

# SECRETARY of TRANSPORTATION

# **VTrans Update**

West Piedmont PDC
Transportation Technical Advisory Committee

Chris Wichman, OIPI

Friday, May 17, 2019













#### FEEDBACK REQUESTS CHECKLIST

- ☐ Share performance measures to be used for Needs Identification (today's meeting)
- Confirm activity centers (ongoing & July regional workshop)
- Confirm presence of UDAs and UDA contacts (ongoing with localities)





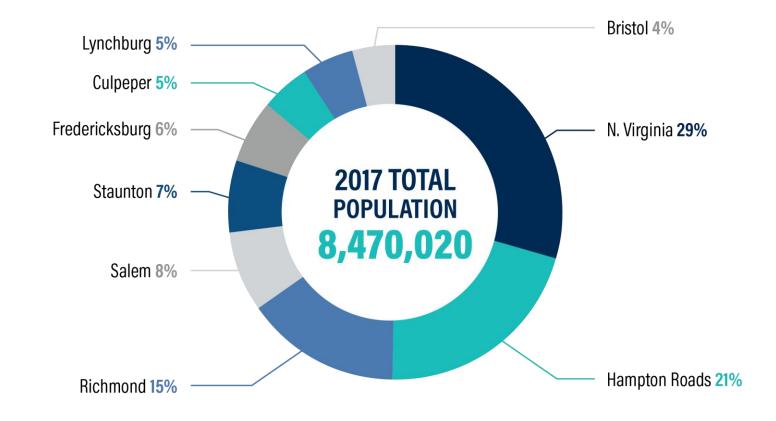
#### TRANSPORTATION'S ROLE IN ECONOMY

- Population and employment trends provide insight to transportation demand:
  - Economic model is changing some businesses are choosing locations based on quality of life (workers prefer walkable places to live and work)
  - Different industry clusters have different transportation modal demand
  - Transportation plays an important role in attracting future workforce
  - Generational values/expectations guide where people choose to live and work





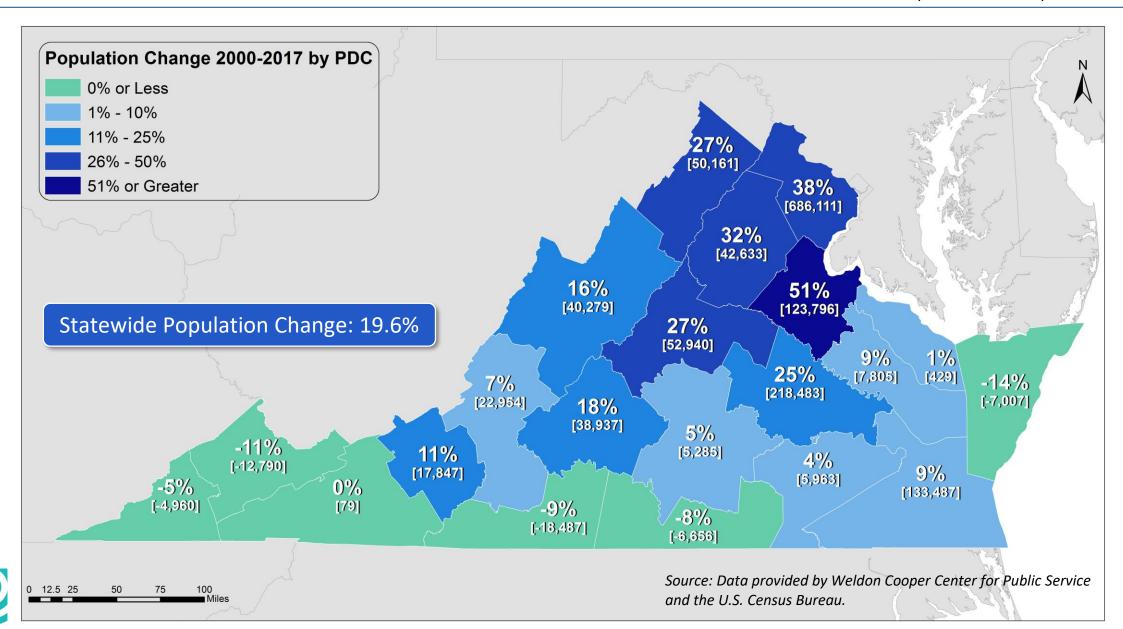
# Percentage of Population (By CTB District)





