

Welcome to 25<sup>th</sup>
Annual Economic
Forecast









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- Dr. Vinod Agarwal
- Dr. Mohammad Najand
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- Dr. Gary Wagner
- Dr. Robert McNab



January 1996



January 2004



January 2020





# 2020 Annual Economic Forecast

Robert M. McNab and Vinod Agarwal
Dragas Center for Economic Analysis and Policy
Strome College of Business
Old Dominion University

January 29, 2020



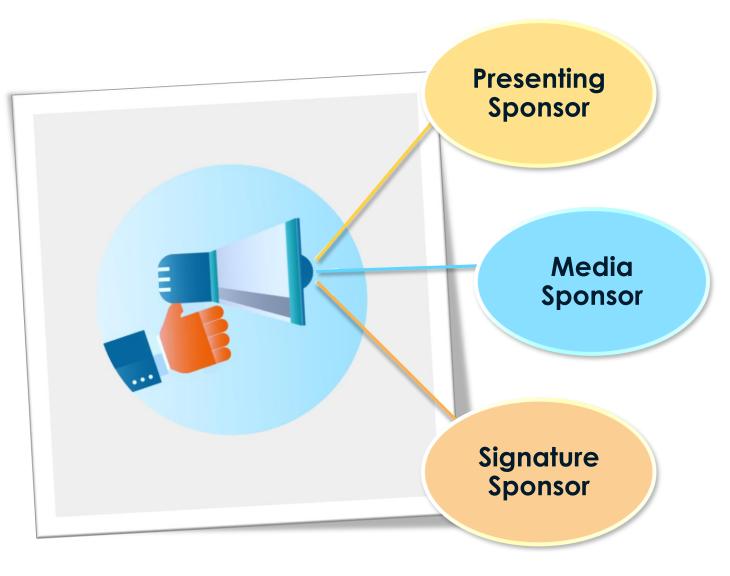


#### **Agenda for Today**

I will cover economic conditions in the United States and Virginia and the prospects for growth in 2020 and beyond.

My colleague, Vinod Agarwal, will examine economic conditions in Hampton Roads and how the regional economy will fare in 2020.

All our presentation materials can be found at our website: www.ceapodu.com









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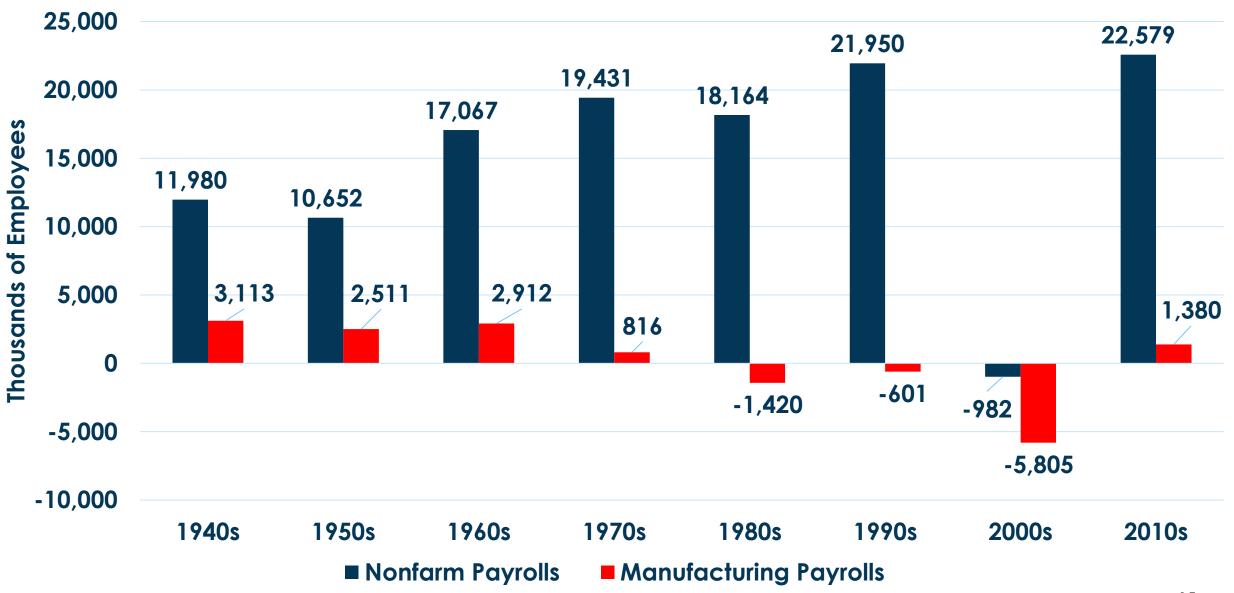


# The Long-Term View

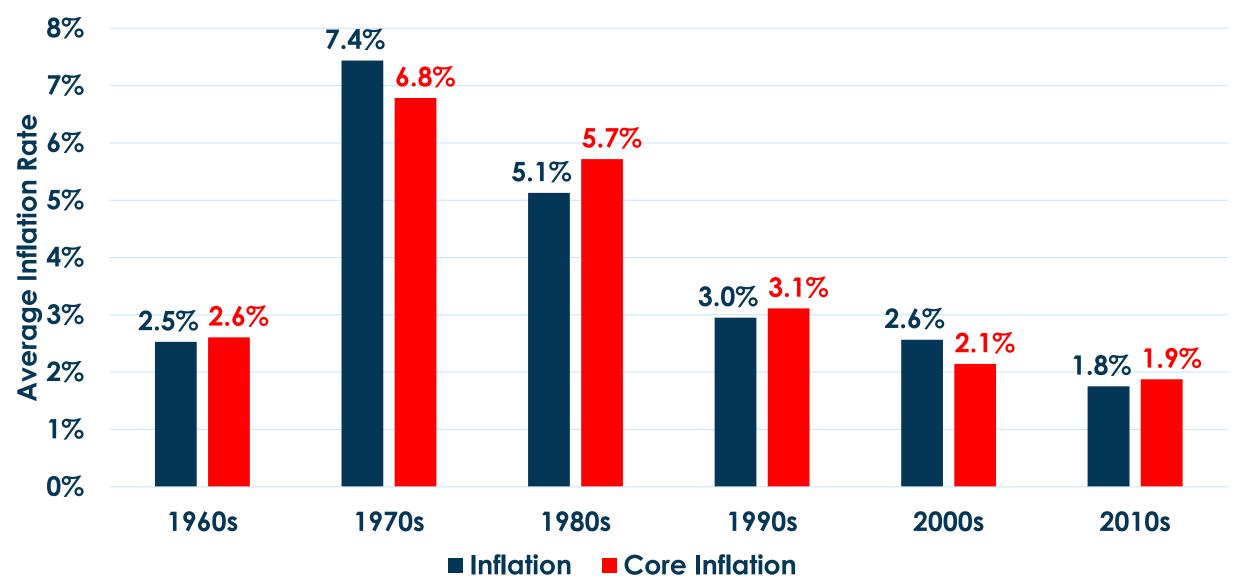
#### **Current and Historical Economic Expansions**

<u>Expansion</u>	<u>Duration</u> <u>In Months</u>	Annual Employment Growth	Annual Real GDP Growth
October 1949 – July 1953	45	4.4%	6.9%
May 1954 – August 1957	39	2.5%	4.0%
April 1958 – April 1960	24	3.6%	5.5%
February 1961 – December 1969	106	3.3%	4.9%
November 1970 – November 1973	36	3.4%	5.1%
March 1975 – January 1980	58	3.6%	4.3%
December 1982 – July 1990	91	2.8%	4.0%
March 1991 – March 2001	120	2.0%	3.6%
November 2001 – December 2007	73	0.9%	2.9%
June 2009 – Present*	126	1.4%	2.3%

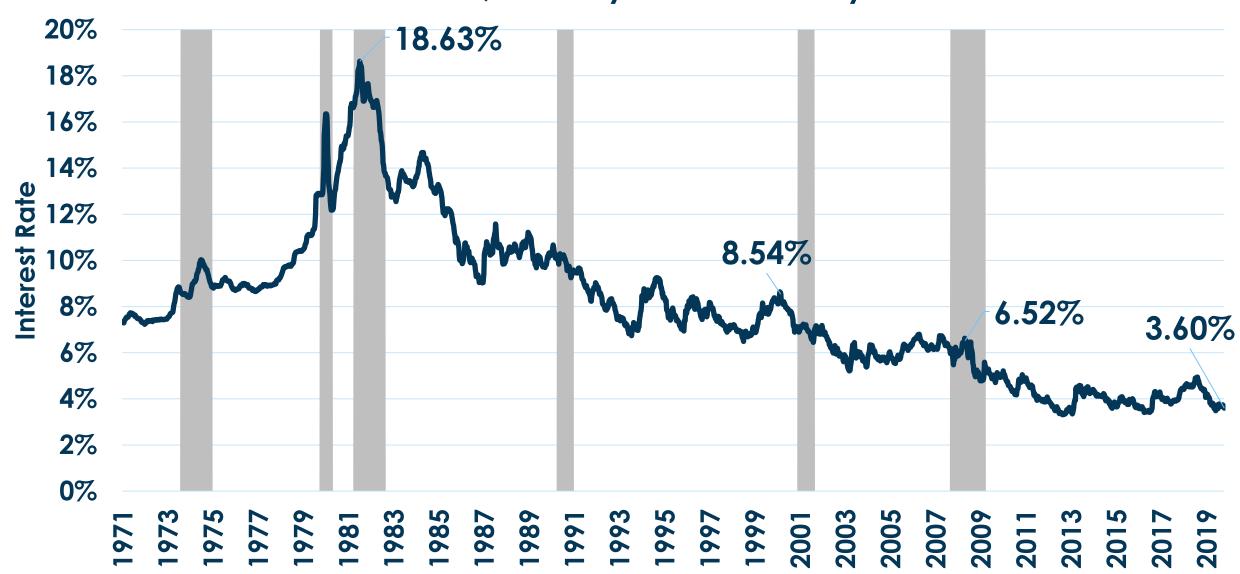
#### Change in Nonfarm and Manufacturing Employees (Jobs) United States, 1940 - 2019



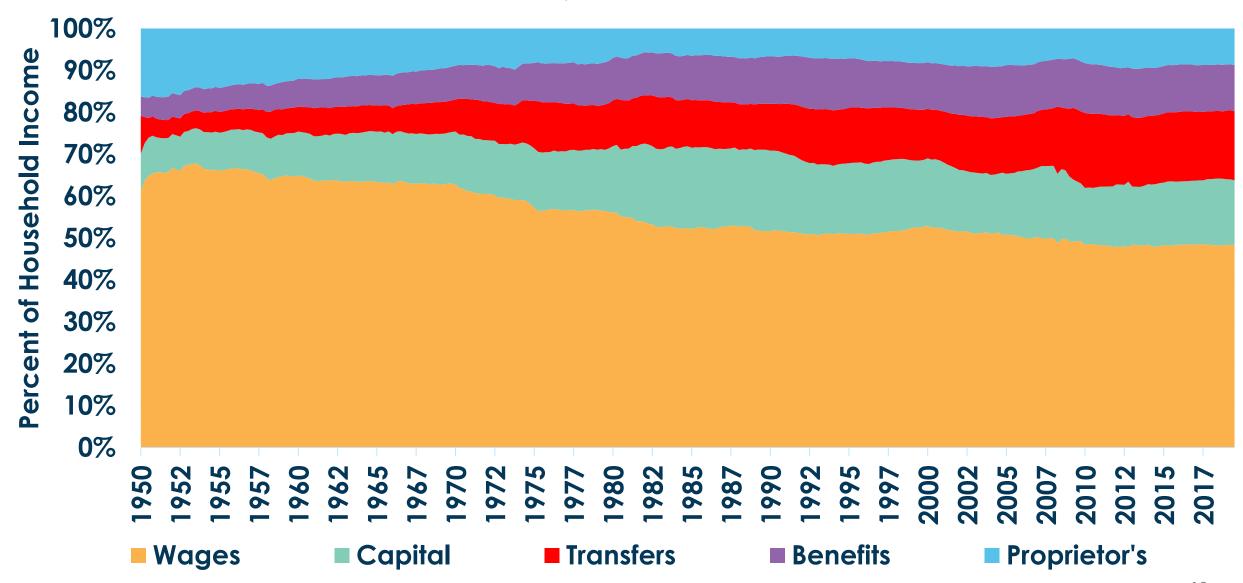
#### Average Inflation United States, 1960 - 2019



