



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

VTrans Update

TPB Technical Committee

Katie Schwing, OIPI

Friday, June 7, 2019

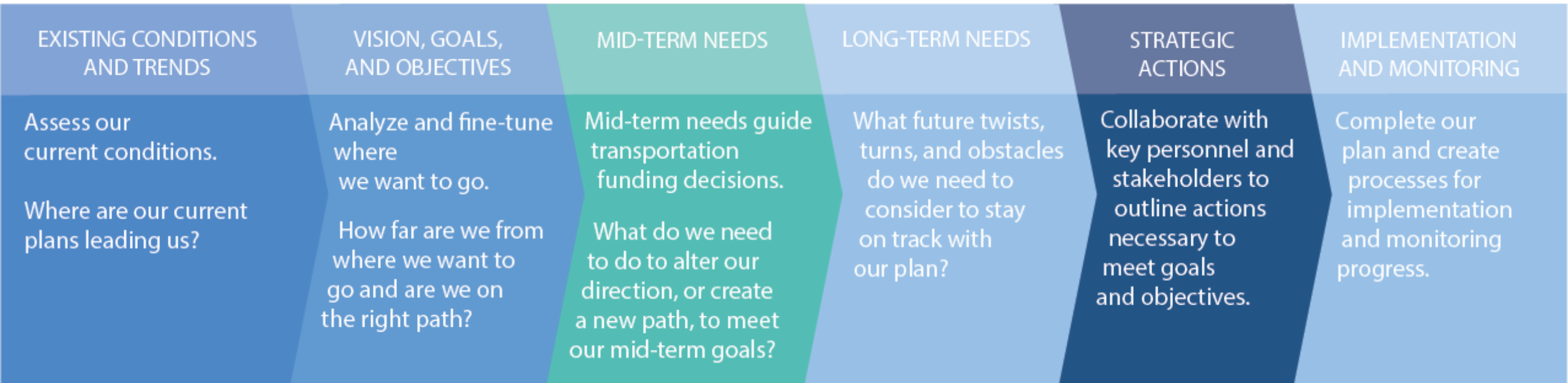
Item 5



WHAT IS VTRANS?

- *VTrans* is Virginia's Multimodal Transportation Plan.
 - Provides a backdrop for consistent and coordinated performance-based transportation planning between federal, state, regional, and local agencies.
 - Performance-based, multimodal, long-range plan that is coordinated with MPO's and other stakeholders.
 - Includes a Needs Assessment
 - Updated at least every four years
 - *VTrans* has a statewide perspective and is not a compilation of local or regional plans

WHAT IS THE VTRANS PLANNING PROCESS?



