



COMMONWEALTH *of* VIRGINIA  
*Office of the*  
SECRETARY *of* TRANSPORTATION

# VTrans Update

Harrisonburg-Rockingham MPO TAC Meeting

Katie Schwing, OIPI

Thursday, June 6th, 2019



Virginia Department of Rail and Public Transportation



# 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)



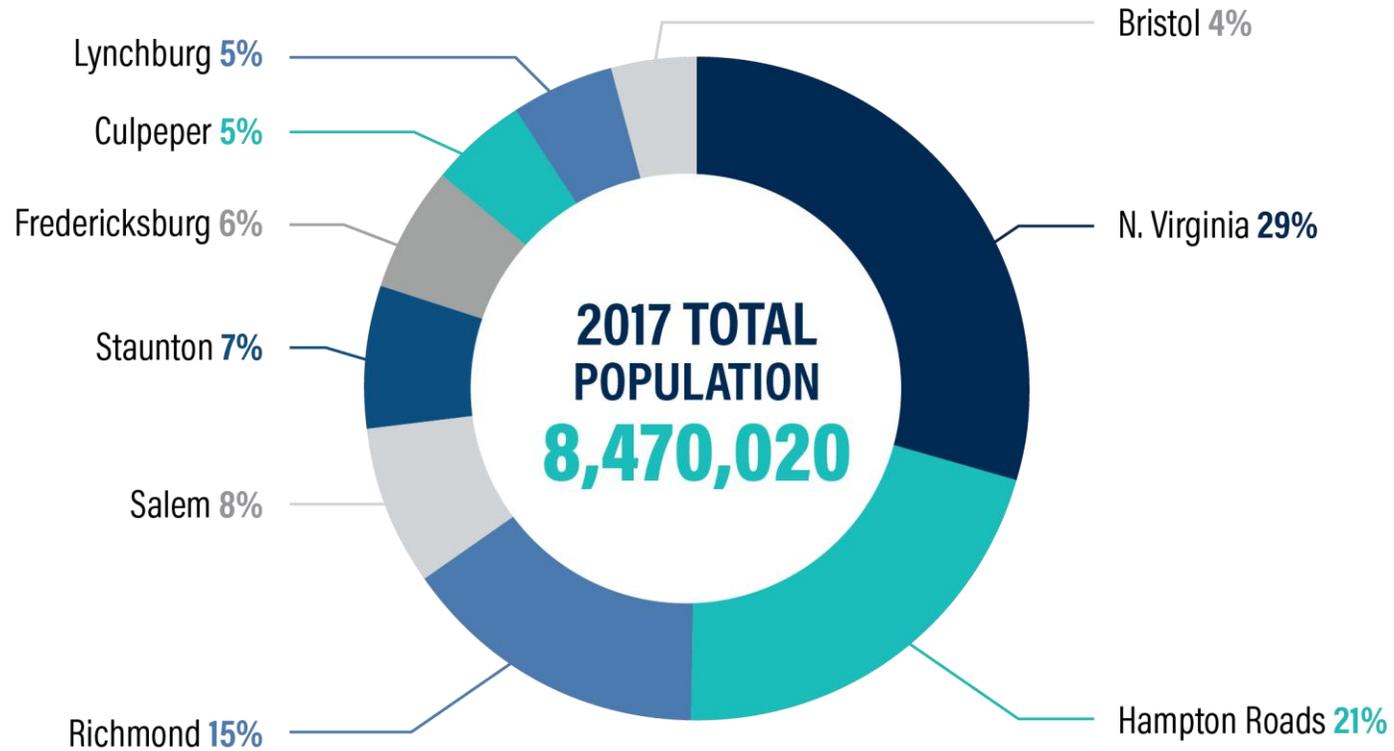
# TRANSPORTATION'S ROLE IN ECONOMY

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- 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