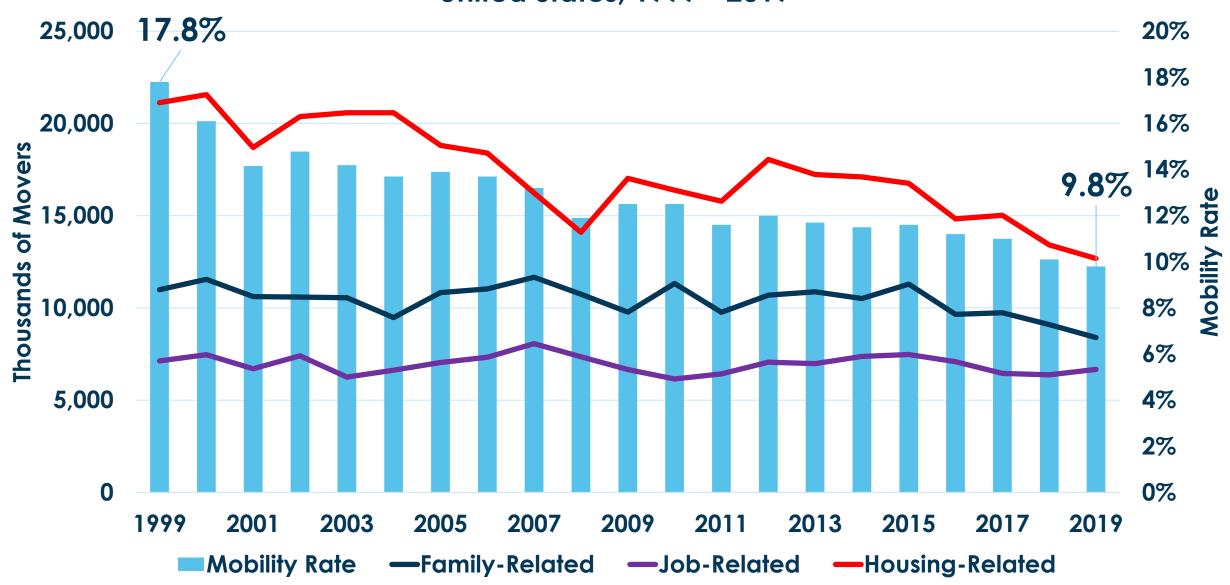
### Thirty Year Fixed Rate Conventional Mortgage United States, January 1972 – January 2019



#### Sources of Household Income United States, 1950 Q1 to 2019 Q3



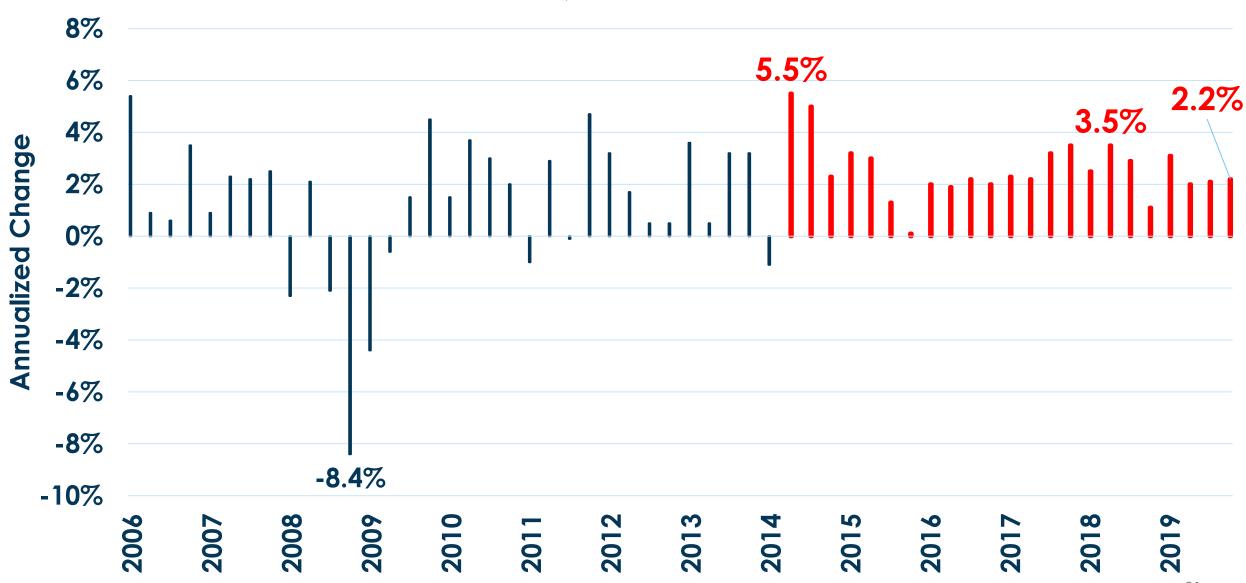
#### Mobility Rates and Reason for Moving United States, 1999 - 2019



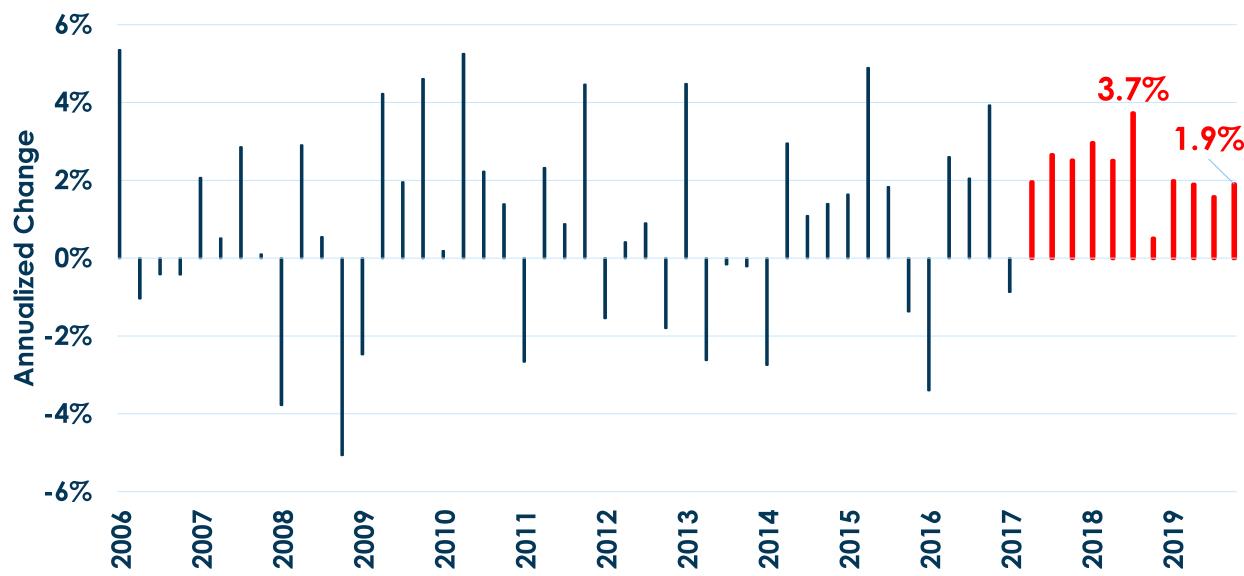


### The Expansion

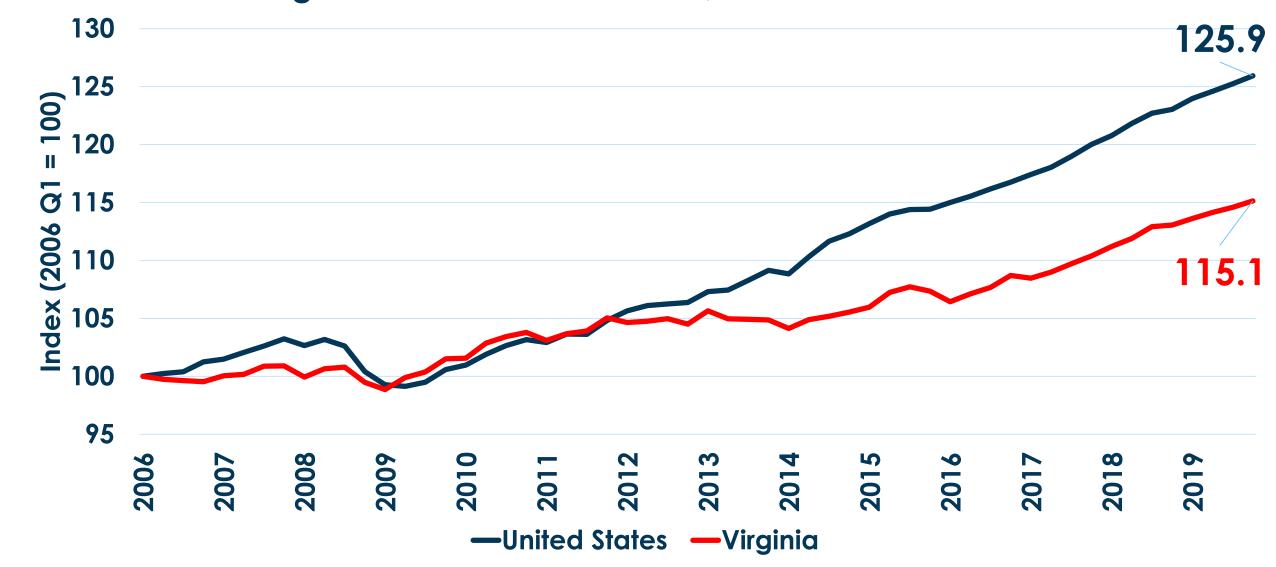
### Growth in Real Gross Domestic Product United States, 2006 Q1- 2019 Q4\*



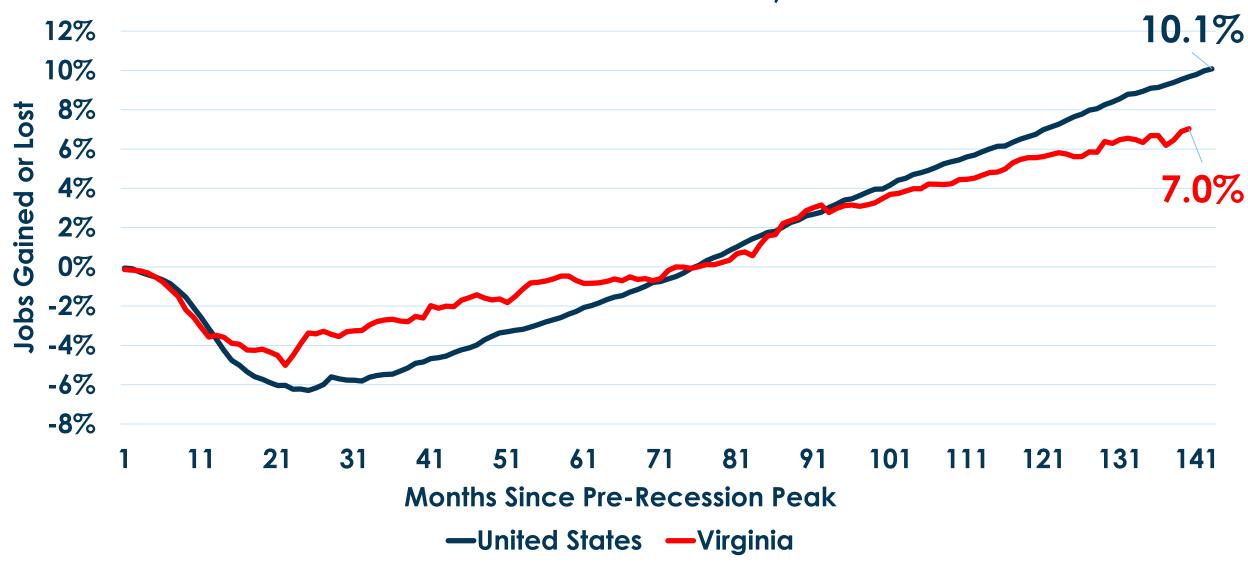
### Growth in Real Gross Domestic Product Virginia, 2006 Q1- 2019 Q4\*



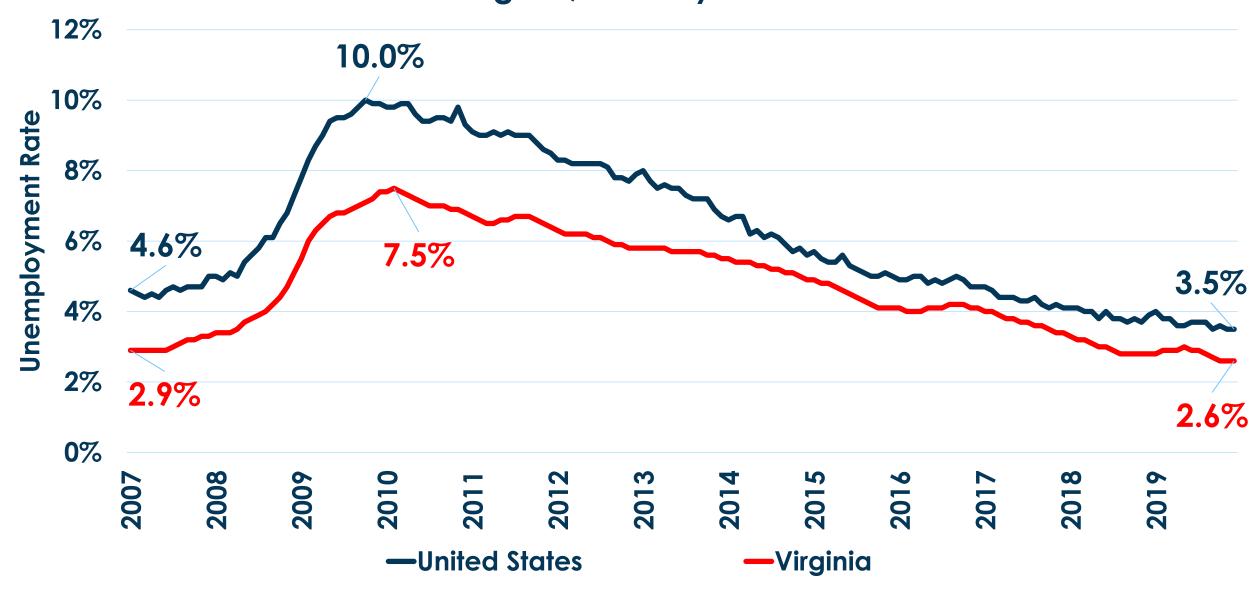
### Index of Real Gross Domestic Product Virginia and the United States, 2006 Q1 to 2019 Q4\*



