







## 2018 Annual Economic Forecast Dragas Center for Economic Analysis and Policy

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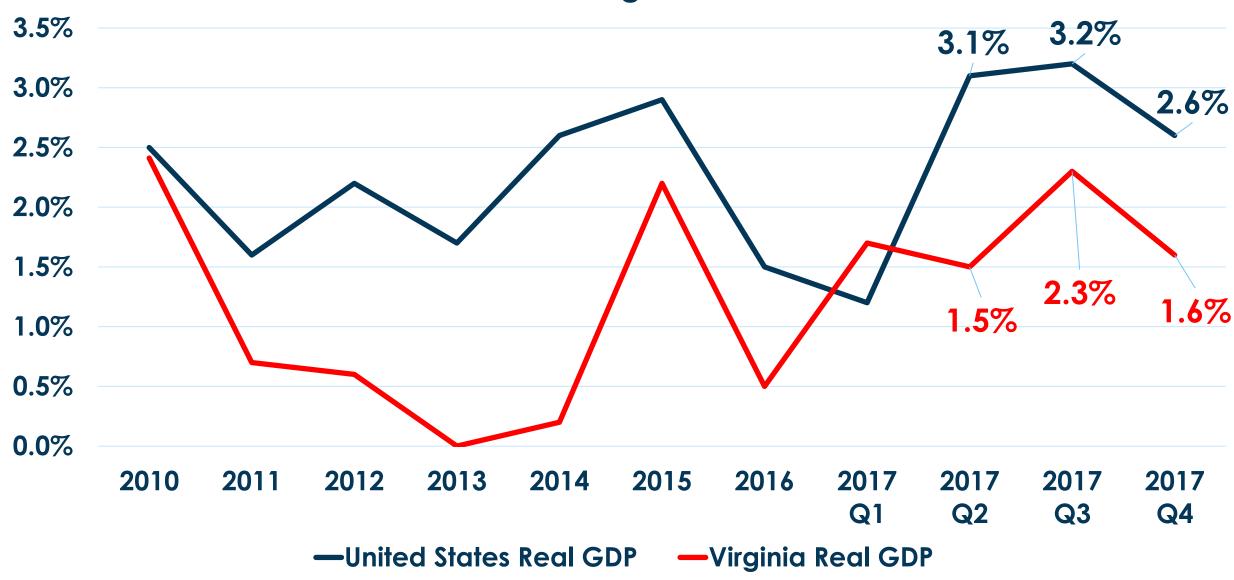
The forecasts and commentary do not constitute an official viewpoint of Old Dominion University, its President, John R. Broderick, the Board of Visitors, the Strome College of Business, or the generous donors who support the activities of the Dragas Center for **Economic Analysis and Policy and** the Economic Forecasting Project.



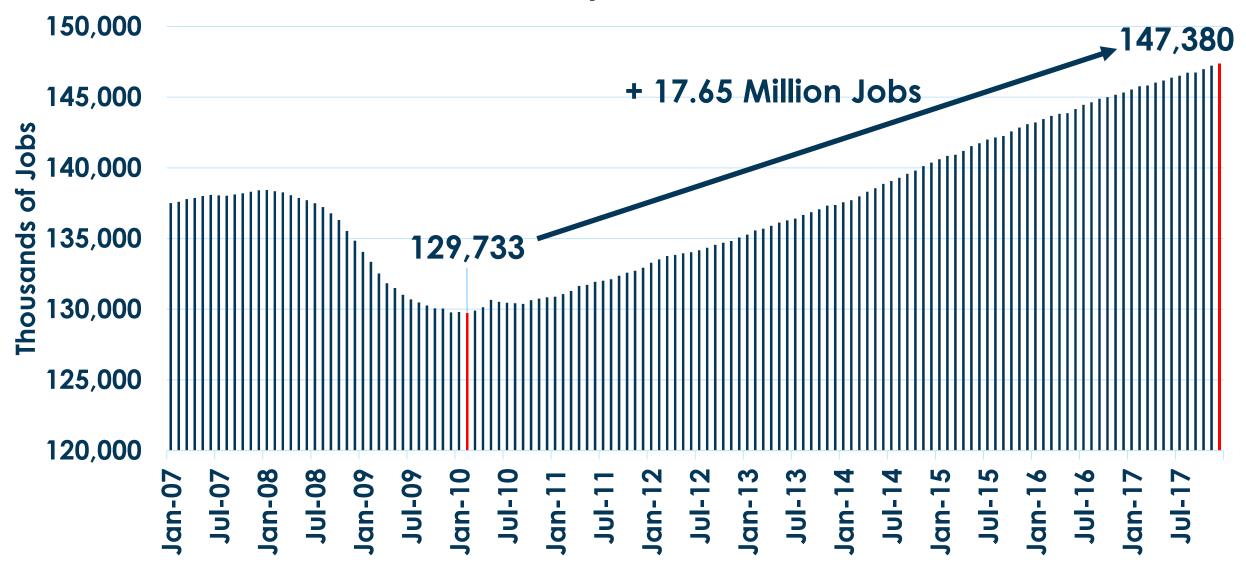
#### **Current and Historical Expansions**

Expansion	Duration In months	Annual Employment Growth	Annual Real GDP Growth
October 1949 – July 1953	45	4.35%	6.14%
May 1954 – August 1957	39	2.51%	3.67%
April 1958 – April 1960	24	3.58%	4.86%
February 1961 – December 1969	106	3.23%	4.68%
November 1970 – November 1973	36	3.38%	4.60%
March 1975 – January 1980	58	3.52%	4.01%
December 1982 – July 1990	91	2.81%	3.81%
March 1991 – March 2001	120	2.01%	3.45%
November 2001 – December 2007	73	0.88%	2.66%
June 2009 – Present*	103	1.38%	2.14%

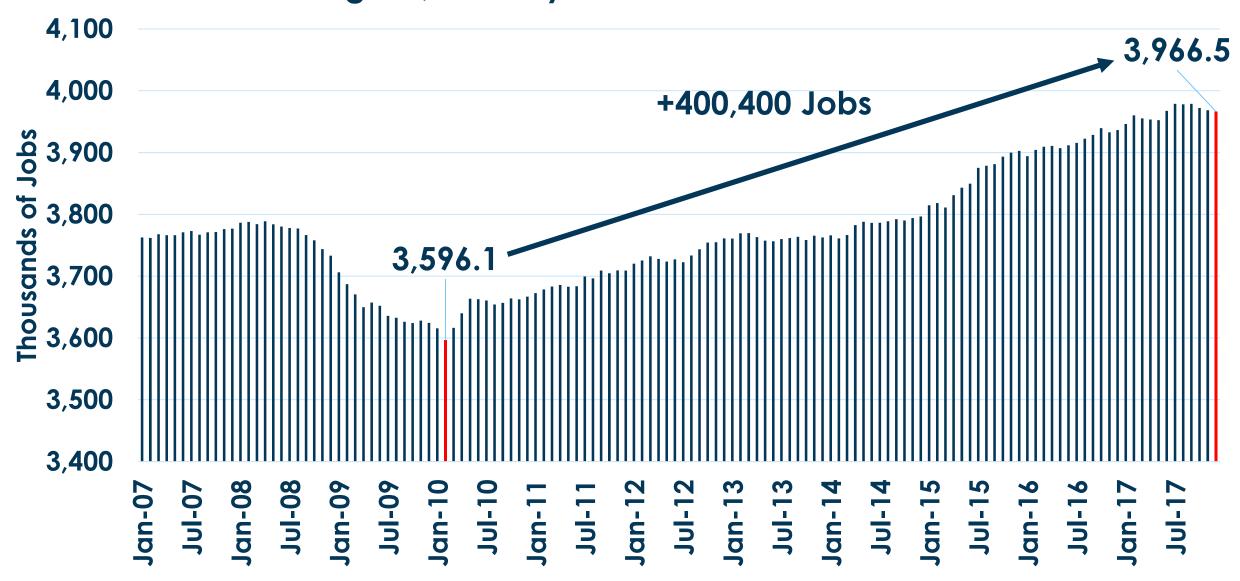
#### Growth in Real Gross Domestic Product United States and Virginia, 2010 - 2017 Q4



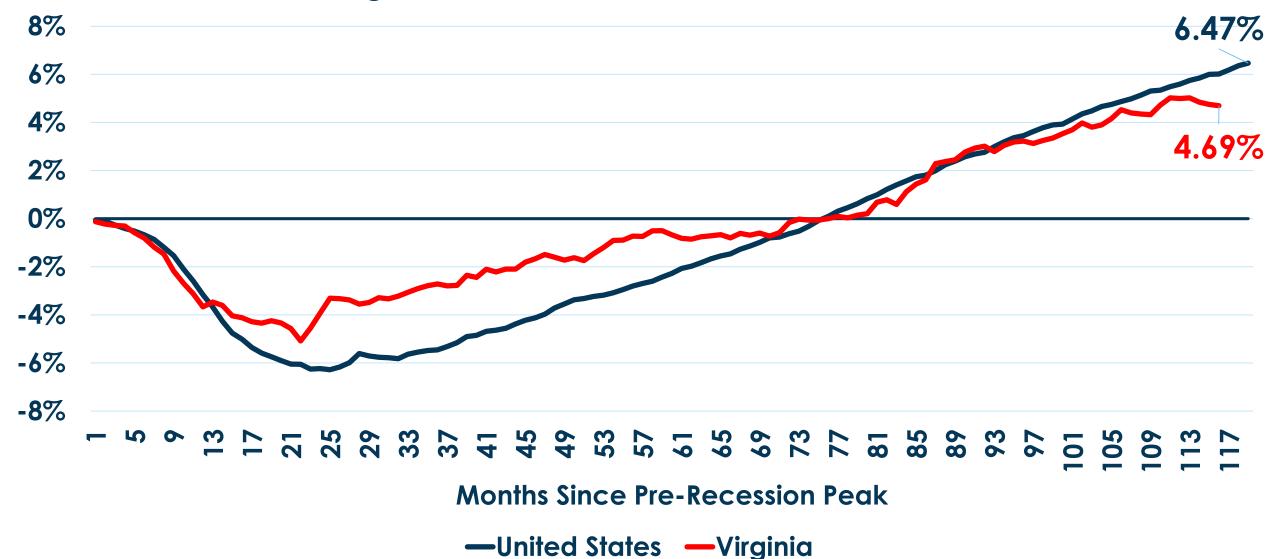
## Total Nonfarm Employment United States, January 2007 – December 2017



