To All The Economists I've Loved Before



By: Anirban Basu

Sage Policy Group, Inc.

On Behalf of

The 2019 Department of Energy Project Management
Workshop

April 24th, 2019



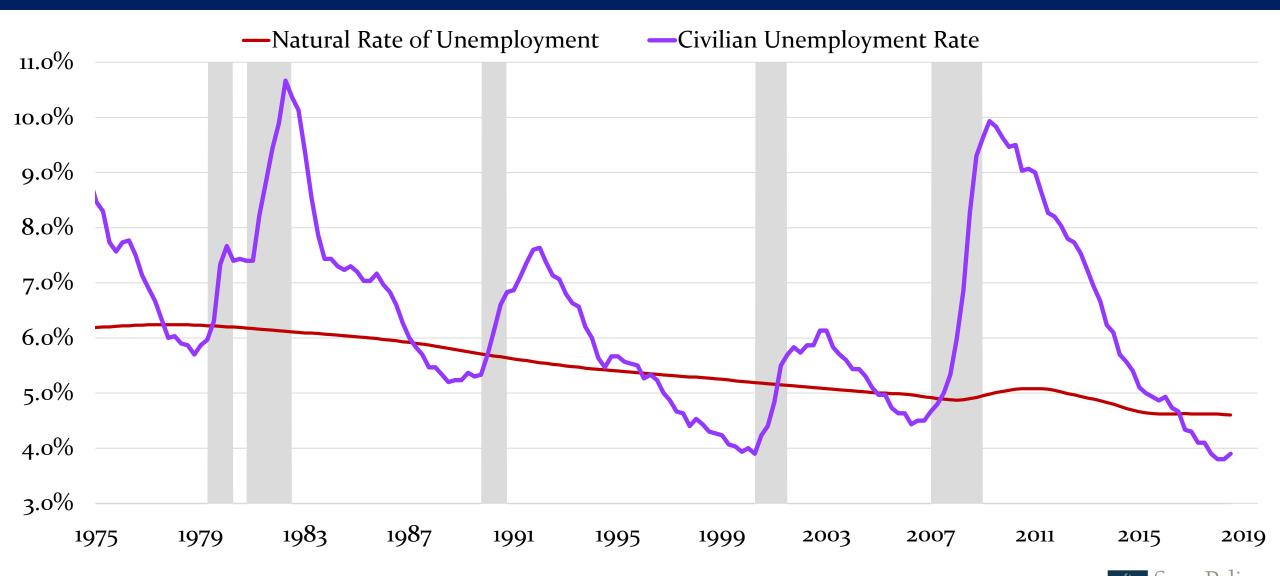
"There is always some chance of recession in any year. But the evidence suggests that expansions don't die of old age."

—Janet Yellen



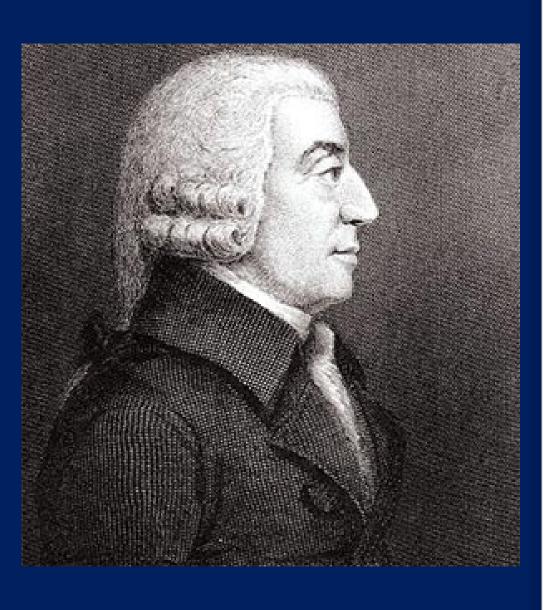


U.S. Unemployment & Natural Rate of Unemployment



Shaded areas indicate U.S. Recessions

Group, Inc.