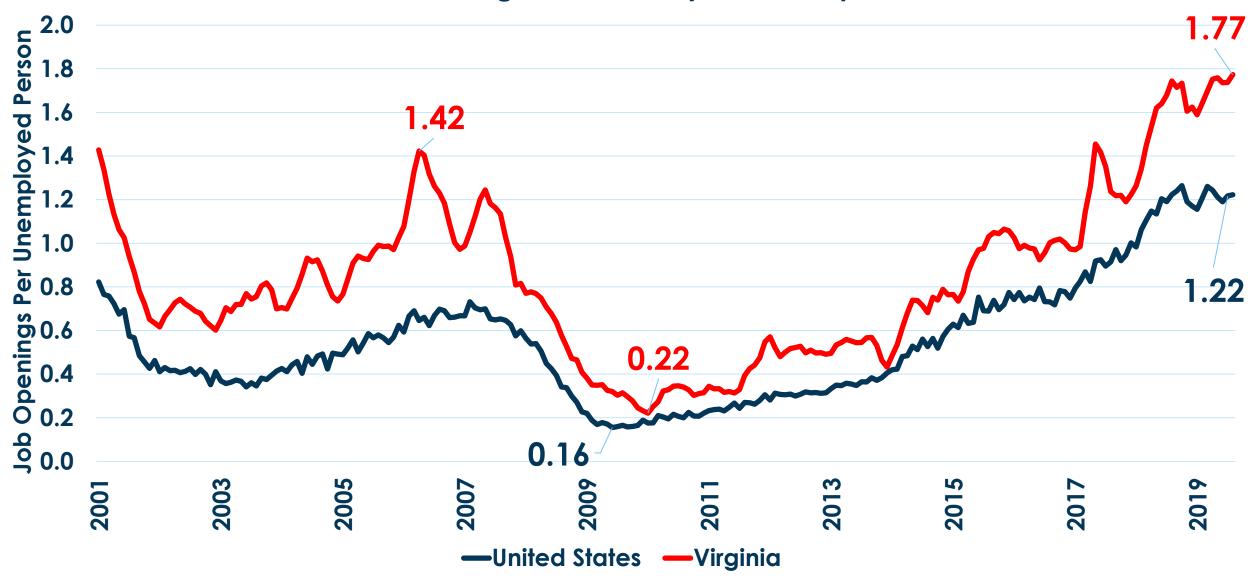
#### Recovery from the Great Recession Measured in Total Jobs Restored, 2008-2019\*



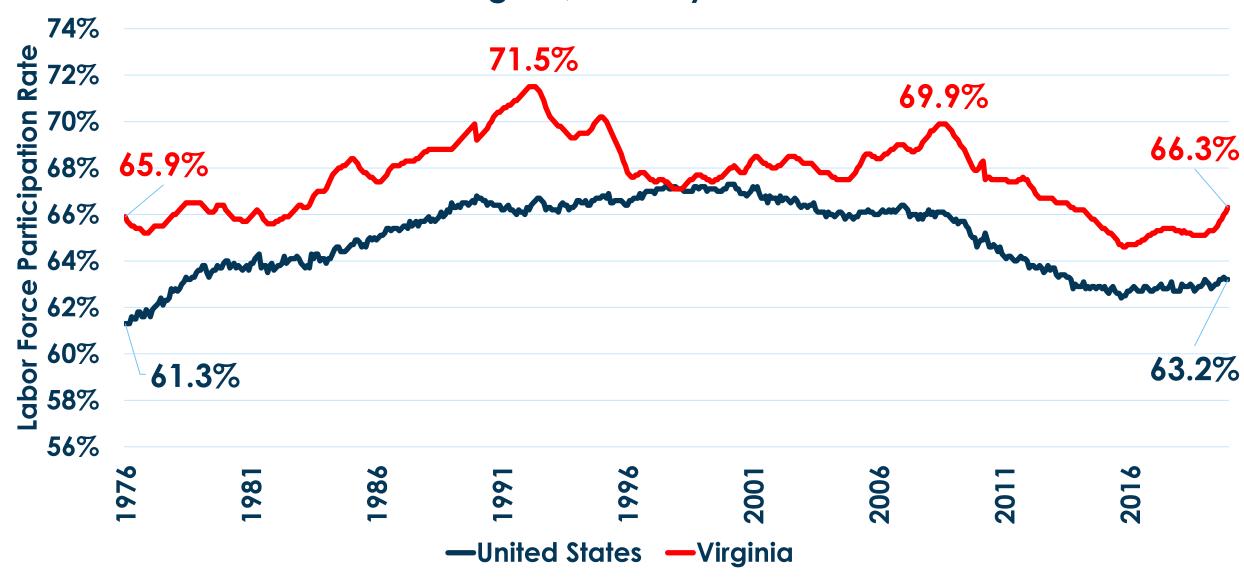
### Unemployment Rate (U3) United States and Virginia, January 2007 – December 2019



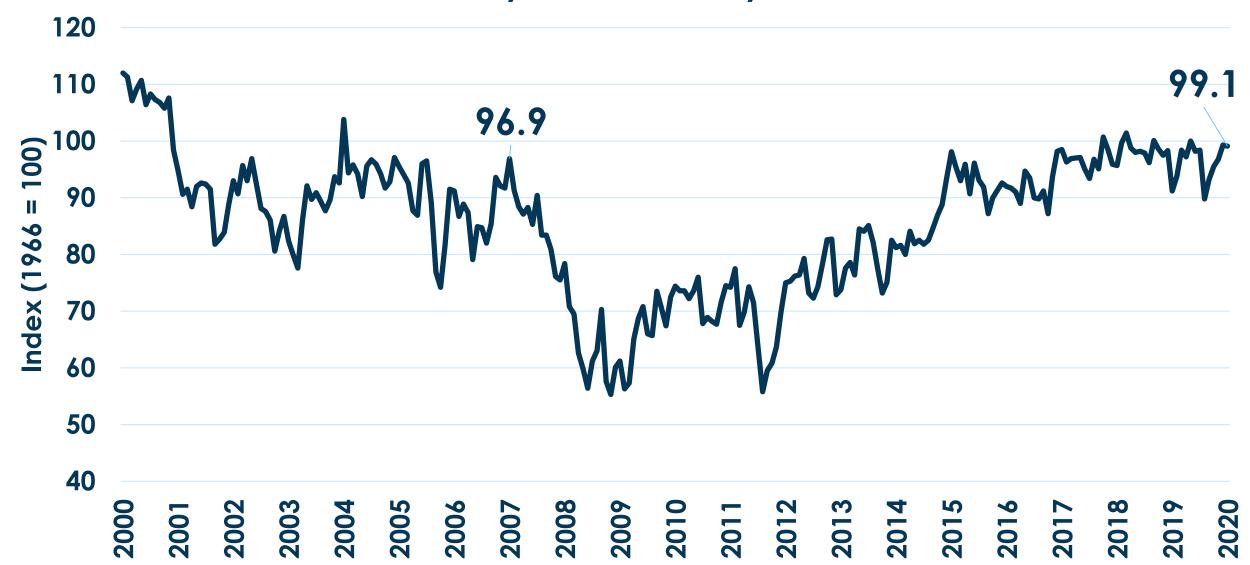
#### Job Openings Per Unemployed Person United States and Virginia, February 2001 – September 2019



### Civilian Labor Force Participation Rate United States and Virginia, January 1976 – December 2019



#### University of Michigan, Consumer Sentiment January 2000 – January 2020



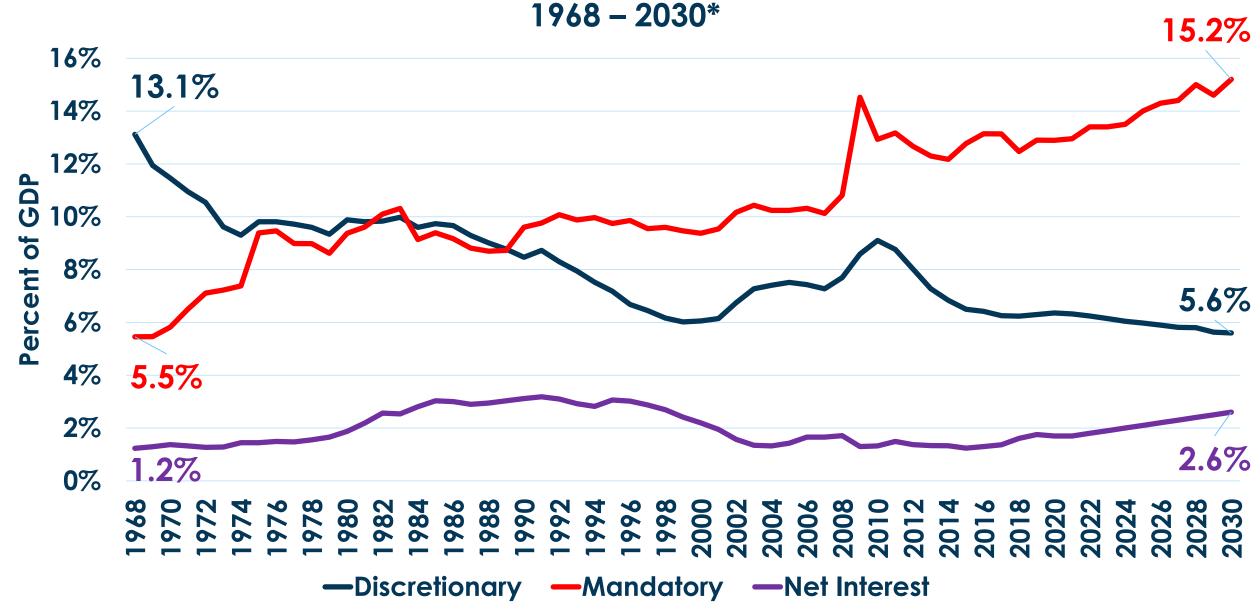
#### **2020: The Economic Expansion Continues**

- Price and wage inflation does not accelerate.
- Interest rates and monetary policy remain accommodative.
- Consumer sentiment continues to drive economic activity.
- The Phase I trade deal lifts short-term exports to China.
- Federal spending sustains moderate growth in Virginia.