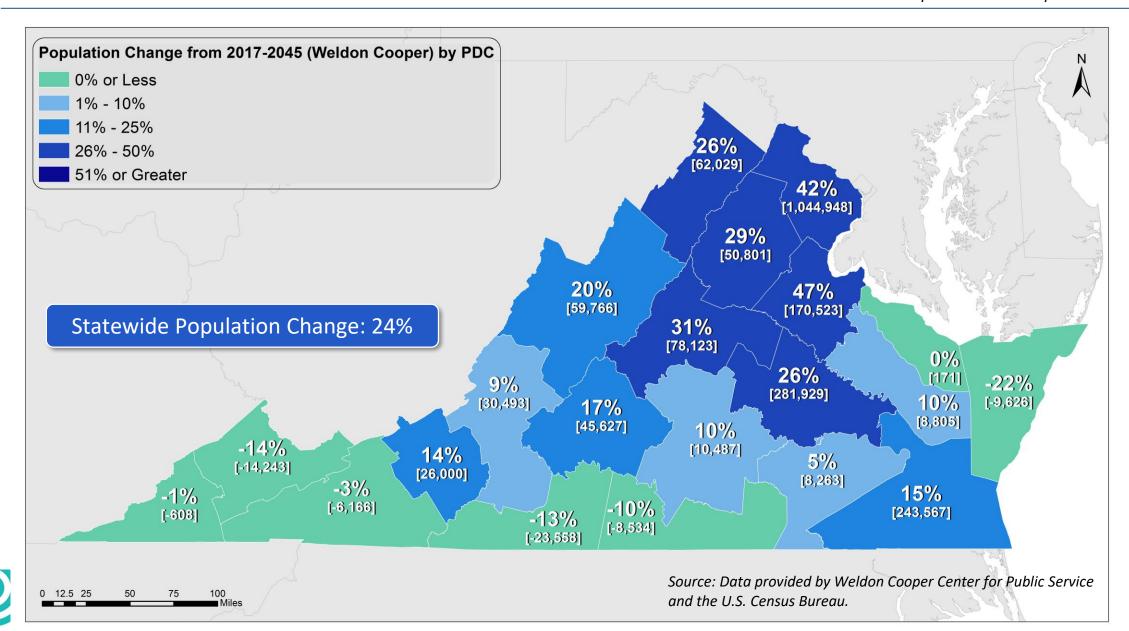
## HISTORICAL POPULATION CHANGE BY PDC - 2000-2017

Note: This slide from the original presentation was updated on 6/18/2019



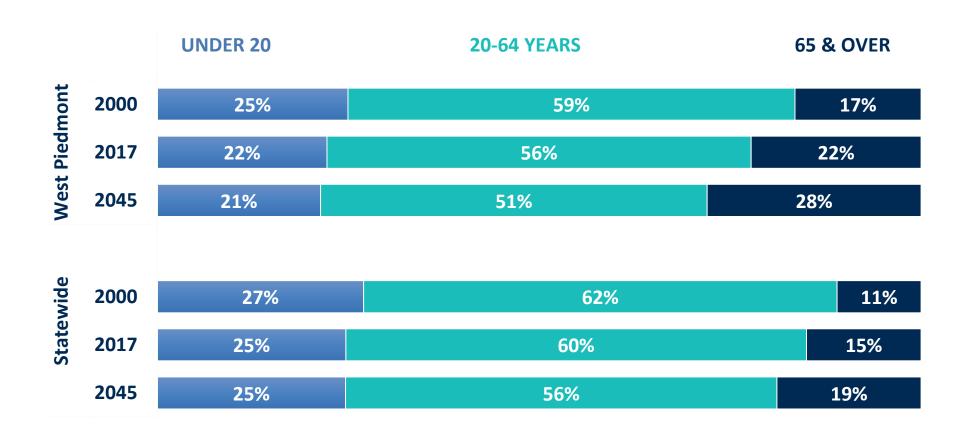
#### POPULATION FORECAST CHANGE BY PDC - 2017-2045

