks System, especially the Retention Basin Park, Diversity Park, the Manchester Canal and Climbing Wall, and the Potterfield Bridge

≥ 90

parking spaces available for public use



streetscape improvements will include burying existing overhead utility wires, installing new landscaped sidewalks, and making various pedestrian-friendly improvements

≥ 25

public parking spaces will be equipped with electric vehicle(EV)chargers



wayfinding signage to help direct residents and visitors to area attractions like the Richmond Slave Trail and the Virginia Capitol Trail.

≥4,400

square foot landscaped public courtyard with outdoor seating and gathering spaces



we commit to hiring minority-owned businesses for at least 25% of the project's construction cost



we will work with the City's Office of Community Wealth Building to help Richmonders in need of employment find construction-period and permanent positions



323 parking spaces with EV
Charging



60,000 sf new Class A office space



Landscaped courtyard and
streetscape



215 best-in-class
apartments



19,000 sf retail + restaurants





One of the keys to success is to have an unwavering focus on the task at hand. Whenever we pour all our energy and time into something, it is almost always guaranteed that we will win. After all, being distracted and focusing on unimportant things will only hinder and hold you back.

BE INTENTIONAL

Enable Effective Partnerships

DESIGN

Architect	Base Bldg	Hickok Cole Architects
Architect	Office Fit-up	ENV
Architect	Hatch Local	Fultz & Singh
Architect	Benchtop	Smith Sinnett
Civil Engineer	Base Bldg	Kimley Horn
MEP Engineer	Base Bldg	Metropolitan
MEP Engineer	Office Fit-up	O'Neil Engineering
Structural Eng.	Base Bldg	Structura
Structural Eng.	Parking	Metromont
Geotech Eng.	Base Bldg	Froehling & Robertson
Spec Writer	Base Bldg	Bethel Specification
Lighting	Hatch Local	JJM
Constr Advisory	Base Bldg	Structr Advisors
FF&E	Amenities	Greystreak
FF&E	Fitness	Matrix Fitness
FF&E	Hatch Local	IBI
LV/AV	Base Bldg	ProductiveAV
Signage	Base Bldg	Gropen
ADA Consultant	Base Bldg	LCM Architects
Envelope	Base Bldg	Seal Engineering
Survey	Base Bldg	Jennings Stephenson

CONTRACTORS

GC	Base Bldg	KBS
GC	West Creek	UrbanCore
GC	Hatch Local	ML Bell
Landscape	Base Bldg	Ruppert
Artwork	Base Bldg	Heide Trepanier
Sculpture	Base Bldg	Maurice Beane Design
Telecom	Base Bldg	Comcast

FINANCING

Lender	Apartments	VHDA
Mortgage Broker	Apartments	Virginia Capital Advisors
Lender	Office	South State Bank

ADMIN / SOFT COSTS

Accountant	Fund	Cohn Reznick
Accountant	Tax Prep	KWC
Insurance	Builder's Risk	Marsh & McLennan
Insurance	Liability	Wilson Taylor Wallerstein
Legal	Closing	Hirschler Fleischer
Legal	Landlord Rep	McGlothlin Legal
Title	Base Bldg	Old Republic Title
Appraisal	Apartments	EA Joseph
Appraisal	Office	Colliers

BROKERAGE

Leasing Broker	Office	JLL
Leasing Broker	Retail	Thalhimer

PROPERTY MANAGEMENT

Property Manager	Apartments	Drucker + Falk
Property Manager	Office	Highwoods
Property Manager	Parking	Pivot Parking

THE
CURRENT



- 323-stall parking garage owned by Apartment Project, but to be shared between Apartment Users, Office Users, and Public Users
- Facility outfitted with Parking Control Technology to allow individual vehicle tracking, time-variant rate-setting, automatic billing, real-time occupancy counts, historical data analysis, and dynamic entry/exit control mechanisms
- All spaces unreserved on first-come first-serve basis
- Account holders may be charged automatically on hourly basis, with varying rates for peak hours vs. off-hours
- Transient users charged through ticketing kiosk system

We all wait in life for things to get easier. ... It will never get easier. What happens is you handle hard better. That's what happens. Most people think that it's going to get easier. Life is going to get easier. Basketball is going to get easier. School is going to get easier. It never gets easier. What happens is you become someone who handles hard stuff better. ... And if you think life when you leave college is going to all of a sudden get easier because you graduated and you got a Duke degree, it's not going to get easier. It's going to get harder. So make yourself a person that handles hard well.



Thank You

LYNXVENTURES.COM



The background of the slide is a photograph of a residential street at dusk or dawn. Several cars are parked along the right side of the road. In the foreground, a large, light blue bicycle symbol is painted on the asphalt, indicating a bicycle lane. The overall scene is dimly lit, with a blue tint applied to the entire image.

2023 Richmond Regional Transportation Planning Organization (RRTPO)

TRANSPORTATION FORUM





The Future of Freight

2023 RRTPO Transportation Forum

Barbara Nelson, VP Development & Transportation Policy
March 17, 2023

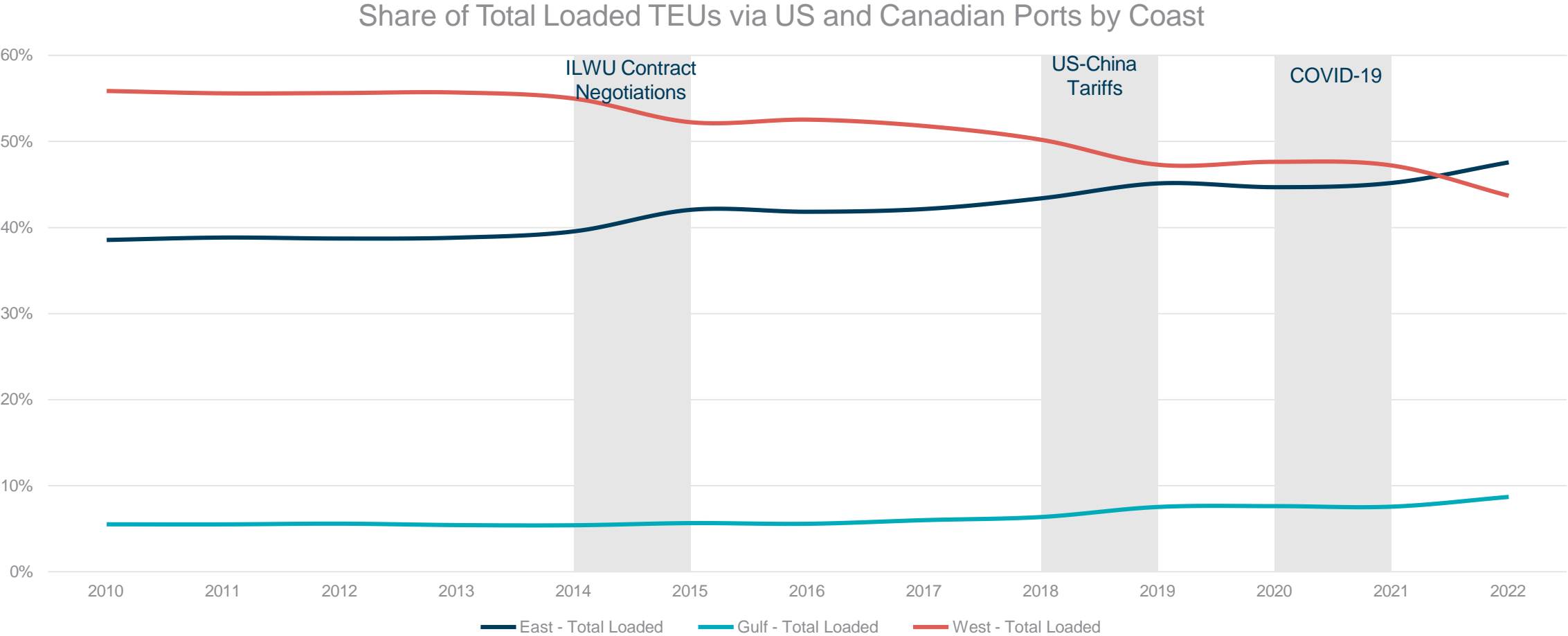


The Future of Freight is...