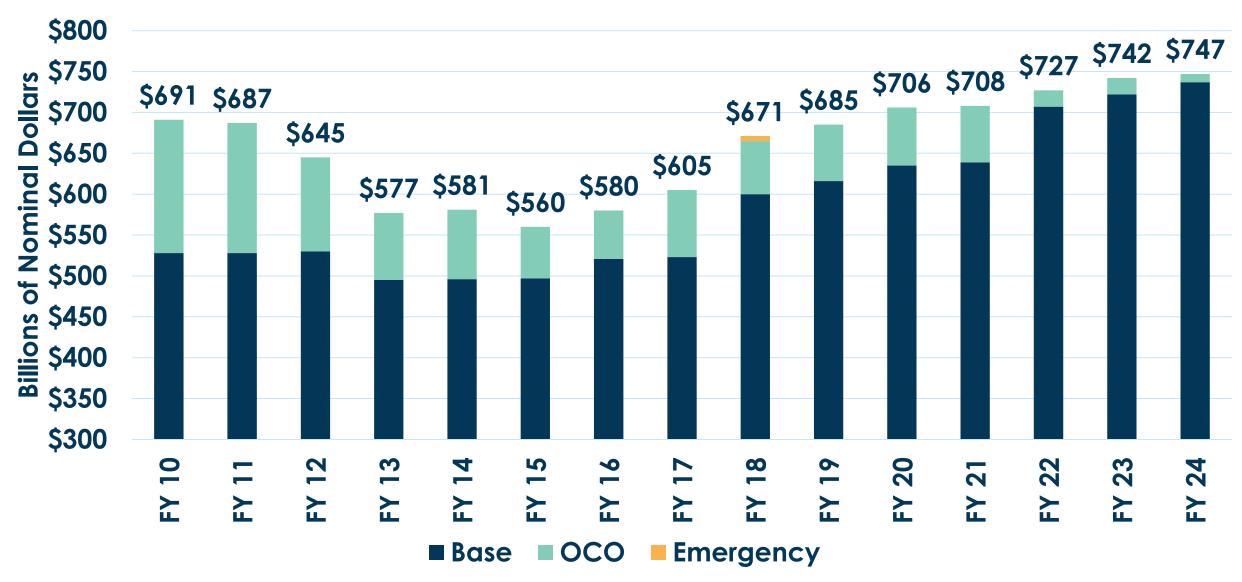


### Warning Signs

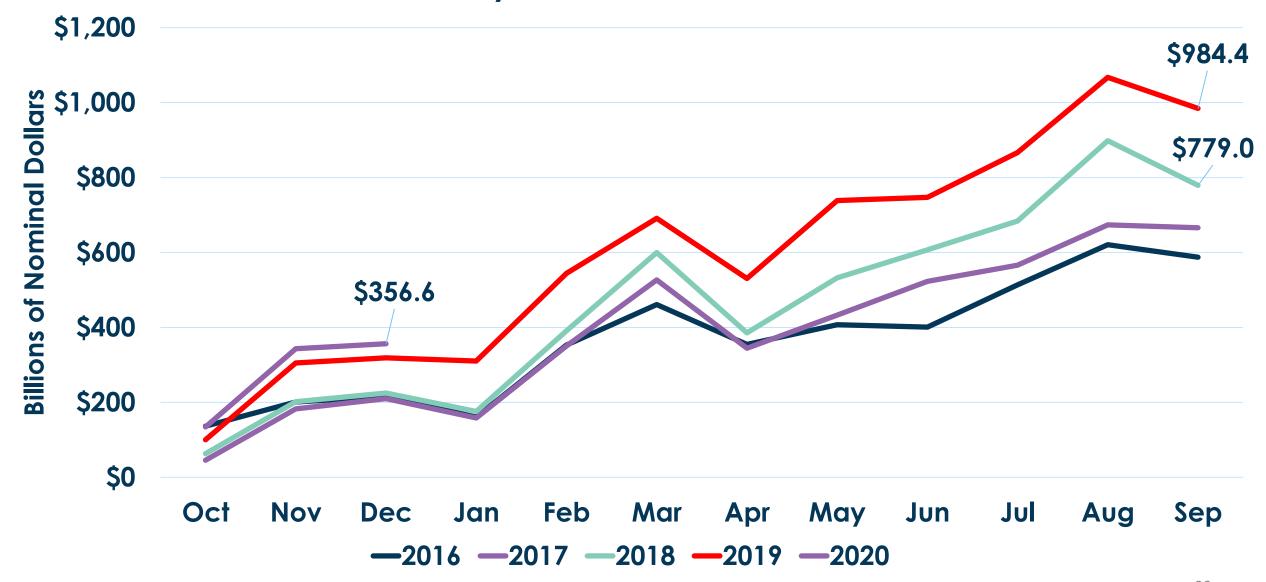




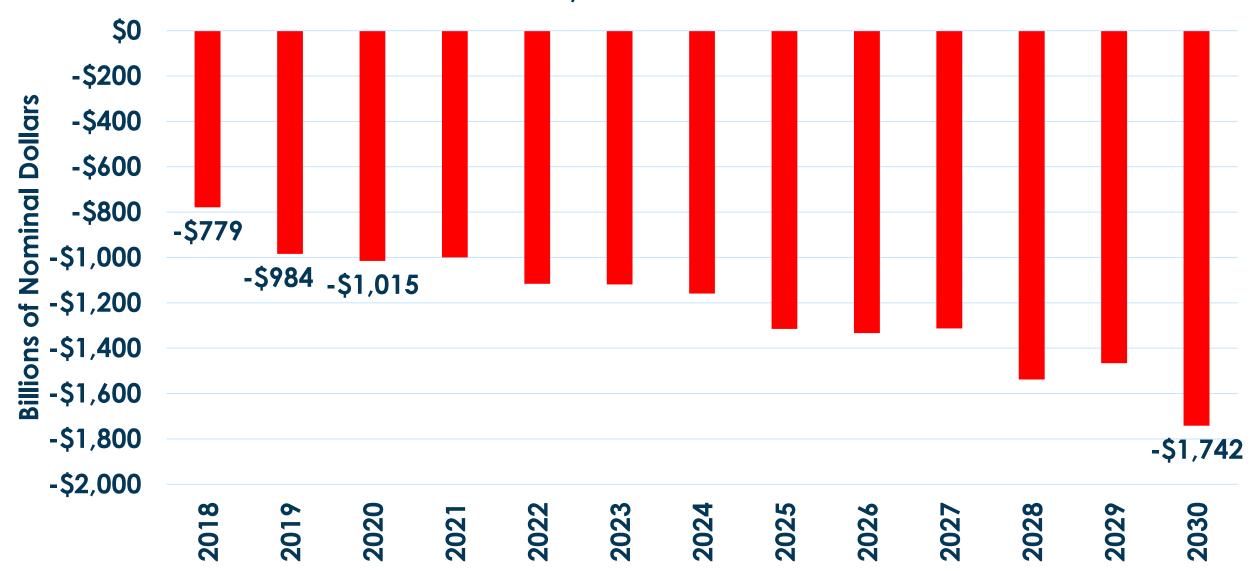
### Department of Defense Discretionary Budget Authority Fiscal Year 2010 – Fiscal Year 2024



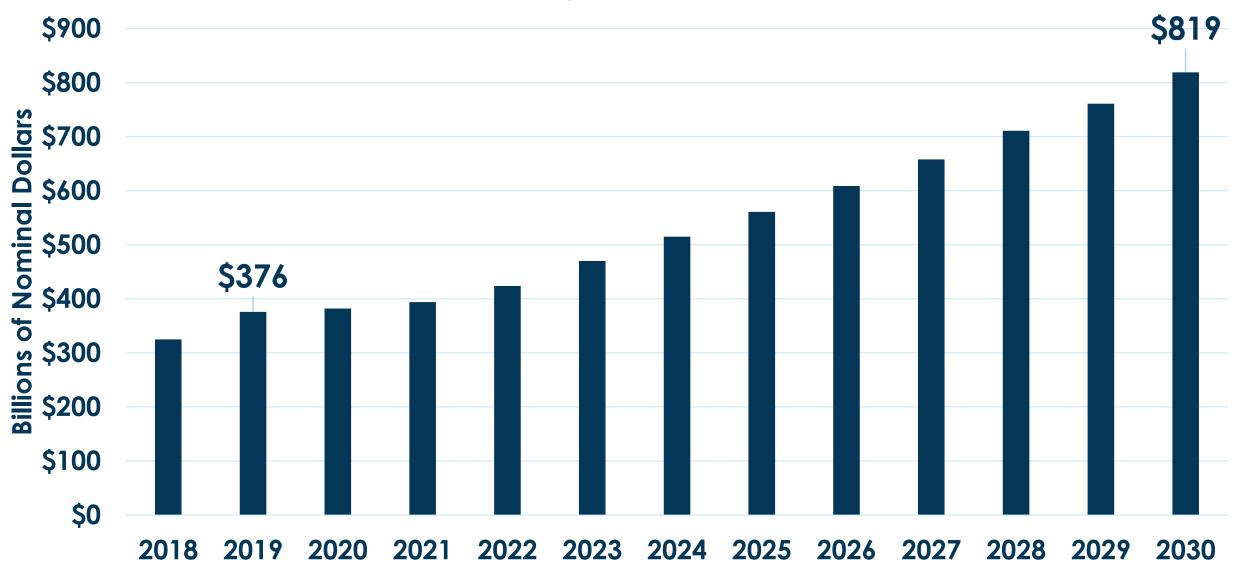
### Cumulative U.S. Federal Government Deficit by Month January 2016 – December 2019



### Actual and Projected Federal Deficit United States, FY 2018 – FY 2030\*



#### Net Interest Expenditures on Federal Debt United States, FY 2018 – FY 2030\*



#### No Tree Grows to the Sky

- DoD expects relatively flat budgets over the FYDP.
- SecDec Esper has targeted the "Fourth Estate" to reduce overhead.
- SecDef proposed cutting procurement of 5 Arleigh Burke destroyers and the retirement an additional 4 Ticonderoga-class cruisers by 2025.
- The Army's recently proposed cuts, delays, or cancelations in almost 200 programs to free up resources for new initiatives.
- The upcoming 2021 2026 FYDP is likely to follow the Army's lead.



#### The Outlook

#### The Good Place

- Trade tensions moderate with the Phase I deal.
- The Boeing 737 Max reenters production in the 2<sup>nd</sup> half of 2020.
- The Coronavirus mirrors the SARS outbreak, with limited global mortality.
- Global growth accelerates in the second half of 2020.
- Equity and real estate markets cool, but do not have major corrections.
- The Presidential election does not significantly impact economic activity.

#### The Not-So-Good Place

- The Phase I deal falls apart before it begins, leading to new tariffs.
- The Boeing 737 Max remains out of service for 2020.
- Global growth continues to slow as international trade volumes decline.
- Equity and real estate markets pull back after a decade of increases.
- The Coronavirus outbreak trends toward the 1918 influenza pandemic.
- A Presidential nominee emerges and surges to a lead in the polls with promises of a significant expansion of government programs and taxes.

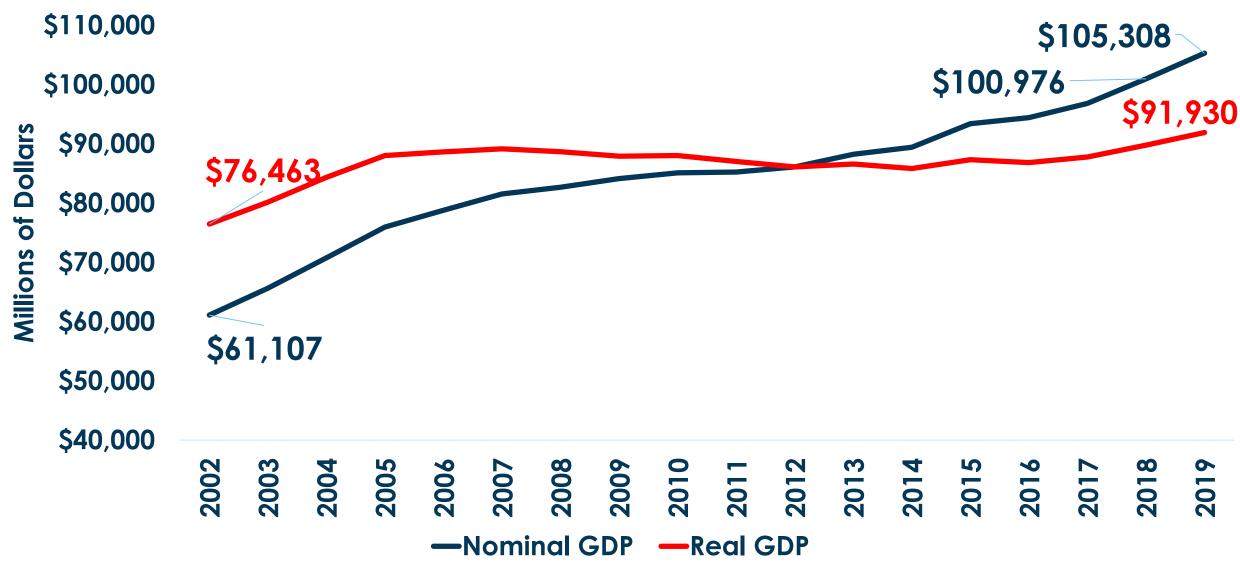
	2018 Actual	2019 Forecast (May)	2019 Actual	2020 Forecast
U.S. Real Gross Domestic Product	3.0%	2.5%	2.3%	2.2%
Civilian Job Growth	1.6%	1.5%	1.4%	1.2%
Unemployment Rate	3.9%	3.7%	3.5%	3.7%
Consumer Price Index	2.4%	2.7%	2.3%	2.4%
Core Consumer Price Index	2.1%	2.3%	2.3%	2.5%
3-month Treasury Bill	2.4%	2.5%	1.6%	1.8%
10-year Treasury Bill	2.9%	2.9%	1.9%	2.1%
30-year Treasury Bill	3.1%	3.3%	2.3%	2.5%
30-year Conventional Mortgage	4.5%	4.6%	3.8%	4.2%
Federal Deficit	-\$779 Billion	-\$900 Billion	-\$984 Billion	-\$1.1 Trillion
Virginia Real GDP	2.8%	2.7%	2.2%	2.0%
Virginia Employment Growth	1.1%	1.4%	1.1%	1.1%
Superbowl	Eagles		Patriots	49ers

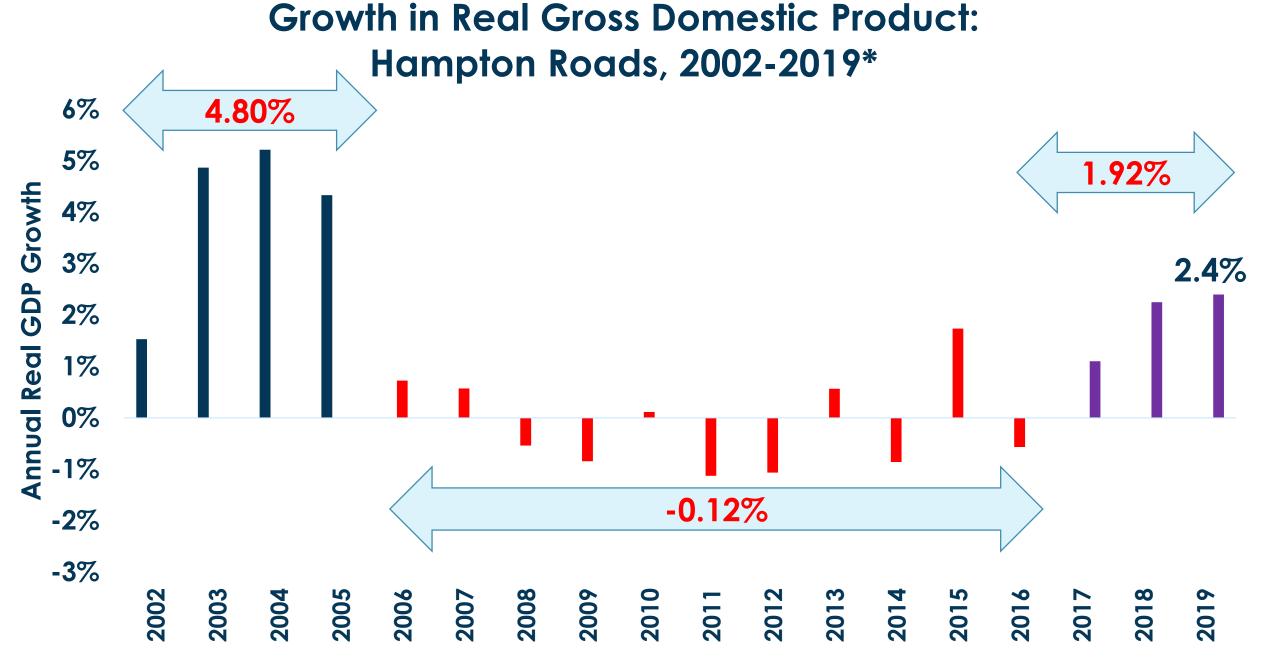
#### 2020 Hampton Roads Economic Forecast