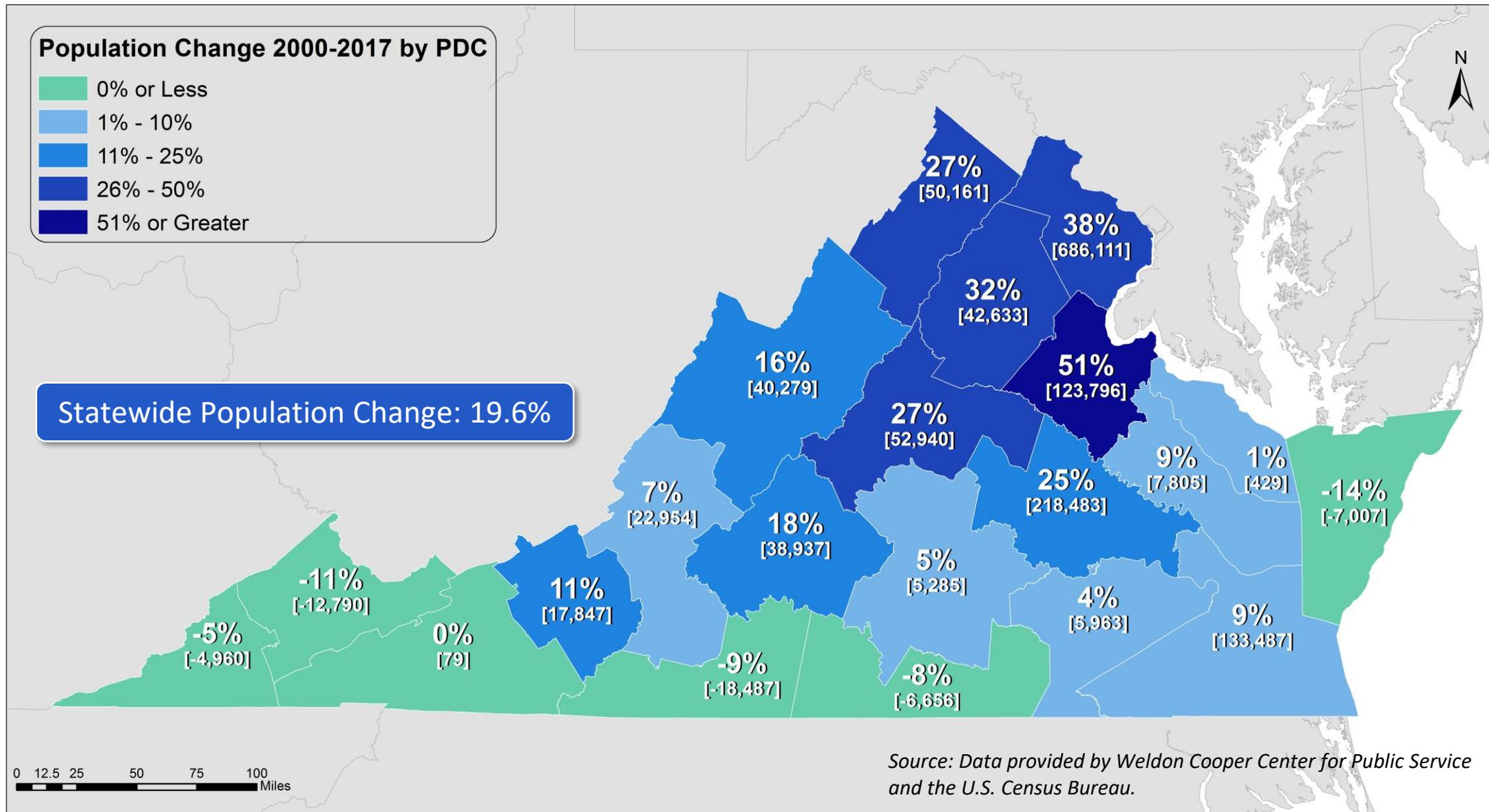


## Percentage of Population (By CTB District)



# HISTORICAL POPULATION CHANGE BY PDC – 2000-2017

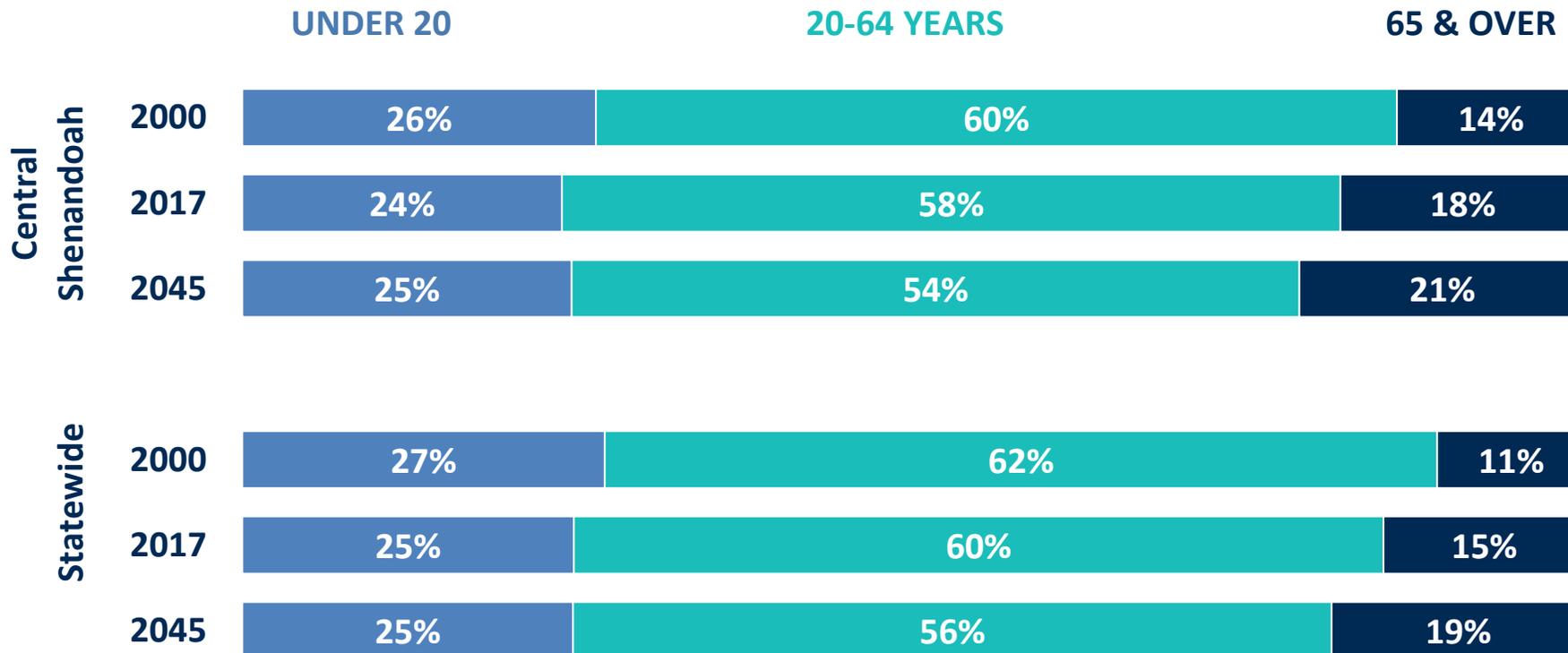
Note: This slide from the original presentation was updated on 6/18/2019



