



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

VTrans Update

SAWMPO TAC Meeting

Katie Schwing, OIPI

Wednesday, May 15th, 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)

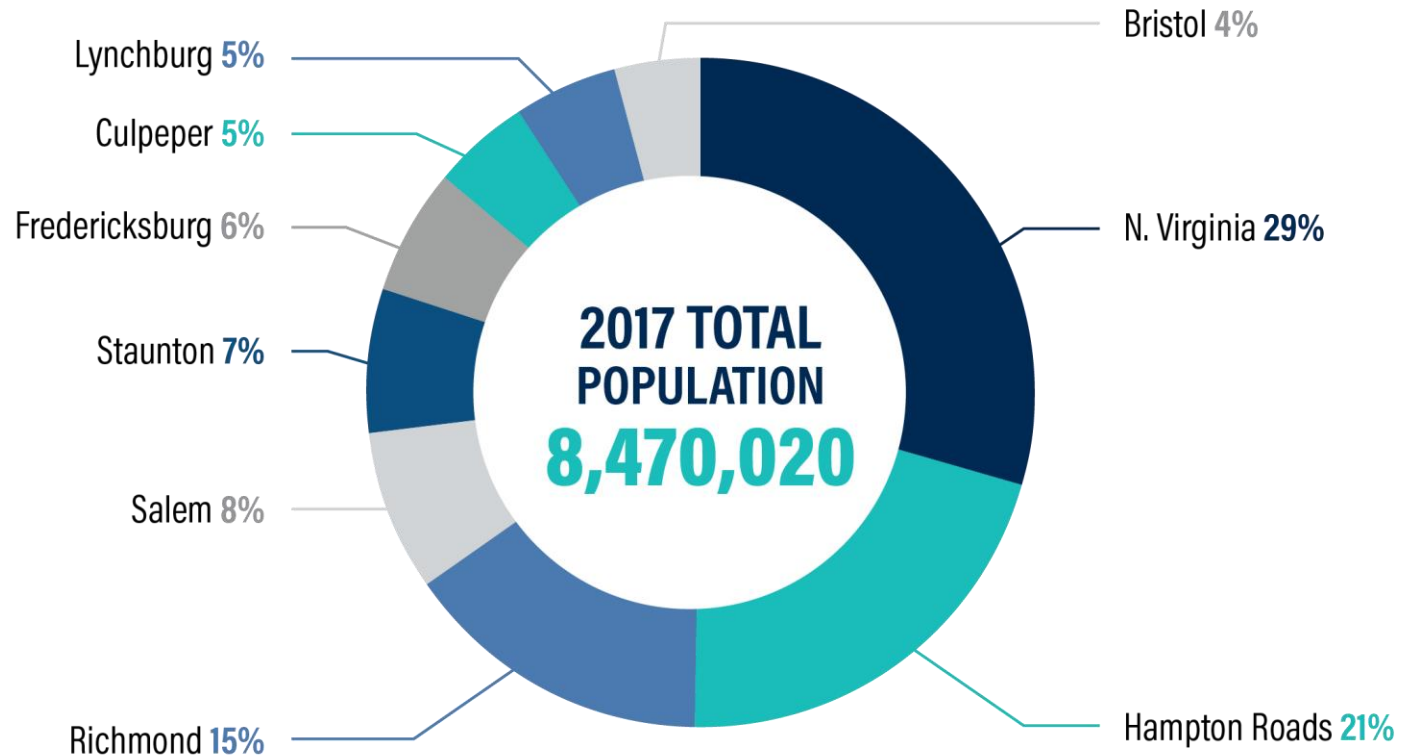


TRANSPORTATION'S ROLE IN ECONOMY