- ... Shifting Trade Patterns**
- ... Economic Opportunities**
- ... Technology Integrator**
- ... Sustainability Focused**

Container Trade Shifts



Source: AAPA, The Port of Virginia

Economic Impact in Virginia (FY21)



23.5 Million
Tons of cargo moved

6% Increase



27.2 Billion
In labor income

18% Increase



436,667
Jobs in Virginia

10% Increase



100.1 Billion
In spending

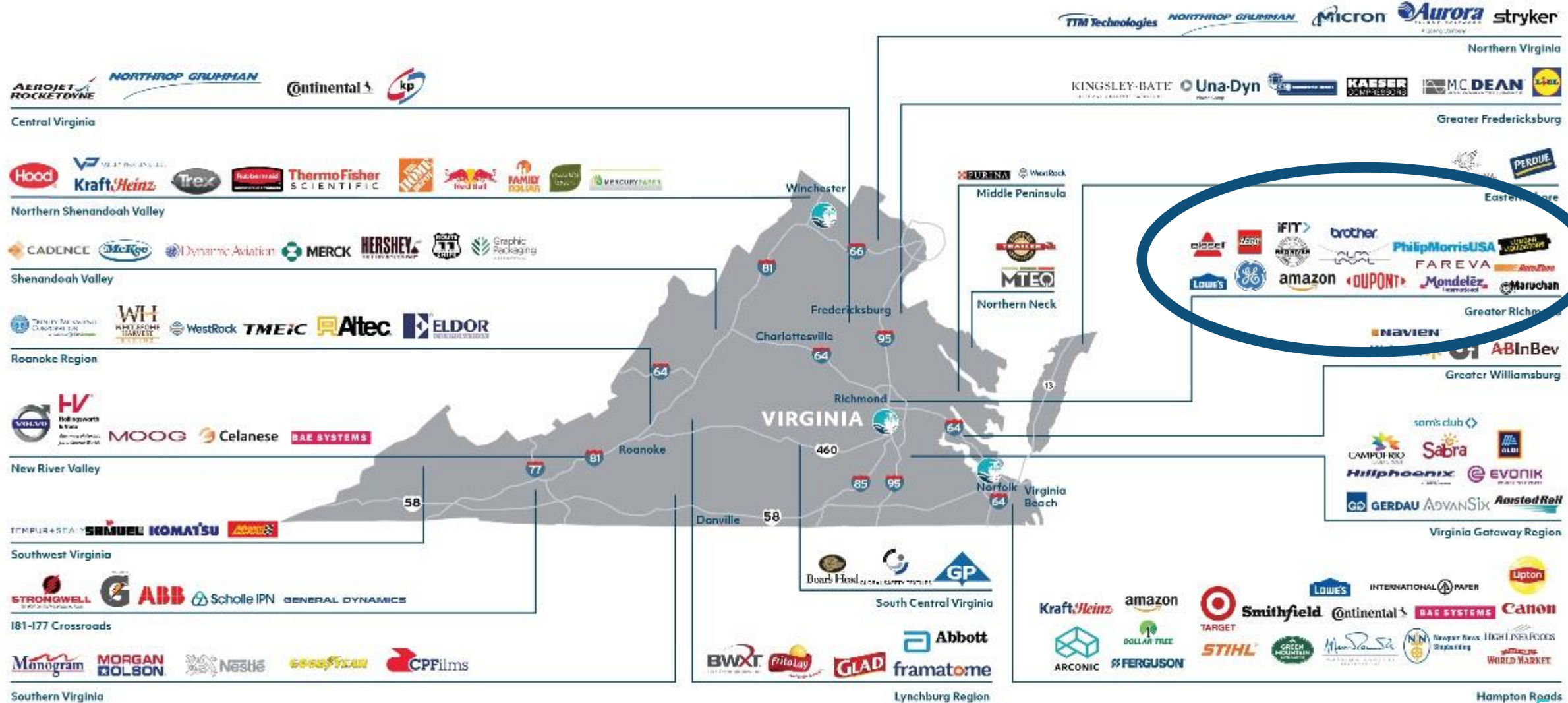
9% Increase



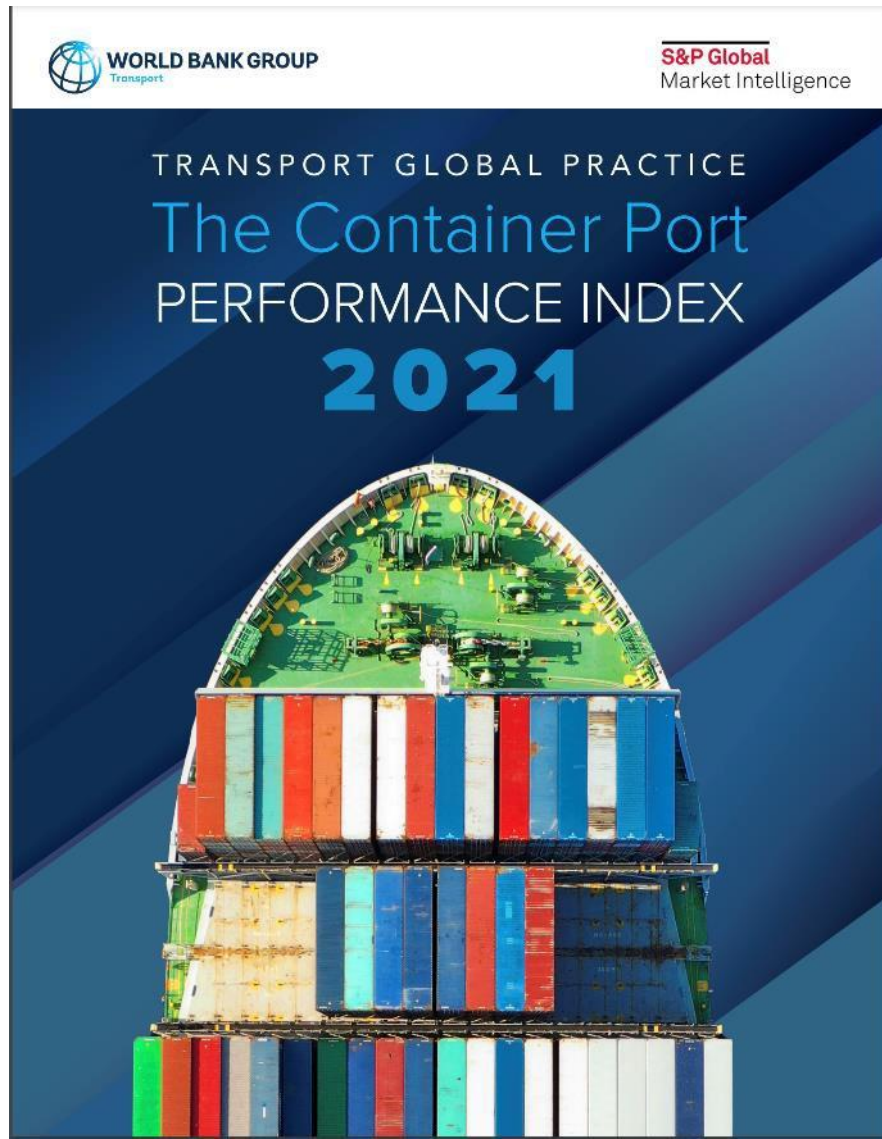
2.7 Billion
In State & Local Taxes and Fees