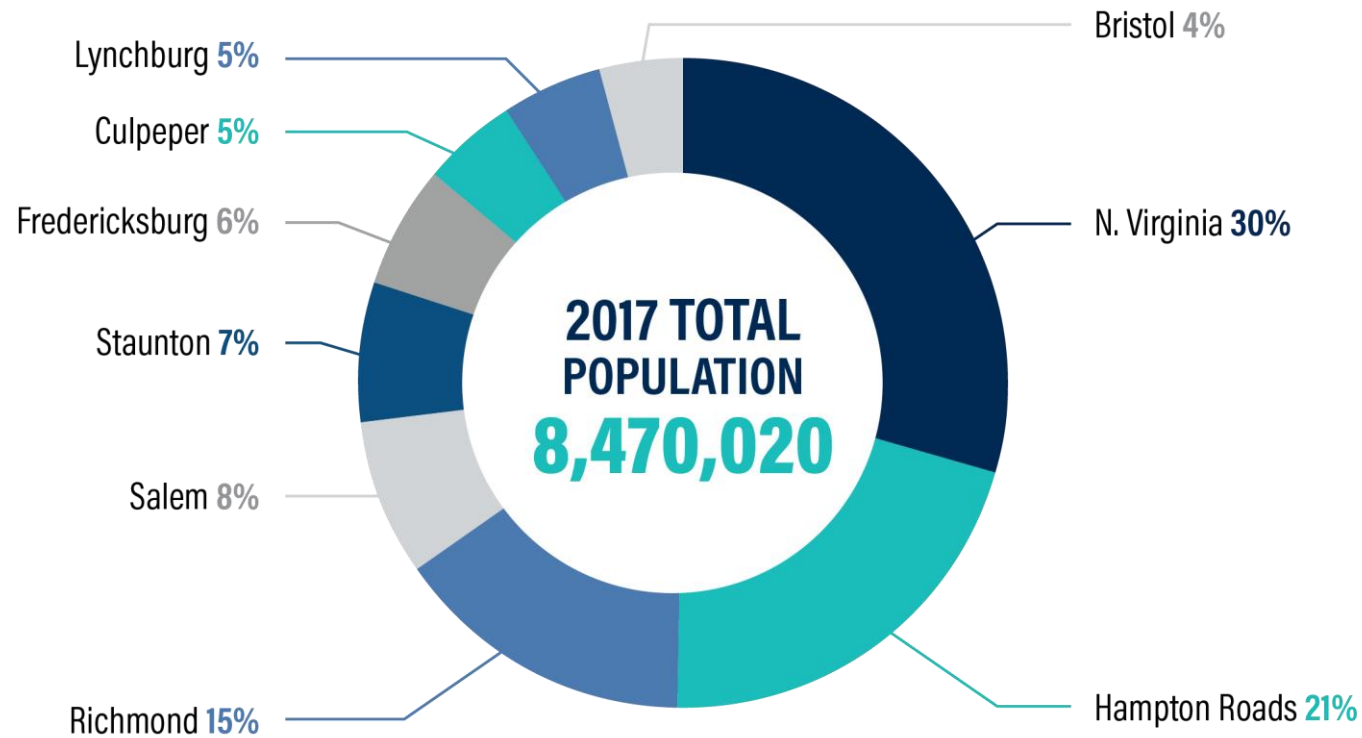
VTRANS GOALS

**VTrans2040
Goals**

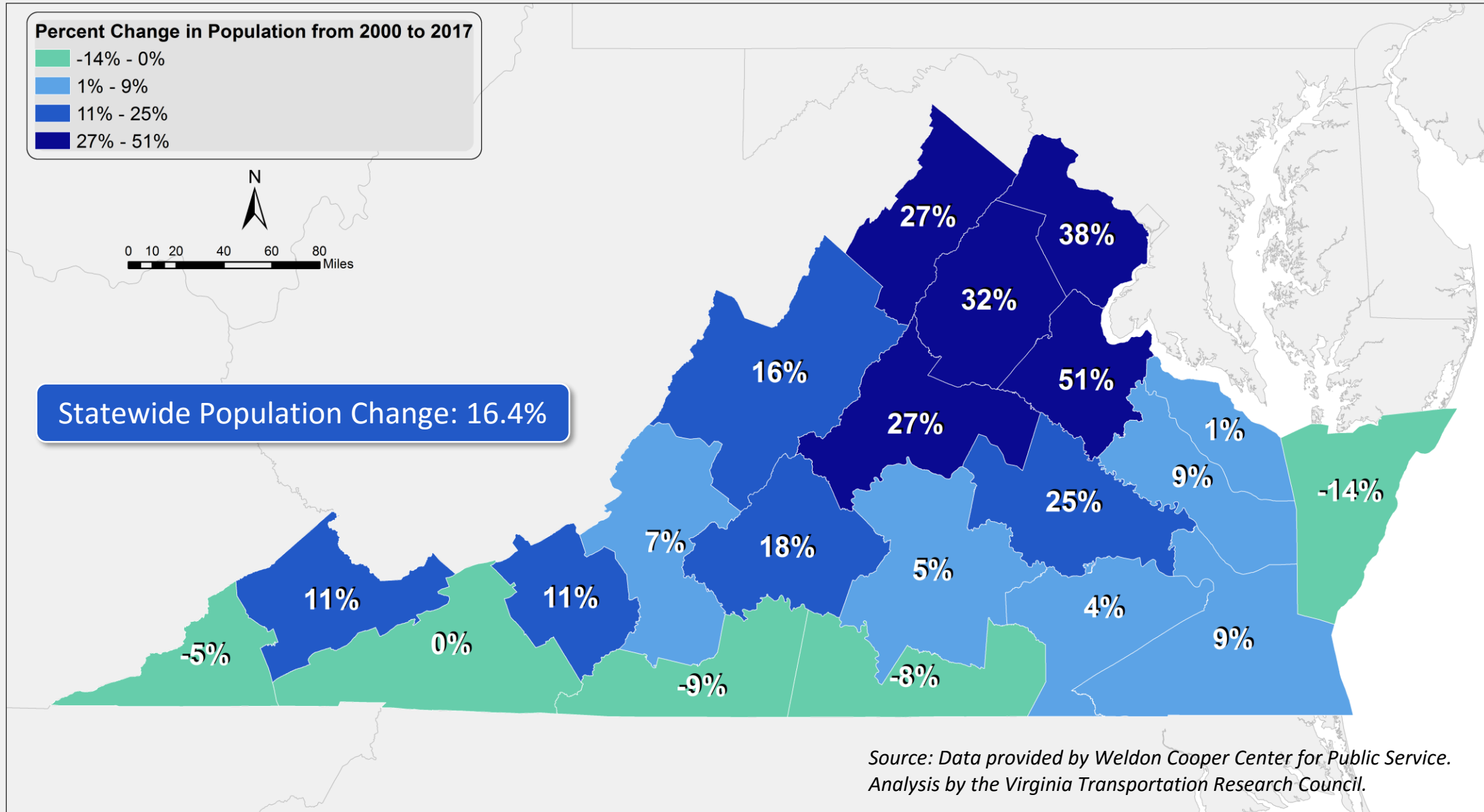