Note: This slide from the original presentation was updated on 6/18/2019



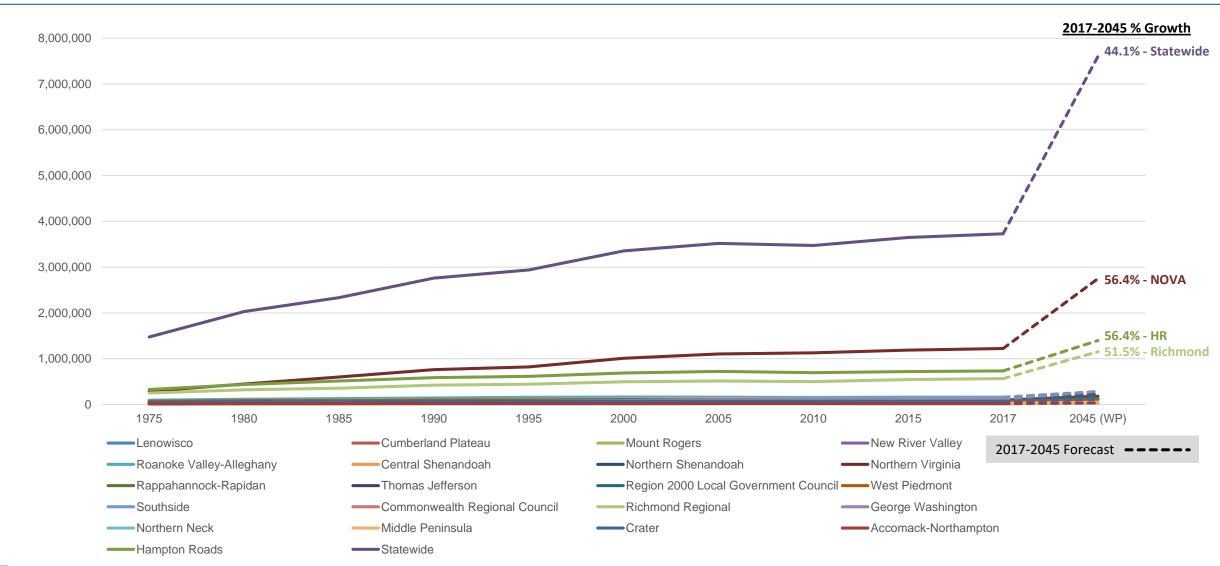
#### DEMOGRAPHIC TRENDS: AGE DISTRIBUTION BY PDC