29% Increase

VA Distribution & Manufacturing Centers



Top Performing Port in North America



**Top Performing Port in
North America**

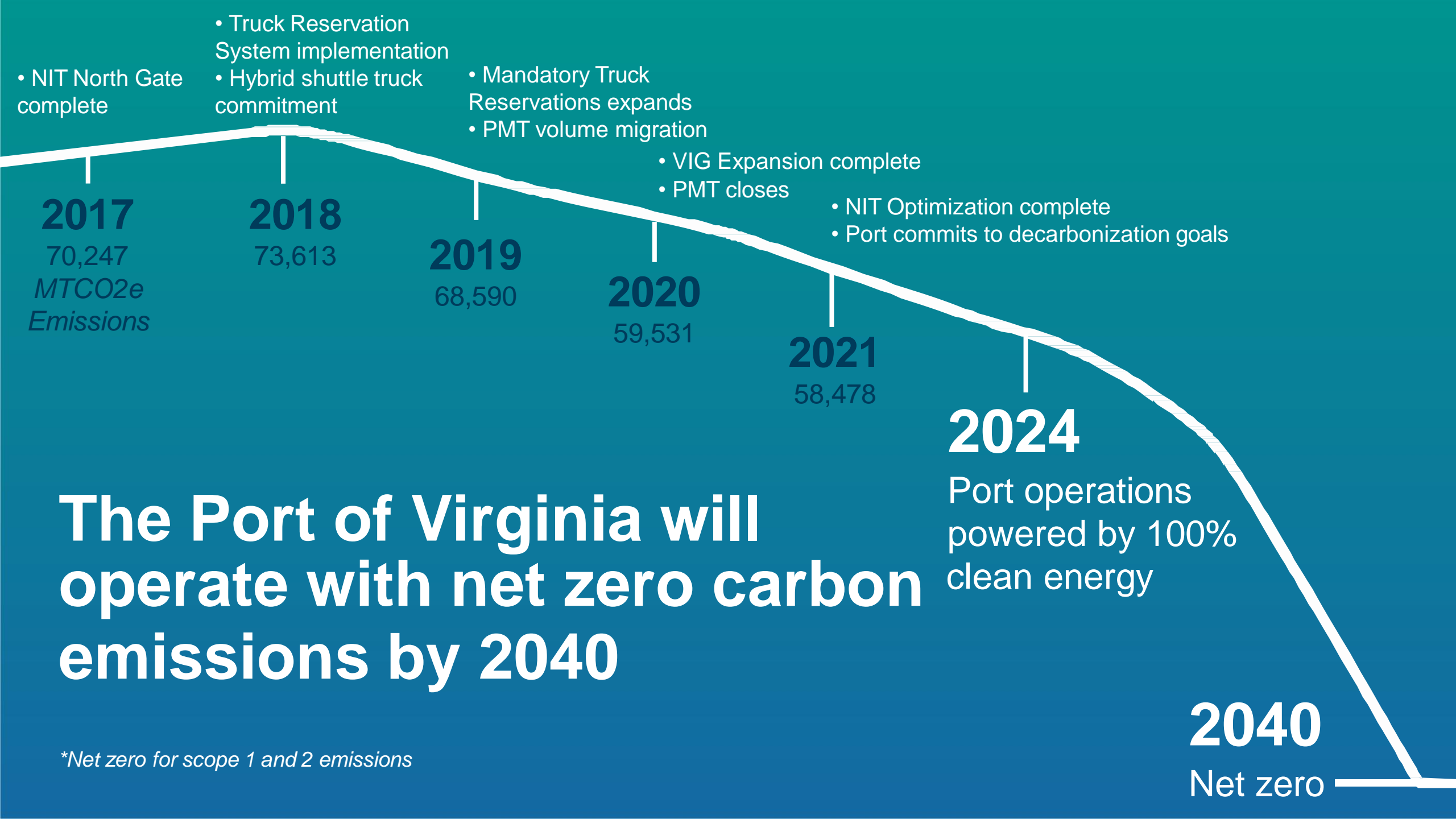


Ranked #23 Globally

Source: The Container Port Performance Index, 2021, World Bank Group, and S&P Global Market Intelligence