- 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

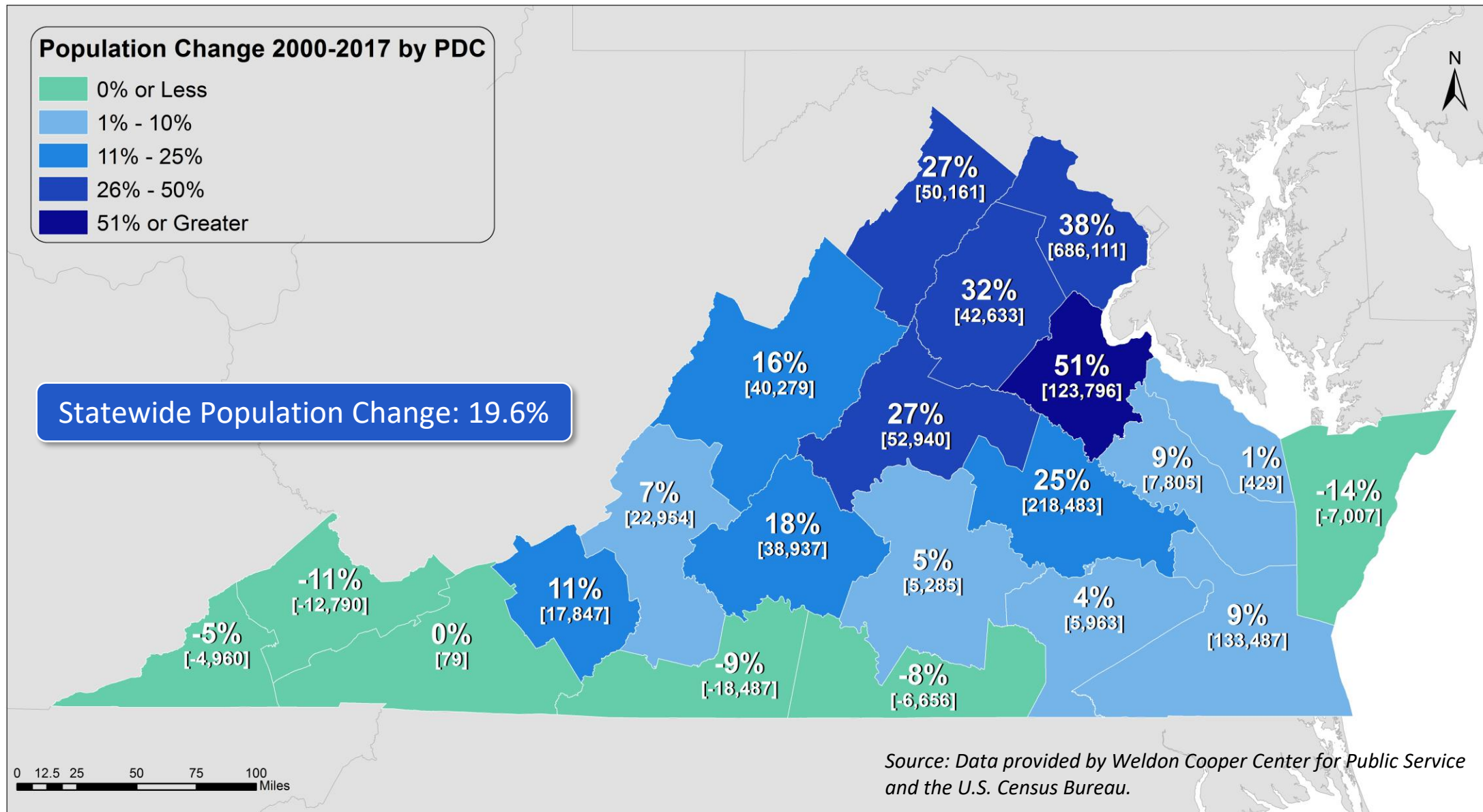


Percentage of Population (By CTB District)



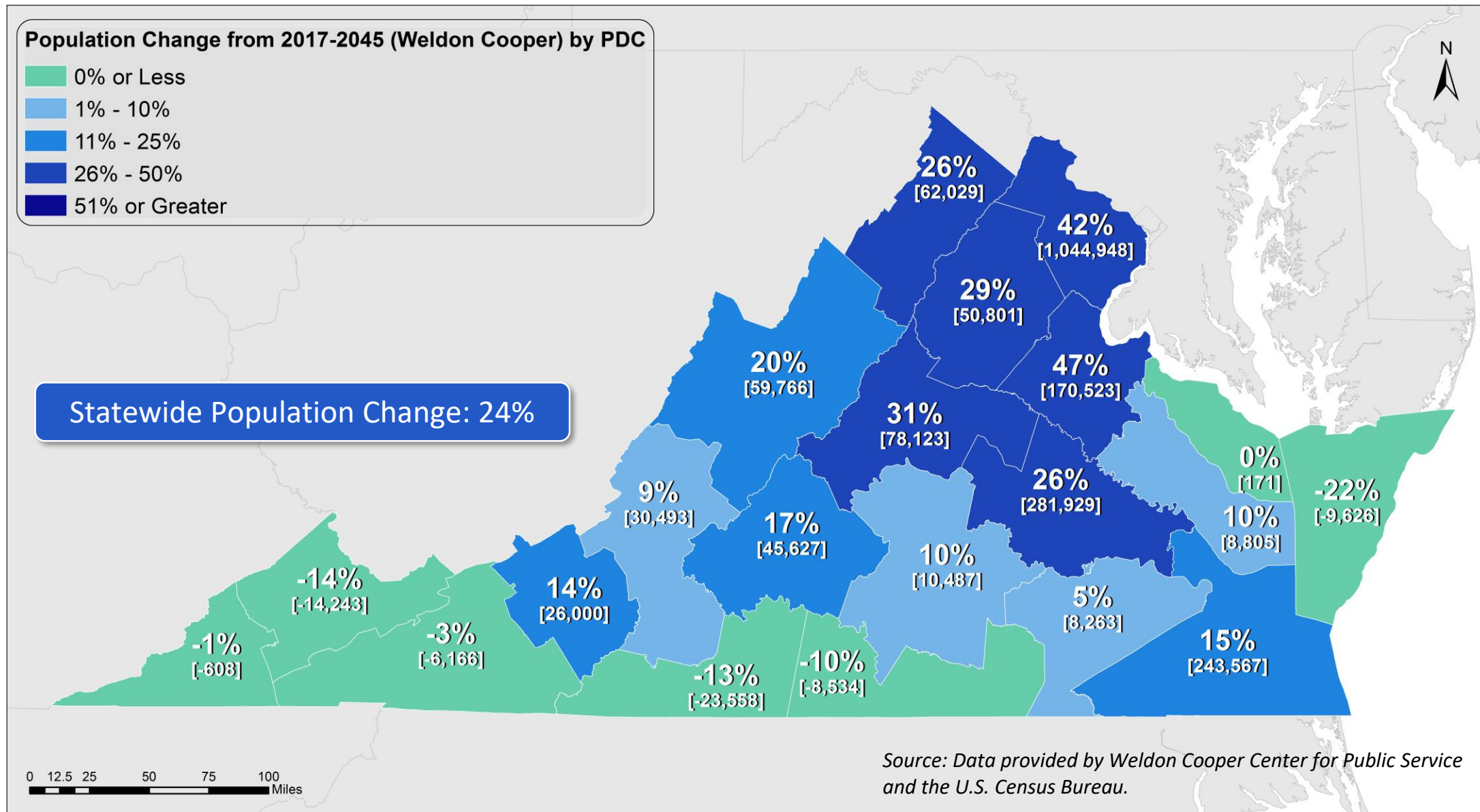
HISTORICAL POPULATION CHANGE BY PDC – 2000-2017