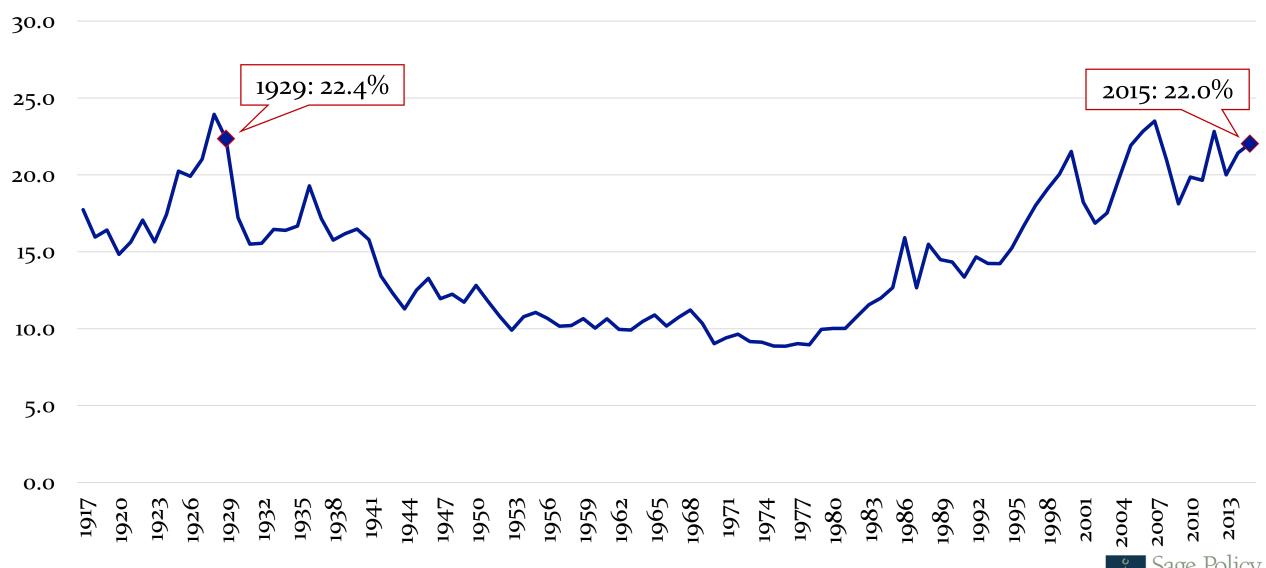


"No society can surely be flourishing and happy, of which the far greater part of the members are poor and miserable."