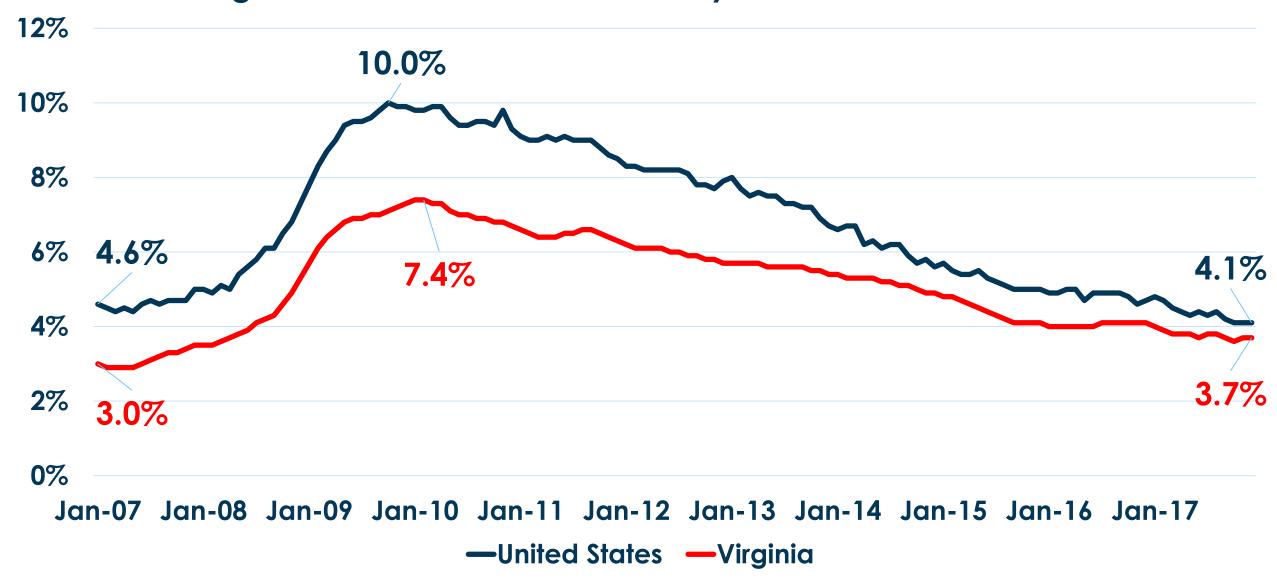
#### Total Nonfarm Employment Virginia, January 2007 - December 2017



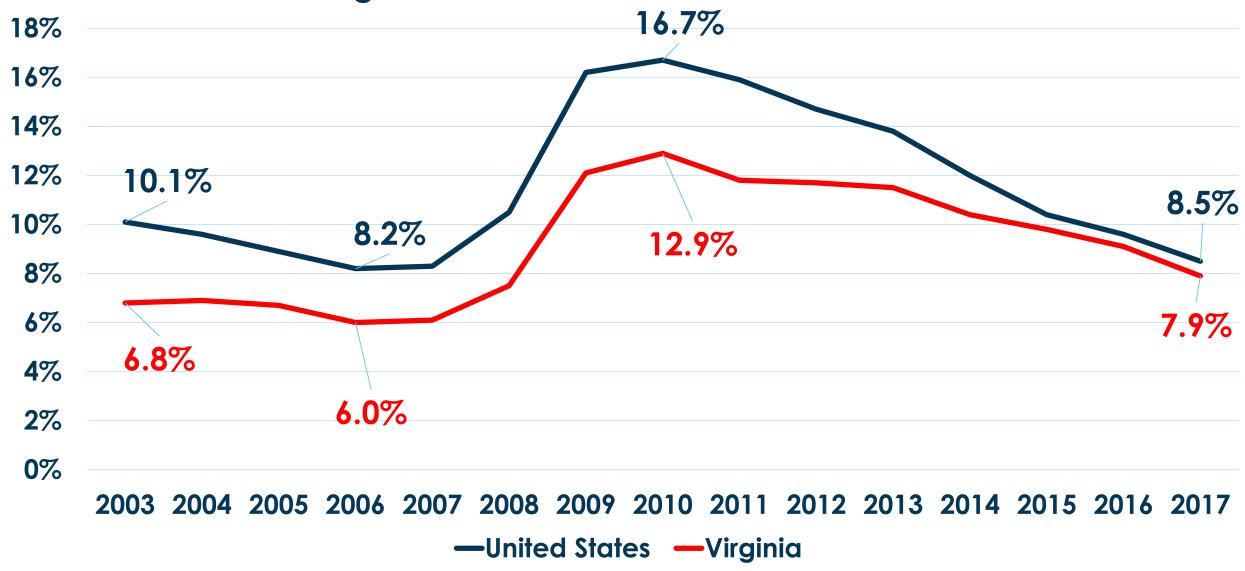
## Monthly Job Growth From Pre-Recession Peak Employment Virginia and the United States, 2008-2017



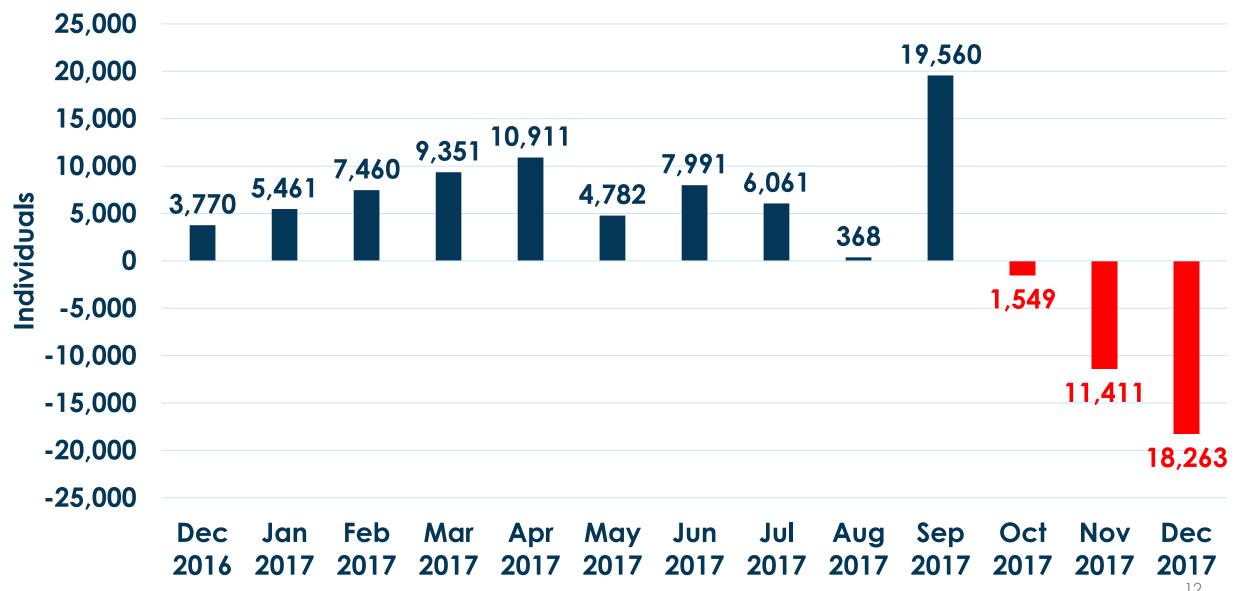
## Headline Unemployment Rate (U3) Virginia and United States, January 2007 - December 2017



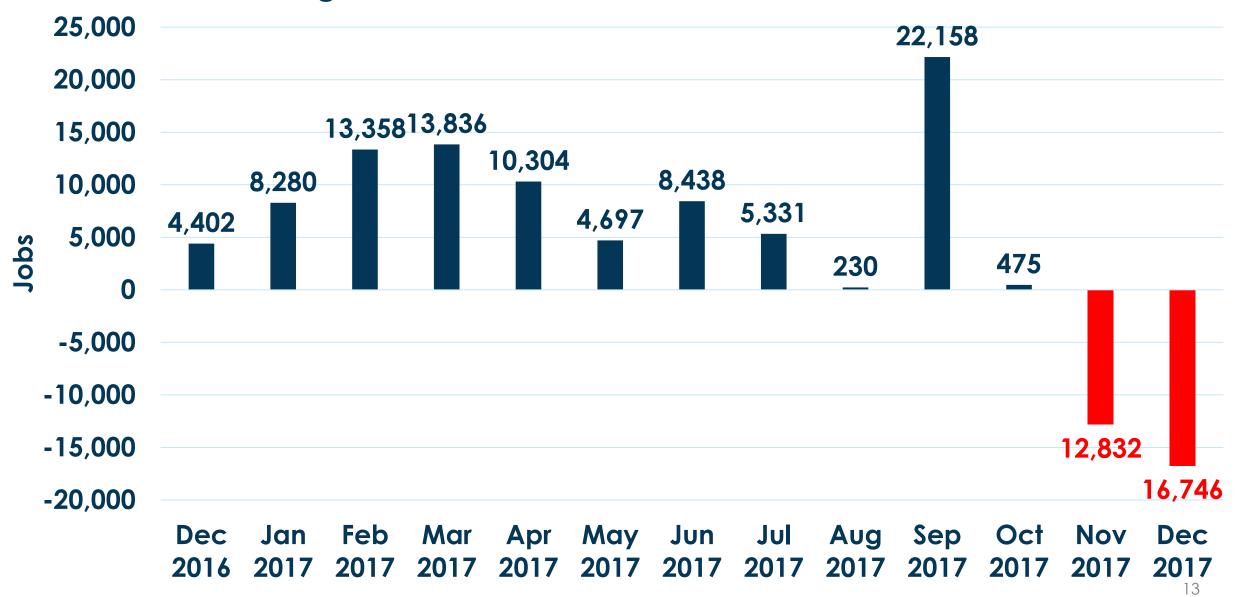
## Alternative Measure of the Unemployment Rate (U6) Virginia and the United States, 2003-2017



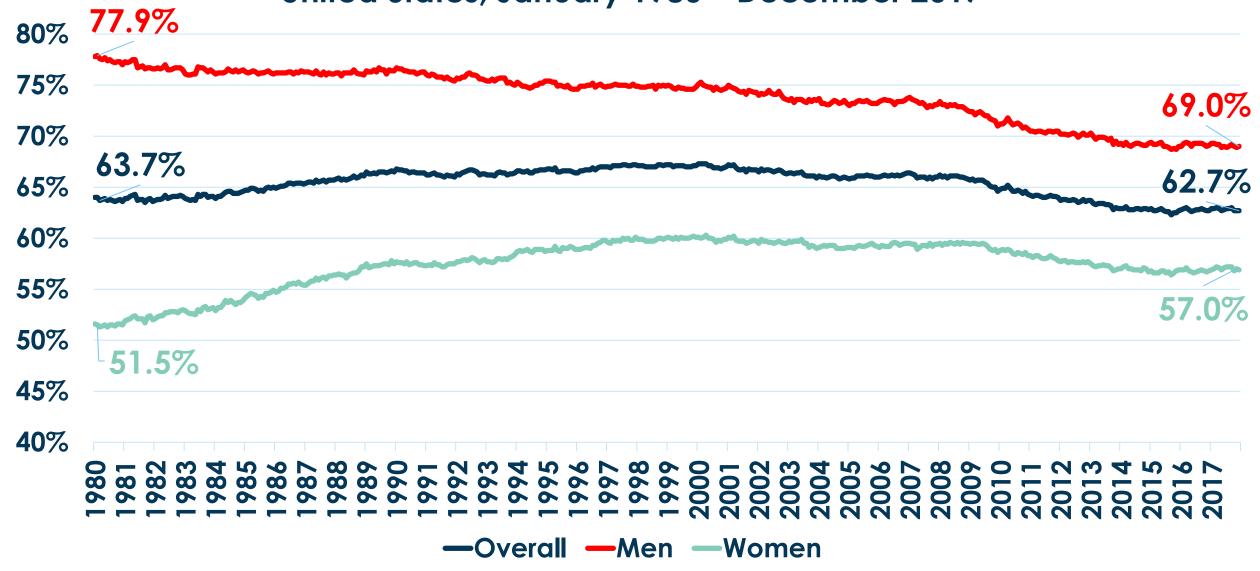
#### Month-to-Month Change in Labor Force Virginia, December 2016 to December 2017