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



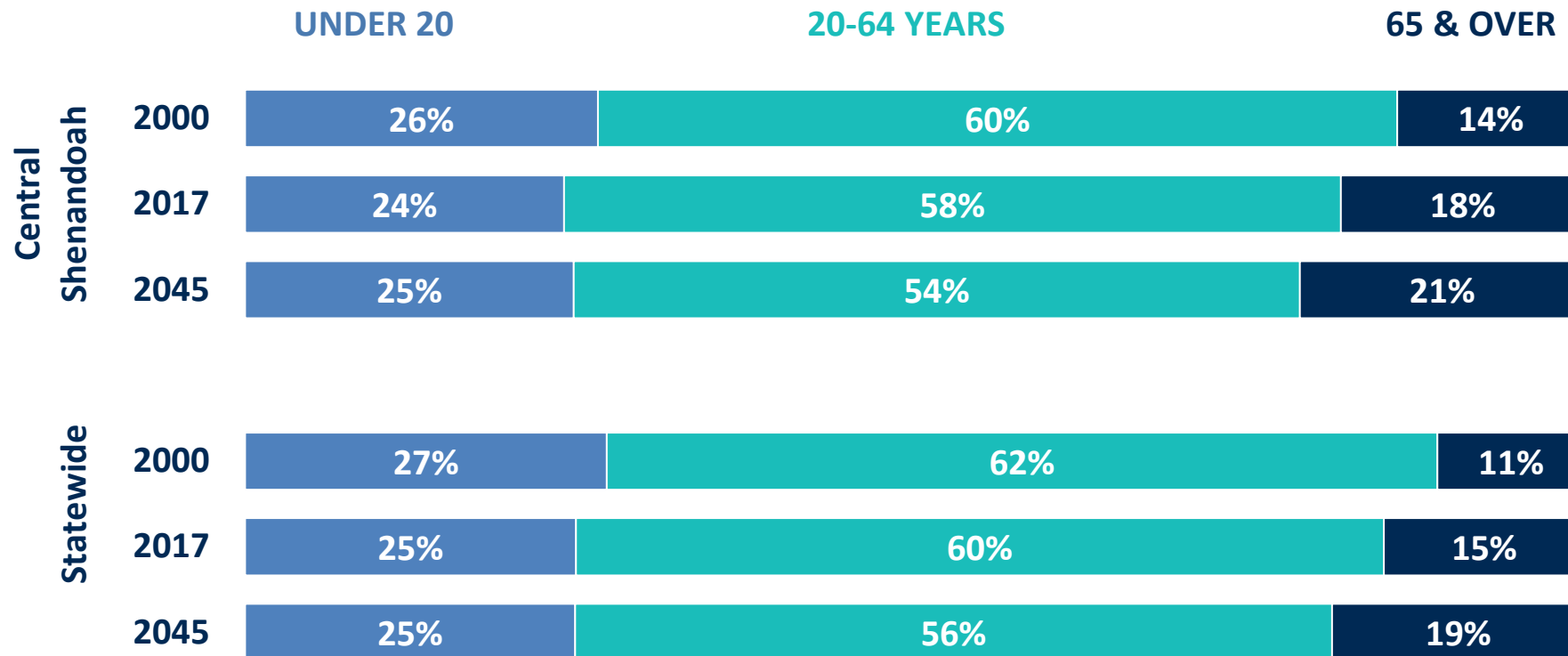
POPULATION FORECAST CHANGE BY PDC – 2017-2045

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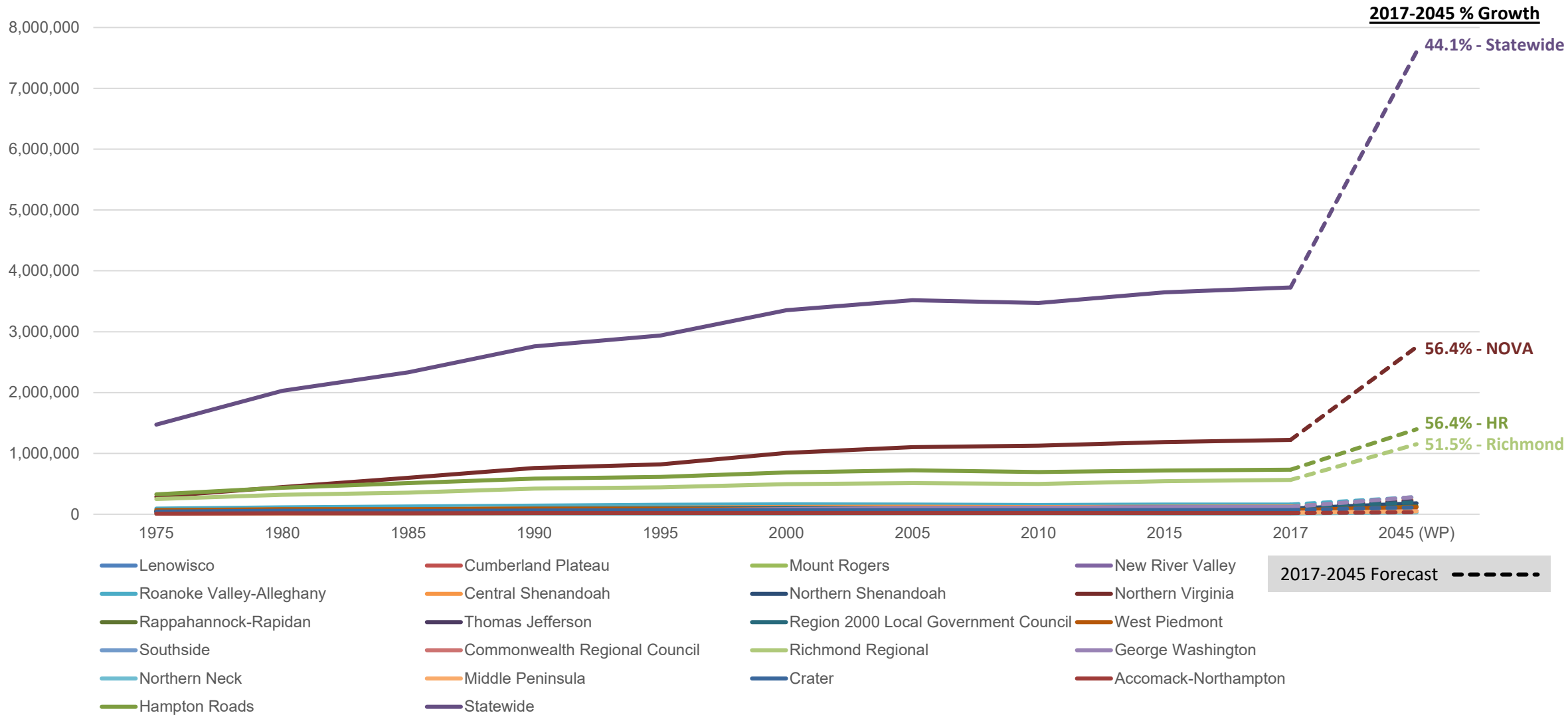