DEMOGRAPHIC TRENDS: POPULATION BY CTB DISTRICT

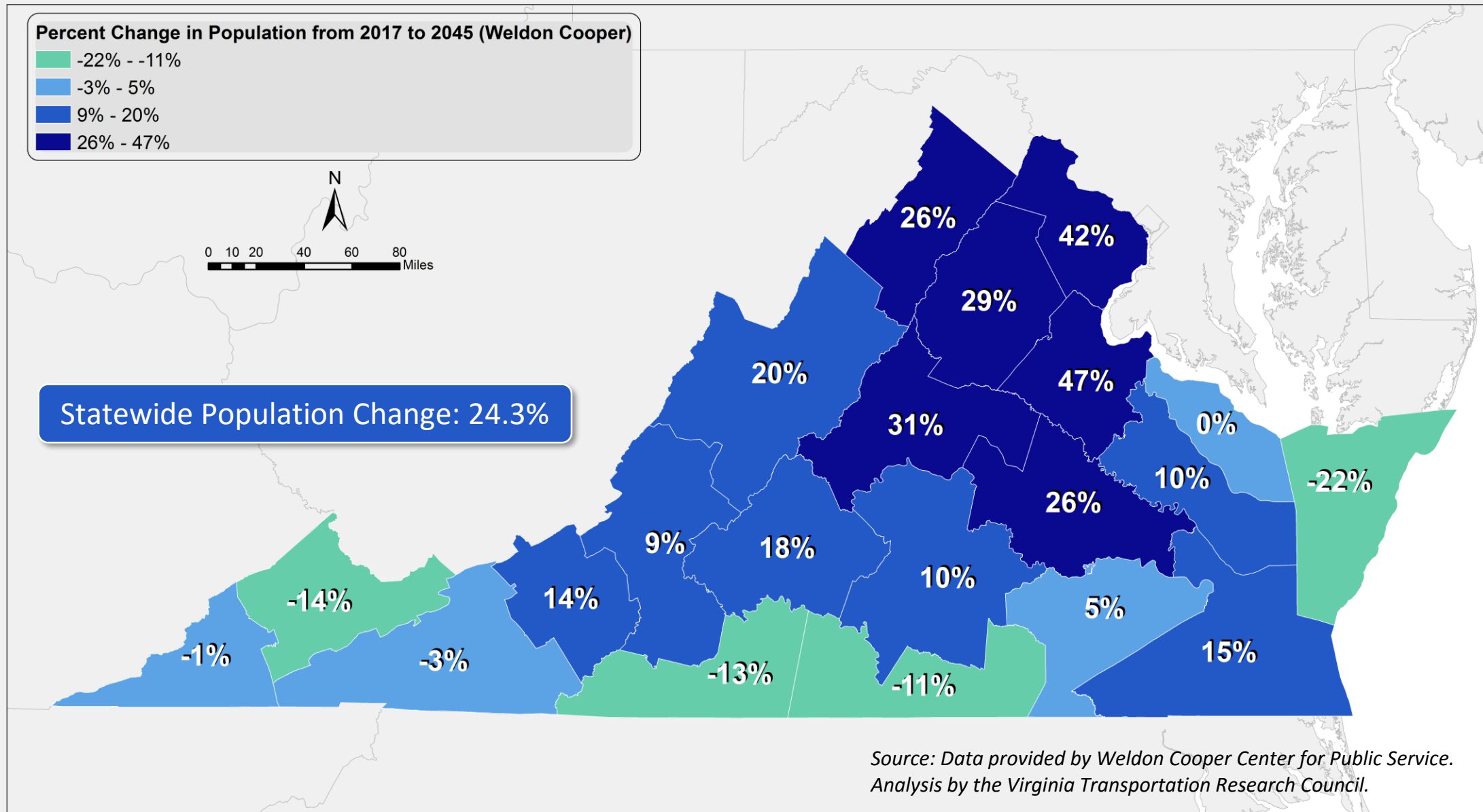
Percentage of Population *(By CTB District)*