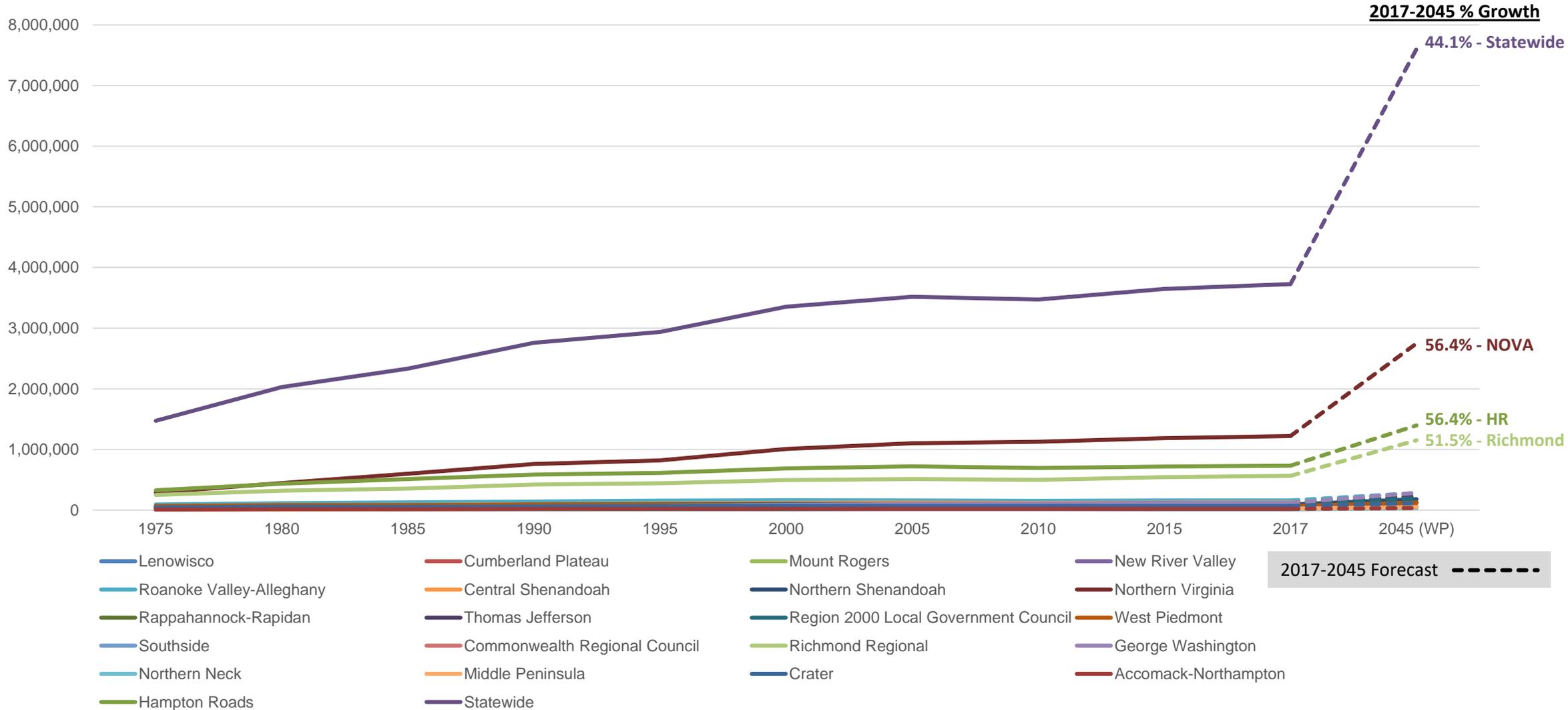


# DEMOGRAPHIC TRENDS: AGE DISTRIBUTION BY PDC

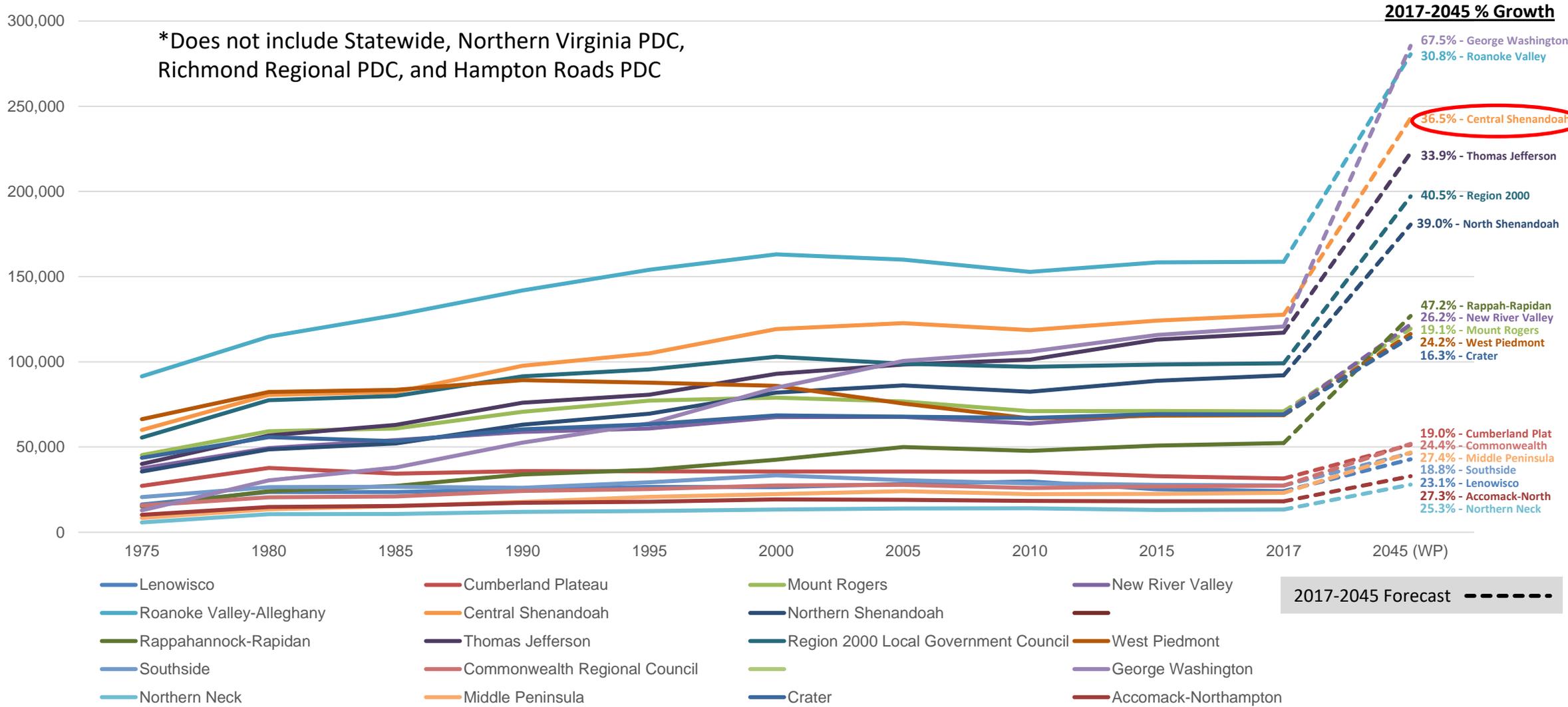