DEMOGRAPHIC TRENDS: AGE DISTRIBUTION BY PDC

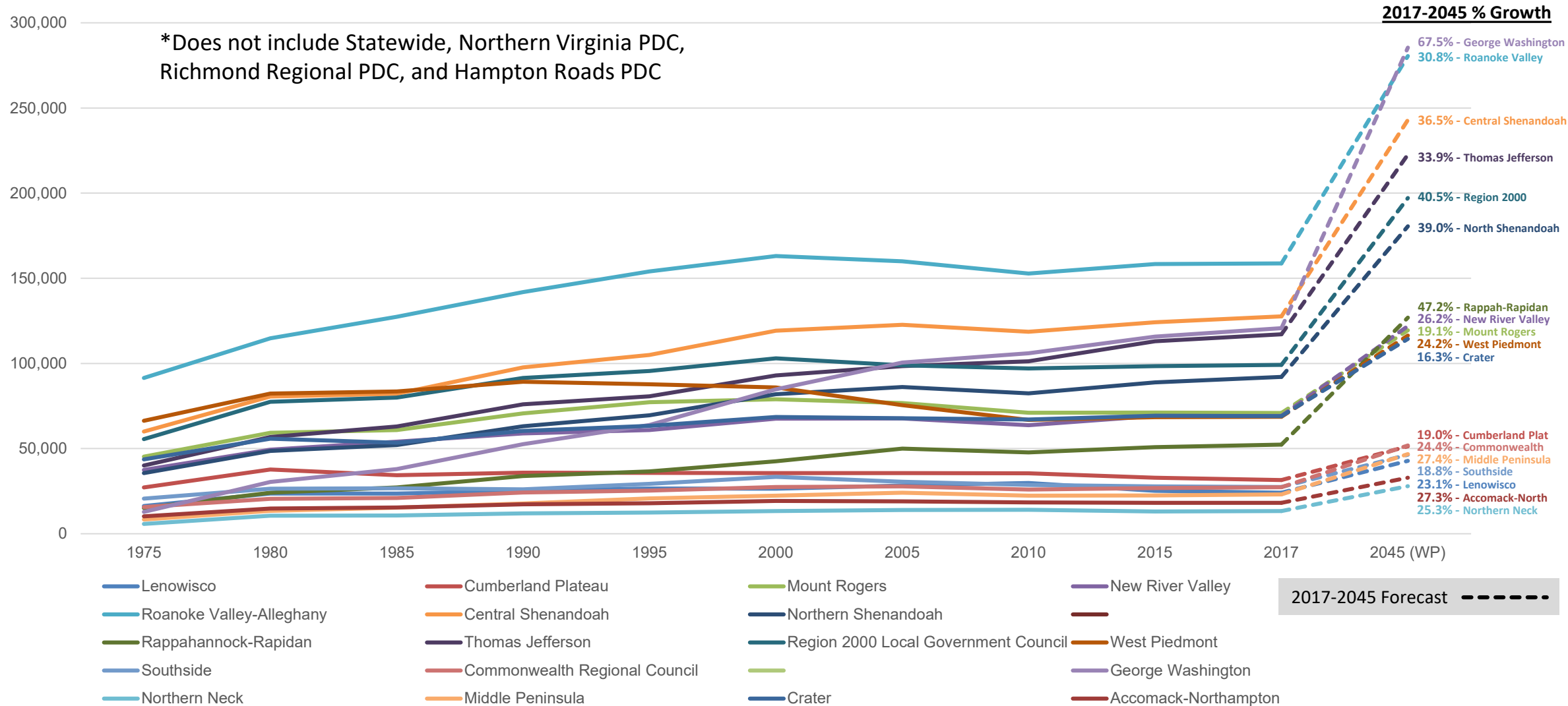
Central Shenandoah



DEMOGRAPHIC TRENDS: EMPLOYMENT BY PDC – 1975 TO 2045