Continuing
Improvements But
Challenges Remain
Ahead

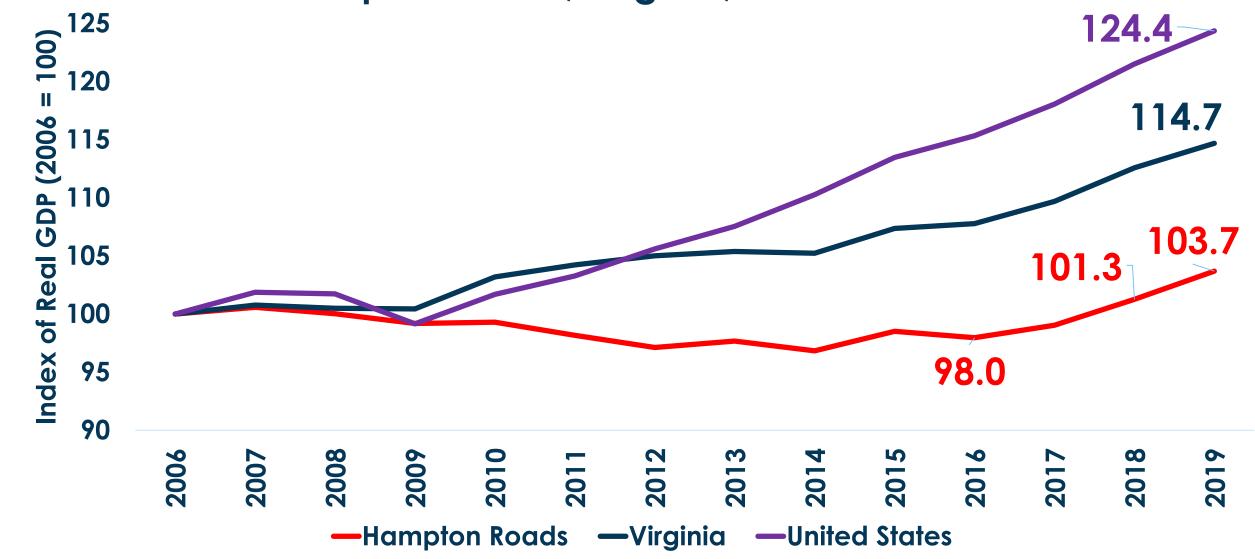


# Nominal and Real Gross Domestic Product (GDP): Hampton Roads, 2002 – 2019\*





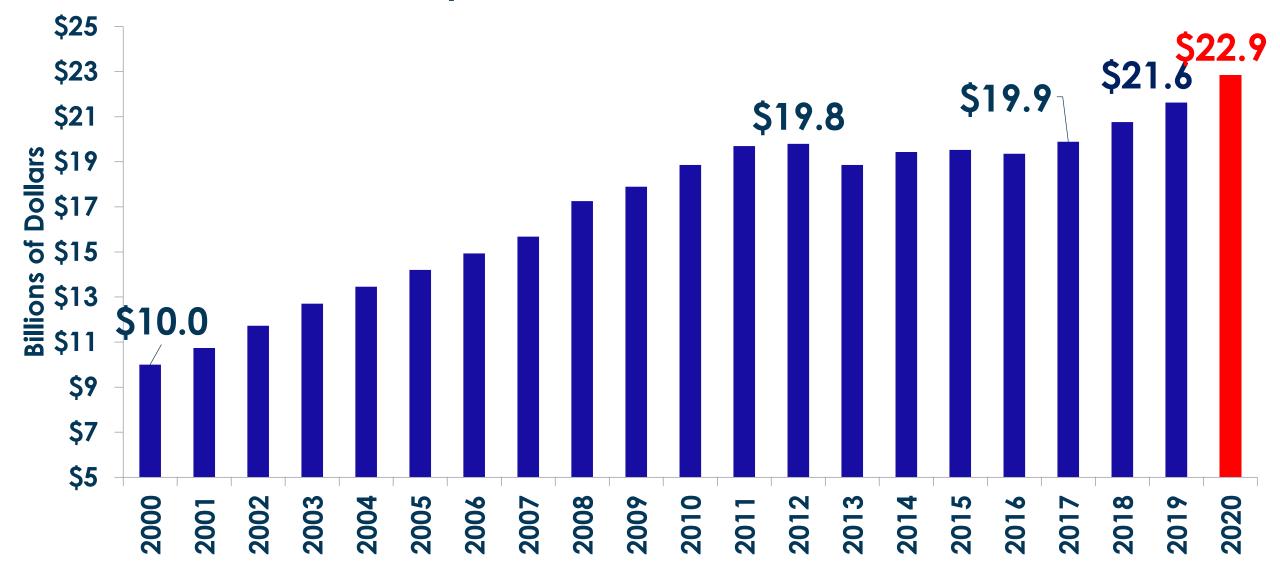
## Index of Annual Real GDP, 2006 – 2019\*: Hampton Roads, Virginia, and the United States



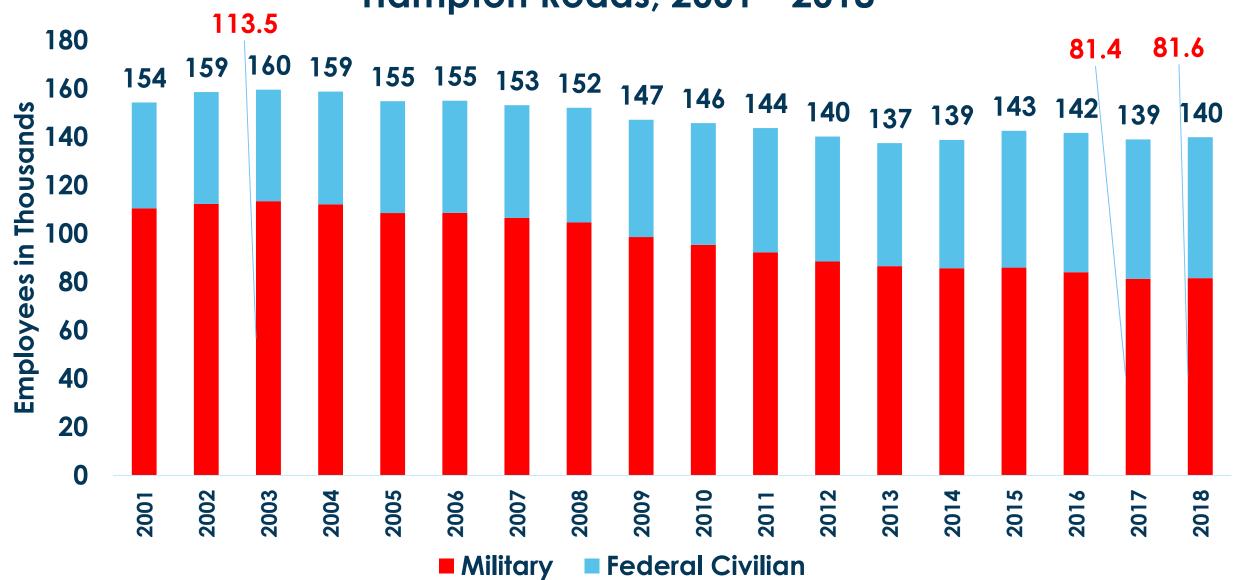


# Defense Spending in Hampton Roads

## Estimated Direct Department of Defense Spending Hampton Roads, 2000 to 2020\*



#### Military and Federal Civilian Employment Hampton Roads, 2001 - 2018



#### Estimated Average Nominal Compensation Hampton Roads, Selected Categories

			<u>Change in</u>
	<u>2017</u>	<u>2018</u>	<u>Average</u>
			<u>Compensation</u>
Military	\$93,992	\$96,985	3.18%
Federal Civilian Govt. Employees	\$113,883	\$116,544	2.34%
State and Local Govt. Employees	\$64,279	\$64,539	0.40%
<b>Private Nonfarm</b>	\$42,001	\$43,136	2.70%

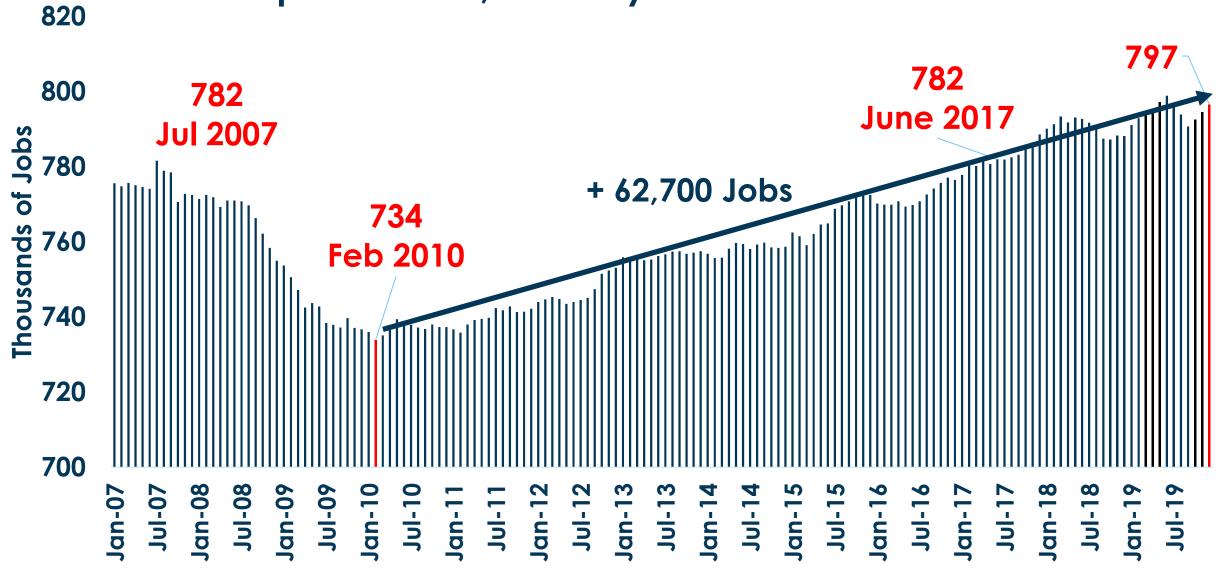


Jobs and Employment: Slowly but Steadily Growing

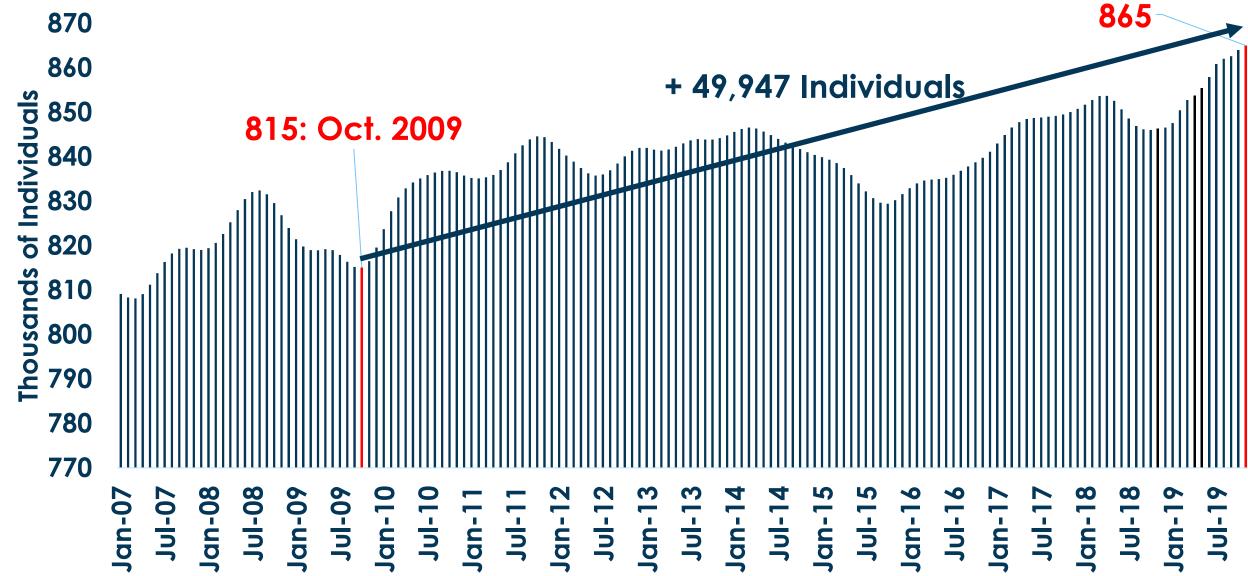
# Change in Employment: Selected Industries in Hampton Roads, 2018 Q1 to 2019 Q1