## Central Shenandoah PDC



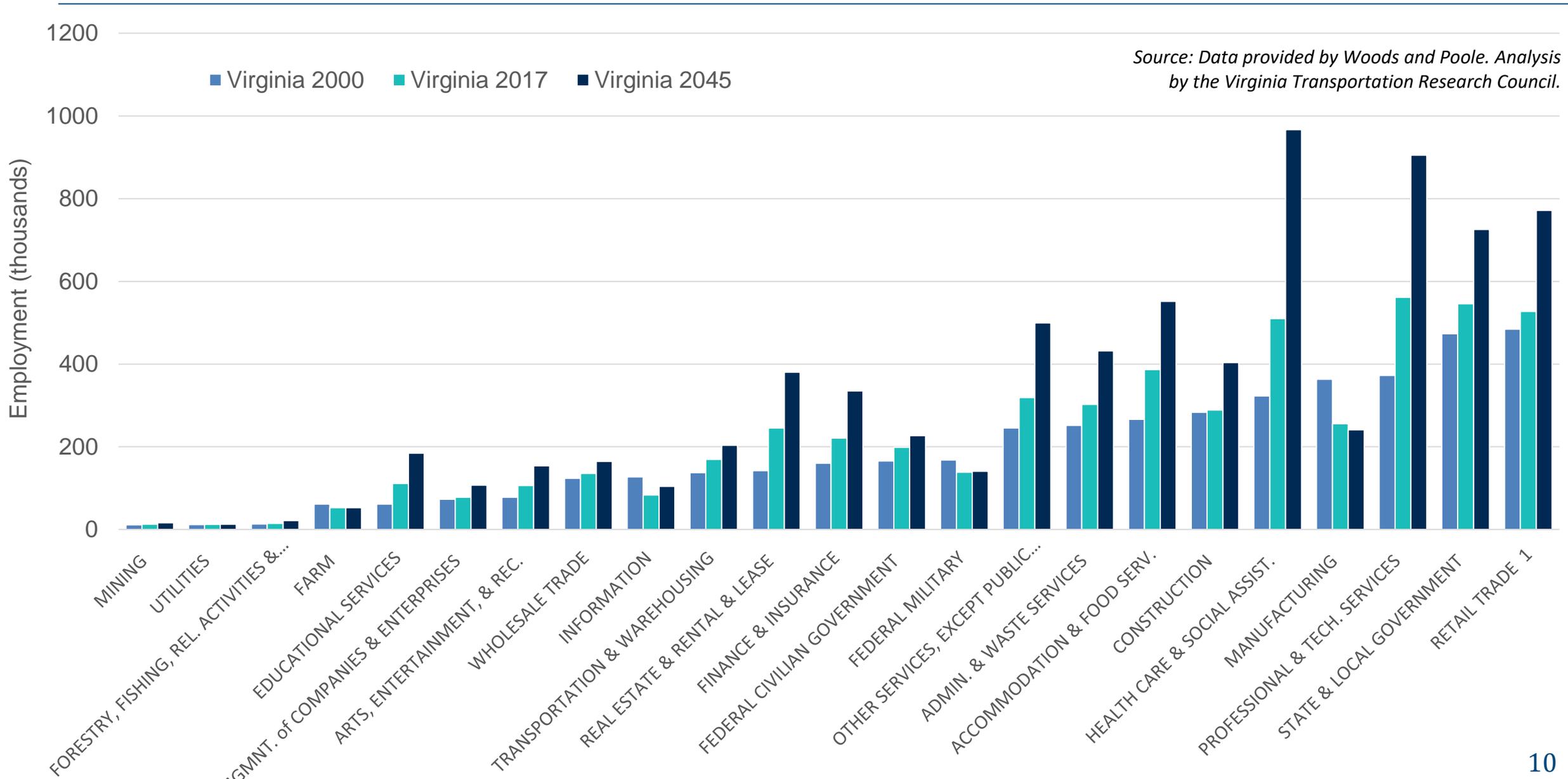
# DEMOGRAPHIC TRENDS: EMPLOYMENT BY PDC – 1975 TO 2045