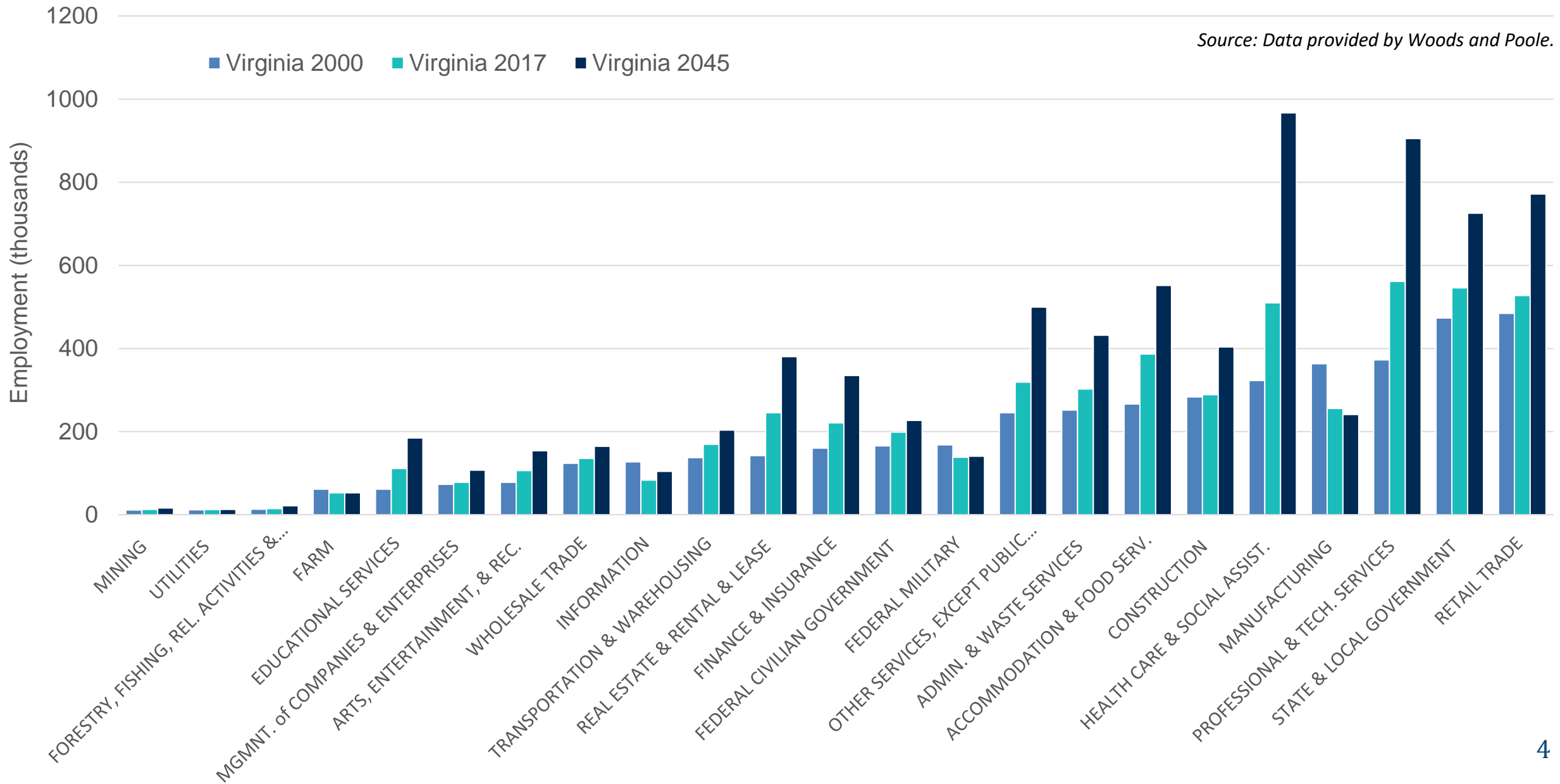


DEMOGRAPHIC TRENDS: EMPLOYMENT BY PDC – 1975 TO 2045*



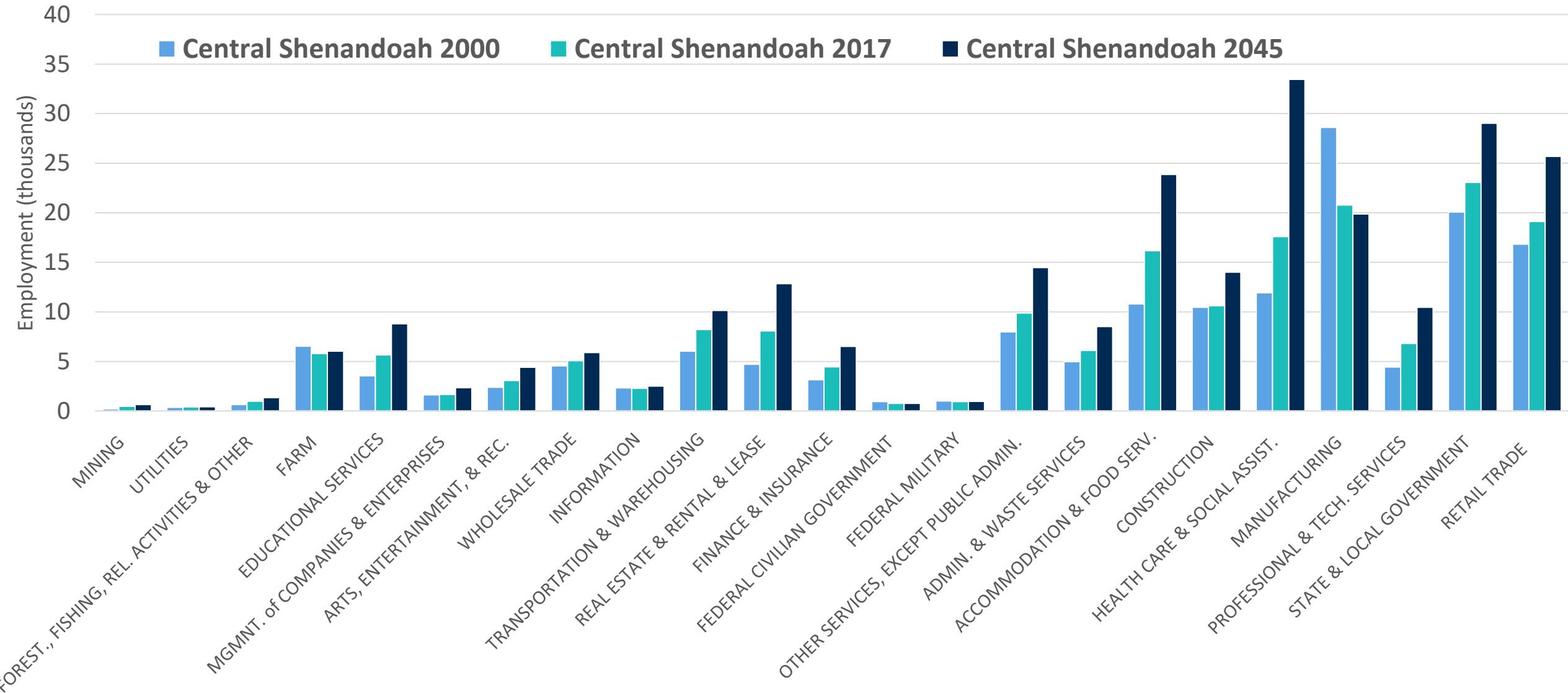
DEMOGRAPHIC TRENDS: STATEWIDE EMPLOYMENT BY INDUSTRY