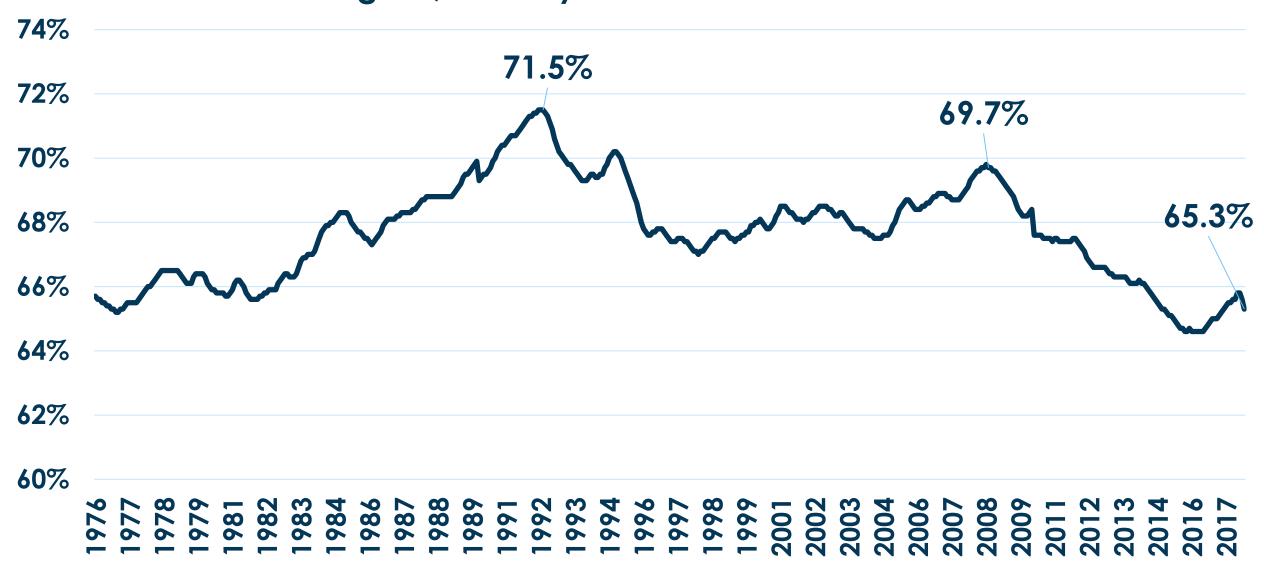
## Month-to-Month Change in Employment Virginia, December 2016 to December 2017

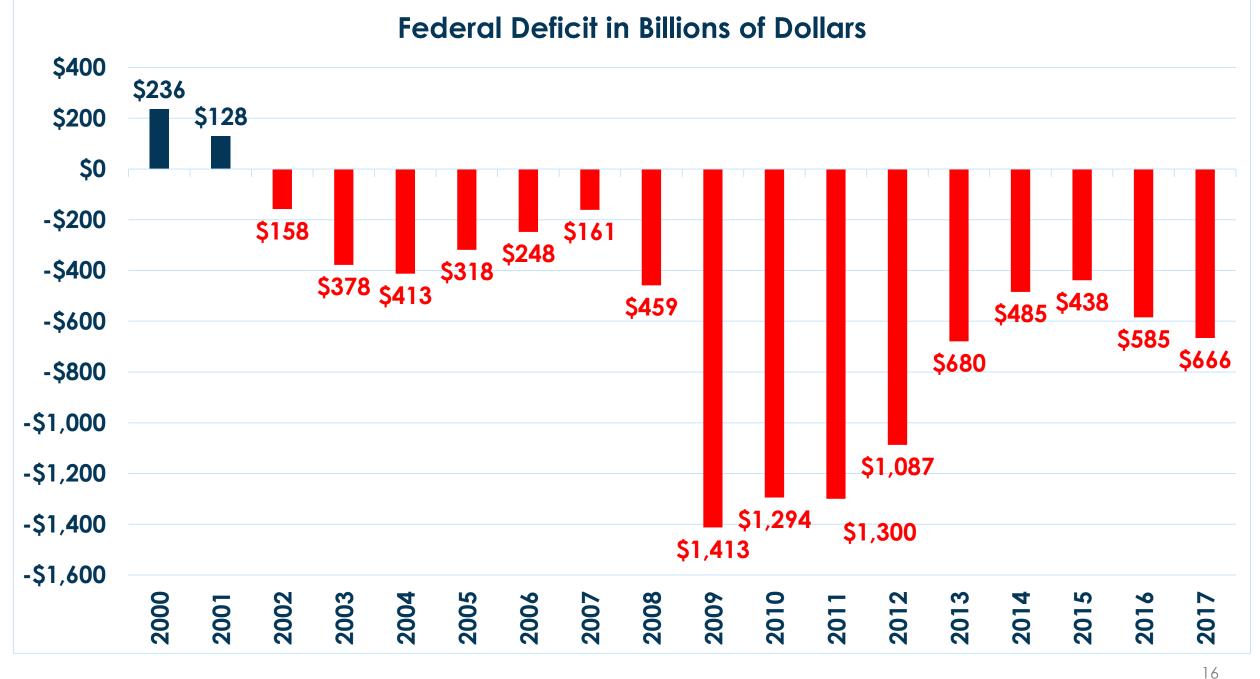


#### Civilian Labor Force Participation Rate United States, January 1980 – December 2017

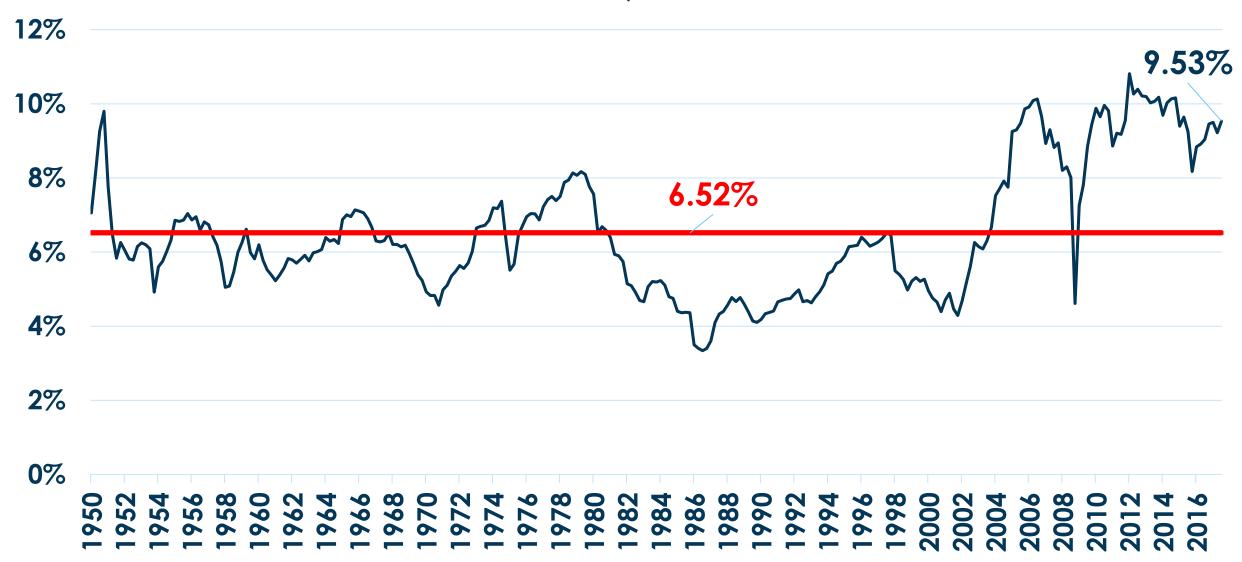


#### Labor Force Participation Rate Virginia, January 1976 to December 2017





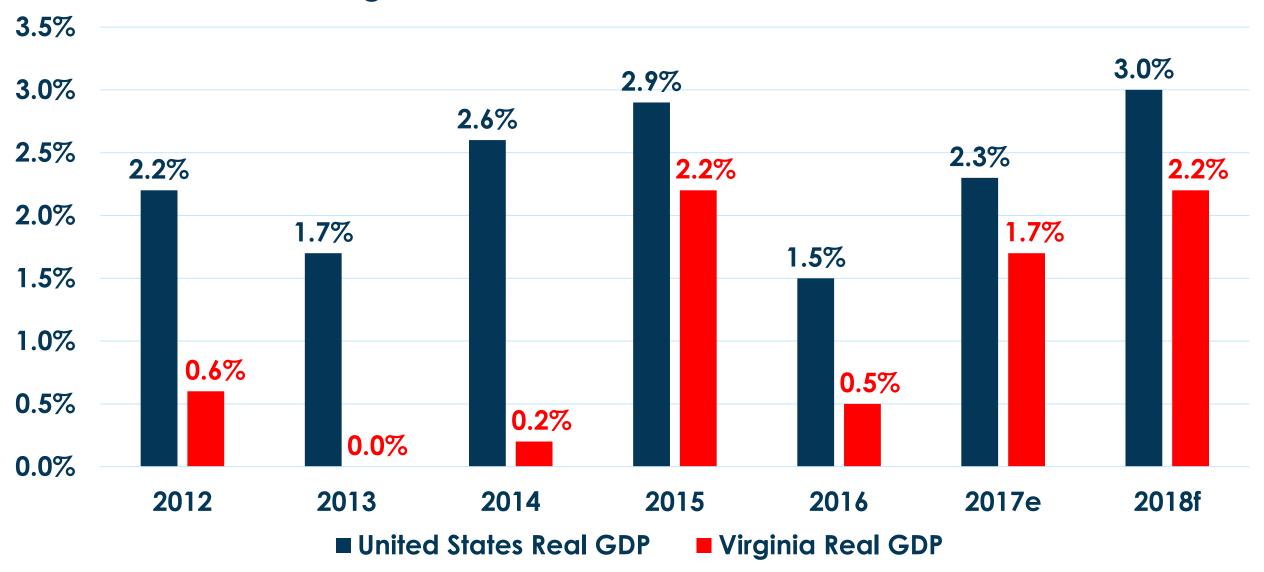
#### Corporate Profits as Percent of GDP United States, 1950-2017\*



# Cyclically Adjusted Price/Earnings Ratio Standard and Poor's Composite Price Index January 1881 – January 2018



#### Growth in Real Gross Domestic Product Virginia and the United States, 2012-2018



	2017 Forecast	2017 Actual	2018 Forecast
U.S. Real Gross Domestic Product	2.2%	2.3%	3.0%
Civilian Job Growth	1.5%	1.2%	1.1%
Unemployment Rate	4.7%	4.1%	3.8%
Consumer Price Index	2.8%	2.2%	2.9%
Core Consumer Price Index	2.4%	1.7%	2.2%
3-month Treasury Bill	1.3%	1.4%	2.0%
10-year Treasury Bill	3.2%	2.4%	3.2%
30-year Treasury Bill		2.8%	3.6%
30-year Conventional Mortgage	4.3%	4.0%	5.0%
Federal Deficit		-\$655 Billion	-\$750 Billion
Virginia Real GDP*	1.5%	1.7%	2.2%
Virginia Employment Growth		1.4%	1.3%