-Adam Smith

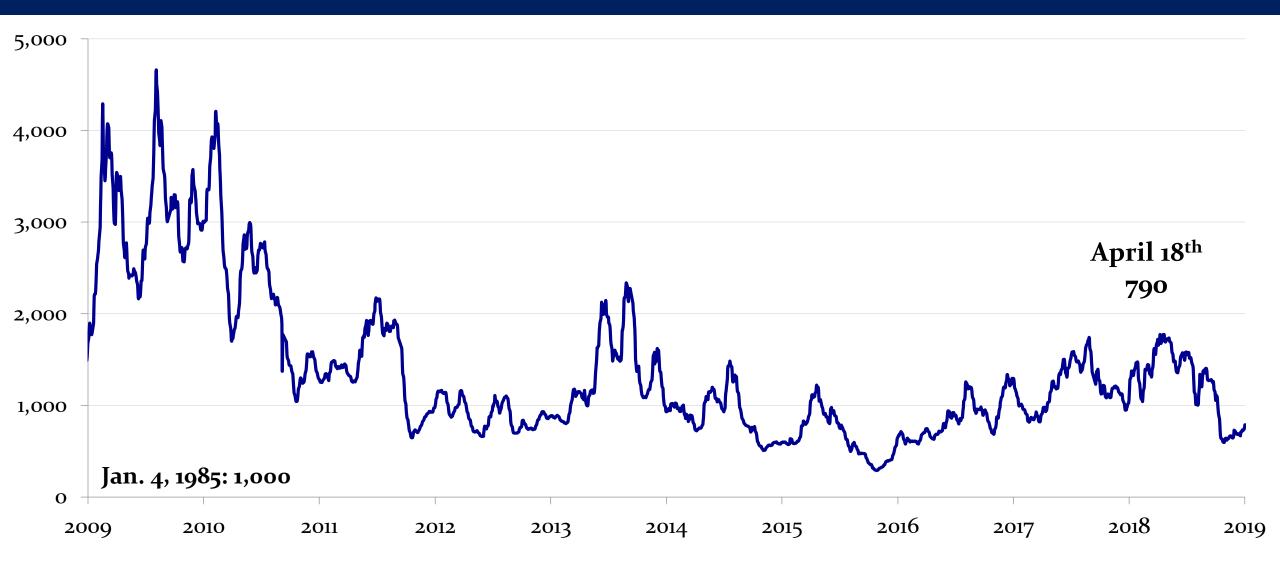


Share of all Income Held by the Top 1% in the U.S., 1917-2015



Baltic Dry Index

2009 through 2019

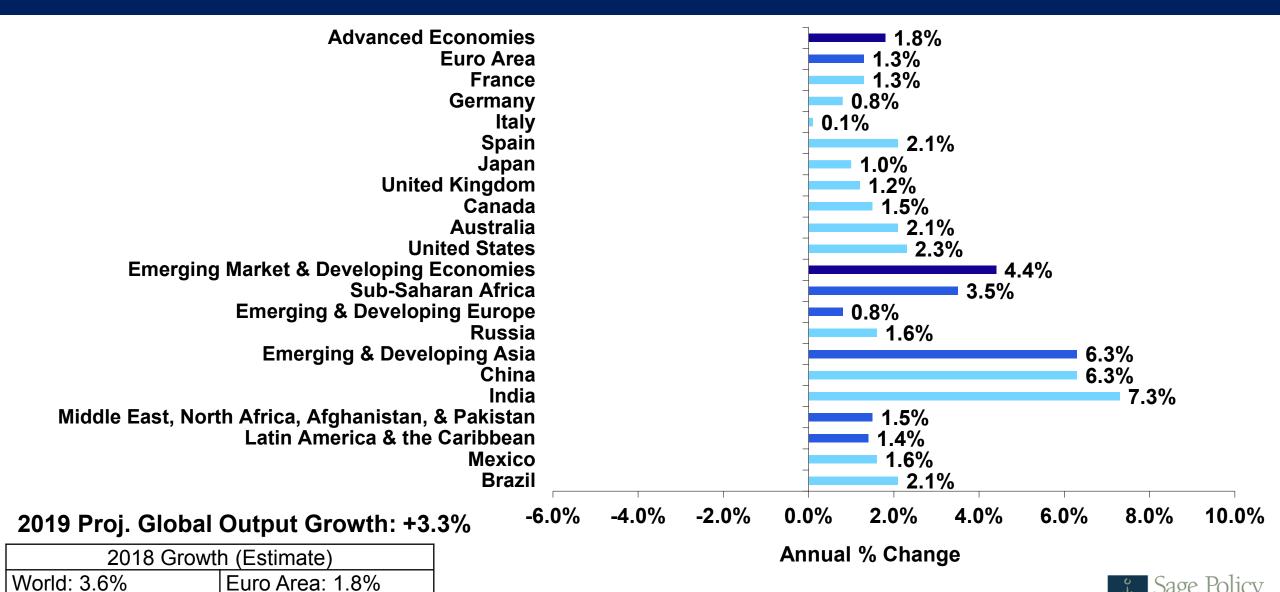


The Baltic Dry Index (BDI) is a measure of the price of shipping major raw materials such as metals, grains, and fossil fuels by sea. The BDI is a composite of 3 sub-indices, each covering a different carrier size: Capesize, Panamax, and Supramax.



Estimated Growth in Output by Select Global Areas

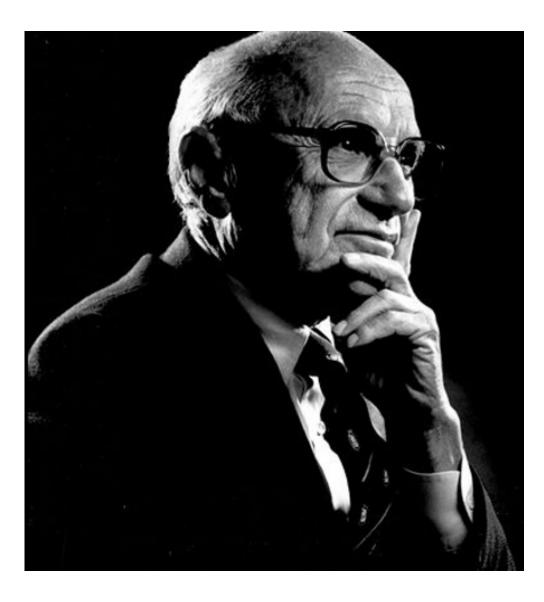
2019 Projected



Source: International Monetary Fund: World Economic Outlook, April 2019

Japan: 0.8%

United States: 2.9%



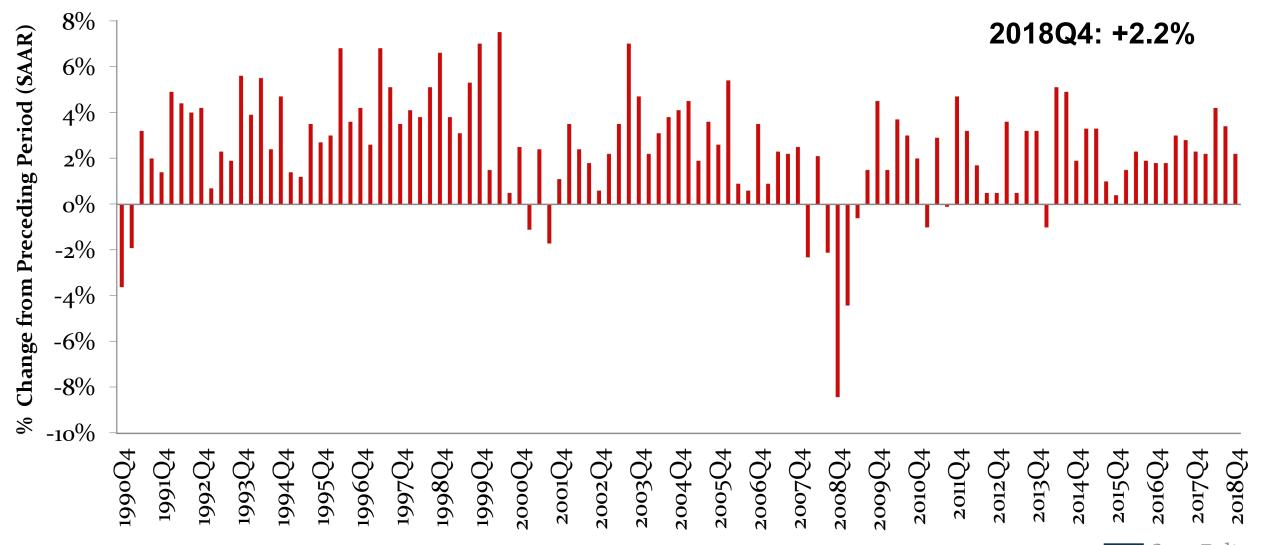
"Inflation is the one form of taxation that can be imposed without legislation."