#### **West Piedmont**



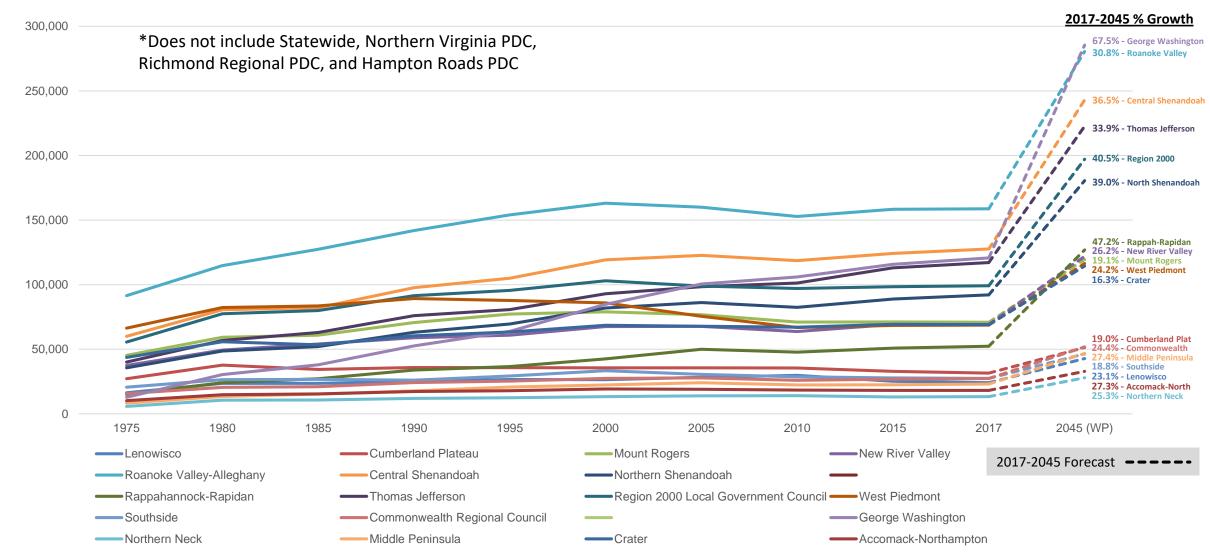


## DEMOGRAPHIC TRENDS: EMPLOYMENT BY PDC - 1975 TO 2045





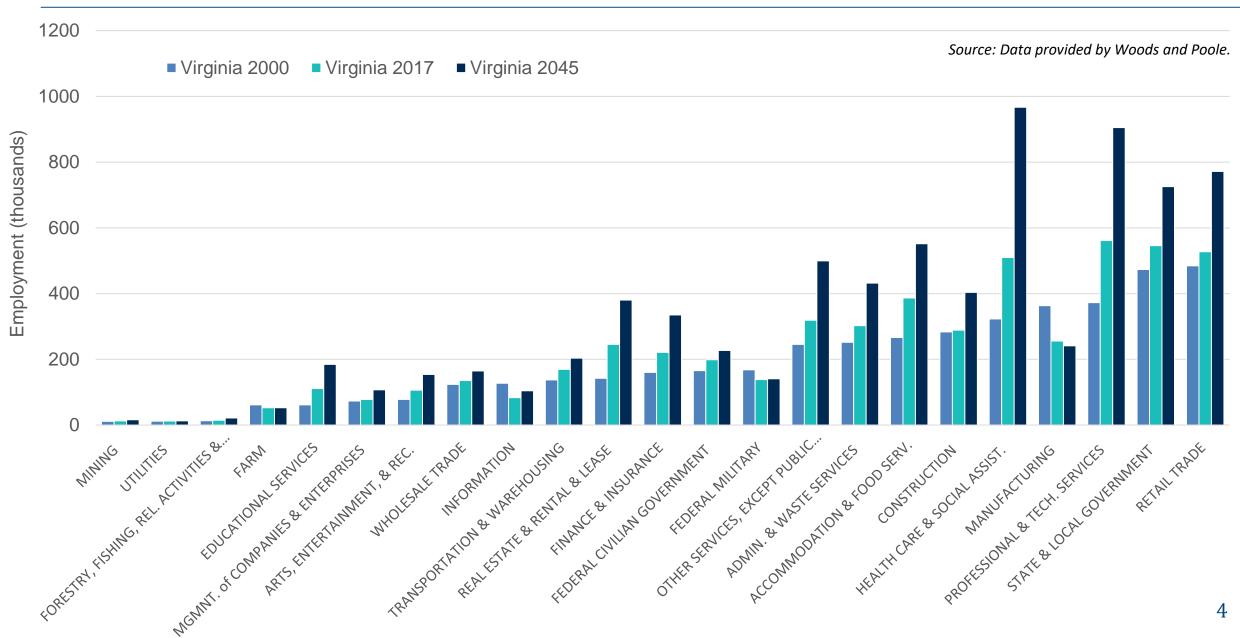
# DEMOGRAPHIC TRENDS: EMPLOYMENT BY PDC - 1975 TO 2045\*





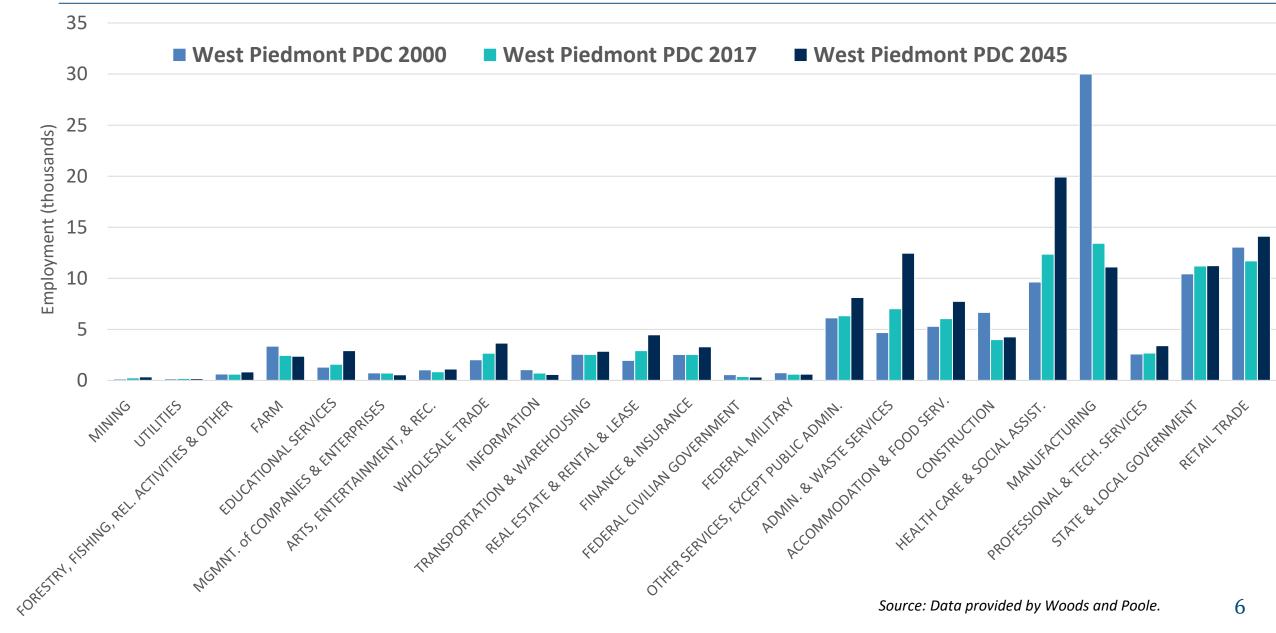
## **Demographic Trends: Statewide Employment by Industry**