2018 Hampton Roads Economic Forecast

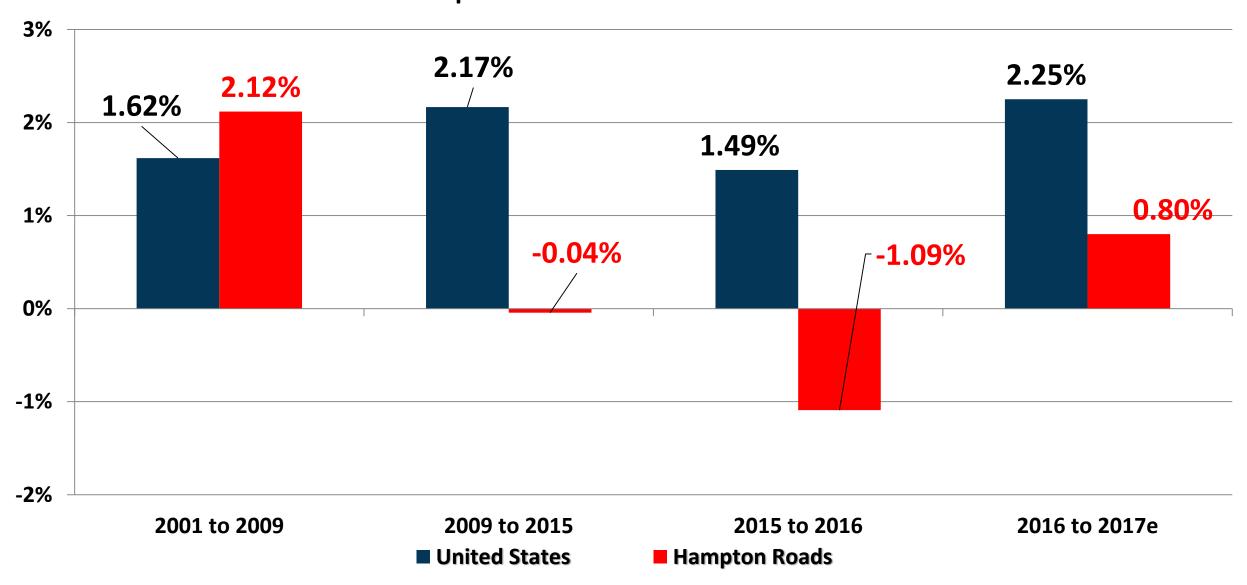
Stagnant Growth, Improving Future?

**Professor Vinod Agarwal** 

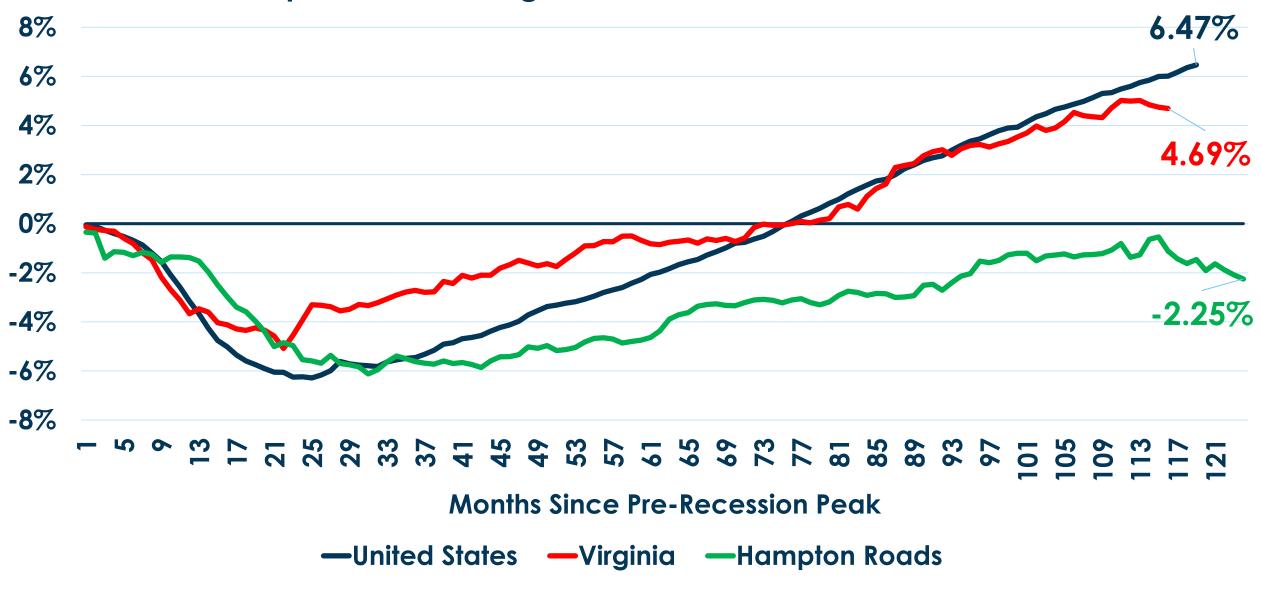
January 31, 2018



#### Annual Growth Rate in Real GDP Hampton Roads and the United States



## Monthly Job Growth From Pre-Recession Peak Employment Hampton Roads, Virginia and United States, 2008-2017

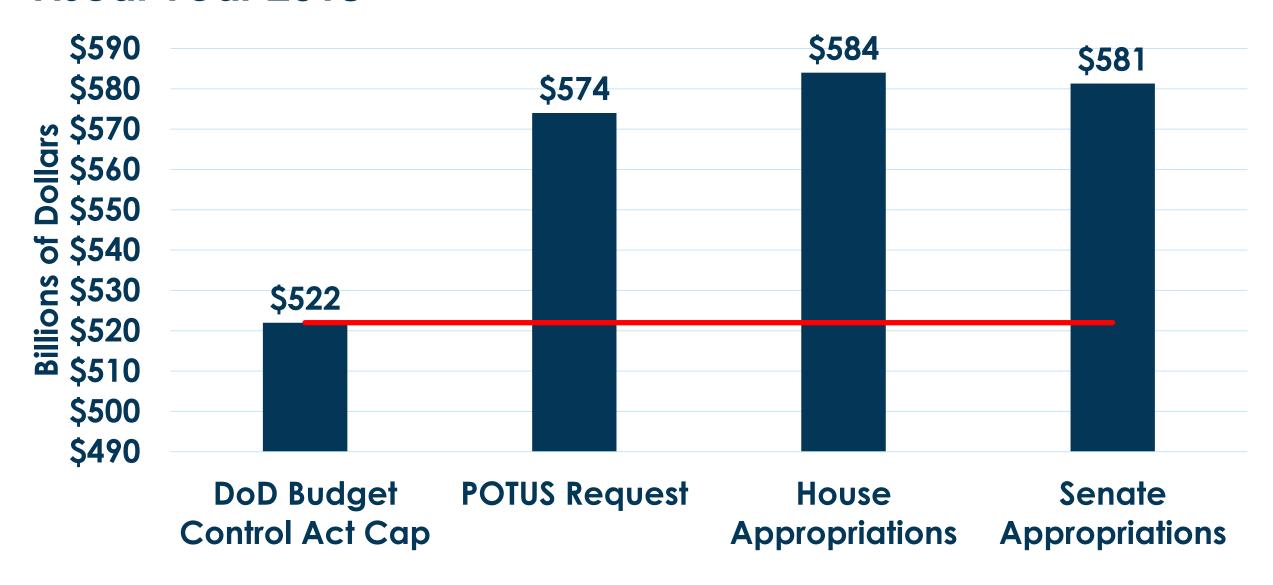


Source: Bureau of Labor Statistics and Old Dominion University Economic Forecasting Project. Peak employment for the United States was January 2008, Virginia was April 2008, and Hampton Roads was July 2007. Seasonally adjusted data through December 2017 (US and VA) and November 2017 (HR). Last month of data are preliminary. Data measure number of reported jobs.