-Milton Friedman



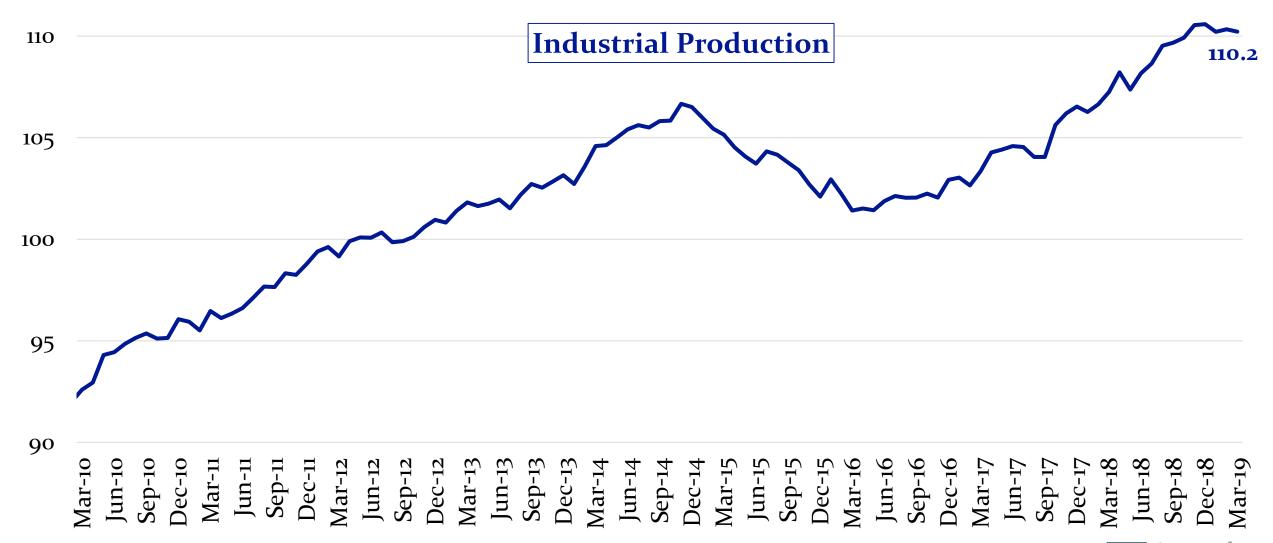
Gross Domestic Product

1990Q4 through 2018Q4*



U.S. Industrial Production Index

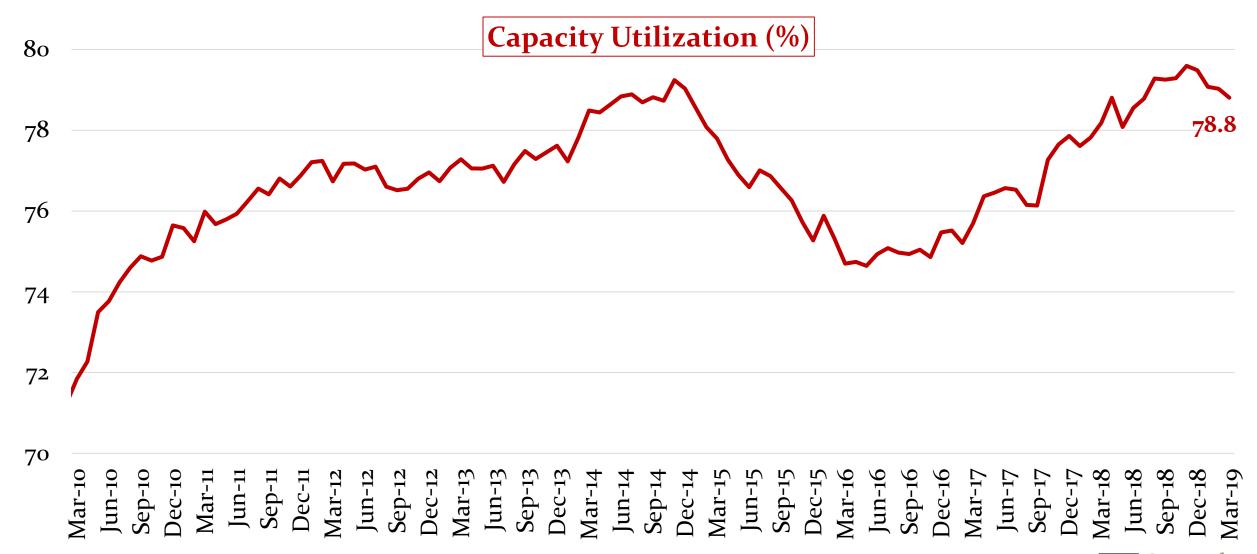
March 2010 – March 2019





U.S. Capacity Utilization Index

March 2010 – March 2019





U.S. Job Openings

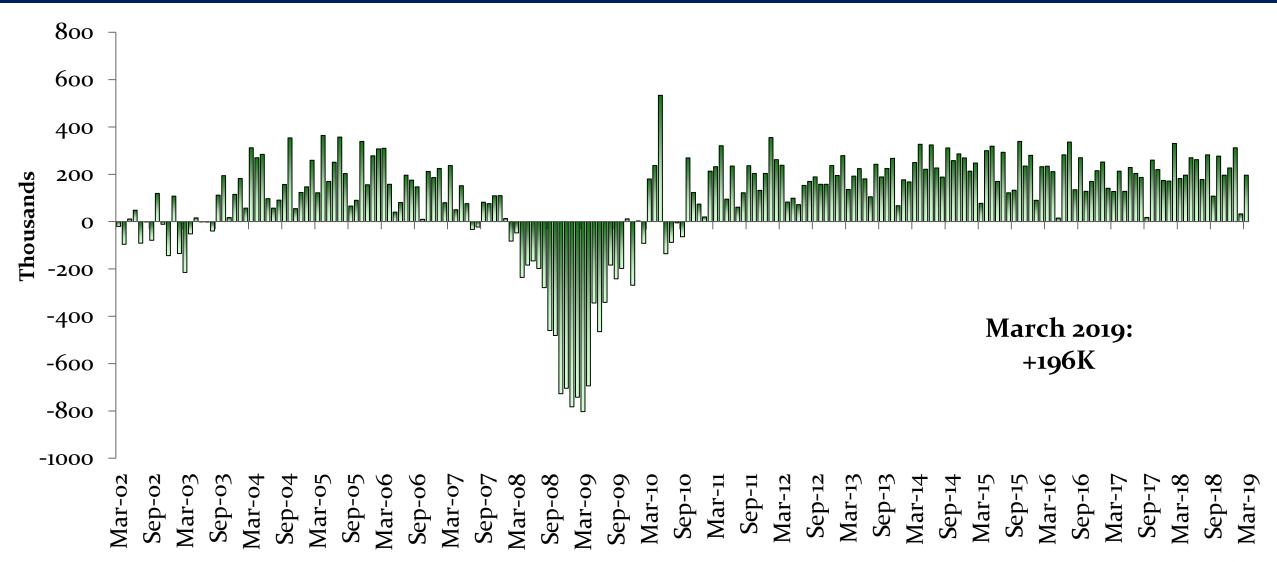
February 2001 through February 2019





Net Change in U.S. Jobs

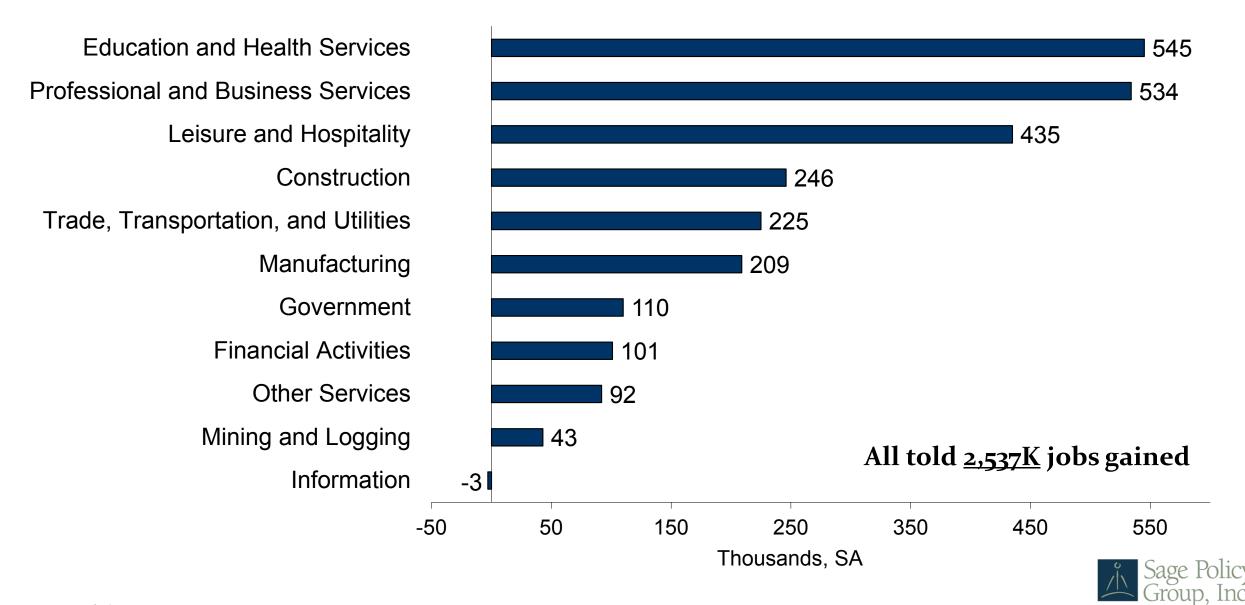
March 2002 through March 2019





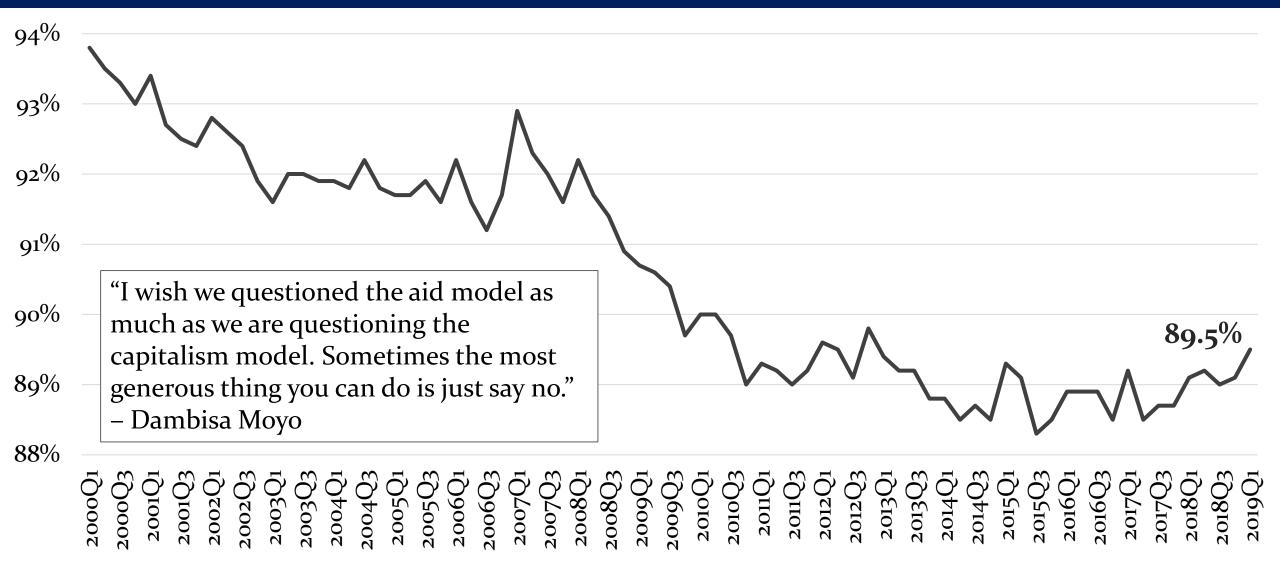
National Nonfarm Employment

by Industry Sector, March 2018 v. March 2019



U.S. Labor Force Participation: Men Ages 25-34

2000 - 2019





Employment Growth, U.S. States (SA)

March 2018 v. March 2019 Percent Change

RANK	STATE	%	RANK	STATE	%	RANK	STATE	%
1	NEVADA	3.4	16	SOUTH CAROLINA	1.4	35	MARYLAND	0.6
2	UTAH	3.0	19	INDIANA	1.3	35	MICHIGAN	0.6
3	IDAHO	2.7	20	NEW MEXICO	1.2	37	DISTRICT OF COLUMBIA	0.5