Note: This slide from the original presentation was updated on 6/18/2019

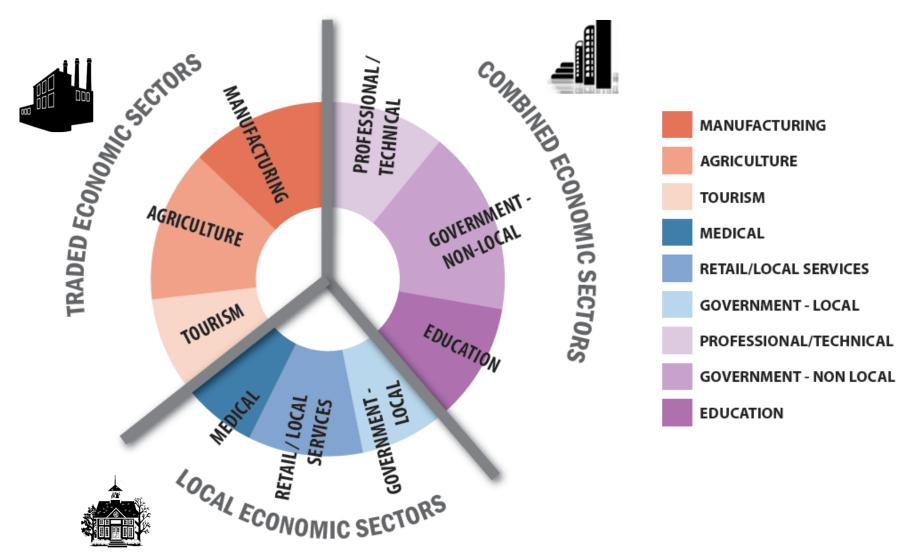


#### **DEMOGRAPHIC TRENDS: PDC EMPLOYMENT BY INDUSTRY**

Note: This slide from the original presentation was updated on 6/18/2019



# **ECONOMIC-TRANSPORTATION LINKAGES | INDUSTRY CLUSTERS**





# **ECONOMIC-TRANSPORTATION LINKAGES | TRANSPORTATION**

Different industry clusters have different *Needs*, Opportunities and Constraints for efficient transportation