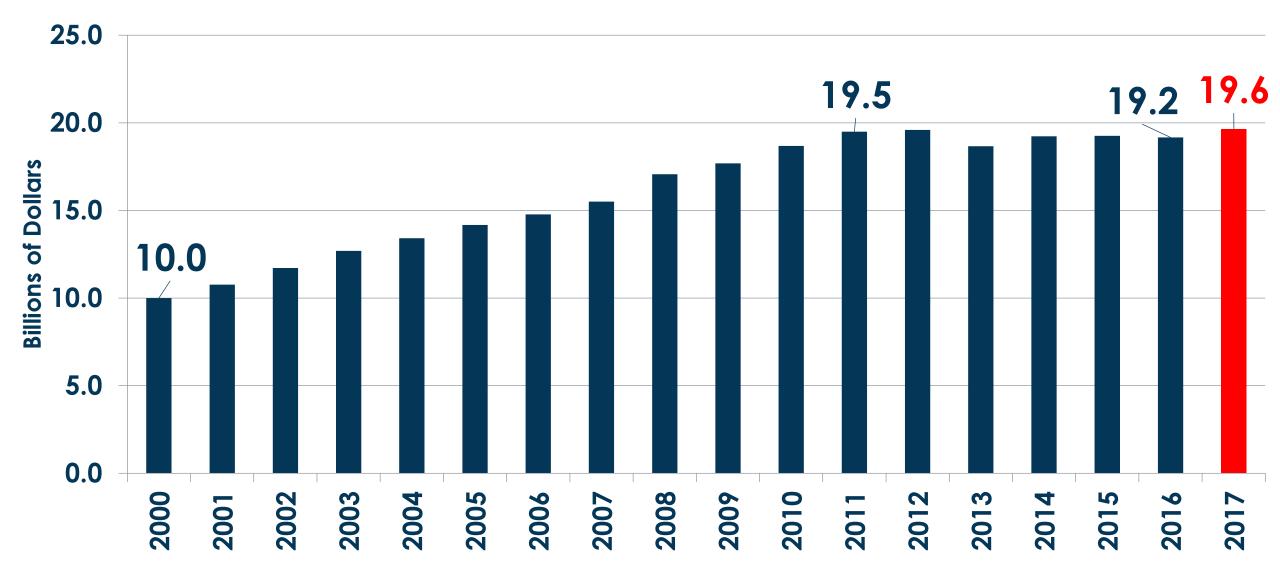


# Defense Spending in Hampton Roads

## DoD Base Budget Cap, Request, and Appropriations Bills Fiscal Year 2018



## Estimated Direct DoD Spending Hampton Roads, 2000 to 2017



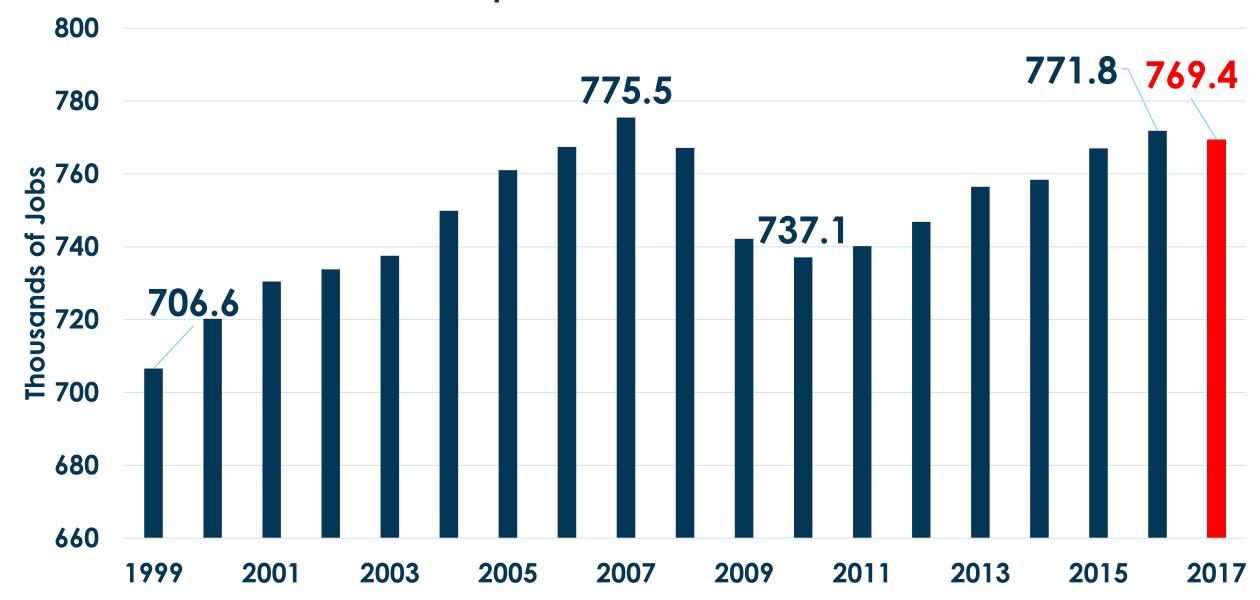
## Estimated Average Compensation Hampton Roads, Selected Categories

	<u>2015</u>	<u>2016</u>	Change in Compensation
Military	\$91,561	\$92,189	0.69%
Federal Civilian Govt. Employees	\$107,322	\$109,624	2.15%
State and Local Govt. Employees	\$62,602	\$64,164	2.49%
Private Nonfarm	\$42,189	\$41,751	-1.04%

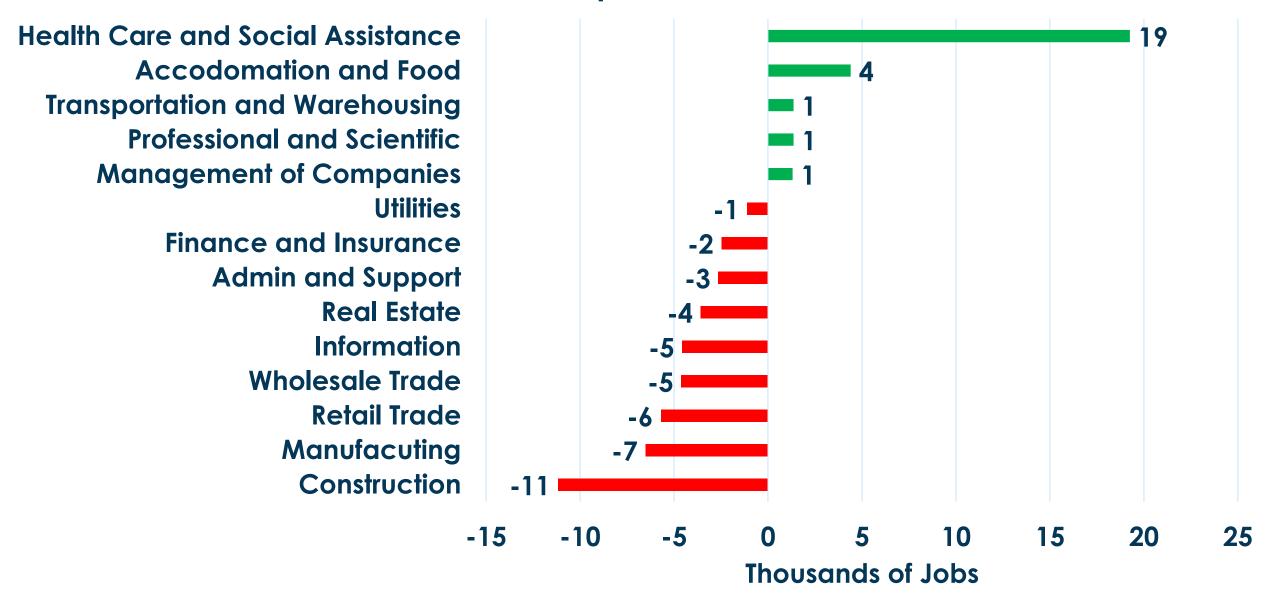


Where are the jobs?

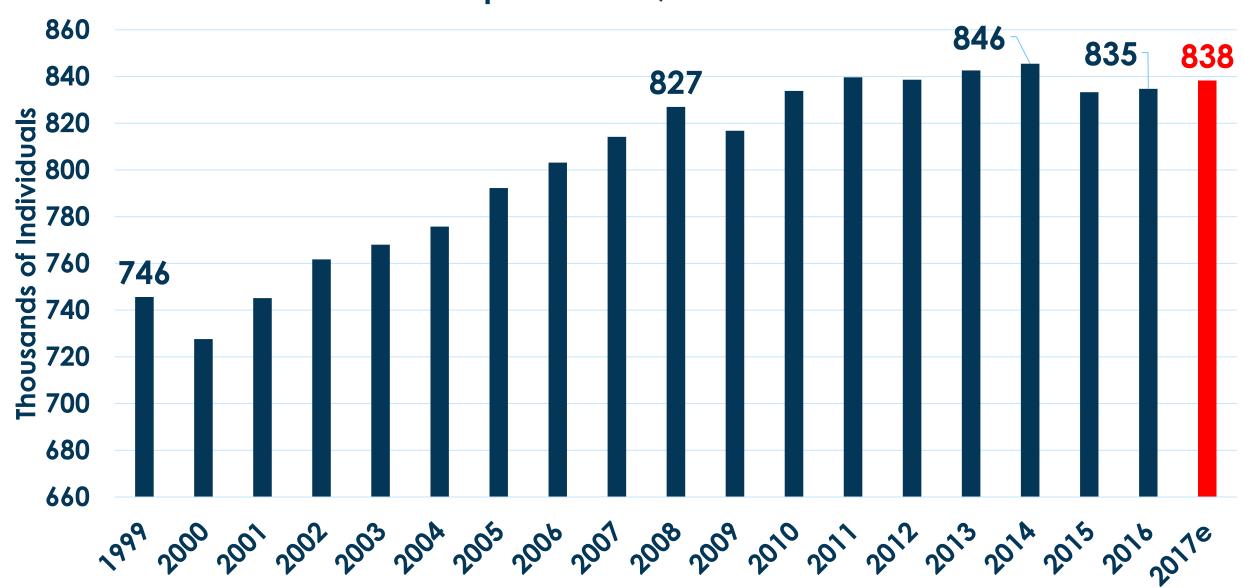
#### Average Annual Civilian Jobs Hampton Roads, 1999-2017



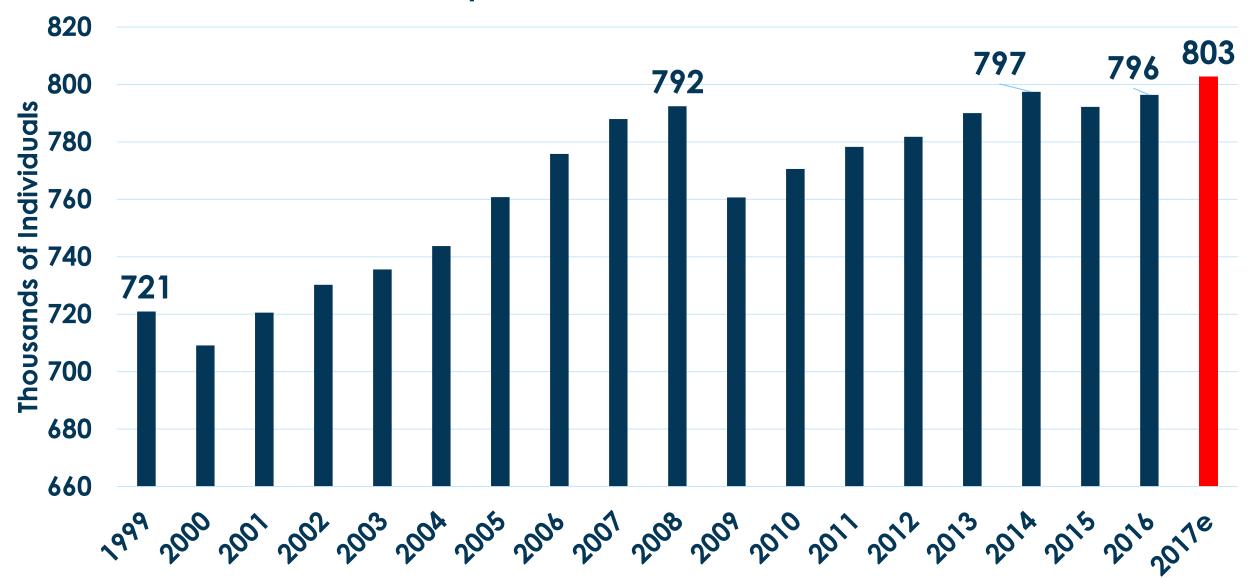
## Change in Private Sector Employment Selected Industries in Hampton Roads, 2007 Q1 to 2017 Q1



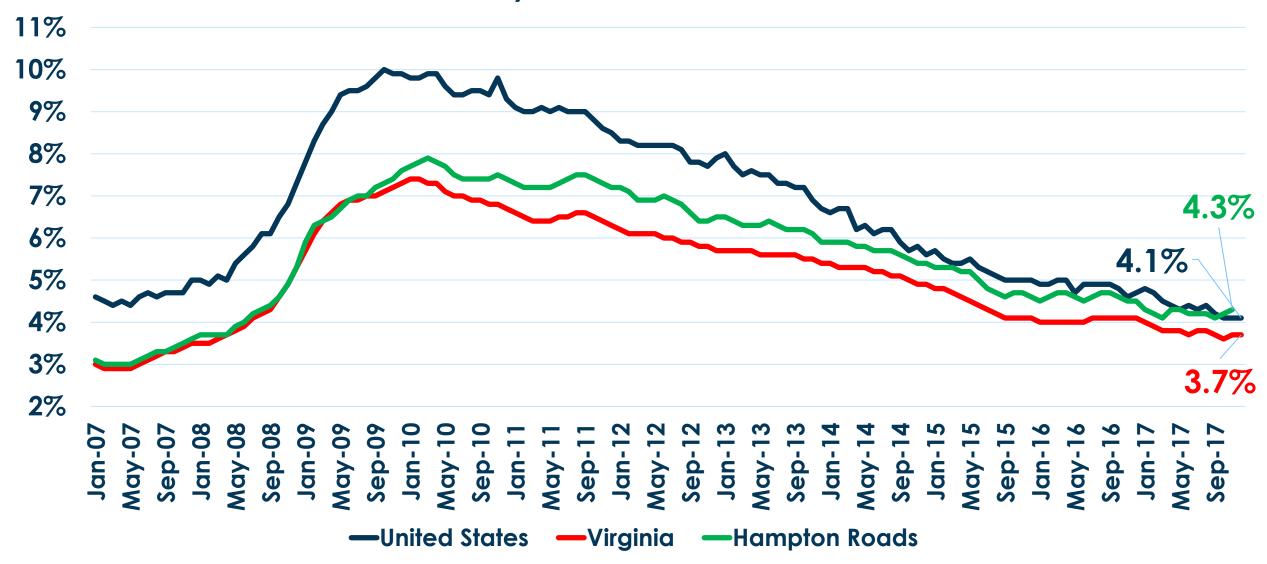
#### Civilian Labor Force Hampton Roads, 1999-2017