Autonomous Truck Ready Project Overview





• NIT North Gate complete

• Truck Reservation System implementation
• Hybrid shuttle truck commitment

• Mandatory Truck Reservations expands
• PMT volume migration

• VIG Expansion complete
• PMT closes

• NIT Optimization complete
• Port commits to decarbonization goals

2017
70,247
MT CO₂e
Emissions

2018
73,613

2019
68,590

2020
59,531

2021
58,478

2024
Port operations
powered by 100%
clean energy

**The Port of Virginia will
operate with net zero carbon
emissions by 2040**

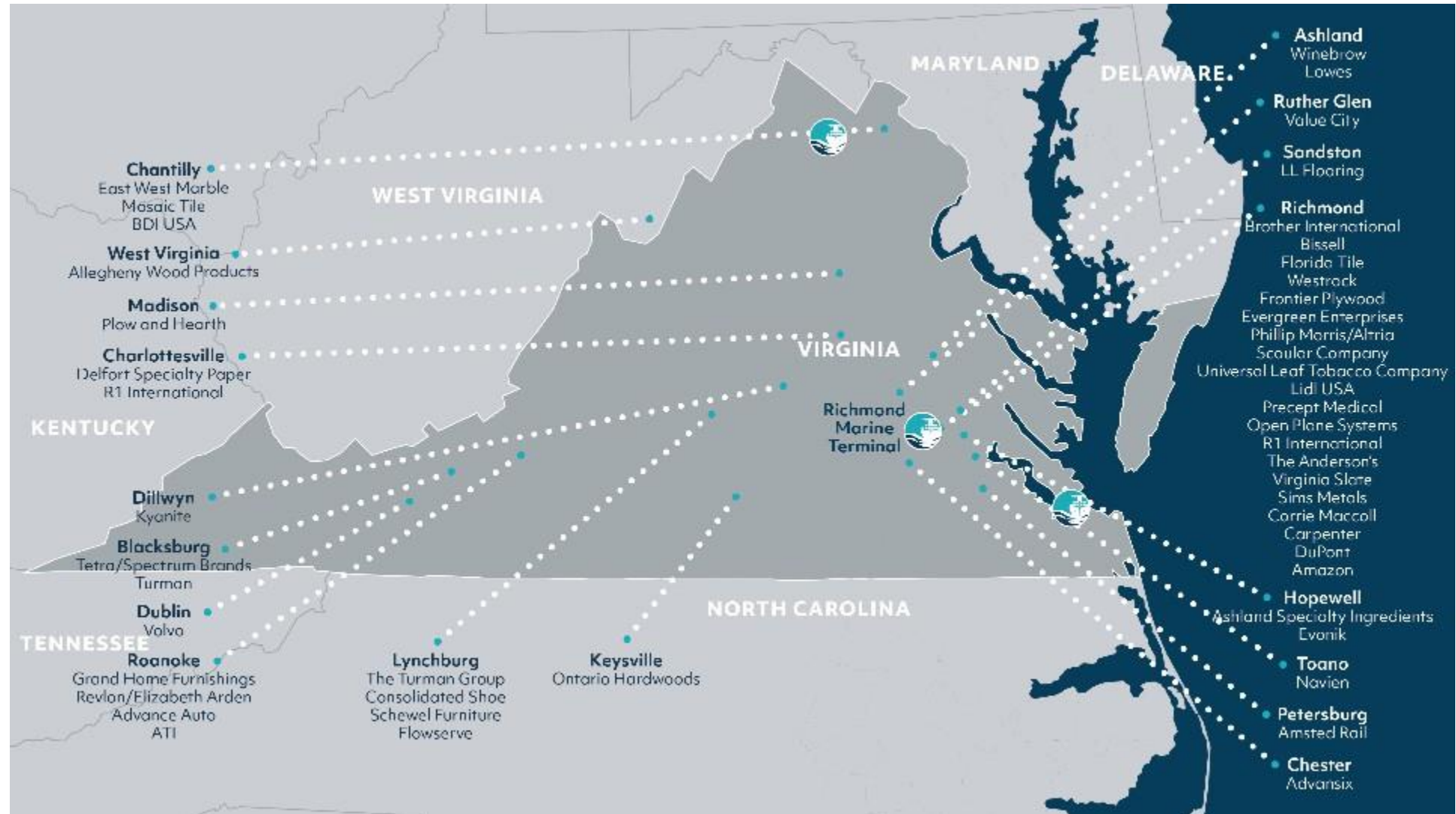
2040
Net zero

**Net zero for scope 1 and 2 emissions*

RMT 2008 to 2023... the future is bright



RMT Customers

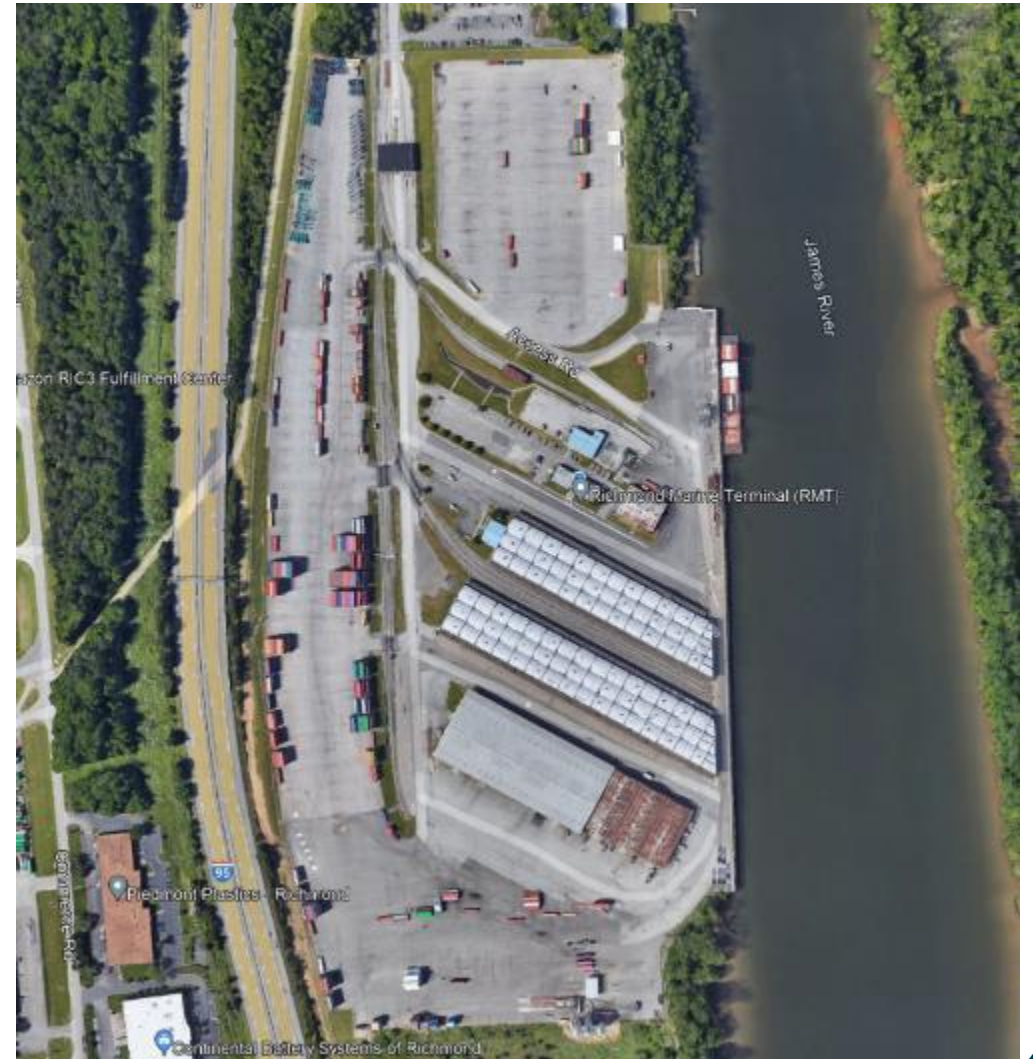


RMT Projects Summary



Project Summary: RMT is undergoing a series of project updates:

1. **US Customs Portal** - upgrade completed 2022. This project replaced portable customs equipment required to support gate activity with a permanent state of the art solution (\$2M VPA)
2. **Truck Gate and Drop Lot** - upgrade the gate complex to the standards employed at VIG and NIT. This will improve capacity and reduce operating costs/maximize container transfers (\$3.4M RSTP)
3. **Terminal Lighting** - upgrade to solve safety lighting issues during fall and winter months (\$3M MARAD)
4. **Berth Strengthening** – upgrades to work two barges concurrently and expand throughput volume (\$3.7M MARAD)



- ... Why it is important?**
- ... Why think regionally?**
- ... Next steps to collectively advance ideas?**