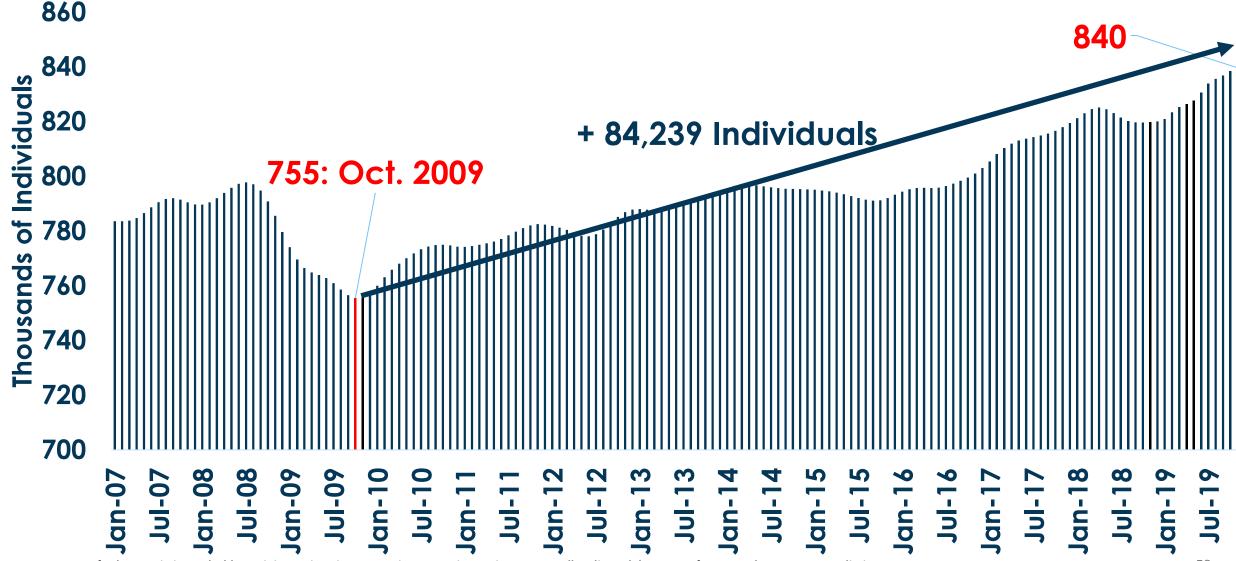
## Total Nonfarm Employment (Jobs) Hampton Roads, January 2007 – December 2019



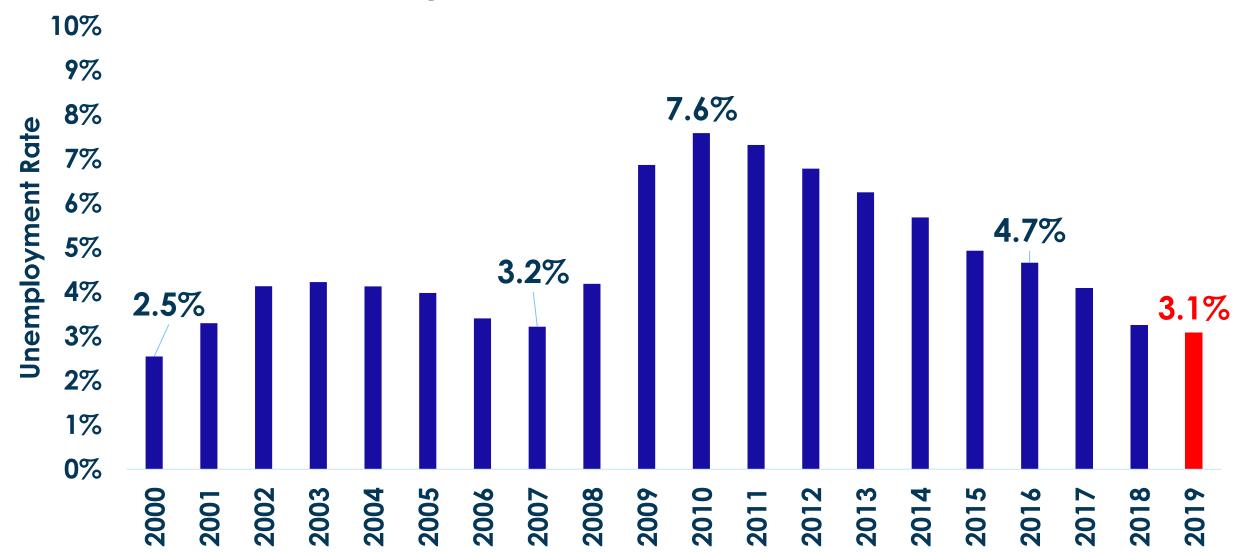
## Civilian Labor Force Hampton Roads, January 2007 – November 2019



## Employment of Individuals Hampton Roads, January 2007 – November 2019



## Average Annual Unemployment Rate: Hampton Roads, 2000 to 2019\*



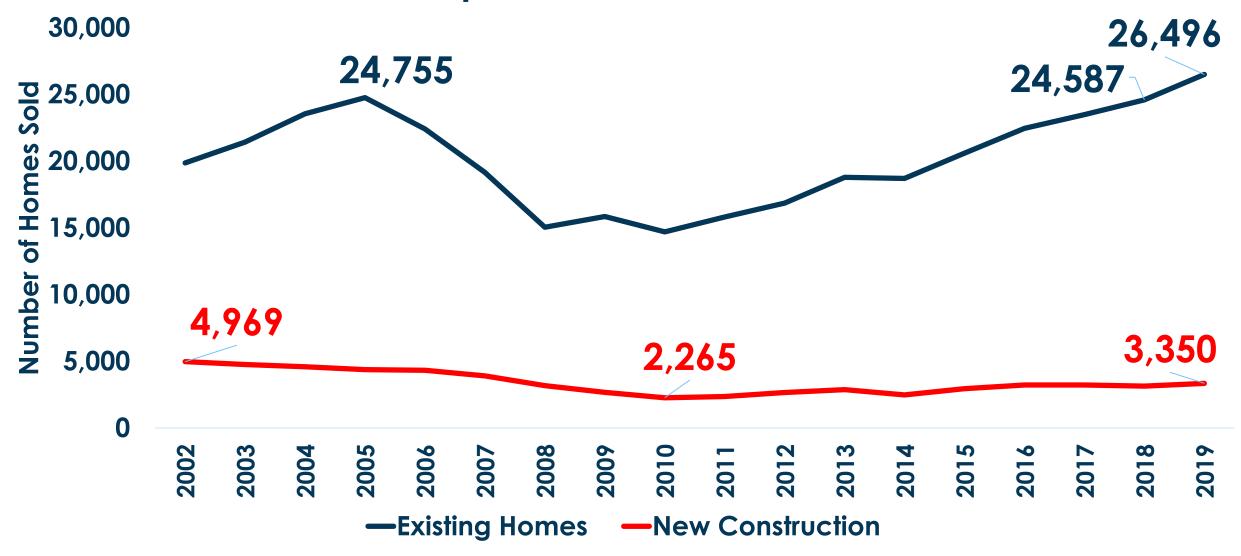
- Good news: Increases in defense spending in FY 20 will help raise economic growth.
- An immediate challenge: Finding the right labor at the right time for employers. The long-term challenge: Labor force participation rates have not recovered; difficulty moving disaffected back into workforce.
- The opportunity: Improving collaborative efforts among cities to retain/attract businesses while defense spending is increasing.

Position Hampton Roads <u>now</u> to win in the coming BRAC round.

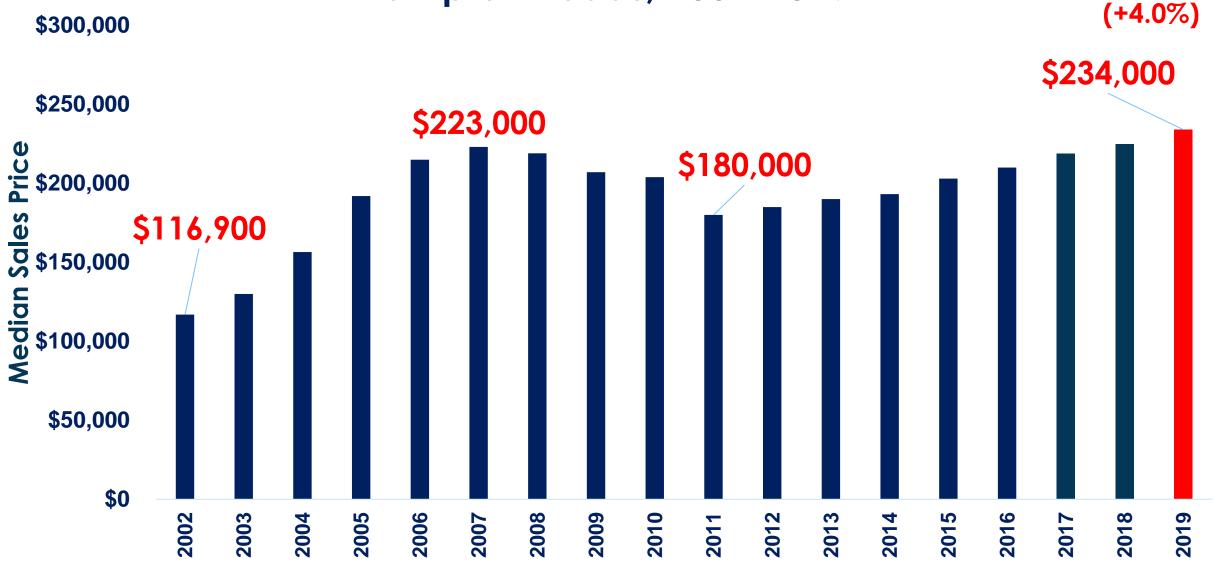


# Residential Housing is Looking Up Again

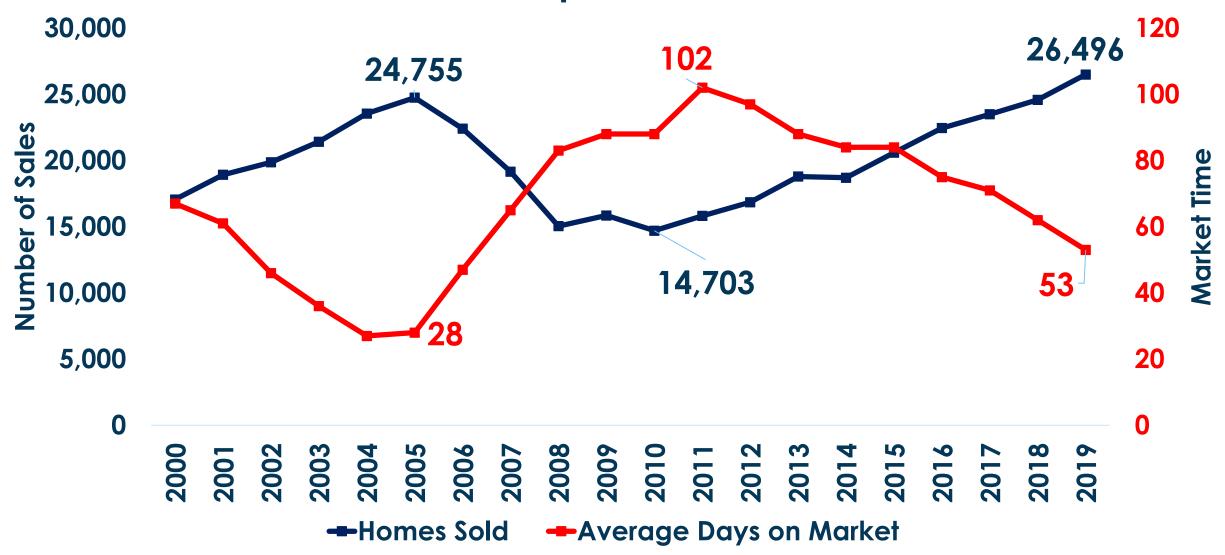
#### Number of Existing and New Construction Home Sales Hampton Roads, 2002-2019



## Median Sales Price of Existing Homes: Hampton Roads, 2002-2019



#### Existing Residential Homes Sold and Average Days on the Market, Hampton Roads: 2000-2019



## Distribution of Sales by Selected Categories of Sale Price of Existing Residential Homes for Hampton Roads, 2017, 2018, and 2019

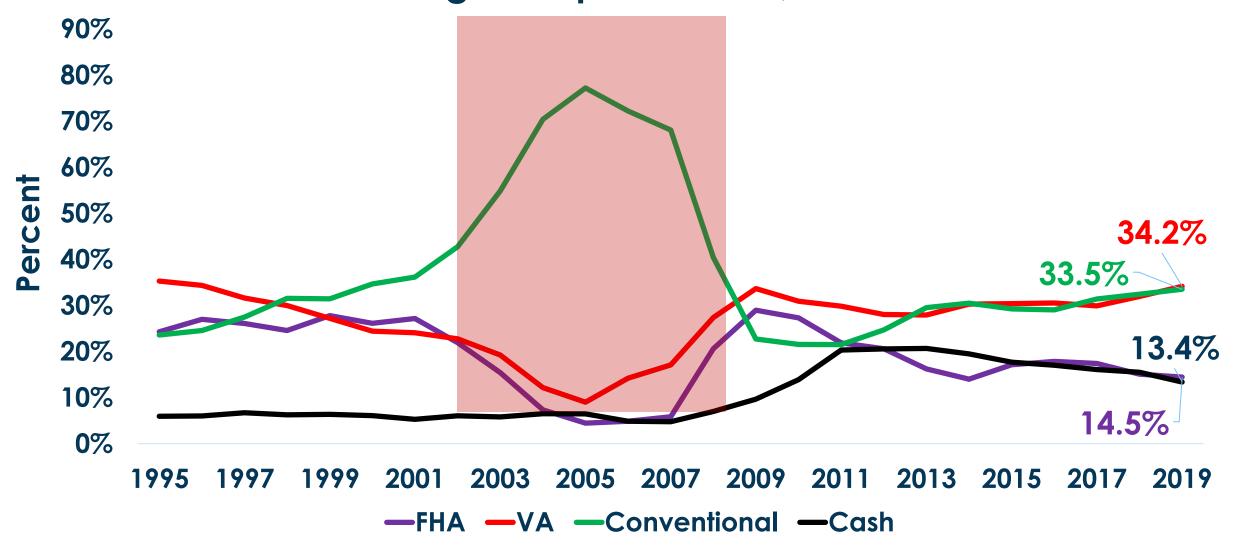
Sale Price Categories	<u>2017</u>	<u>2018</u>	<u>2019</u>
Under \$250,000	62.6%	60.3%	<b>57.2</b> %
\$250,001 to \$350,000	21.0%	22.2%	23.9%
\$350,001 to \$450,000	9.3%	9.7%	10.7%
\$450,001 to \$540,000	3.0%	3.4%	3.8%
\$540,001 to \$1,000,000	3.6%	3.9%	3.9%
Over \$1,000,000	0.5%	0.5%	0.5%
All Homes Sold	23,492	24,587	26,496