#### Number of Individuals Employed Hampton Roads, 1999 to 2017



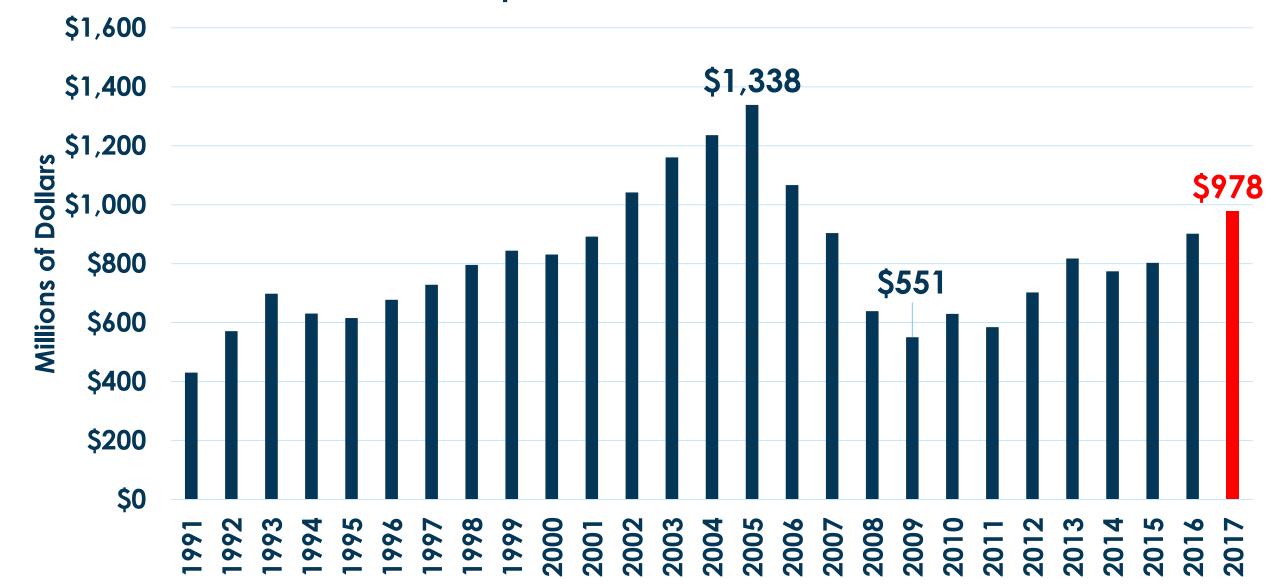
# Headline Unemployment Rate (U3) Hampton Roads, Virginia, and United States January 2007-December 2017\*



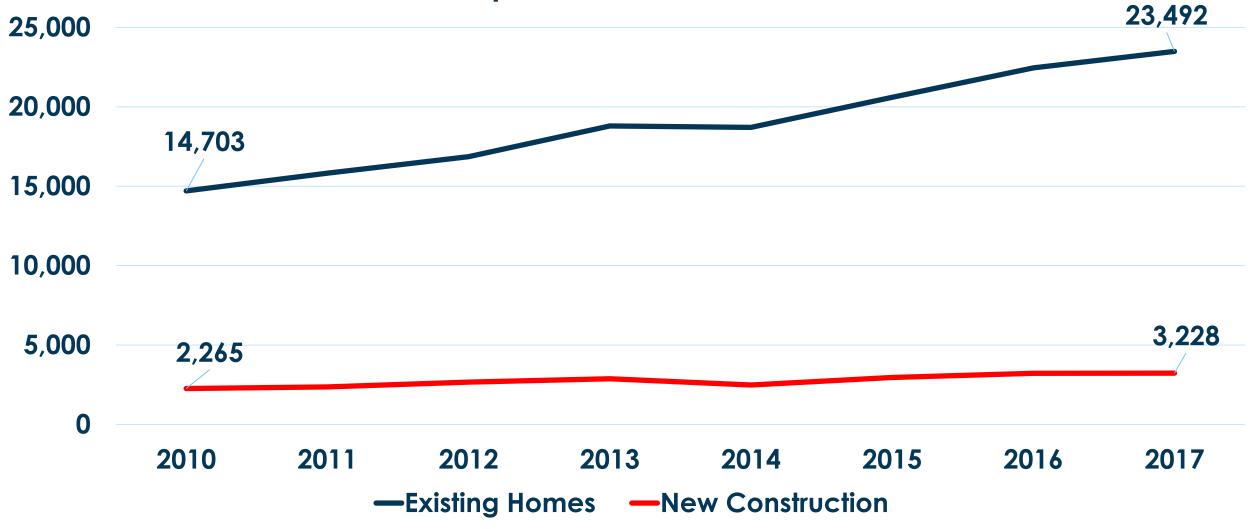


# Residential Housing is Looking Up

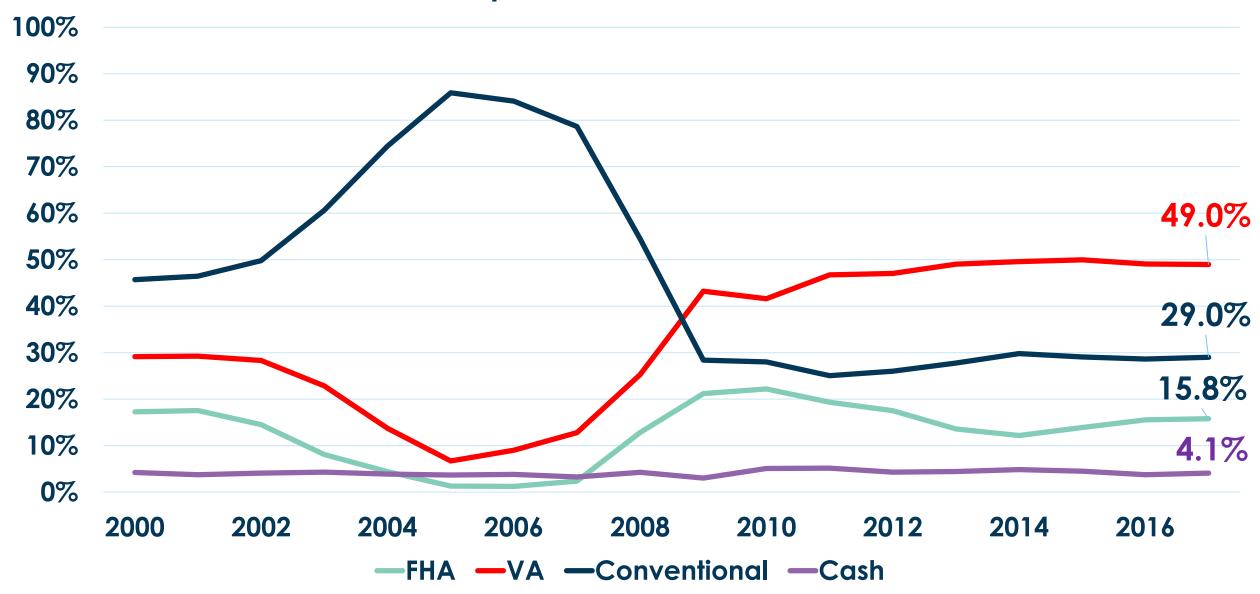
## Value of Building Permits for One-Unit Family Homes Hampton Roads, 1991-2017



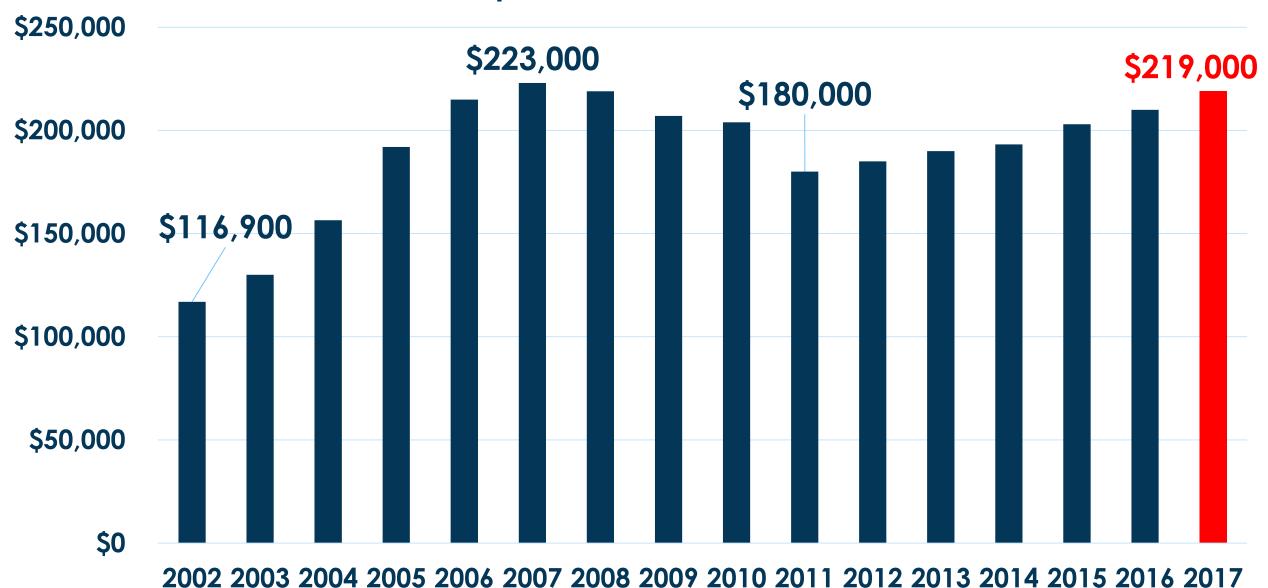
## Existing and New Construction Home Sales Hampton Roads, 2010-2017