Thank You



THE PORT OF
VIRGINIA®



2023 Richmond Regional Transportation Planning Organization (RRTPO)

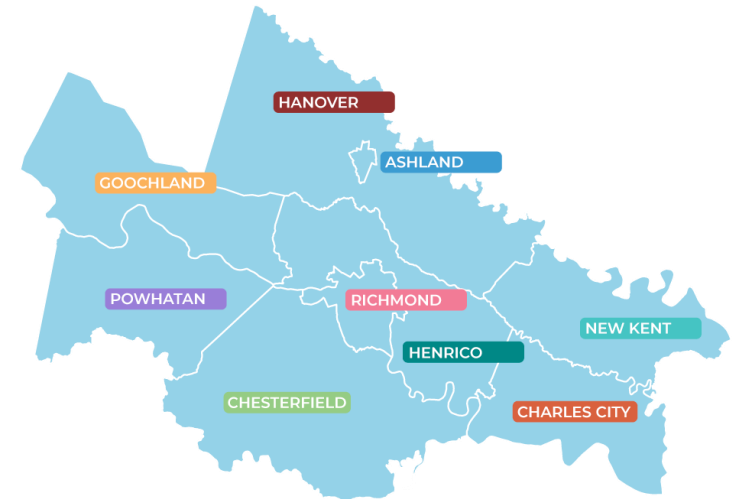
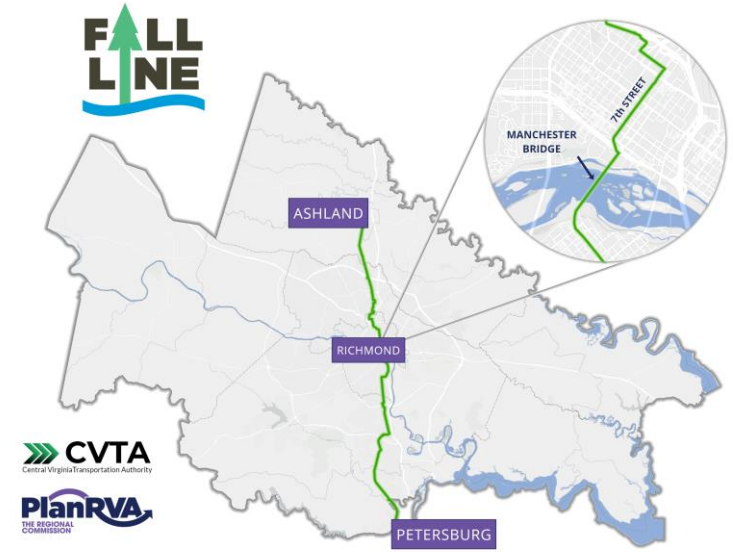
TRANSPORTATION FORUM



MAKING BIG PROJECTS HAPPEN

2023 RRTPO
TRANSPORTATION FORUM
MARCH 17, 2023

TERRELL HUGHES, PE
DIRECTOR OF PUBLIC WORKS
HENRICO COUNTY



WHAT IS A BIG PROJECT?

- Cost?
- Regional?
- Limited-Access Highway?
- Rail?



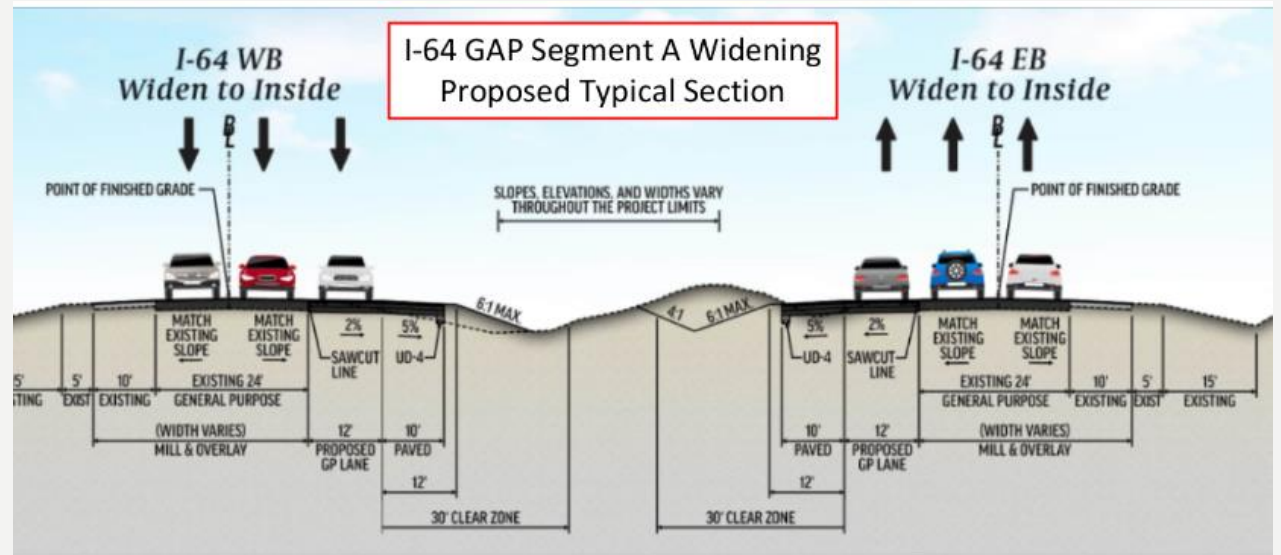
REASONS WHY BIG PROJECTS DON'T HAPPEN

- Funding Challenges
- Lack of Support / Shifting Priorities
- Project Constraints
- Time