Based

Knowledge-

# Mixed-use developmentWalking

- Walking between destinations
- Traditional peak commute times
- Airport access



# ocal Serving

#### Different peak commute times

- Customer traffic
- Trip-chaining destinations
- Truck deliveries



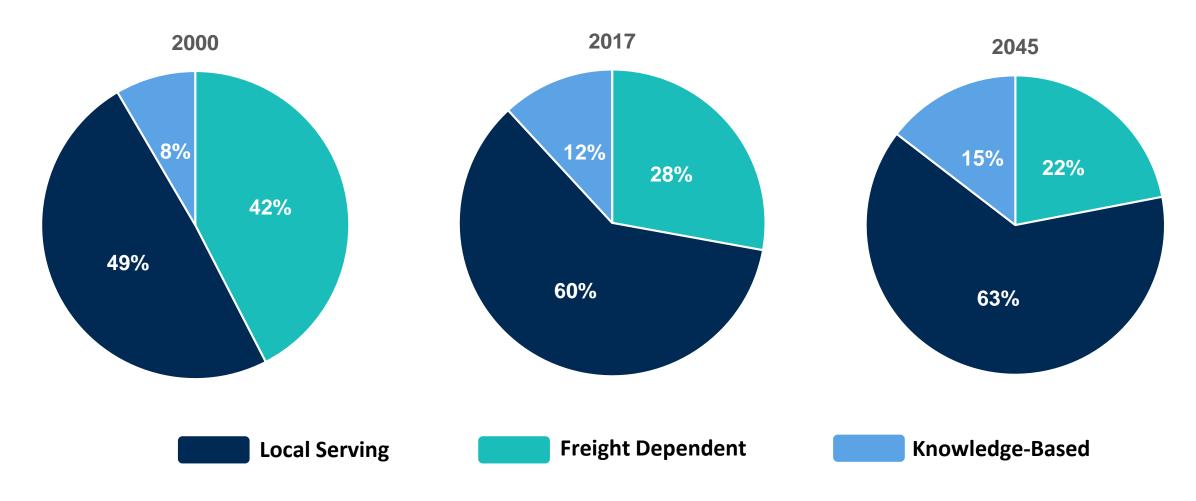
Freight

#### • Shift hours

- Truck origins and destinations
- Rail, port and/or airport access
- Remote locations



#### **West Piedmont**





#### TRAVEL MARKETS OVERVIEW

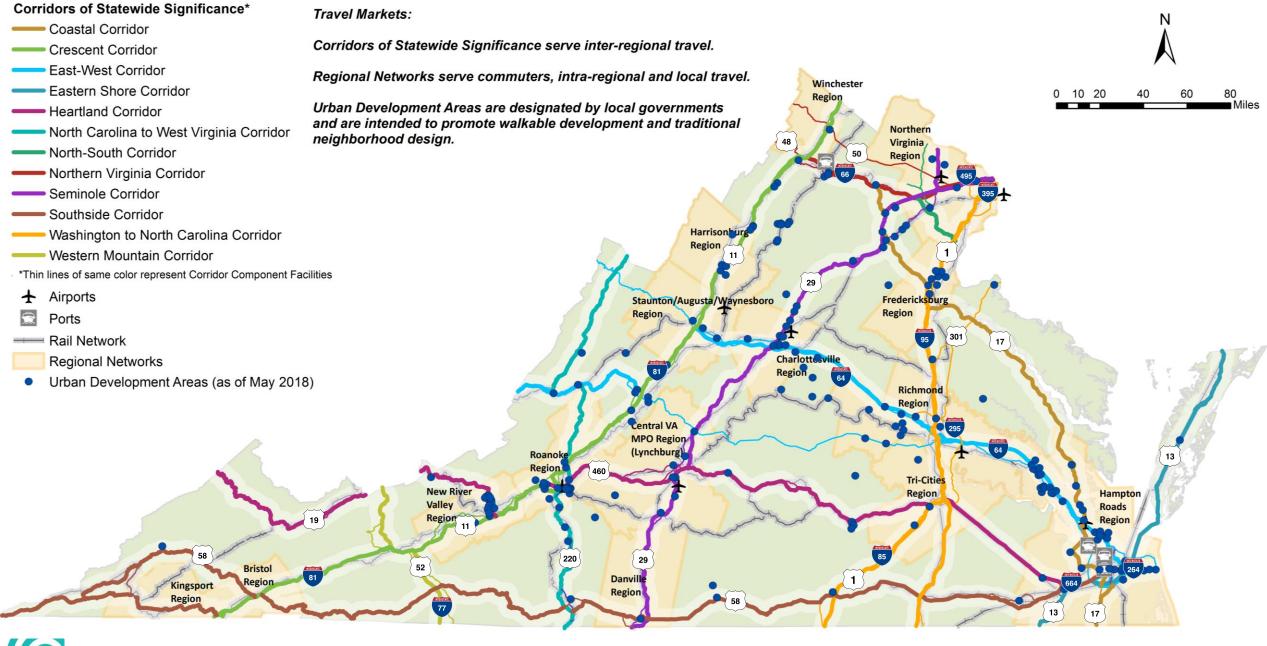
- Corridors of Statewide Significance (CoSS) [Code of Virginia § 33.2-35]
  - Serve inter-regional travel
- Regional Networks [Code of Virginia in in § 33.2-353]
  - Serve commuters, intra-regional, and local travel
- Urban Development Areas (UDA) [Code of Virginia § 33.2-353 and § 15.2-2223.1]
  - Designated by local governments
  - Intended to promote walkable development and traditional neighborhood design