# Distribution of New Construction Home Sales by Financing Type Hampton Roads, 2000-2017



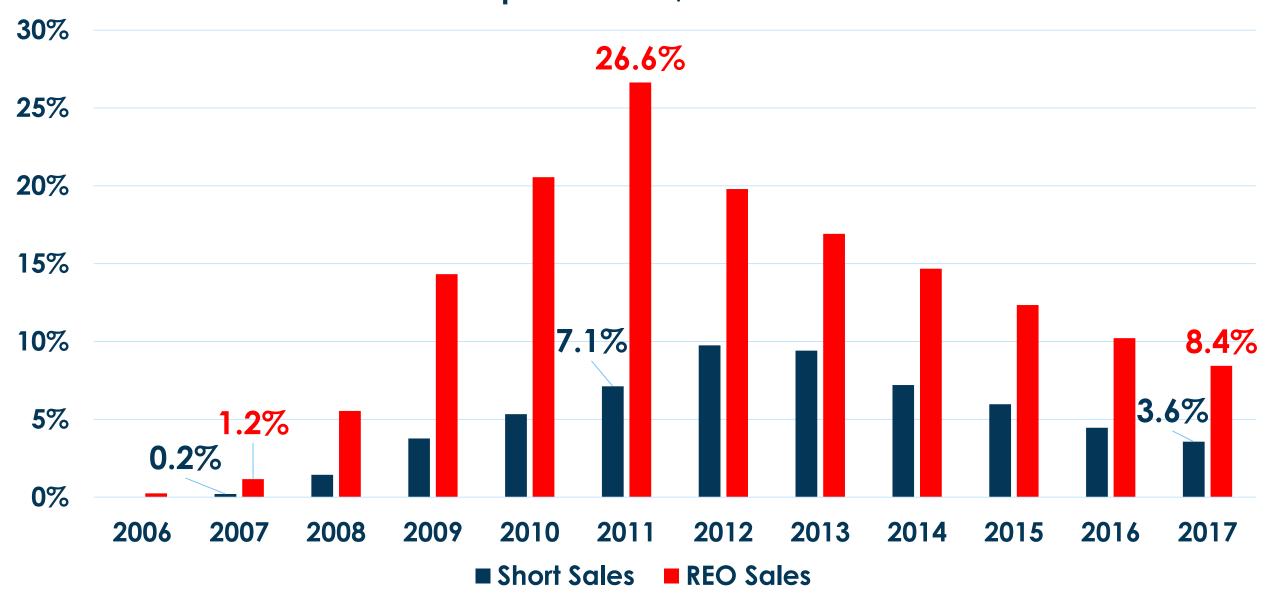
# Median Sales Price of Existing Homes Hampton Roads, 2002-2017



# Median Sale Price of Existing Residential Homes for Selected Cities in Hampton Roads: 2007 and 2017

<u>City</u>	Median Price 2007	<u>Median Price</u> <u>2017</u>	% change
Chesapeake	\$250,100	\$245,000	-2.0%
Norfolk	\$195,000	\$183,500	-5.9%
Portsmouth	\$165,500	\$140,000	-15.4%
Suffolk**	\$257,500	\$240,000	-6.8%
Virginia Beach	\$245,000	\$247,500	+1.2%
Hampton	\$180,000	\$155,000	-13.9%
Newport News	\$199,250	\$170,000	-14.7%
Williamsburg*	\$284,450	\$283,000	-0.5%
Hampton Roads	\$223,000	\$219,000	-1.8%

# Short Sales and Bank-Owned Sales as Percent of Total Sales Hampton Roads, 2006-2017



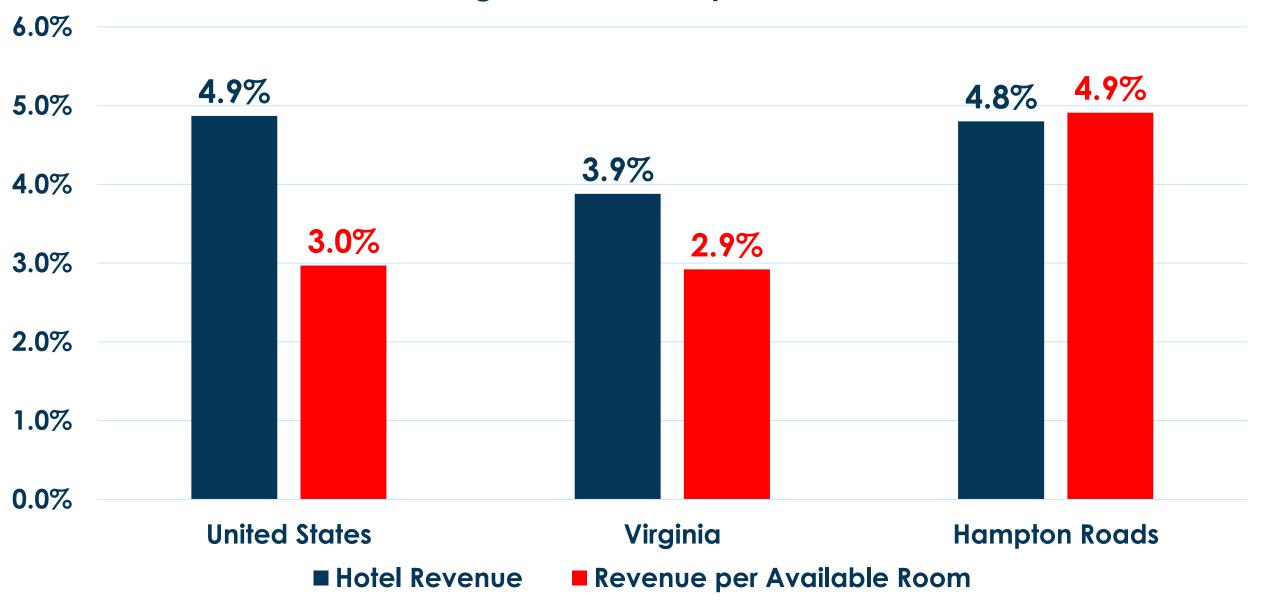


# Hotel Industry

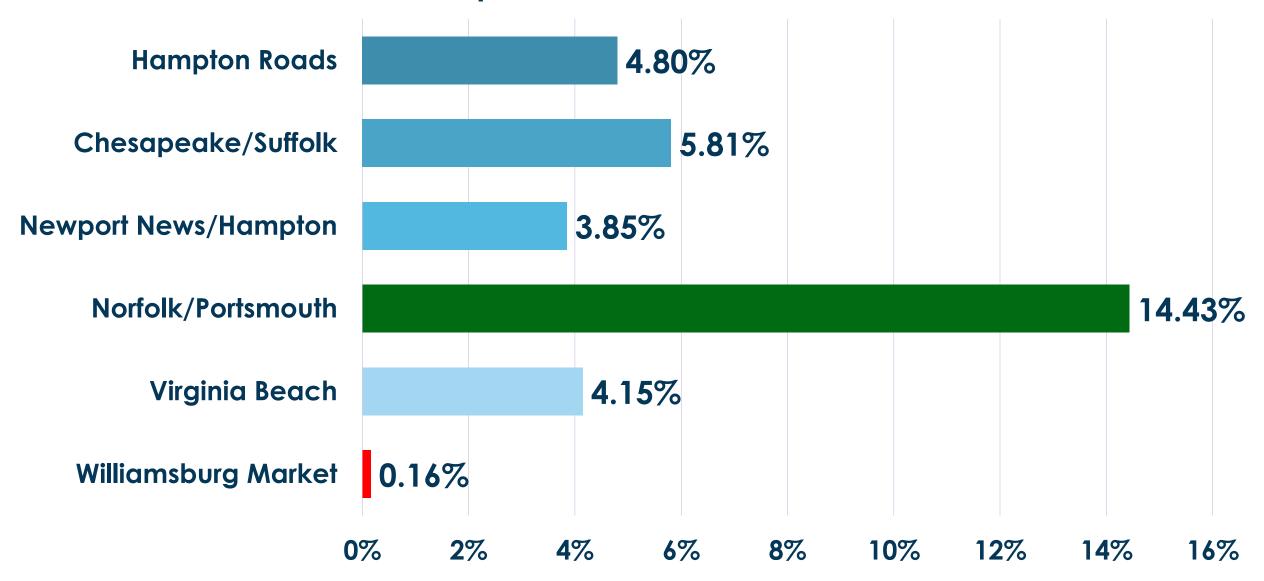
### Hotel Revenue in Hampton Roads 2000-2017



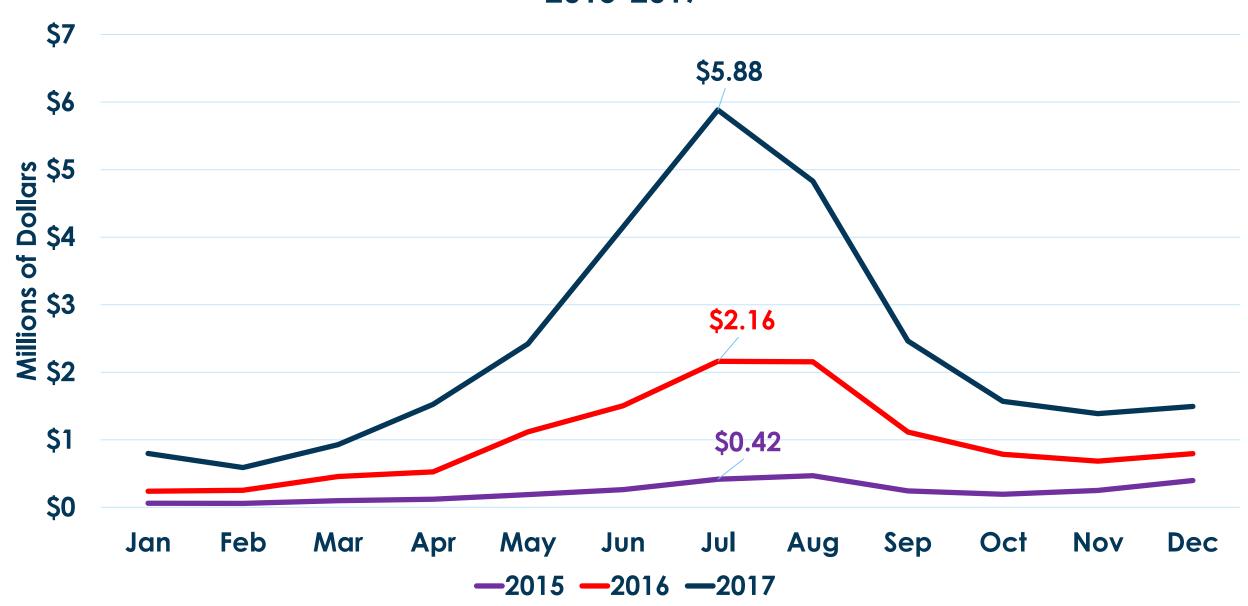
# Growth in Hotel Revenue and Revenue Per Available Room United States, Virginia, and Hampton Roads, 2016-2017