MAKING BIG PROJECTS HAPPEN

- Funding strategy
- Gaining support
- Project Planning
- Sticking to a plan



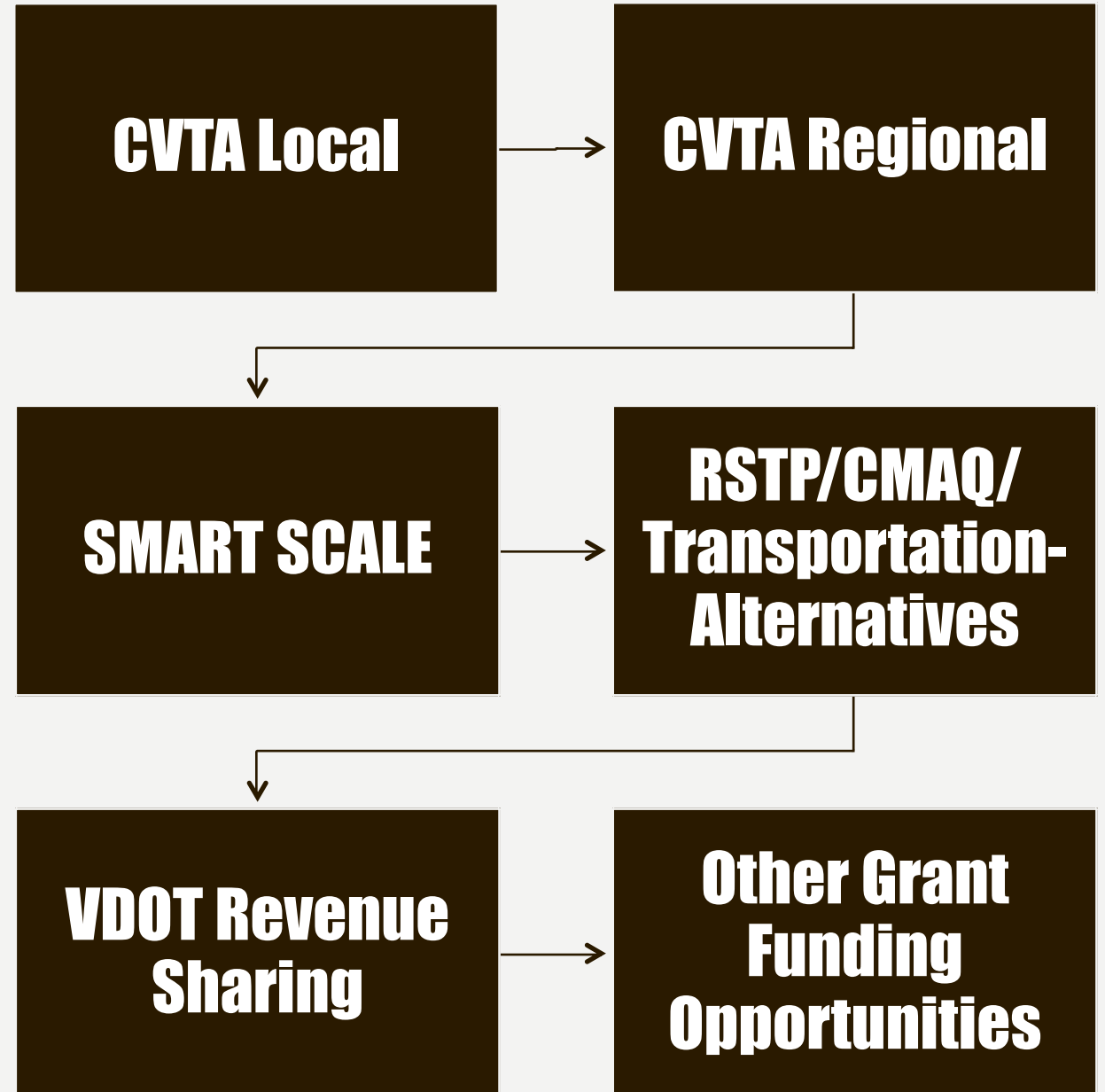
FUNDING CHALLENGES

- Limited Resources
 - Transportation needs exceed available funding
 - Competing priorities (other projects / maintenance)
- Rising costs of projects
- Lack of funding opportunities
- Historical Reliance on the gas tax
 - Virginia went decades without an adjustment
 - Federal fuels tax was last increased in 1993



FUNDING OPPORTUNITIES

- Local
 - CVTA
 - Local Funds
- Regional
 - CVTA
- State
 - SMART SCALE
 - Revenue Sharing
 - Interstate
- Federal
 - RSTP
 - CMAQ
 - Federal Grants



FUNDING STRATEGY

- Aligning funding with available opportunities
- Local Commitment
- Regional Collaboration
- Statewide Support
- Linking multiple funding sources together
 - Leveraging funds



GAINING SUPPORT

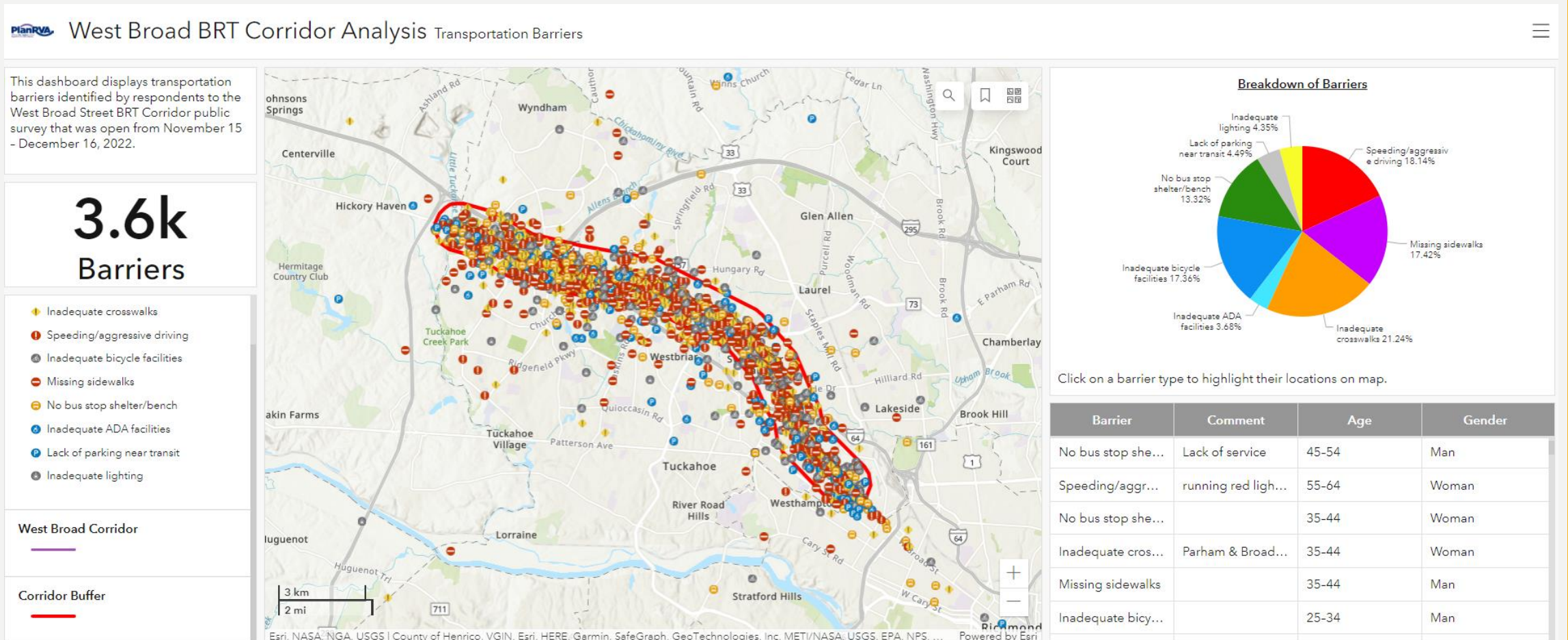
- Public Support
- Regional Support
- Elected-Official Support

It all starts with **WHY!**



PUBLIC ENGAGEMENT

- Going beyond the public meeting
- Leveraging new technologies



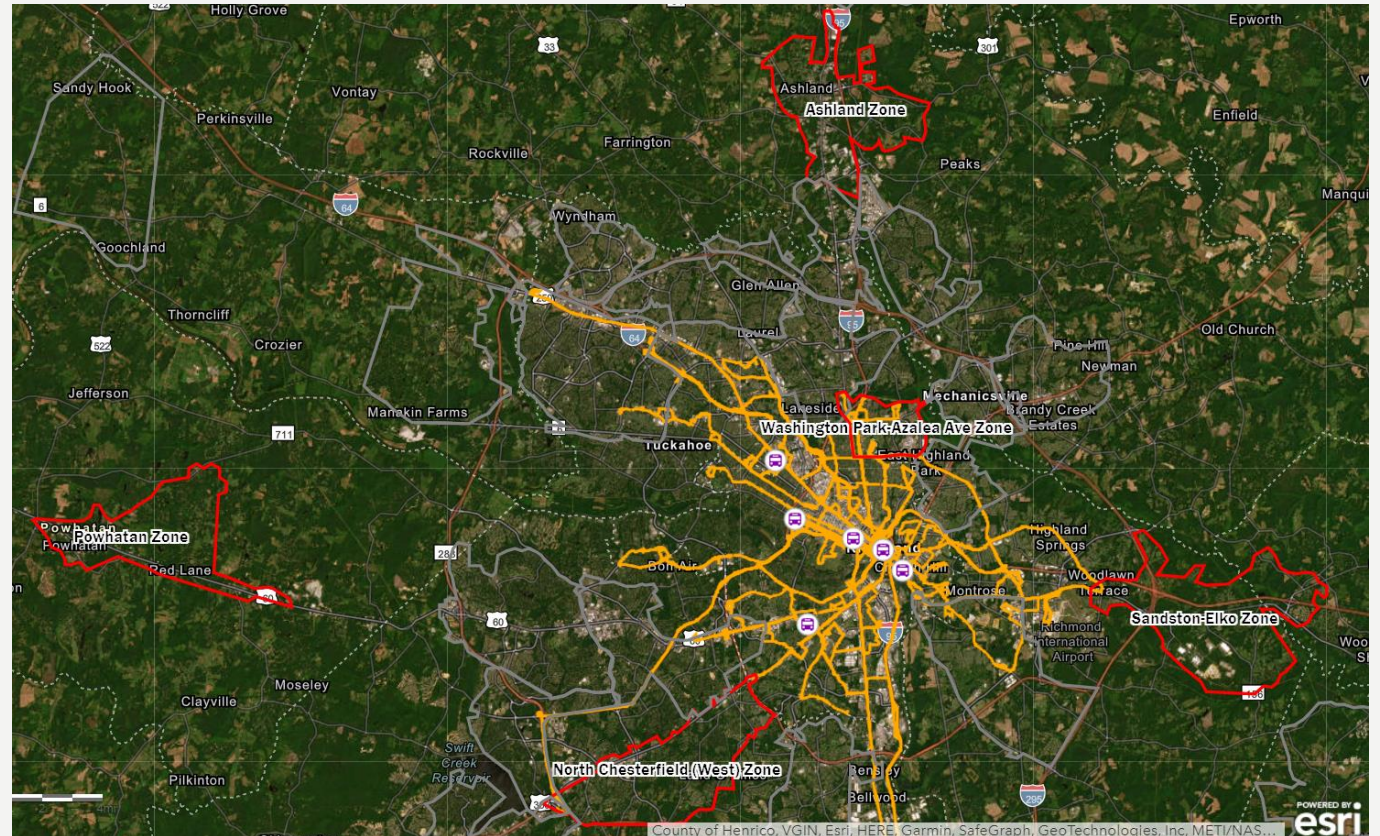
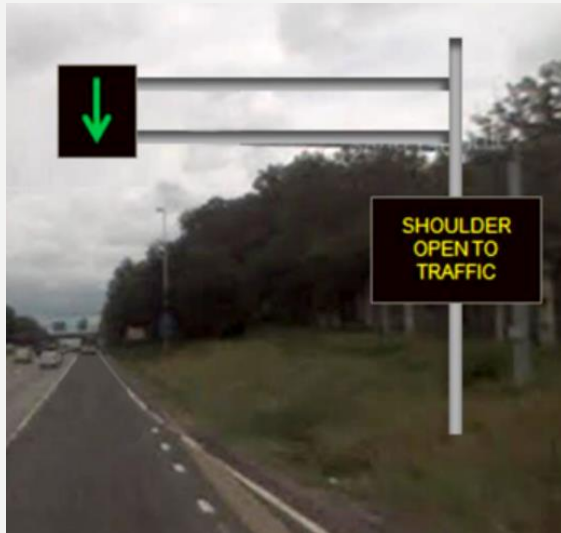
CONSTRAINTS