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

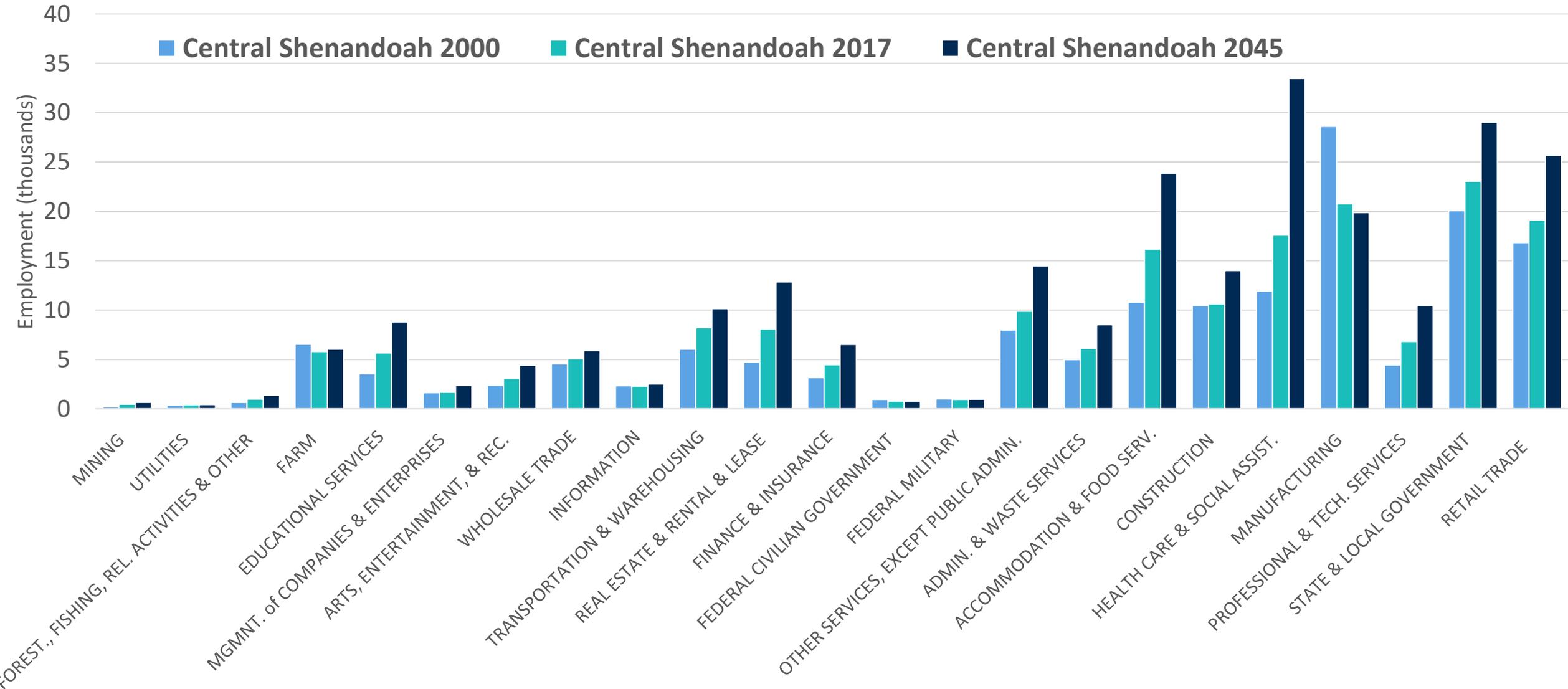


# DEMOGRAPHIC TRENDS: STATEWIDE EMPLOYMENT BY INDUSTRY

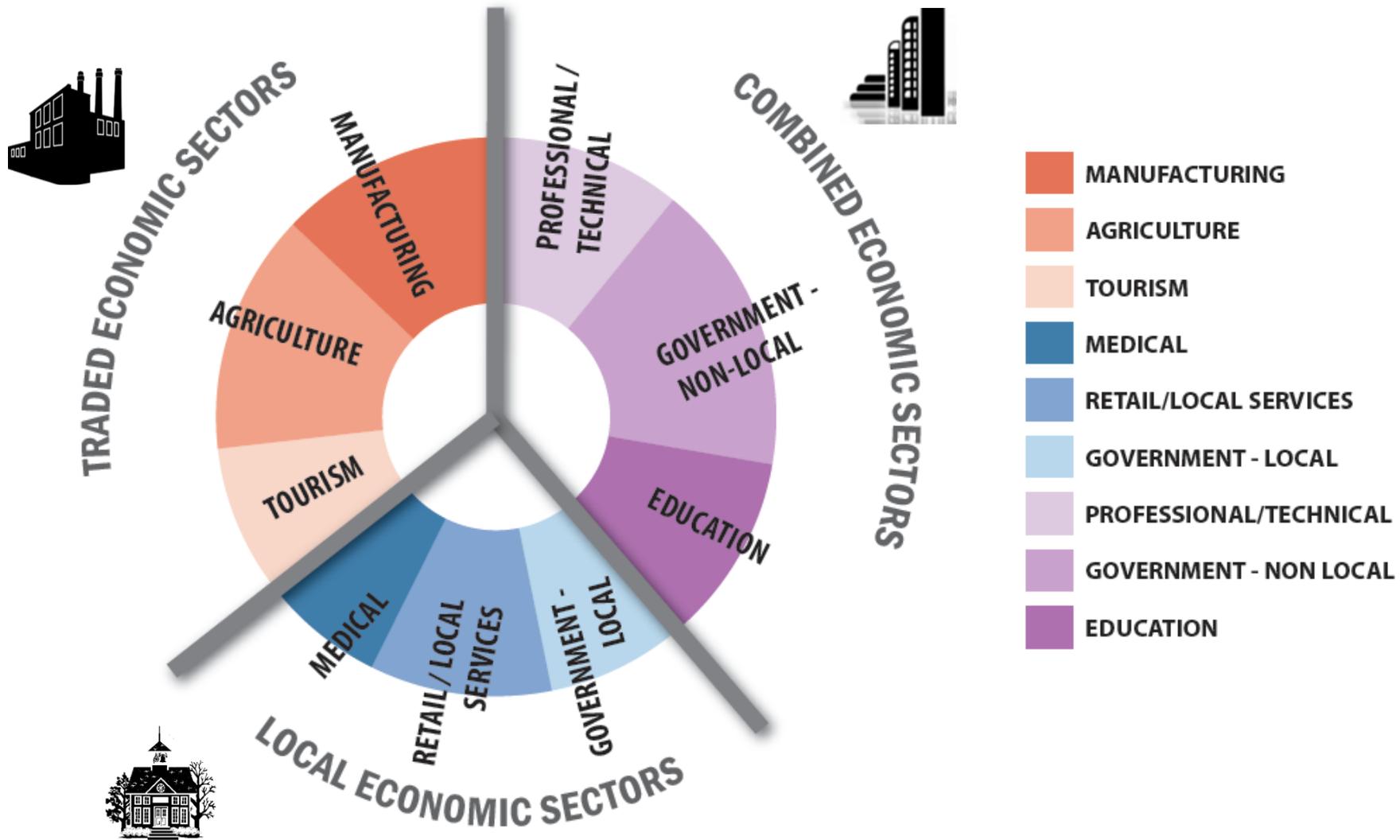


# DEMOGRAPHIC TRENDS: PDC EMPLOYMENT BY INDUSTRY

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



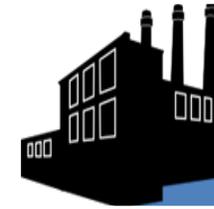
## Knowledge-Based

- Mixed-use development
- Walking between destinations
- Traditional peak commute times
- Airport access



## Local Serving

- Different peak commute times
- Customer traffic
- Trip-chaining destinations
- Truck deliveries



## Freight Dependent

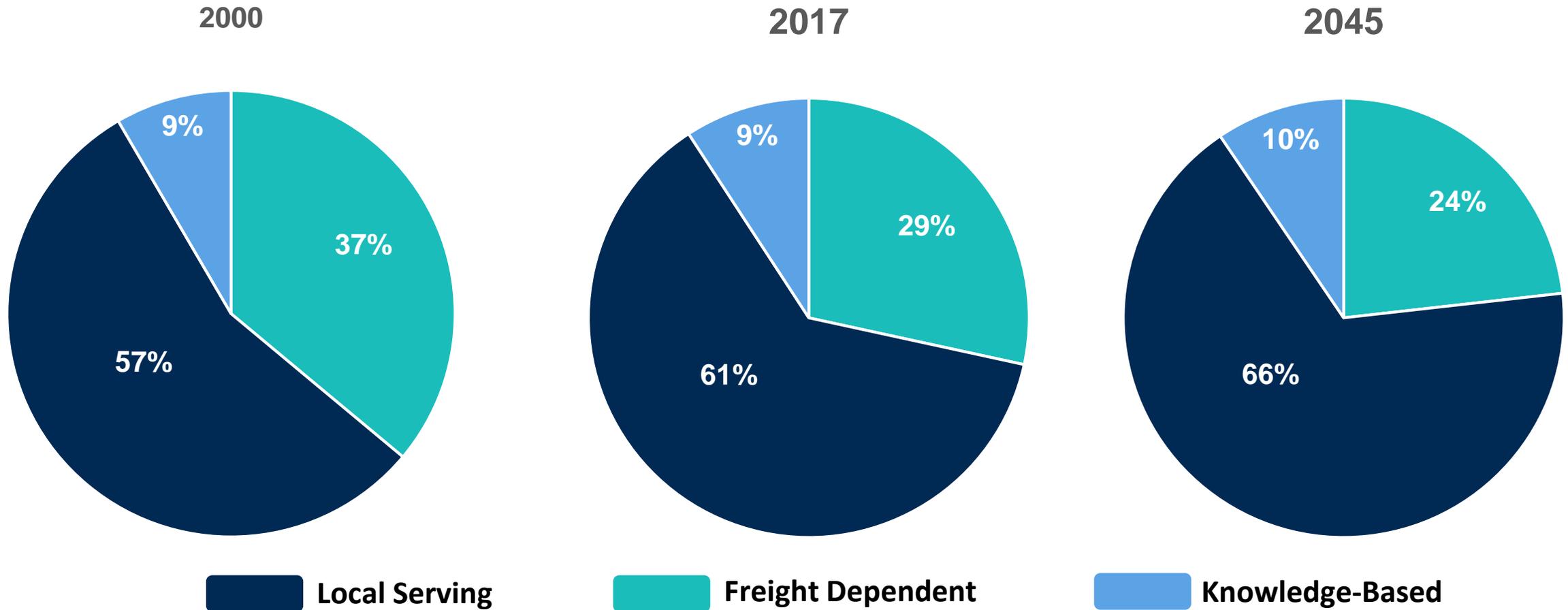
- Shift hours
- Truck origins and destinations
- Rail, port and/or airport access
- Remote locations



# DEMOGRAPHIC TRENDS: PDC EMPLOYMENT BY INDUSTRY

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

## Central Shenandoah



# TRAVEL MARKETS OVERVIEW

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- **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

**Corridors of Statewide Significance\***

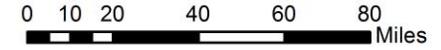
- Coastal Corridor
- Crescent Corridor
- East-West Corridor
- Eastern Shore Corridor
- Heartland Corridor
- North Carolina to West Virginia Corridor
- North-South Corridor
- Northern Virginia Corridor
- Seminole Corridor
- Southside Corridor
- Washington to North Carolina Corridor
- Western Mountain Corridor