3	WEST VIRGINIA	2.7	21	NEW HAMPSHIRE	1.1	37	MAINE	0.5
5	FLORIDA	2.4	21	NEW JERSEY	1.1	37	OKLAHOMA	0.5
5	WASHINGTON	2.4	21	NEW YORK	1.1	40	CONNECTICUT	0.4
7	ARIZONA	2.3	24	DELAWARE	1.0	40	KANSAS	0.4
8	TEXAS	2.2	25	ALASKA	0.9	40	MISSOURI	0.4
9	SOUTH DAKOTA	2.0	25	ARKANSAS	0.9	43	MINNESOTA	0.3
10	GEORGIA	1.9	25	KENTUCKY	0.9	43	VERMONT	0.3
11	COLORADO	1.7	25	MONTANA	0.9	43	WISCONSIN	0.3
11	OREGON	1.7	25	VIRGINIA	0.9	46	HAWAII	0.2
11	WYOMING	1.7	30	ILLINOIS	0.8	46	IOWA	0.2
14	ALABAMA	1.6	30	MASSACHUSETTS	8.0	46	NORTH DAKOTA	0.2
14	TENNESSEE	1.6	30	PENNSYLVANIA	8.0	49	LOUISIANA	0.0
16	CALIFORNIA	1.4	33	MISSISSIPPI	0.7	49	NEBRASKA	0.0
16	NORTH CAROLINA	1.4	33	OHIO	0.7	51	RHODE ISLAND	-0.2



Employment Growth, 25 Largest Metros (NSA)

March 2018 v. March 2019 Percent Change

Rank	MSA	%	Rank	MSA	%
1	Orlando-Kissimmee-Sanford, FL		14	Riverside-San Bernardino-Ontario, CA	1.4
2	Dallas-Fort Worth-Arlington, TX		14	San Diego-Carlsbad, CA	1.4