- Right-of-way
- Water crossings
- Railroads
- Utilities
- Environmental Impacts
- Historical Resources



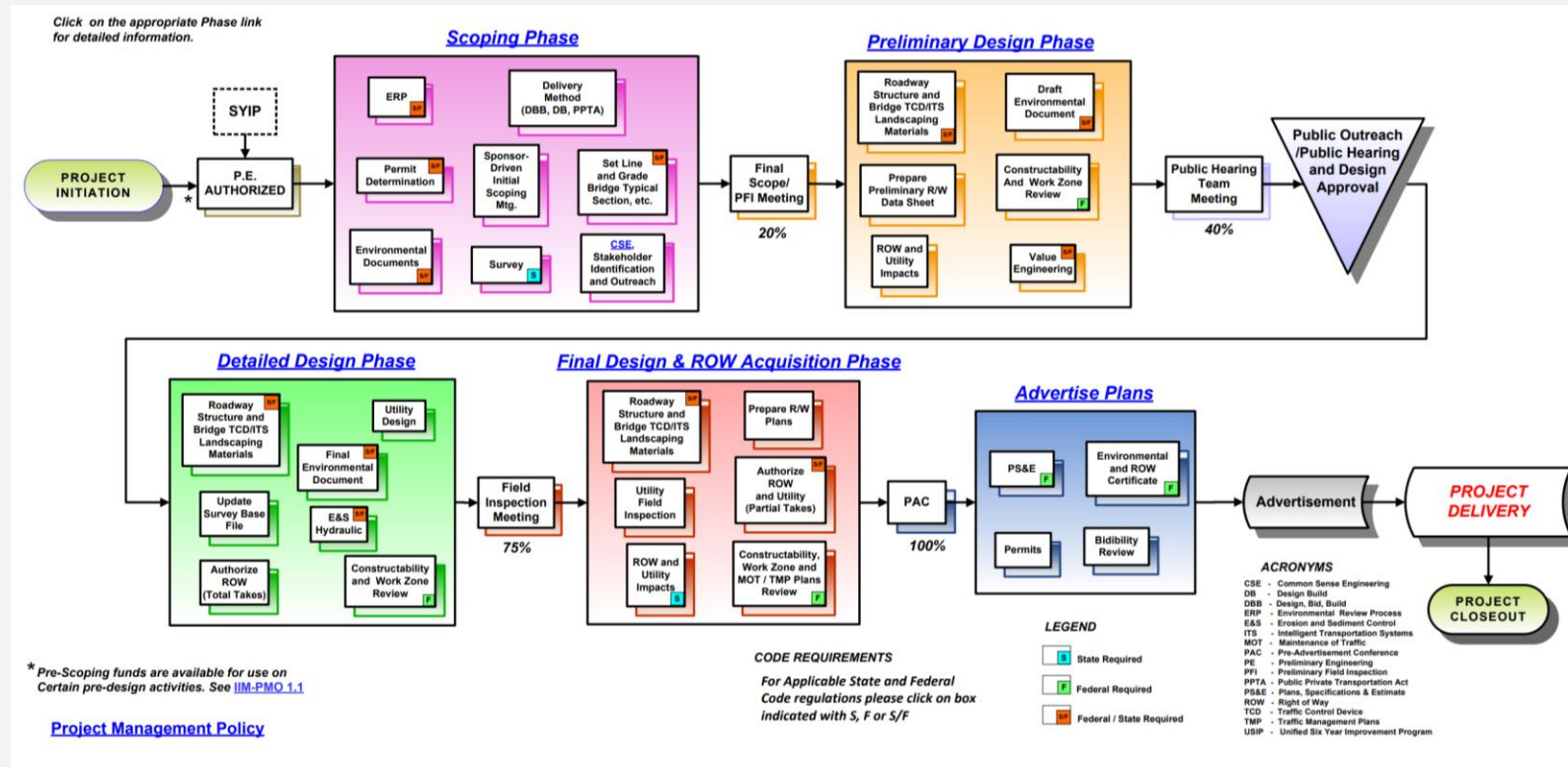
PROJECT PLANNING

- Detailed Studies
- Planning with partners
 - PlanRVA
 - VDOT
 - DRPT
- Innovative Solutions