DEMOGRAPHIC TRENDS: POPULATION CHANGE BY PDCs – 2000-2017

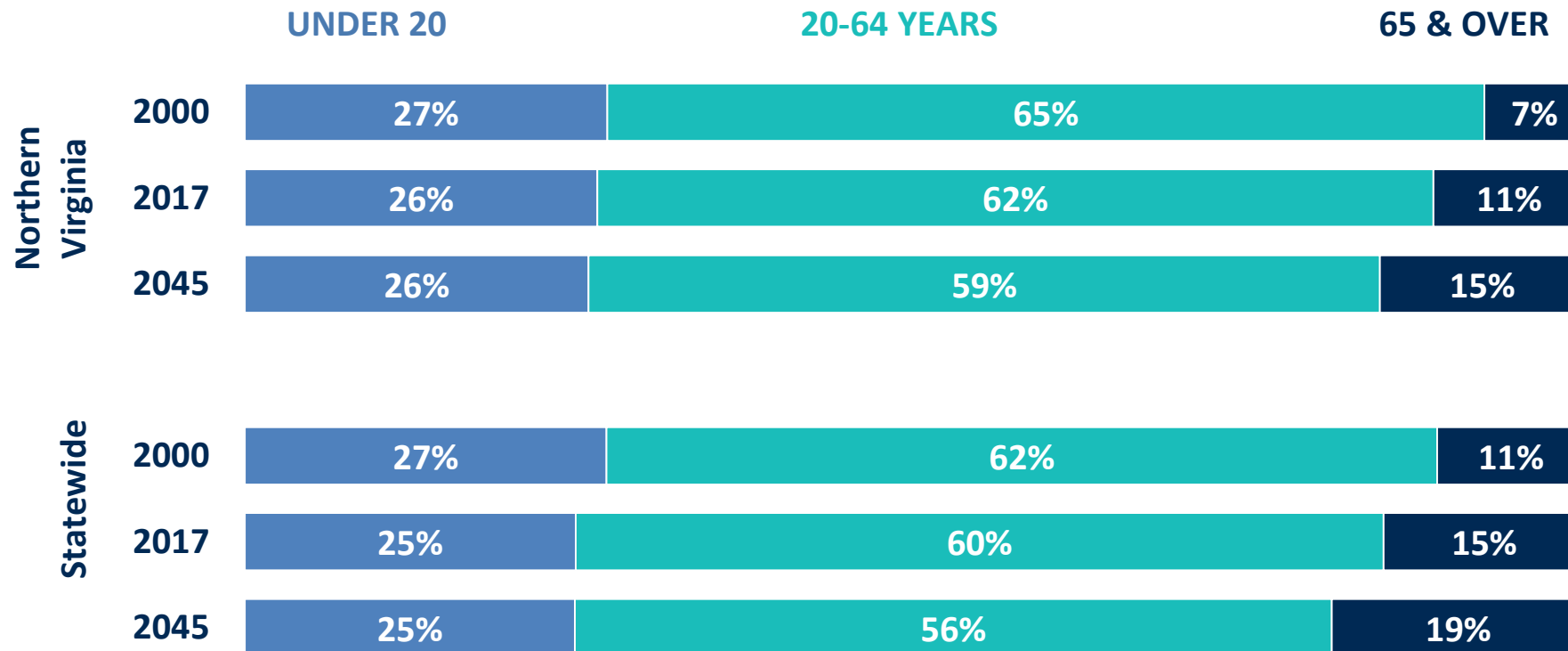


DEMOGRAPHIC TRENDS: POPULATION CHANGE BY PDCS – 2017-2045

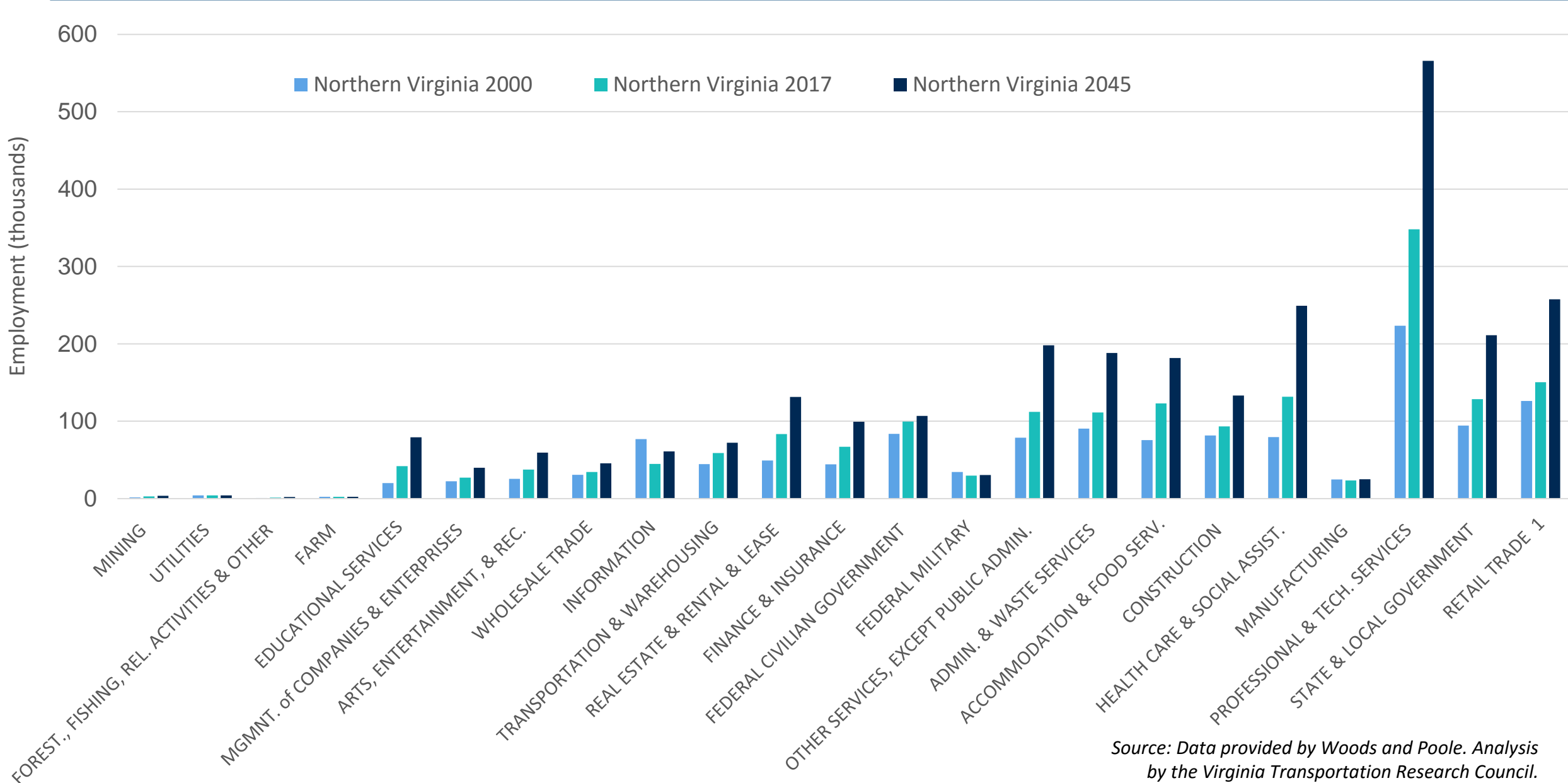


DEMOGRAPHIC TRENDS: AGE DISTRIBUTION BY PDC

Northern Virginia



DEMOGRAPHIC TRENDS: PDC EMPLOYMENT BY INDUSTRY



Source: Data provided by Woods and Poole. Analysis by the Virginia Transportation Research Council.

ECONOMIC-TRANSPORTATION LINKAGES | TRANSPORTATION

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



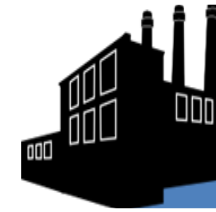
Knowledge-Based

- 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



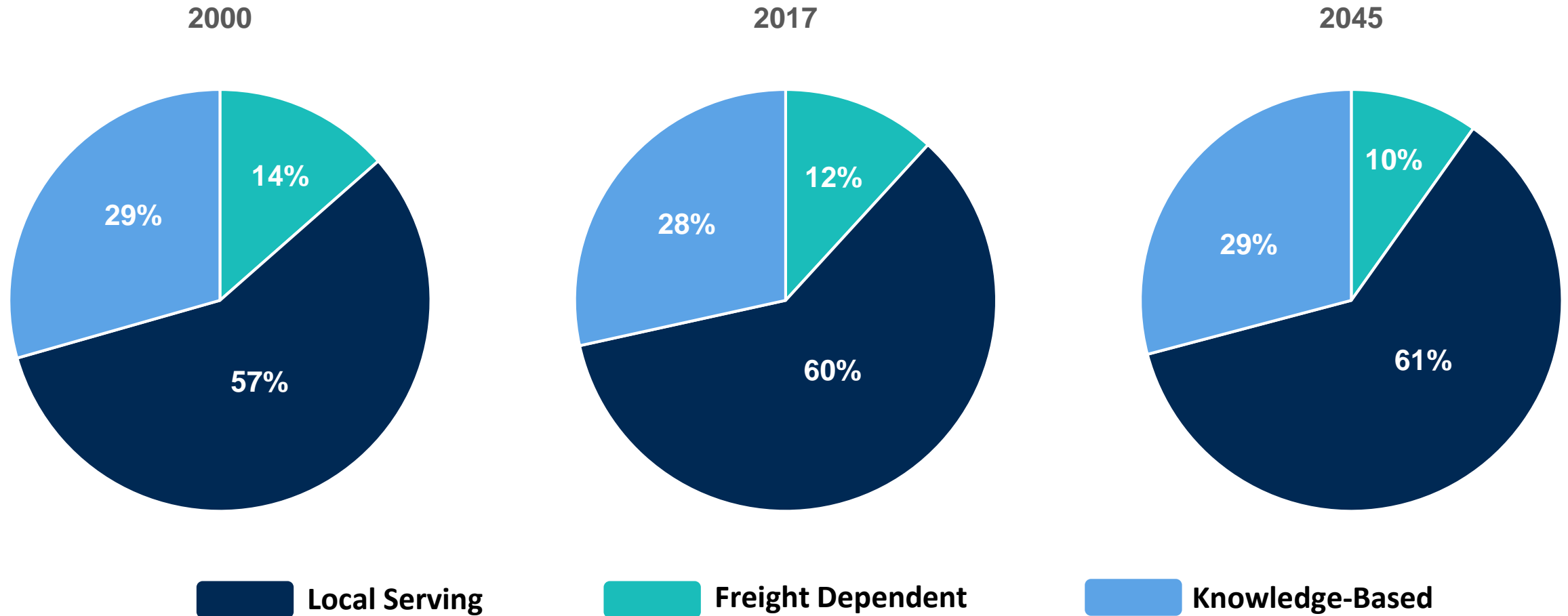
Freight Dependent

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



DEMOGRAPHIC TRENDS: PDC EMPLOYMENT BY INDUSTRY

Northern Virginia



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*

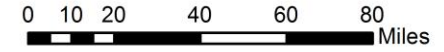
- Coastal Corridor
- Crescent Corridor
- East-West Corridor
- Eastern Shore Corridor
- Heartland Corridor
- North Carolina to West Virginia Corridor
- North-South Corridor
- Northern Virginia Corridor
- Seminole Corridor
- Southside Corridor
- Washington to North Carolina Corridor
- Western Mountain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

Travel Markets:

Corridors of Statewide Significance serve inter-regional travel.