#### Growth in Hotel Revenue Hampton Roads, 2016 to 2017



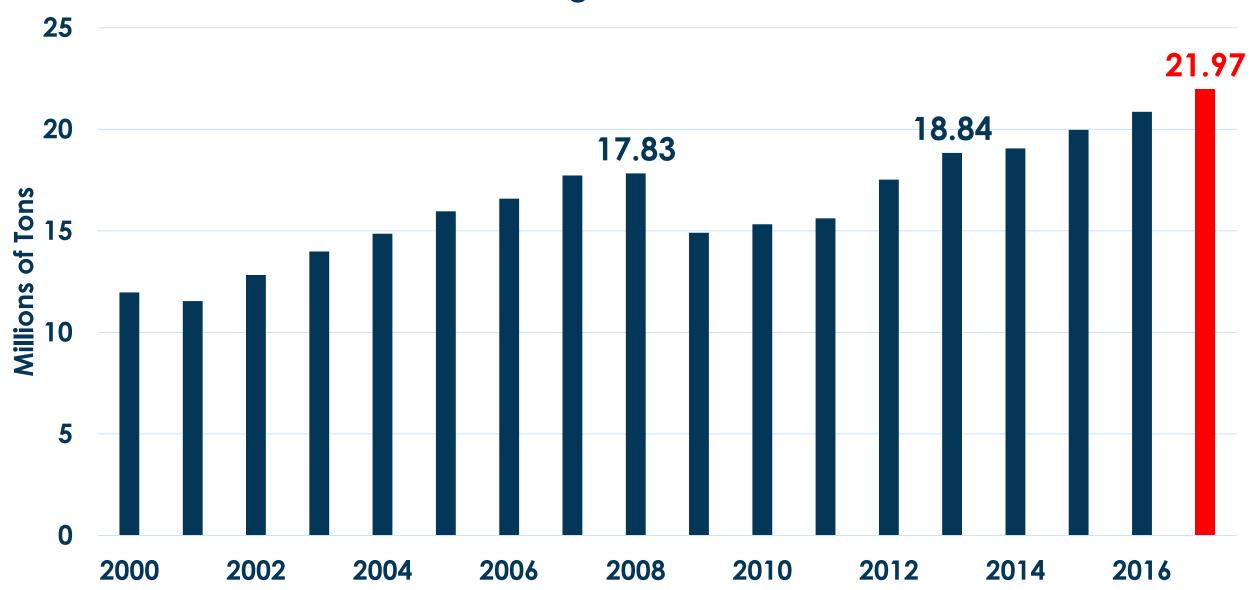
### Monthly Airbnb Revenue in Hampton Roads 2015-2017



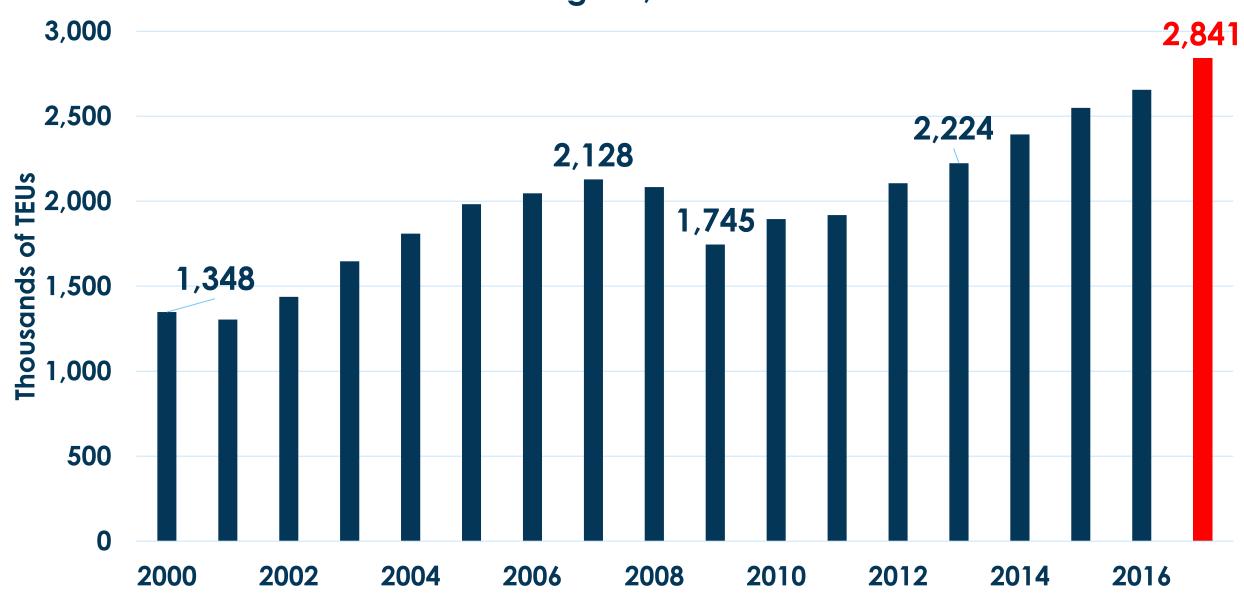


# Port of Virginia: Growing rapidly

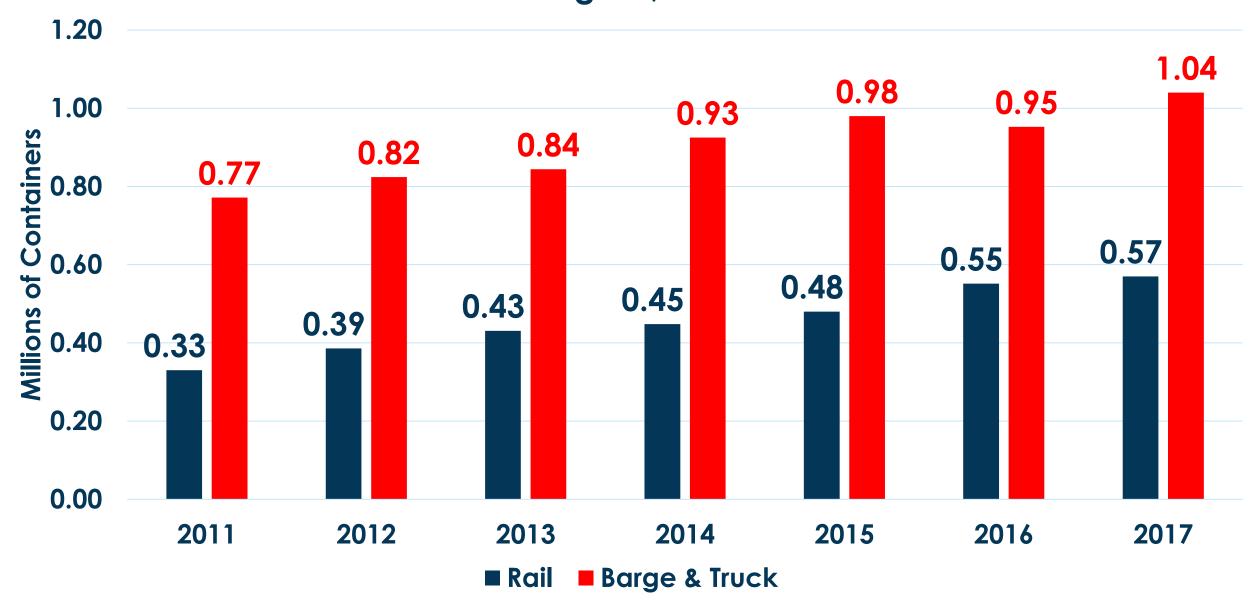
#### General Cargo Tonnage Port of Virginia, 2000-2017



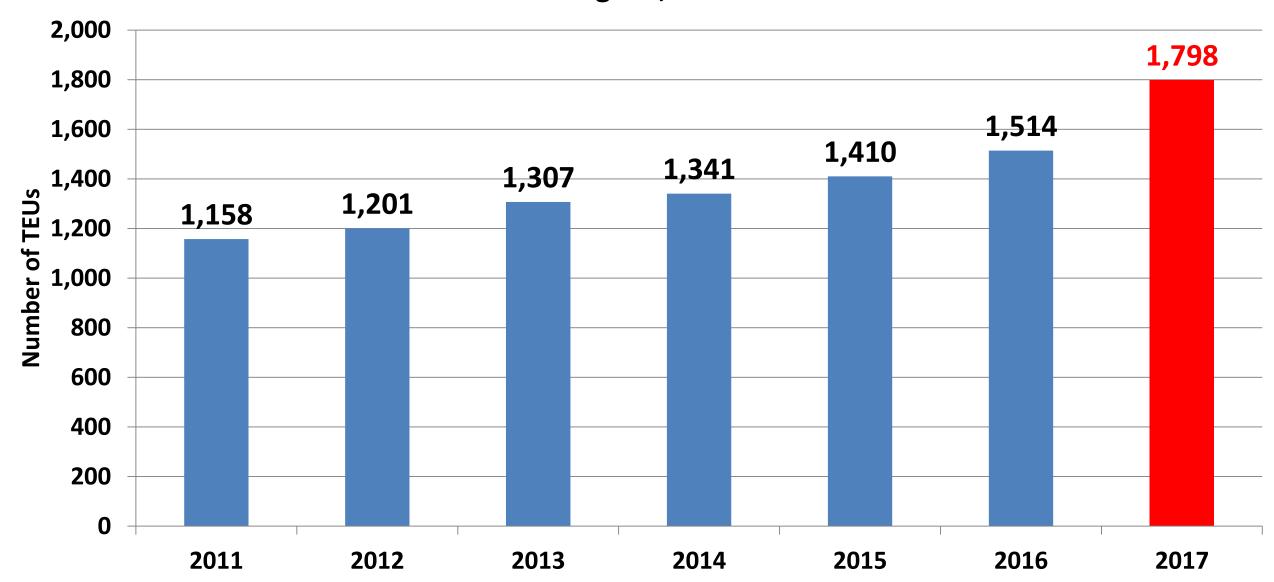
# Twenty Foot Equivalent Container Units (TEUs) Port of Virginia, 2000-2017



# Movement of Containers by Type of Transportation Port of Virginia, 2011-2017



### Average TEUs per Container Vessel Call Port of Virginia, 2011-2017



	2017 Forecast	2017 Actual	2018 Forecast
Hampton Roads Real Gross Domestic Product Initial Forecast	1.4%		
Hampton Roads Real Gross Domestic Product Mid-year revision	0.8%		1.2%
Civilian Job Growth	0.5%	-0.3%	0.5%
Unemployment Rate	4.3%	4.3%	3.9%
Taxable Sales	2.6%	3.0%	3.0%
Hotel Revenue	4.4%	4.8%	3.9%
General Cargo Tonnage	2.7%	5.3%	2.8%
One Unit Housing Permit Value	2.6%	8.5%	2.4%

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Select Area:

Virginia Beach-Norfolk-Newport News

**REAL GDP** 

2016

\$81.36 bil



-1.09% from 2015

**UNEMPLOYMENT RATE** 

November 2017

4.1%



-0.2% from November 2016

TOTAL NONFARM EMPLOYMENT 2017 Q4

766,900



-0.98% from 2016 Q4

SIZE OF THE LABOR FORCE

November 2017

823,003



-0.78% from November 2016

**AVERAGE WEEKLY WAGES** 

2017 Q2

\$886



6.49% from 2016 Q2

INITIAL UNEMPLOYMENT CLAIMS

December 2017

1,927



-29.54% from December 2016

**TAXABLE RETAIL SALES** 

2017 Q3

\$5.84 bil



2.90% from 2016 Q3

FHFA HOUSING PRICE INDEX

2017 Q3

**2.26%** 

from 2016 Q3

HOTEL REVENUE PER AVAILABLE ROOM (REVPAR)

YTD December 2017

\$62.64



4.91% from YTD December 2016

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- We put it the economy into context so that you can better understand the numbers.

#### **Questions?**

Presentation slides will be available at: www.ceapodu.com

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