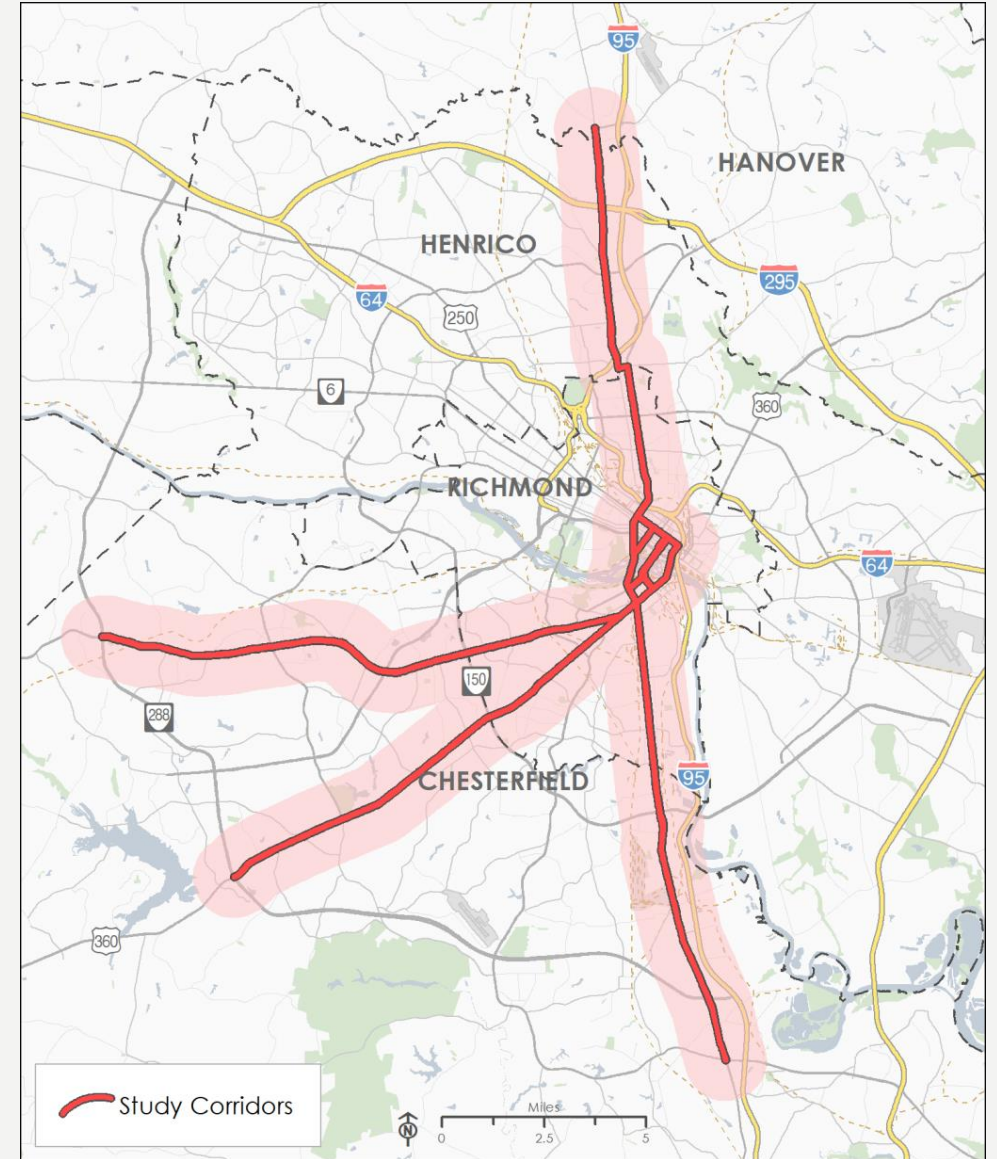


TIME

- Big projects take time
- Many steps are involved – some more challenging than others
- Projects get more expensive with time.



PLANNING FOR FUTURE PROJECTS



QUESTIONS?





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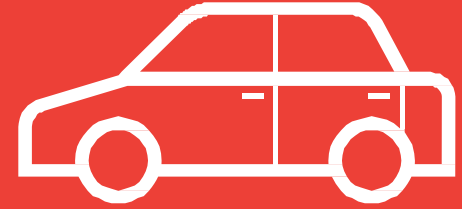
TRANSPORTATION FORUM



Transportation Equity & Inclusion



FAITH WALKER,
EXECUTIVE DIRECTOR



2023 RRTPO
Transportation Forum



**Mobility is
Freedom**

1

Identify The Most Vulnerable



- Ethnic Minorities
- Disabled People
- Elderly People
- Low Income

- Experience Matters



- Have Quality Conversations.

- Increase Your Budget.

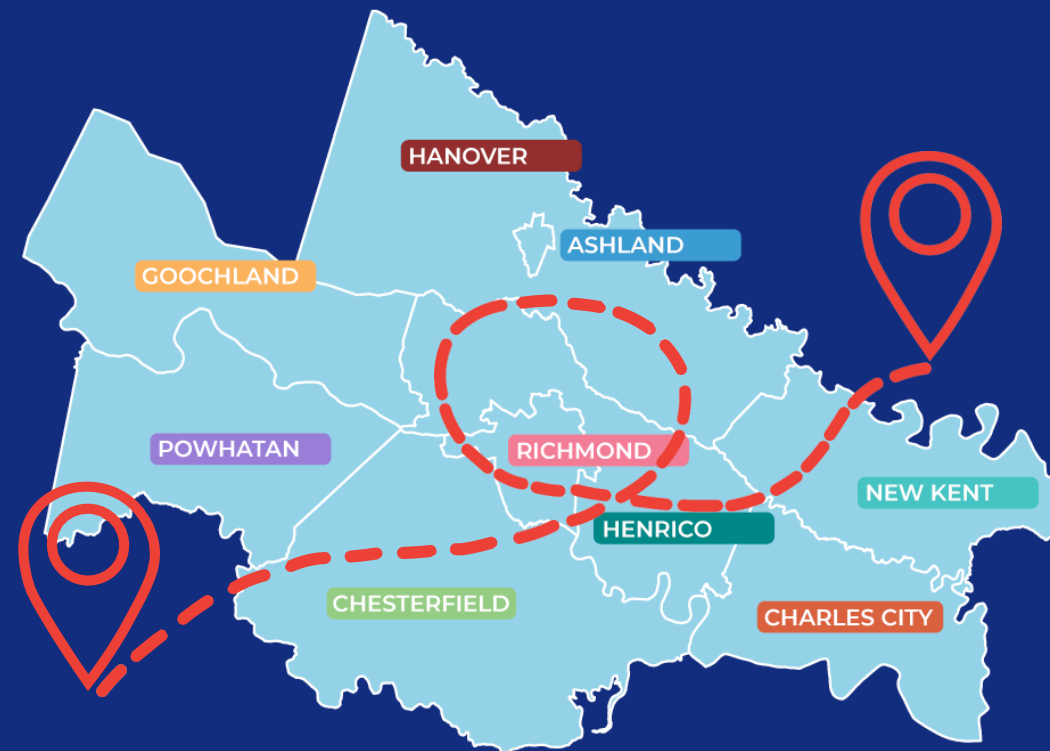
Inclusion

- Everyone is Responsible.

2

Economic Interdependence: City to County

- People are transient.
- Missed Opportunity
- Multijurisdictional Culture.



Equity

③ Find A Policy Champion

- Policies Protect
- Policies support long-lasting change





Let's Work Together

THANK YOU
FAITH WALKER

PHONE
804-400-5853

EMAIL
faith@rvarapidtransit.org





2023 Richmond Regional Transportation Planning Organization (RRTPO)

TRANSPORTATION FORUM





GIVEAWAYS!



GIVEAWAY 1

GRTC is proud to partner with Agee's Bicycles in the Townie 7D Step Thru bicycle giveaway.



GIVEAWAY 2

Two Amtrak tickets
anywhere along the
Northeast Regional
thanks to Virginia
Passenger Rail Authority.



GIVEAWAY 3

Two Southwest Airlines tickets, thanks to a donation from Southwest Airlines and ChamberRVA.



GIVEAWAY 4

Four BreezePoints certificates thanks to a donation by Breeze Airways. Each certificate has a value of 20,000 BreezePoints redeemable for travel with the airline.





THANK YOU!