3	Phoenix-Mesa-Scottsdale, AZ		16	Baltimore-Columbia-Towson, MD	1.3
4	San Francisco-Oakland-Hayward, CA		16	New York-Newark-Jersey City, NY-NJ-PA	1.3
4	Seattle-Tacoma-Bellevue, WA	2.6	וו וח	Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	1.3
6	Charlotte-Concord-Gastonia, NC-SC		19	Chicago-Naperville-Elgin, IL-IN-WI	0.9
7	Atlanta-Sandy Springs-Roswell, GA	2.2	19	St. Louis, MO-IL	0.9
7	Houston-The Woodlands-Sugar Land, TX		10	Washington-Arlington-Alexandria,	
7	Tampa-St. Petersburg-Clearwater, FL	2.2	11 19	DC-VA-MD-WV	0.9
10	Miami-Fort Lauderdale-West Palm Beach, FL	2.1	22	Los Angeles-Long Beach-Anaheim, CA	0.8
10	San Antonio-New Braunfels, TX	2.1	23	Detroit-Warren-Dearborn, MI	0.6
12	Portland-Vancouver-Hillsboro, OR-WA	1.8	24	Boston-Cambridge-Nashua, MA-NH	0.5
13	Denver-Aurora-Lakewood, CO	1.6	25	Minneapolis-St. Paul-Bloomington, MN-WI	0.0



Unemployment Rates, 25 Largest Metros (NSA)