*Thin lines of same color represent Corridor Component Facilities

-  Airports
-  Ports
-  Rail Network



Corridors of Statewide Significance*

- Coastal Corridor
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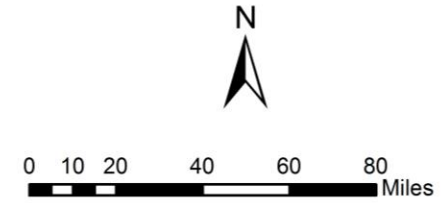
*Thin lines of same color represent Corridor Component Facilities

- 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.



Corridors of Statewide Significance*

- Coastal Corridor
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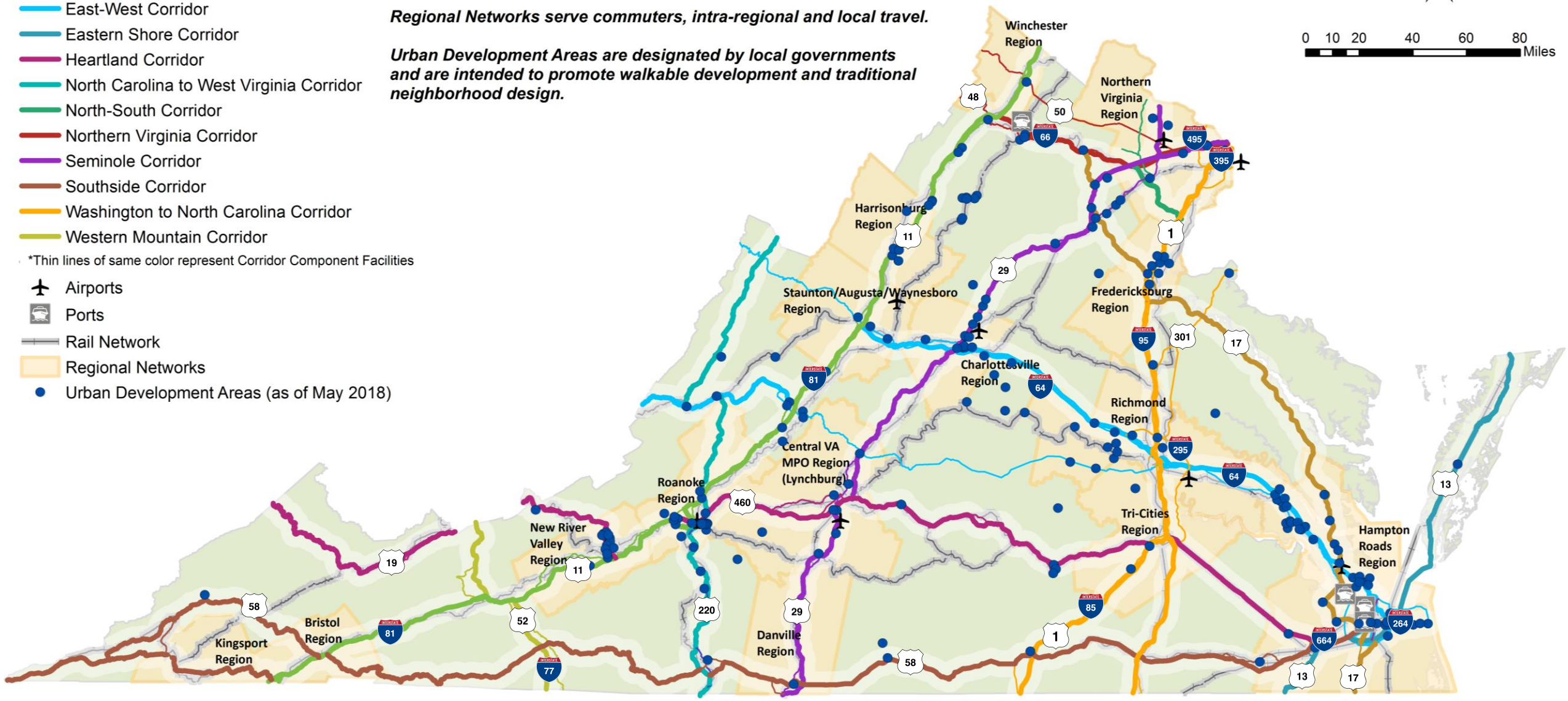
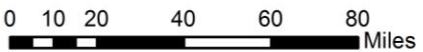
- Airports
- Ports
- Rail Network
- Regional Networks
- Urban Development Areas (as of May 2018)

Travel Markets:

Corridors of Statewide Significance serve inter-regional travel.

Regional Networks serve commuters, intra-regional and local travel.

Urban Development Areas are designated by local governments and are intended to promote walkable development and traditional neighborhood design.