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

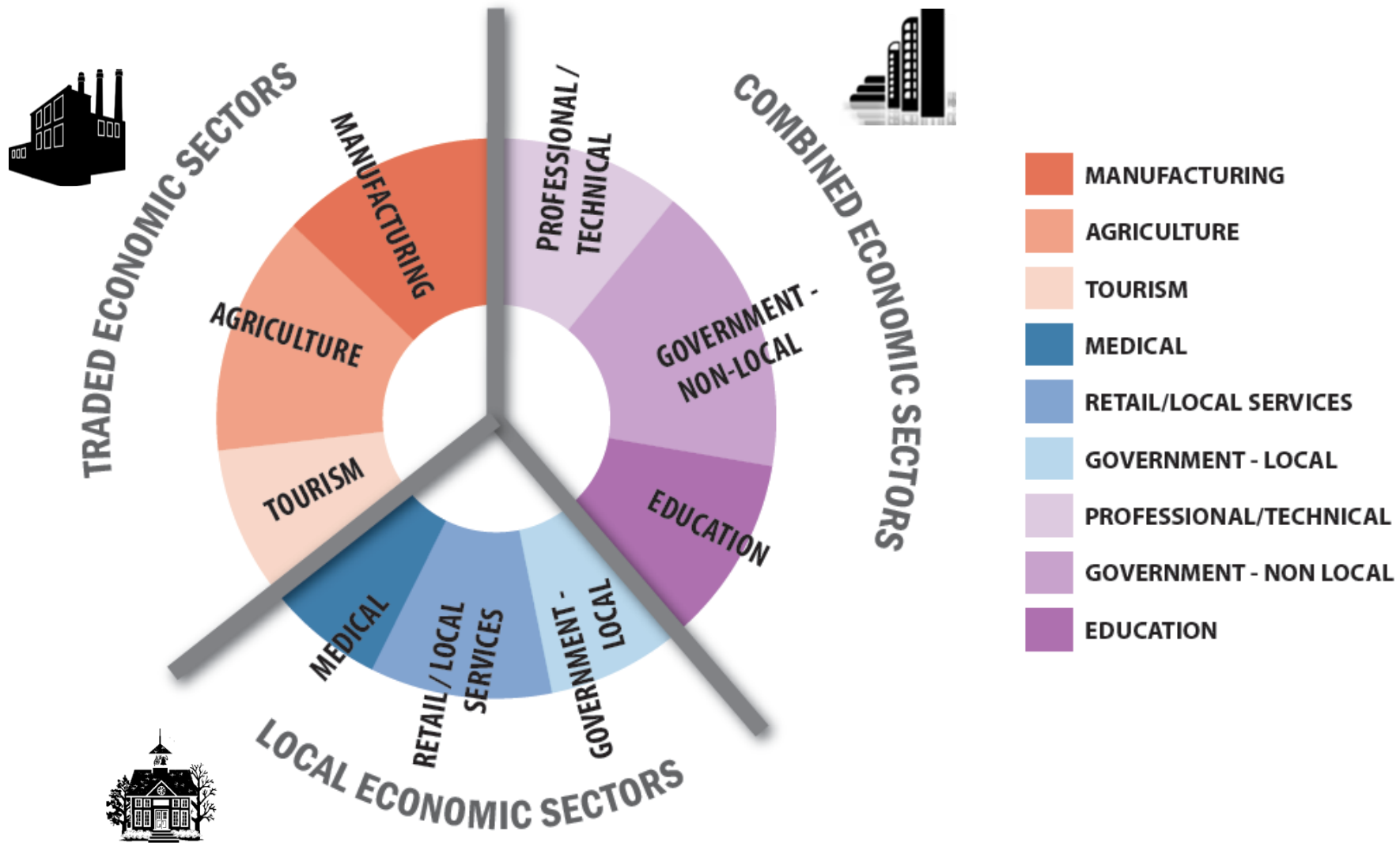


DEMOGRAPHIC TRENDS: PDC EMPLOYMENT BY INDUSTRY

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



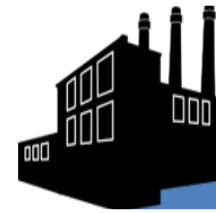
Knowledge-Based

- 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

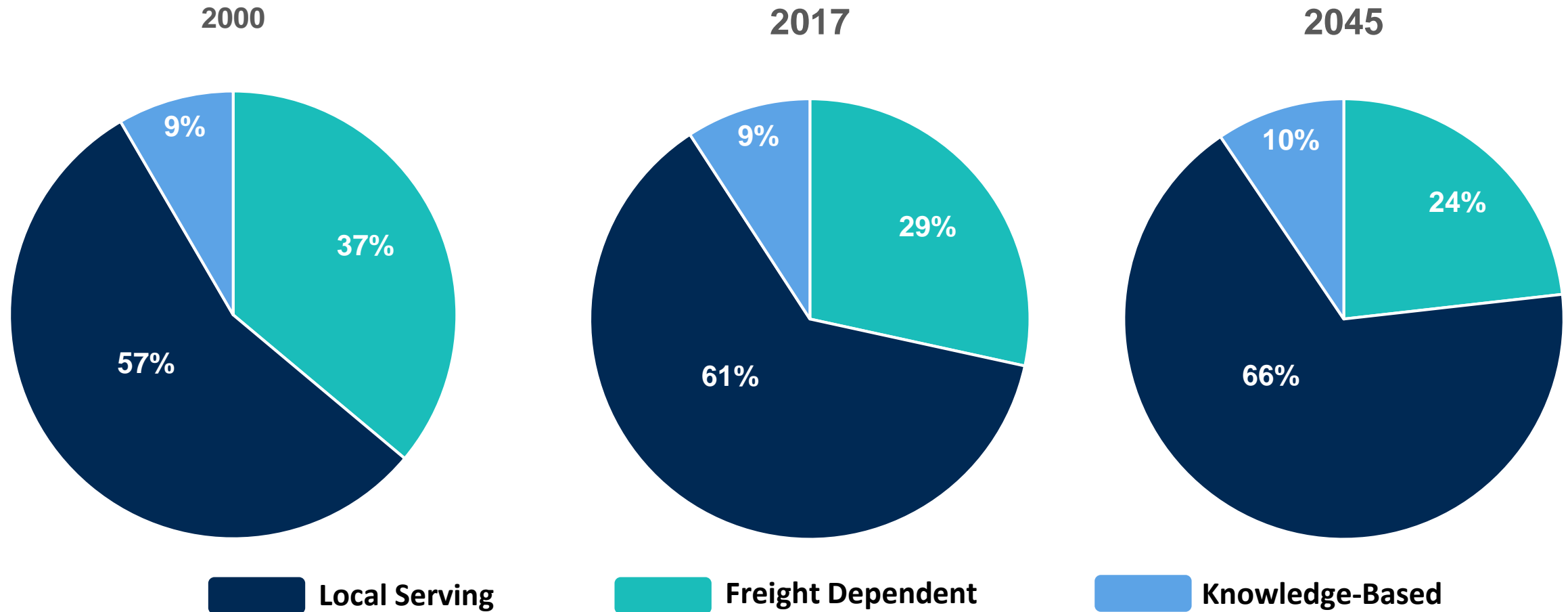
- Shift hours
- Truck origins and destinations
- Rail, port and/or airport access
- Remote locations