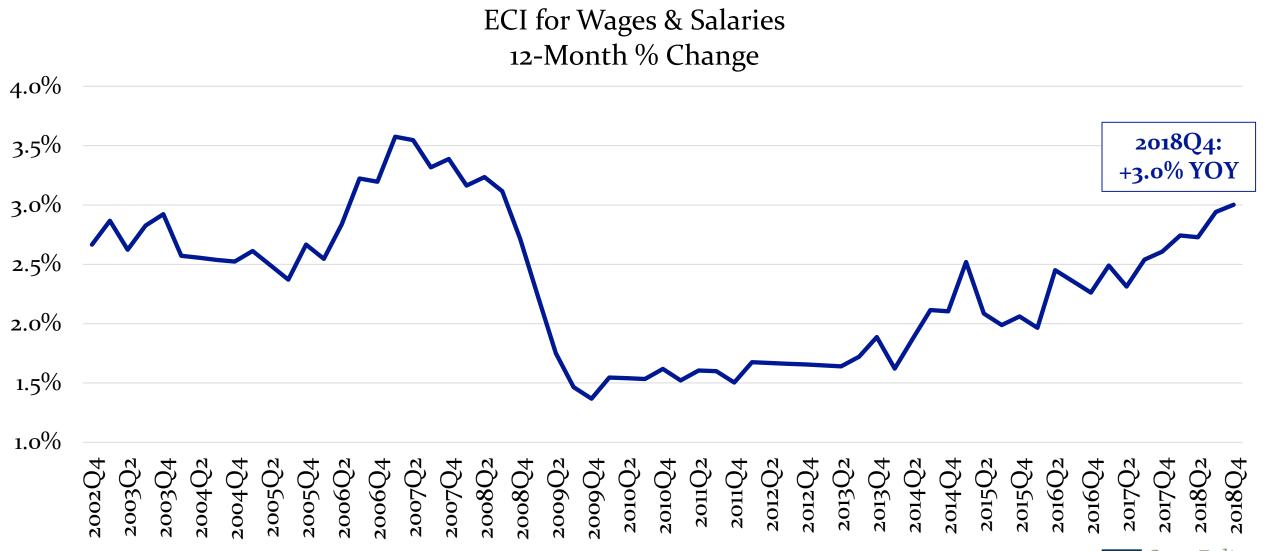
February 2019

Rank	MSA	UR	Rank	MSA	UR
1	Boston-Cambridge-Nashua, MA-NH	2.8	12	Charlotte-Concord-Gastonia, NC-SC	3.8
1	San Francisco-Oakland-Hayward, CA	2.8	12	St. Louis, MO-IL (1)	3.8
3	Orlando-Kissimmee-Sanford, FL	3.2	15	Los Angeles-Long Beach-Anaheim, CA	3.9
4	Denver-Aurora-Lakewood, CO	3.3	16	Detroit-Warren-Dearborn, MI	4.0
4	Miami-Fort Lauderdale-West Palm Beach, FL	3.3	1 1 1 7	Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	4.0
6	Minneapolis-St. Paul-Bloomington, MN-WI	3.4	18	Baltimore-Columbia-Towson, MD	4.1
6	San Antonio-New Braunfels, TX	3.4	18	Portland-Vancouver-Hillsboro, OR-WA	4.1
6	Tampa-St. Petersburg-Clearwater, FL	3.4	18	Seattle-Tacoma-Bellevue, WA	4.1
9	San Diego-Carlsbad, CA	3.5	21	Houston-The Woodlands-Sugar Land, TX	4.2
	Washington-Arlington-Alexandria, DC-VA-MD-WV		21	Phoenix-Mesa-Scottsdale, AZ	4.2
			23	Chicago-Naperville-Elgin, IL-IN-WI	4.3
11	Dallas-Fort Worth-Arlington, TX	3.6	23	New York-Newark-Jersey City, NY-NJ-PA	4.3
12	Atlanta-Sandy Springs-Roswell, GA	3.8	23	Riverside-San Bernardino-Ontario, CA	4.3