## Median Sales Price by Selected Categories of Sale Price of Existing Residential Homes for Hampton Roads, 2017, 2018, and 2019

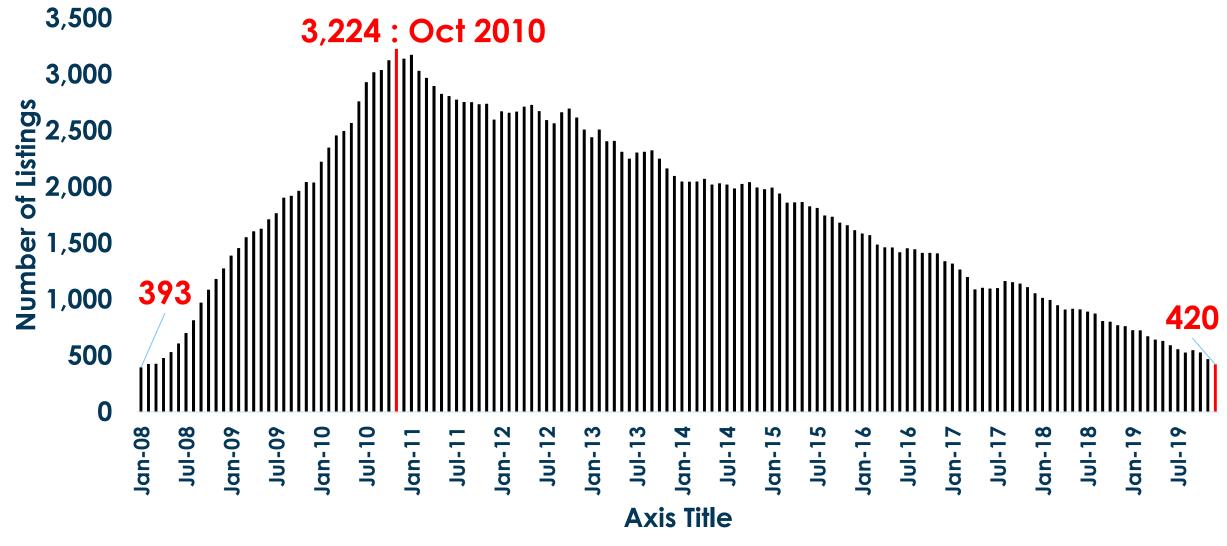
Sale Price Categories	<u>2017</u>	<u>2018</u>	<u>2019</u>
<b>Under \$250,000</b>	\$168,000	\$170,400	\$179,000
\$250,001 to \$350,000	\$292,500	\$291,850	\$292,000
\$350,001 to \$450,000	\$390,250	\$390,000	\$390,000
\$450,001 to \$540,000	\$487,500	\$490,000	\$485,000
\$540,001 to \$1,000,000	\$640,000	\$637,500	\$649,900
Over \$1,000,000	\$1,333,750	\$1,275,000	\$1,300,000
All Homes	\$219,000	\$225,000	\$234,000

Sources: Real Estate Information Network and the Old Dominion University Economic Forecasting Project. Information deemed reliable but not guaranteed.

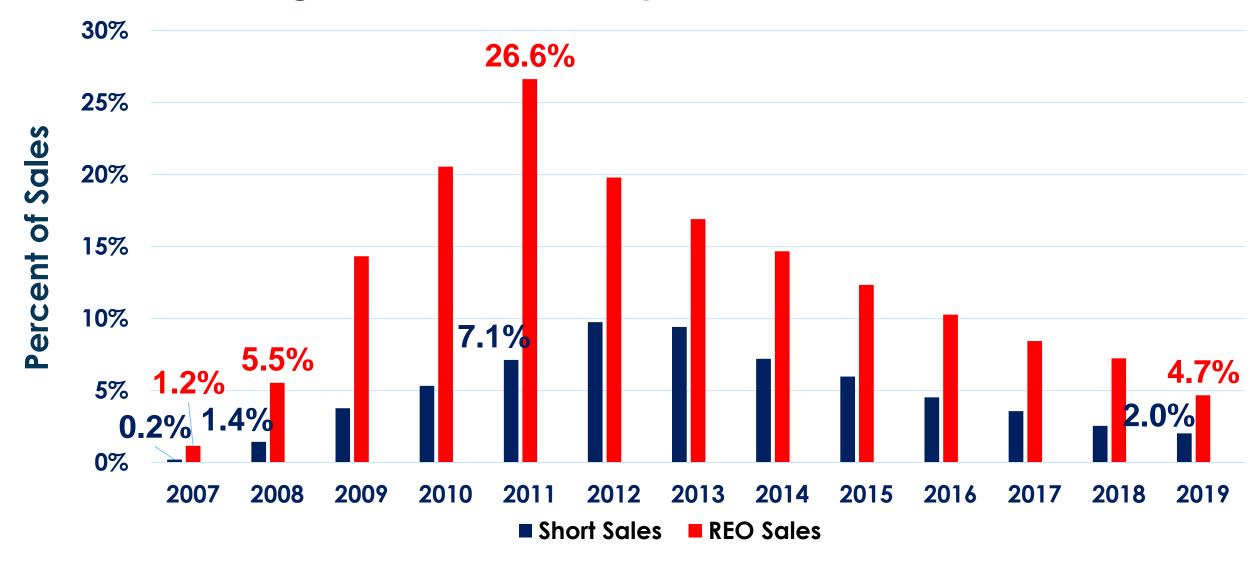
## Distribution of Existing Home Sales by Type of Financing: Hampton Roads, 1995-2019



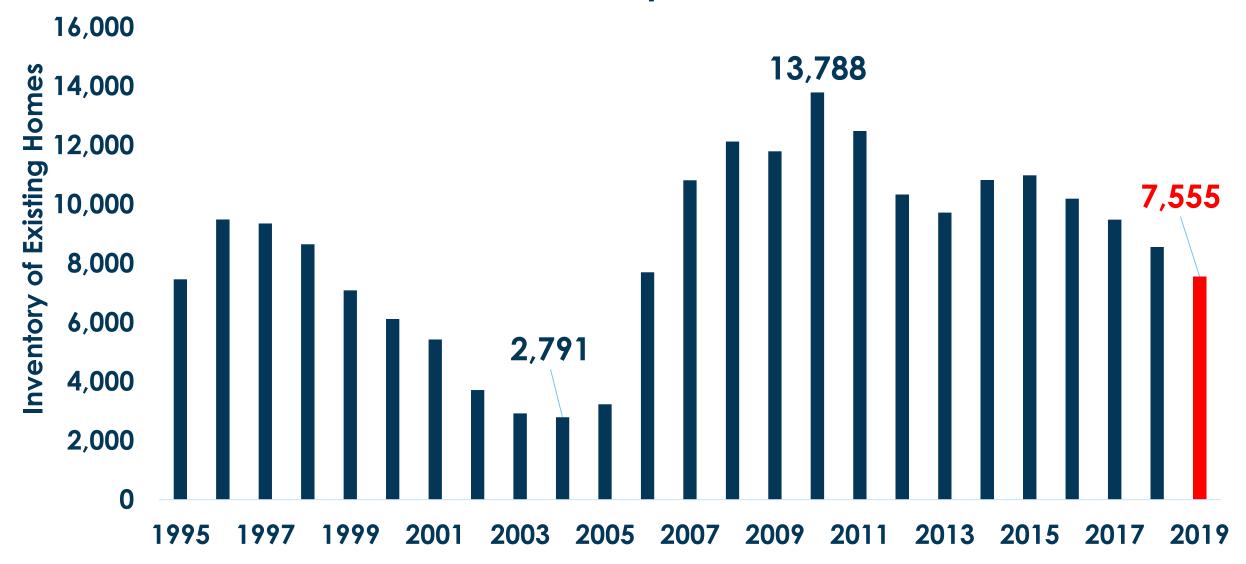
## Number of Active Listings of Distressed Homes: Hampton Roads, January 2008 to December 2019



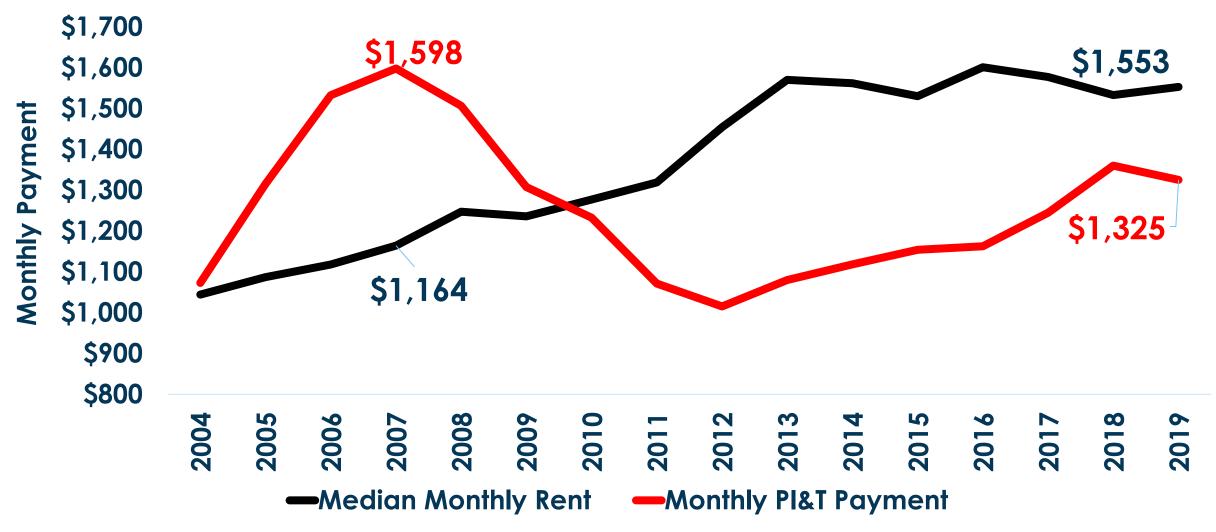
#### Short Sales and Bank-Owned Sales as Percent of Existing Home Sales: Hampton Roads, 2007-2019



#### Inventory of Existing Residential Homes on June 30 of Each Year: Hampton Roads, 1995 – 2019



#### Estimated House Rental and Principal, Interest, and Taxes for a House Payment, Hampton Roads: 2004-2019



#### Observations on the Existing Homes Market since 2011

- Inventories continue to decrease.
- Days on market have also decreased.
- Number of homes sold has steadily increased.
- Estimated months of supply have declined substantially.
- Mortgage rates continue to be at historically low levels.
- Distressed Sales Market appears to be clearing.
- As a result expect median home prices to increase at a faster pace in 2020.

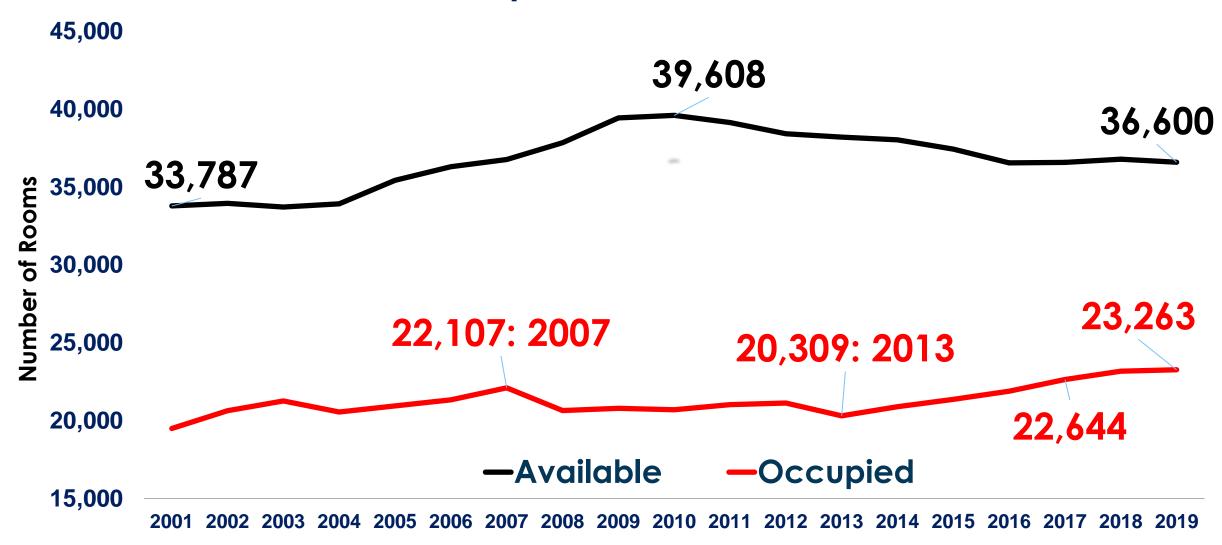


# Hotel Industry Growth Continues

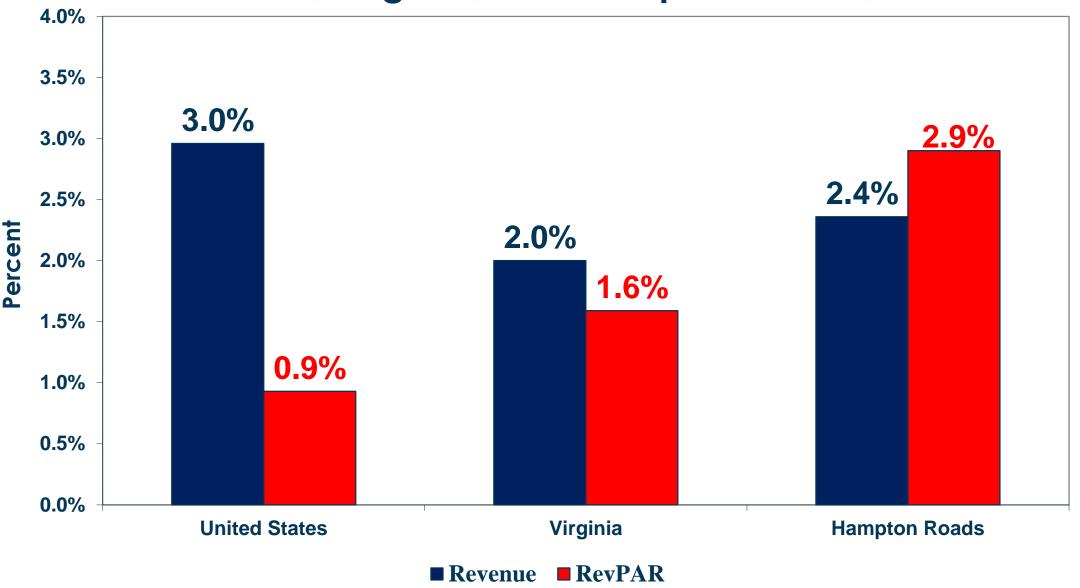
## Nominal and Real (Inflation-Adjusted) Hotel Revenue Hampton Roads, 2001-2019