# MID-TERM NEEDS | METHODOLOGY & MEASURES

# Mid-Term Needs Approach:

- Validate and build upon needs identified in VTrans2040
- Introduce new/improved data sources and new measures in line with federal performance reporting requirements
- Tie measures to VTrans Goals and Objectives
- Coordinate with regional and local stakeholders to update needs



# MID-TERM NEEDS | METHODOLOGY & MEASURES

# Mid-Term Needs Approach by Travel Markets:

- CoSS more data-driven, smaller segments than last time
- RN build on VTrans2040, verify, update, confirm/revise
- UDA build on VTrans2040, verify, update, confirm/revise
- Safety Potential for Safety Improvements (PSI)



## TRAVEL MARKETS & MID-TERM NEEDS ANALYSIS

	CoSS	Regional Networks	UDA	Safety (Statewide)
Starting Point	Full Analysis of CoSS	VTrans2040 RN needs	VTrans2040 UDA needs	Full analysis of PSI locations
How will measures be used?	Identification of new needs	Validation of previously identified needs and identification of new needs	Needs must support UDA legislative requirements (§ 15.2-2223.1)	Identification of new needs
Stakeholder engagement required	Review and comment on identified needs	Regional workshops for needs identification with MPOs, PDCs, and localities	Survey/Needs questionnaire with localities	Review and comment on identified needs



#### **VTRANS GOALS**



Goal A: Economic Competitiveness and Prosperity



Goal B: Accessible and Connected Places

VTrans2040 Goals



Goal C: Safety for All Users



Goal D: Proactive System Management



Goal E: Healthy Communities and Sustainable Transportation Communities



#### **DRAFT - MID-TERM NEEDS IDENTIFICATION MEASURES**

Goal	Mid-Term Needs Measures	CoSS	Regional Network	UDA	Safety
\$ A	Throughput	<b>√</b>			
\$ A	Travel Time	<b>√</b>	<b>√</b> *		
\$ A	Person Delay During Unreliable Conditions (PDDUC)**	<b>√</b>			
\$ A	Interstate: Heavy/medium truck*** vehicle hours of delay per lane mile	<b>√</b>			
В	[Accessibility measures – to be determined]		<b>✓</b>		
<b>B</b>	Disadvantaged communities beyond ¼ mile access to transit		<b>√</b>		
(A) C	PSI – Potential for safety improvements, (top X percentile and with minimum of Y crashes)	<b>√</b>	<b>√</b>		<b>√</b>

VIRGINIA'S
TRANSPORTATION PLAN

<sup>\*</sup> Based on availability of data

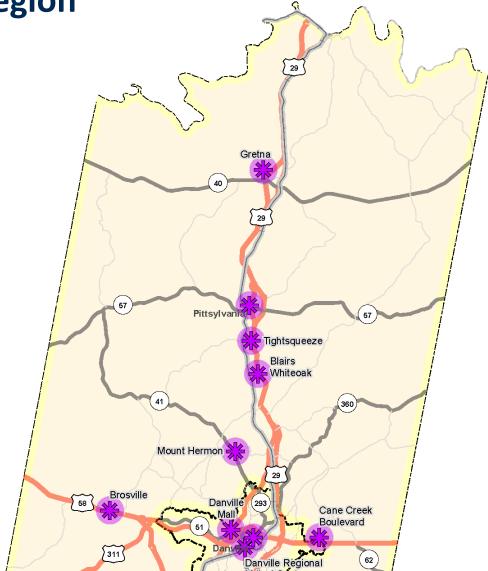
<sup>\*\*</sup> Multiply the volume by the travel time beyond the 50<sup>th</sup> percentile for segment and time period

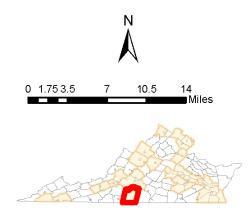
<sup>\*\*\*</sup> Vehicles defined in federal vehicle classification scheme as Class 5 or greater