DEMOGRAPHIC TRENDS: PDC EMPLOYMENT BY INDUSTRY

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

Central Shenandoah






TRAVEL MARKETS OVERVIEW

- **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*

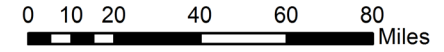
- Coastal Corridor
- Crescent Corridor
- East-West Corridor
- Eastern Shore Corridor
- Heartland Corridor
- North Carolina to West Virginia Corridor
- North-South Corridor
- Northern Virginia Corridor
- Seminole Corridor
- Southside Corridor
- Washington to North Carolina Corridor
- Western Mountain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

*Thin lines of same color represent Corridor Component Facilities

-  Airports
-  Ports
-  Rail Network

Travel Markets:





Corridors of Statewide Significance serve inter-regional travel.



Corridors of Statewide Significance*

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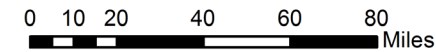
*Thin lines of same color represent Corridor Component Facilities

-  Airports
-  Ports
-  Rail Network
-  Regional Networks

Travel Markets:

Corridors of Statewide Significance serve inter-regional travel.

Regional Networks serve commuters, intra-regional and local 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)
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

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 50th percentile for segment and time period

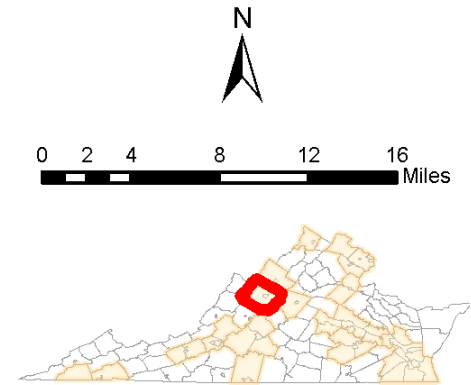
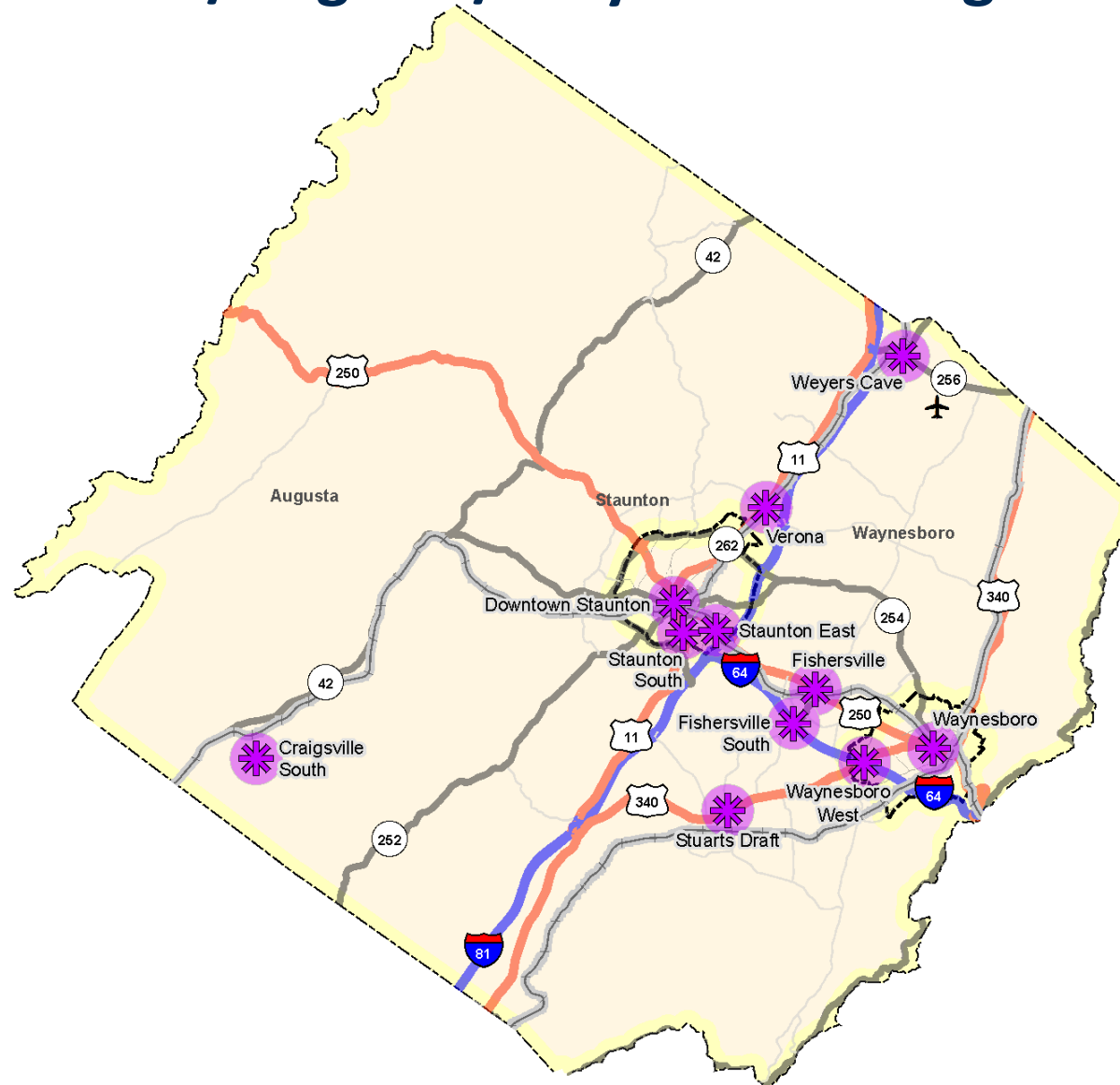
*** Vehicles defined in federal vehicle classification scheme as Class 5 or greater