#### Number of Available and Occupied Hotel Rooms in Hampton Roads: 2001-2019



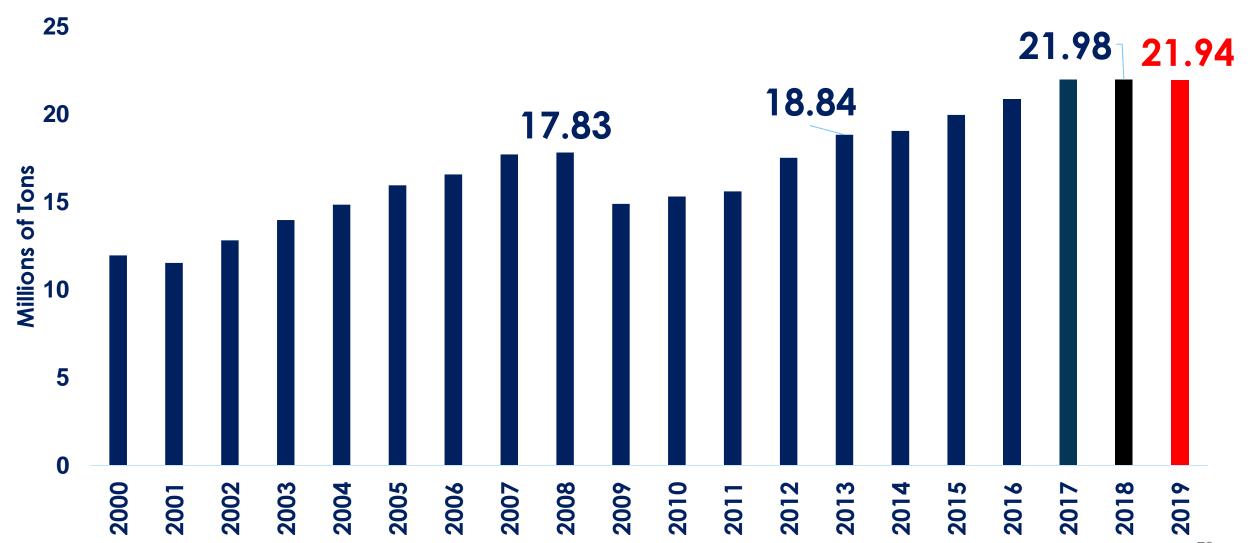
#### Growth in Hotel Revenue and Revenue Per Available Room: United States, Virginia, and Hampton Roads, 2018-2019



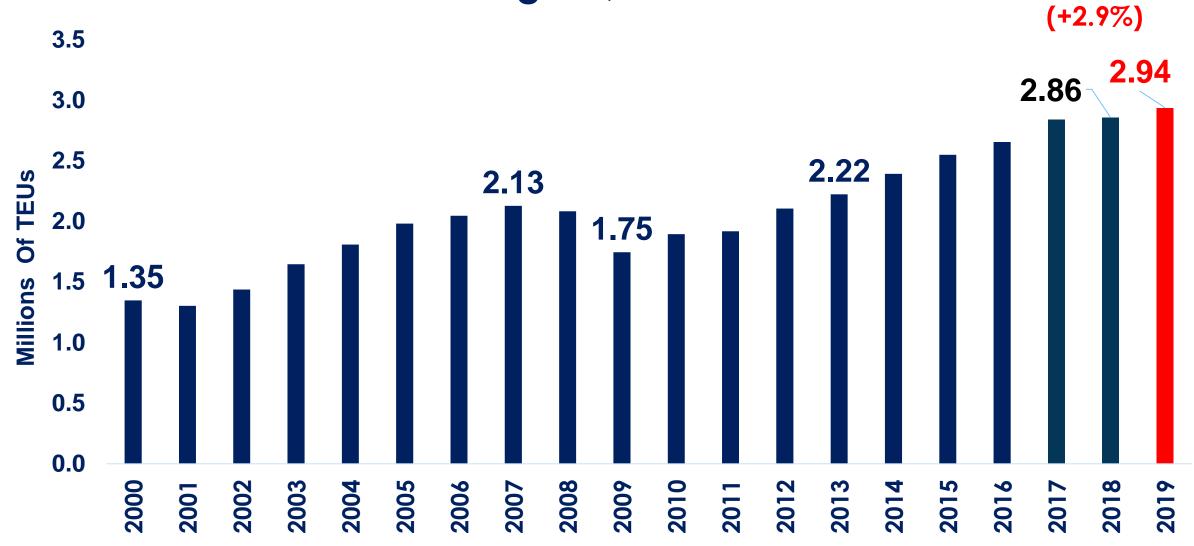


The Port of Virginia: Moderate Growth Amid Capacity Expansion, Tariffs

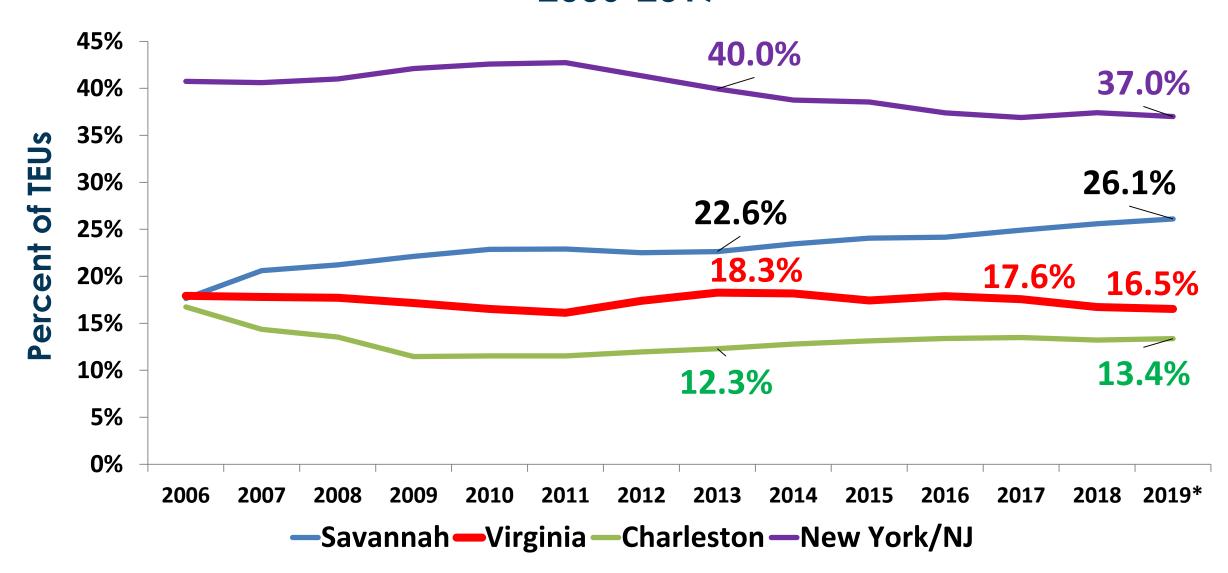
#### General Cargo Tonnage Port of Virginia, 2000-2019



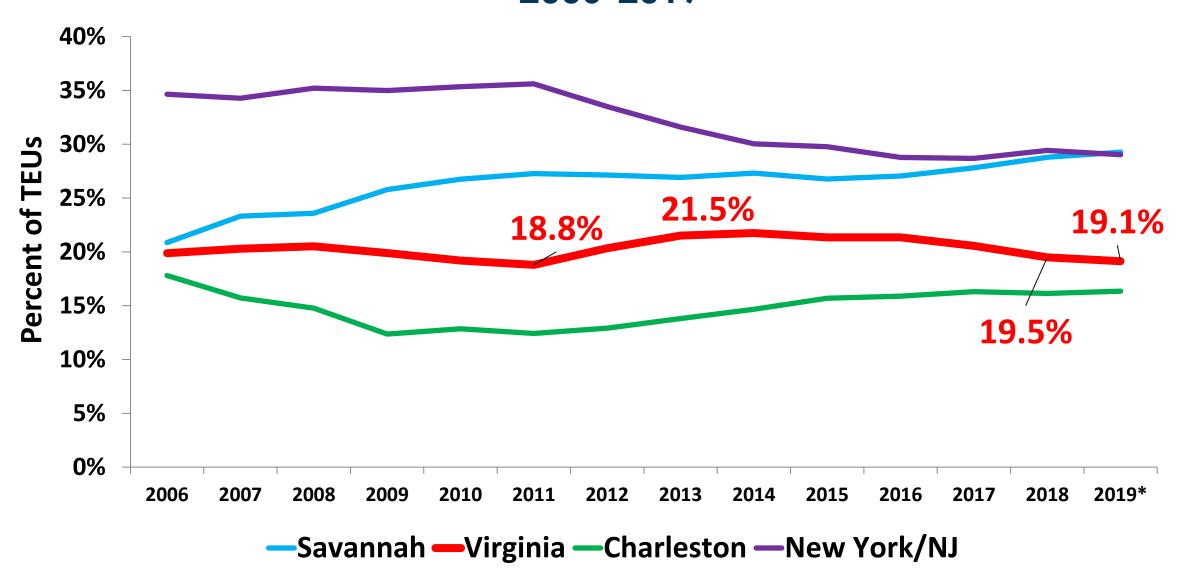
## Twenty Foot Equivalent Container Units (TEUs) Port of Virginia, 2000-2019



#### Shares of Total Loaded TEUs for Selected East Coast Ports, 2006-2019\*



#### Shares of Outbound Loaded TEUs for Selected East Coast Ports, 2006-2019\*



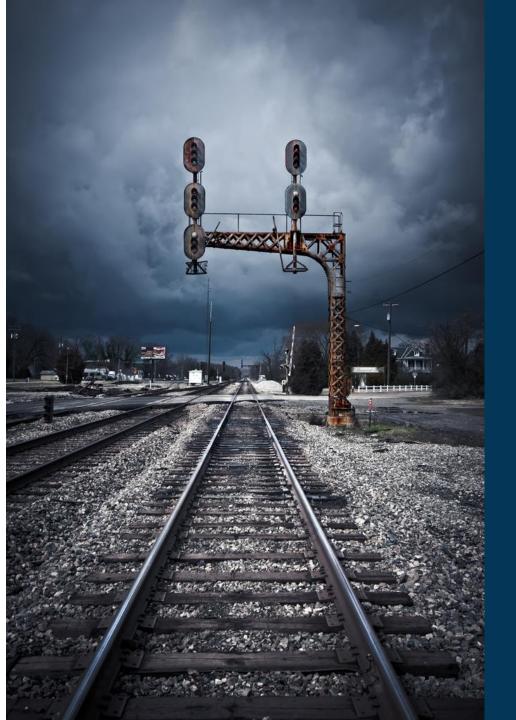
#### 2020: Accelerating Growth in Hampton Roads

Regional GDP growth in 2020 is forecasted to be greater than the growth observed in 2019 and 2018.

- Defense, port, health-care industries, and tourism are likely to help the region's moderate economic expansion in 2020.
- Single-family home prices in 2020 are likely to increase at a moderate pace.
   Months of supply of existing homes are lower than their historic average and the distressed housing market segment appears to be clearing.
- Going forward, uncertainty in Washington will continue to be a major concern.

	2019 Forecast	2019 Actual	2020 Forecast
Hampton Roads Real Gross Domestic Product	2.4%		2.6%
Civilian Job Growth	0.8%	0.5%	0.7%
Unemployment Rate	3.1%	3.1%	3.0%
Taxable Sales	3.3%	4.8%	4.2%
Hotel Revenue	3.8%	2.4%	2.7%
General Cargo Tonnage	2.0%	-0.2%	1.0%
General Cargo TEUs	3.6%	2.9%	3.9%
One Unit Housing Permit Value	2.0%	2.7%	2.0%

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