\*Thin lines of same color represent Corridor Component Facilities

-  Airports
-  Ports
-  Rail Network

**Travel Markets:**

*Corridors of Statewide Significance serve inter-regional travel.*







## 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 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)
<b>Starting Point</b>	Full Analysis of CoSS	VTrans2040 RN needs	VTrans2040 UDA needs	Full analysis of PSI locations
<b>How will measures be used?</b>	Identification of new needs	Validation of previously identified needs and identification of new needs	Needs must support UDA legislative requirements ( <a href="#">§ 15.2-2223.1</a> )	Identification of new needs
<b>Stakeholder engagement required</b>	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

VTrans2040  
Goals



# DRAFT - MID-TERM NEEDS IDENTIFICATION MEASURES

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

\* Based on availability of data

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

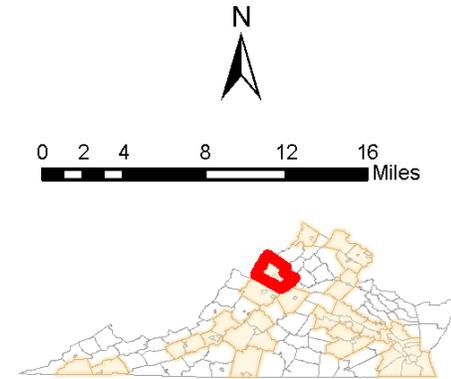
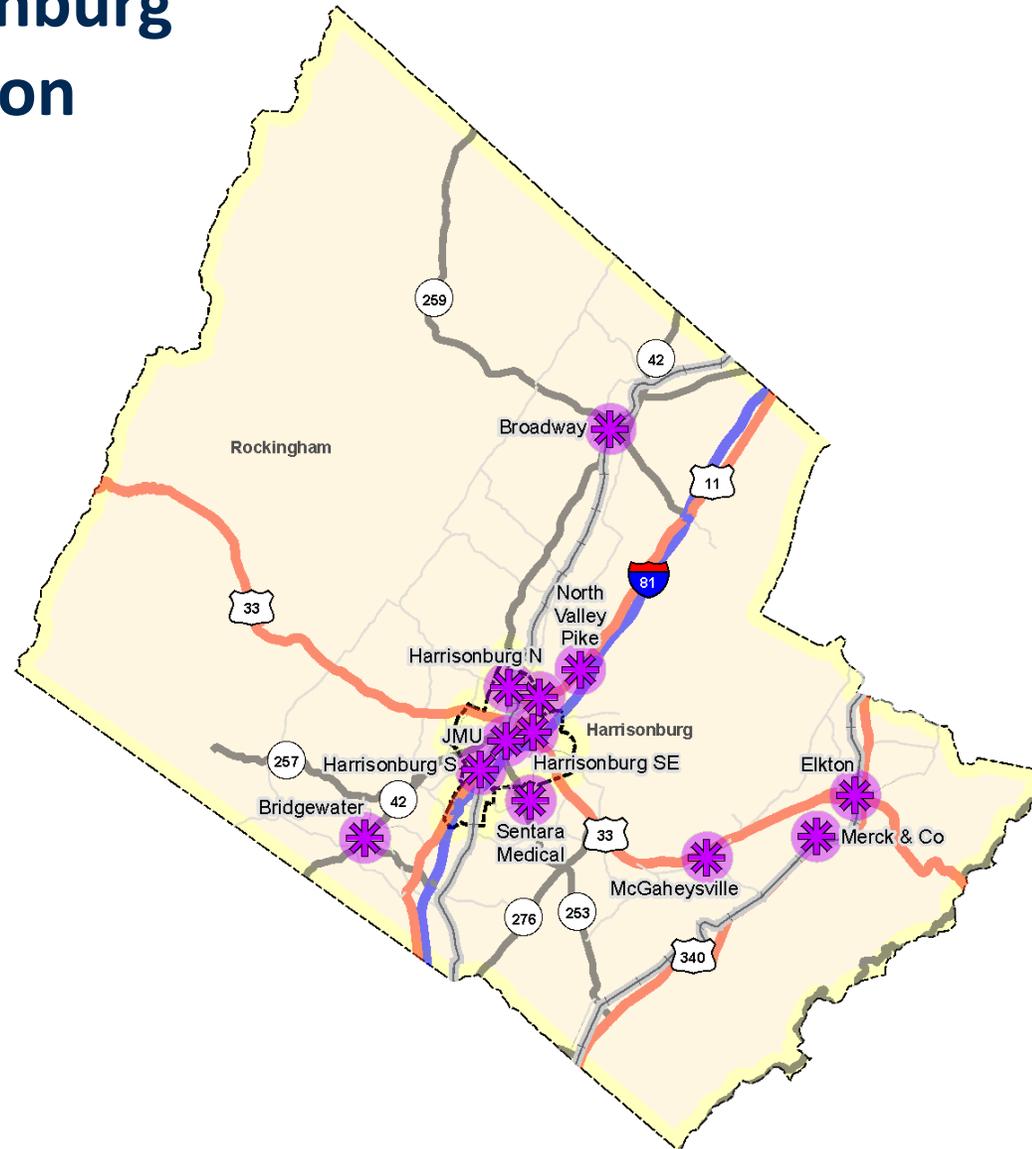
\*\*\* Vehicles defined in federal vehicle classification scheme as Class 5 or greater

# REGIONAL NETWORKS | ACTIVITY CENTERS

## Legend

-  2040 Activity Centers
-  Airports
-  Ports
-  Rail Network
-  Interstate
-  U.S. Route
-  State Route
-  Frontage Road
-  Secondary Route
-  Urban Road
-  Virginia Counties