REGIONAL NETWORKS | ACTIVITY CENTERS

Staunton/Augusta/Waynesboro Region

Legend











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

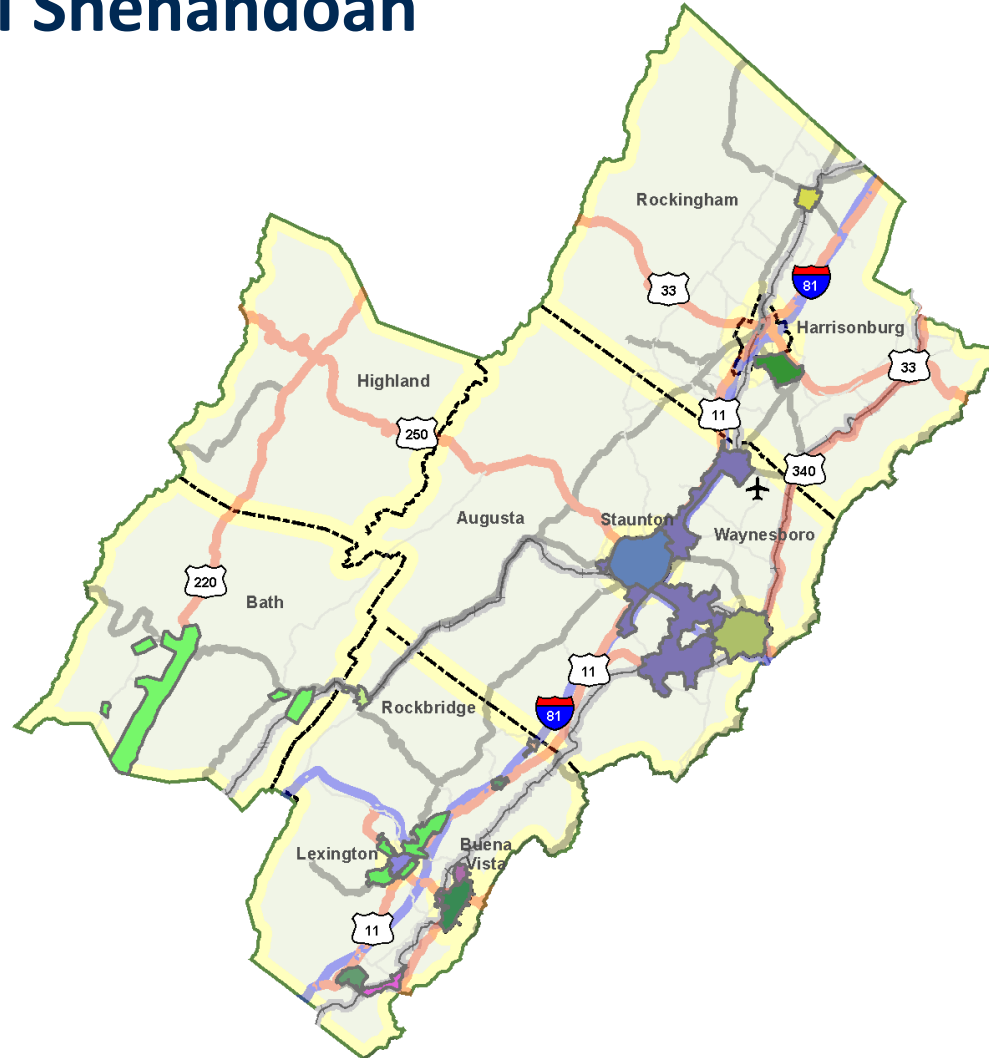
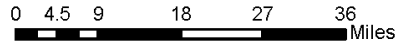


URBAN DEVELOPMENT AREAS















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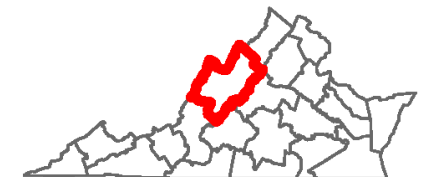
Legend

-  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



UDA NEEDS 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 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
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 st	Draft Mid-Term Needs will be sent out to MPO's (and made available publicly as well)	Review
September 1 st to early October	OIPI Staff will go out to MPO's to discuss the draft Mid-Term Needs	Attend
October 16 th	October CTB meeting: Present draft needs and any feedback we've heard	N/A
December 11 th	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

OIPI Staff Contact Information:

Name	Phone	Email
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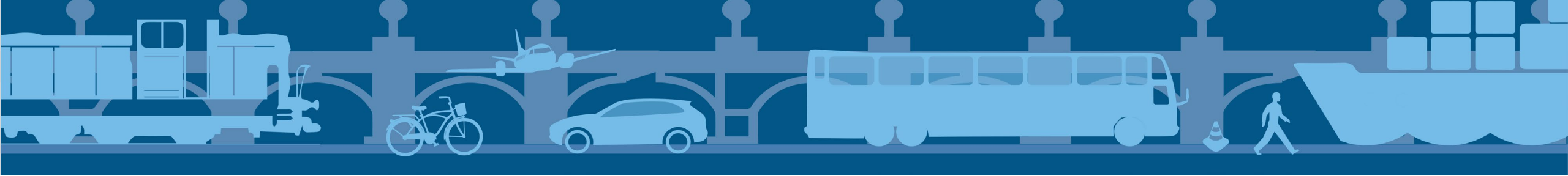
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