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

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

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

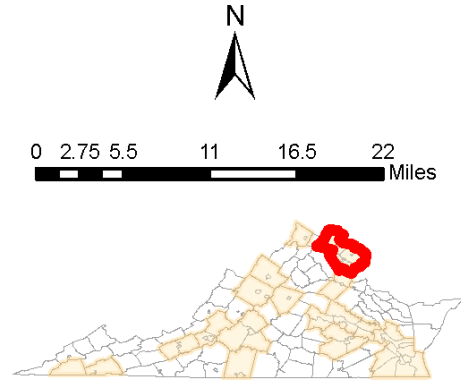
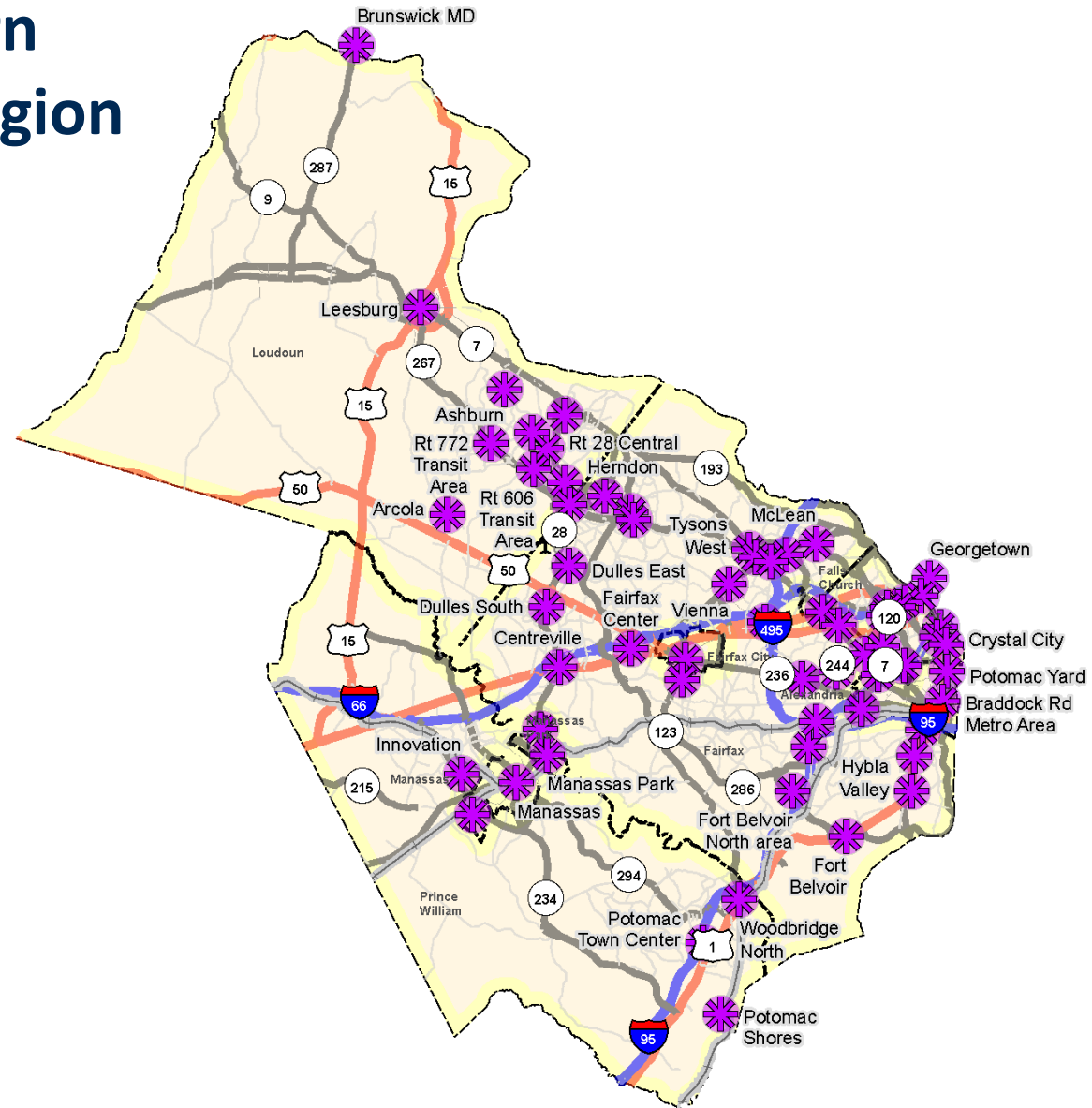
*** Vehicles defined in federal vehicle classification scheme as Class 5 or greater