# REGIONAL NETWORKS | ACTIVITY CENTERS



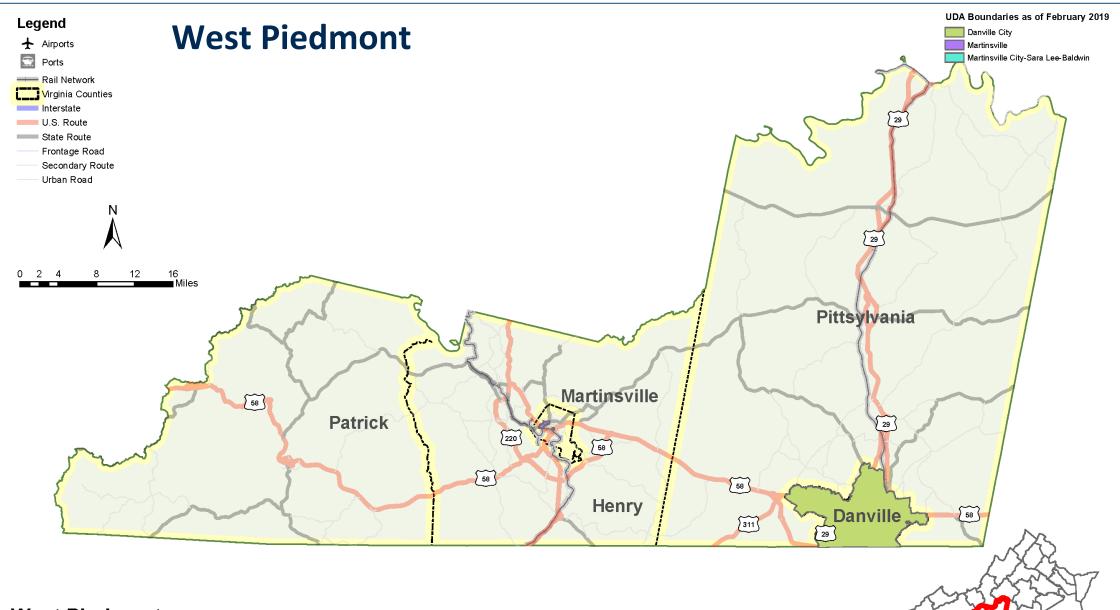
**Danville Region** 







#### **URBAN DEVELOPMENT AREAS**



#### **UDA N**EEDS UPDATE PROCESS OVERVIEW

- If you have or plan to have a UDA:
  - Verify UDA Contact Name and info
  - Verify UDA list
  - Verify UDA boundaries
  - Submit updated UDA boundary shapefiles (if needed)
  - Submit new UDA boundary shapefiles
  - Complete UDA Needs Questionnaire



#### PSI-BASED SAFETY NEEDS APPROACH

- Historic crash data being transferred to VDOT's current linearlyreferenced network
- Thresholds under review
- Desire to update to focus on "worst of the worst"
- Discussing need/desire to harmonize HSIP & SMART SCALE/VTrans measures
- CTB will approve SMART SCALE measure





# **MPO PARTICIPATION TIMELINE**

Date	VTrans Task	MPO Role
May-early June	Presentations to MPO's	Provide feedback at MPO meetings
Mid May	Webinar - same as presentation to MPOs	Provide feedback at MPO meetings; PDC role - profile feedback
Early June	Webinar on UDA methodology and Instructions to Localities	Watch webinar, ask questions as needed and be able to provide assistance to UDA locality contacts as needed
Mid June		Provide feedback on needs measures and methodology
July-early August	Presentations to MPO's	Attend your area presentation





# MPO PARTICIPATION TIMELINE, CONT'D

Date	VTrans Task	MPO Role
Mid-July	Webinar - same as presentations to MPOs	Attend
Before September 1 <sup>st</sup>	Draft Mid-Term Needs will be sent out to MPO's (and made available publicly as well)	Review
September 1 <sup>st</sup> to early October	OIPI Staff will go out to MPO's to discuss the draft Mid-Term Needs	Attend
October 16 <sup>th</sup>	October CTB meeting: Present draft needs and any feedback we've heard	N/A
December 11 <sup>th</sup>	December CTB Meeting: CTB makes final approval on Vision, Goals, Objectives, measures, needs methodology, and Mid-term Needs list	N/A
Before end of 2019	OIPI will publish final approved list of Mid-Term Needs	N/A



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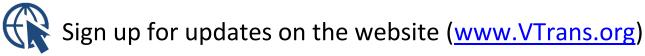




# QUESTIONS/DISCUSSION

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THANK YOU!