## Harrisonburg Region

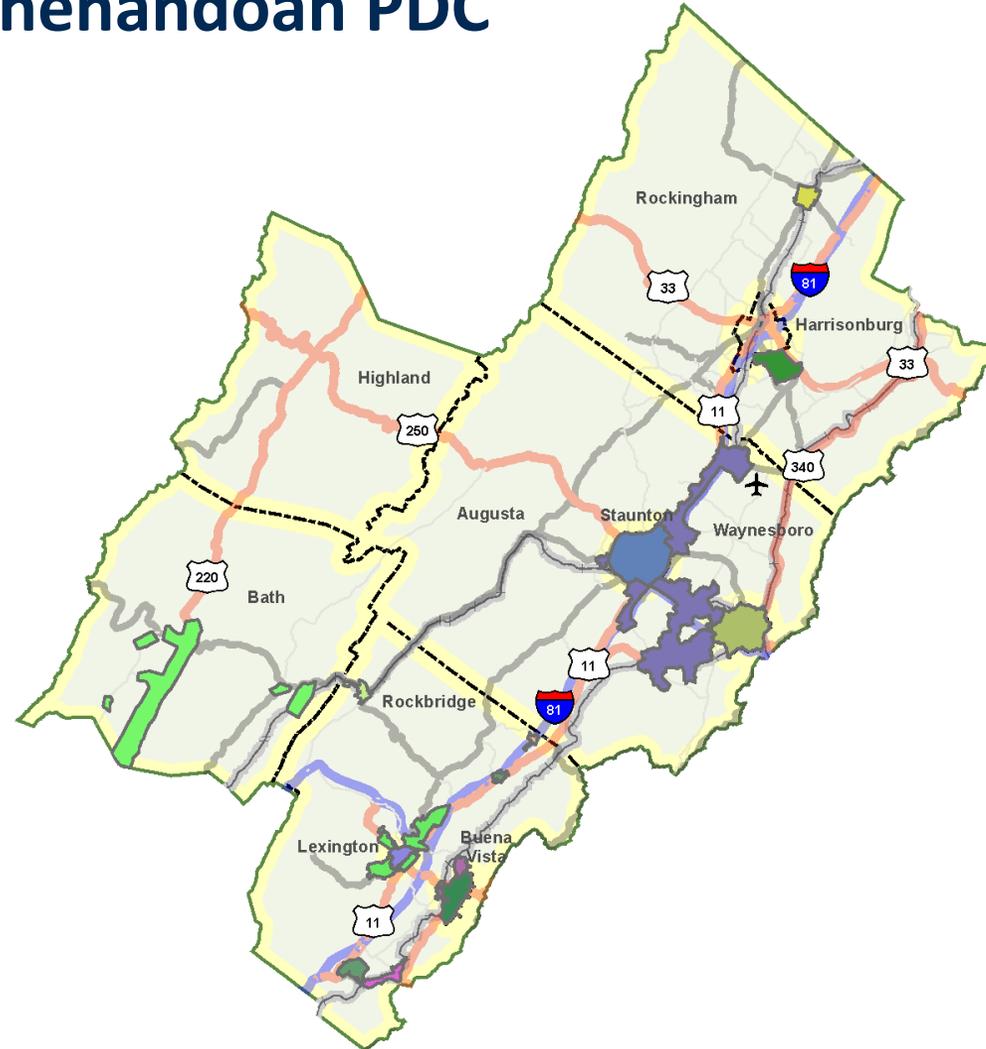


# URBAN DEVELOPMENT AREAS

## Central Shenandoah PDC

### Legend

-  Airports
-  Ports
-  Rail Network
-  Virginia Counties
-  Interstate
-  U.S. Route
-  State Route
-  Frontage Road
-  Secondary Route
-  Urban Road



### UDA Boundaries as of February 2019

-  Augusta County DGAs
-  Bath County DGA
-  City of Lexington - City of Lexington
-  Rockbridge County-Buena Vista area
-  Rockbridge County-Fairfield Area
-  Rockbridge County-Glasgow
-  Rockbridge County-Goshen
-  Rockbridge County-Lexington Area
-  Rockbridge County-Raphine Area
-  Rockingham County UDA
-  Staunton City
-  Town of Broadway UDA
-  Town of Buena Vista UDA
-  Waynesboro City-Entire City

+ Harrisonburg (city limits)



# UDA NEEDS UPDATE PROCESS OVERVIEW

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- 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

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- Historic crash data being transferred to VDOT's current linearly-referenced 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
May 30th	Webinar - same as presentation to MPOs	Provide feedback at MPO meetings; PDC role - profile feedback
June 14th	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

# 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)



# QUESTIONS/DISCUSSION

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## OIPI Staff Contact Information:

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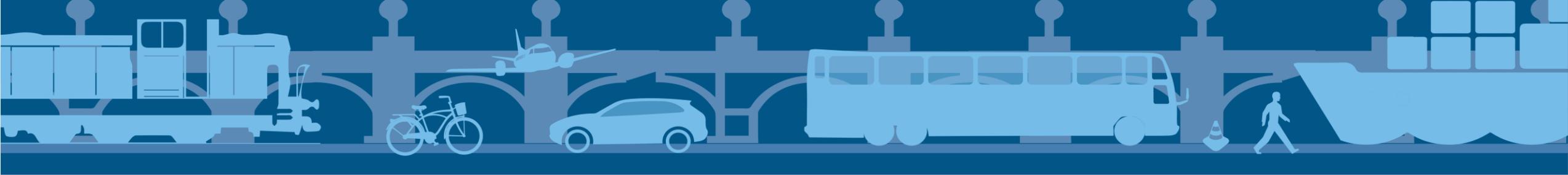
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THANK YOU!

**VTRANS**



VIRGINIA'S  
TRANSPORTATION PLAN