REGIONAL NETWORKS | ACTIVITY CENTERS

Northern Virginia Region

Legend











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

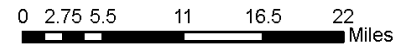


URBAN DEVELOPMENT AREAS








Northern Virginia

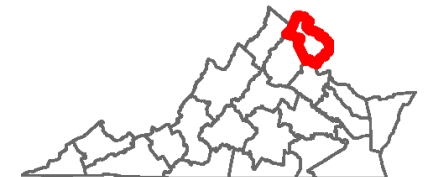
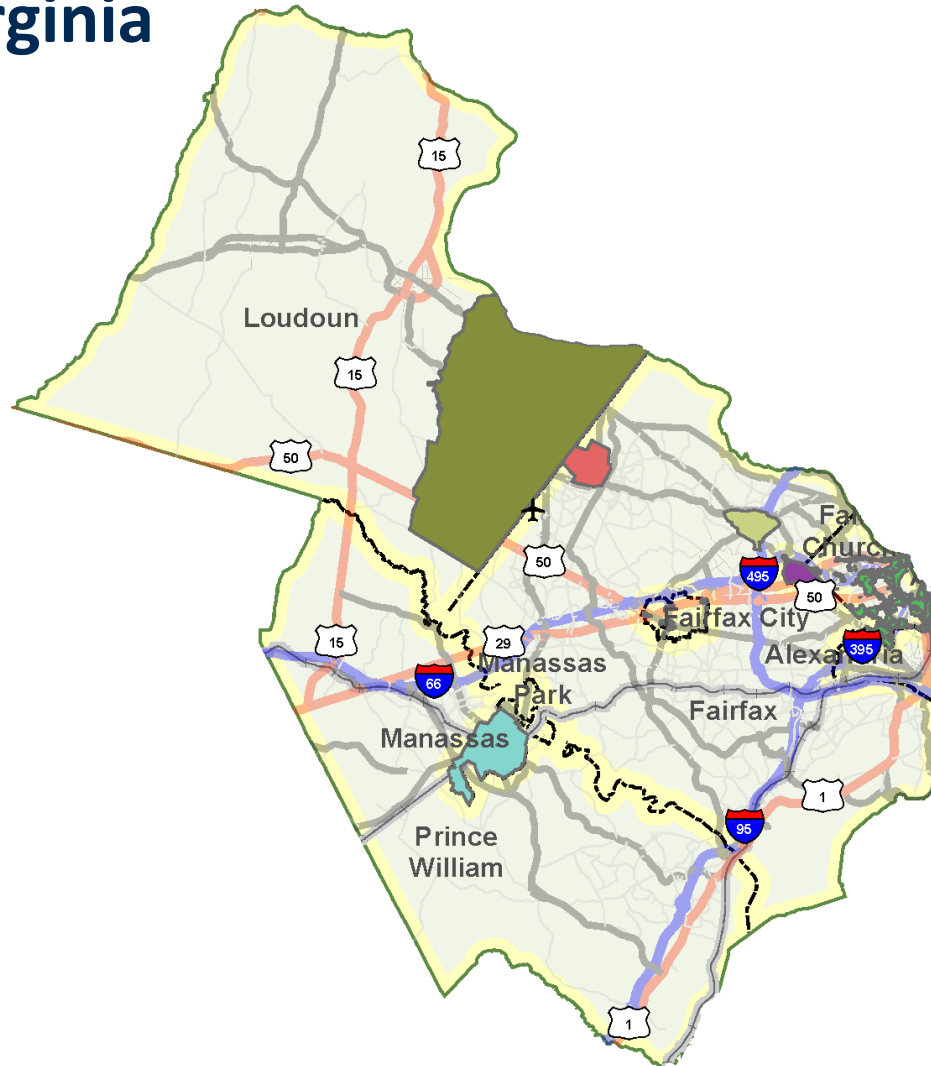
Legend

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



UDA Boundaries as of February 2019

-  Arlington County
-  Fairfax City
-  Fairfax County-Tysons Corner Urban Center
-  Falls Church - City of Falls Church
-  Herndon Town-Herndon Metrorail Station UDA
-  Loudoun County-Suburban Policy Area
-  Manassas City-Downtown





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 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

WHAT DOES THIS MEAN FOR ME?

VTrans guides decisions about publicly funded transportation investments



You have a stake in creating the funds that support our transportation system, so you also have a stake in planning the ways in which those funds will be used.

QUESTIONS/DISCUSSION

OIPI Staff Contact Information:

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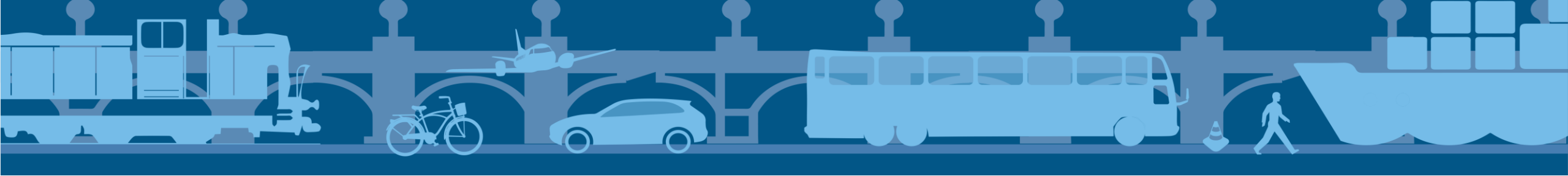
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THANK YOU!

VTRANS



VIRGINIA'S
TRANSPORTATION PLAN