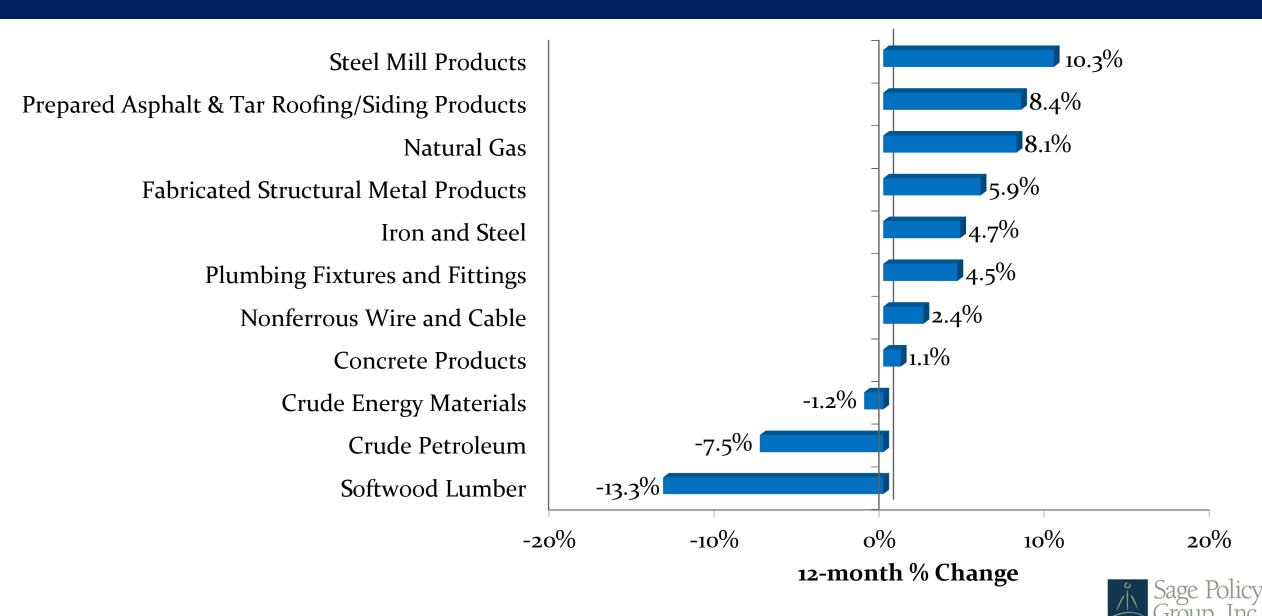
Growth in Wages & Salaries

Employment Cost Index (ECI), 2002Q4-2018Q4



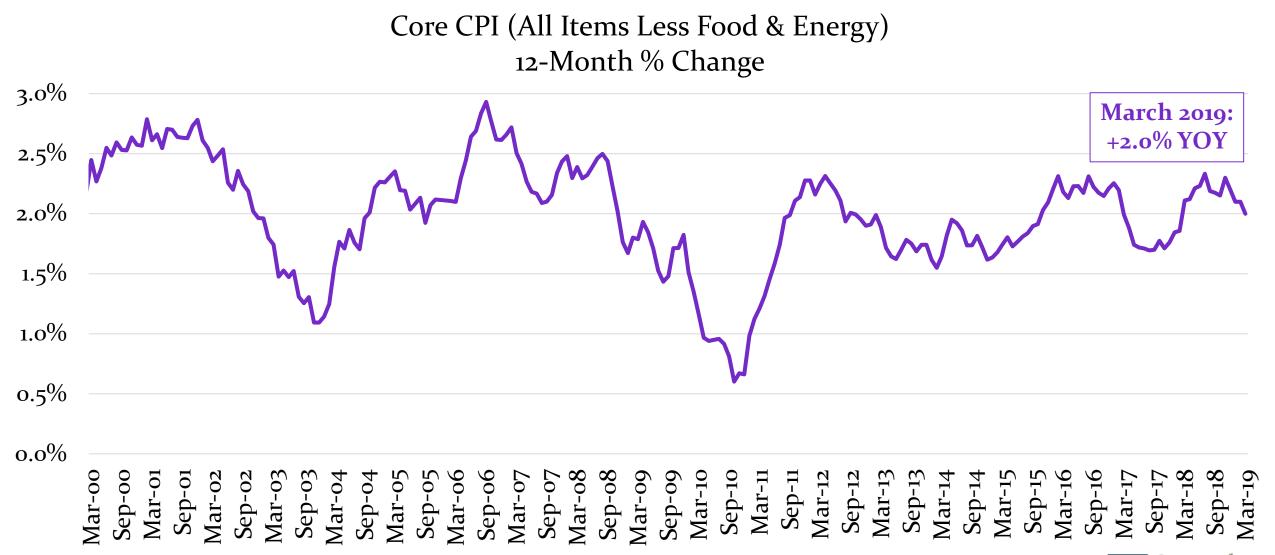
Construction Materials PPI (NSA)

12-month % Change as of March 2019



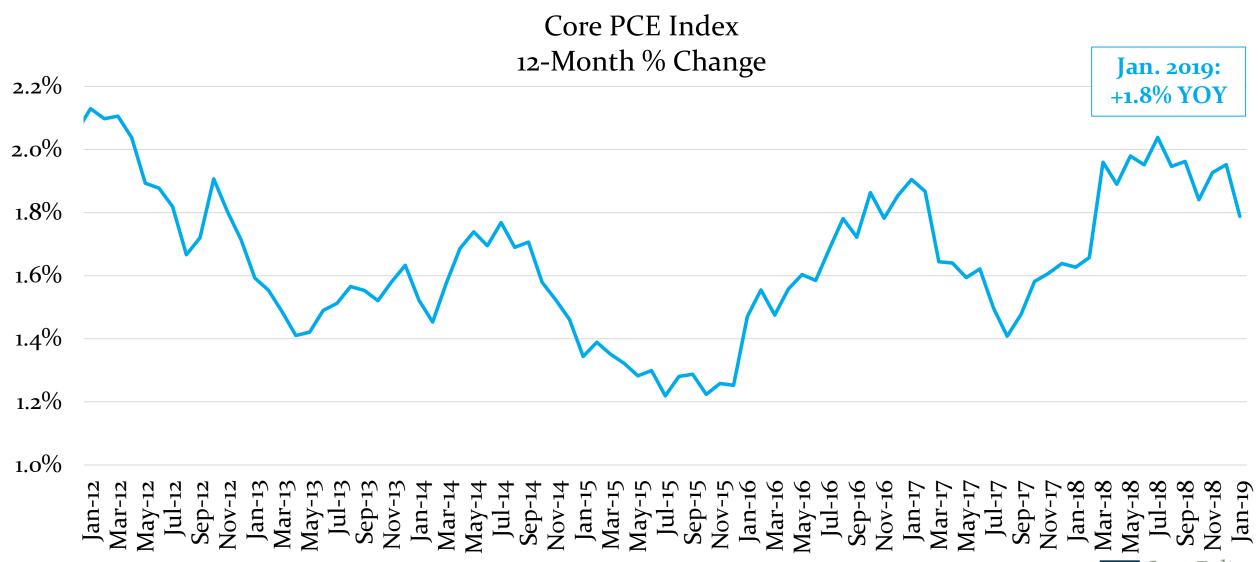
Consumer Price Index: All Items Less Food & Energy

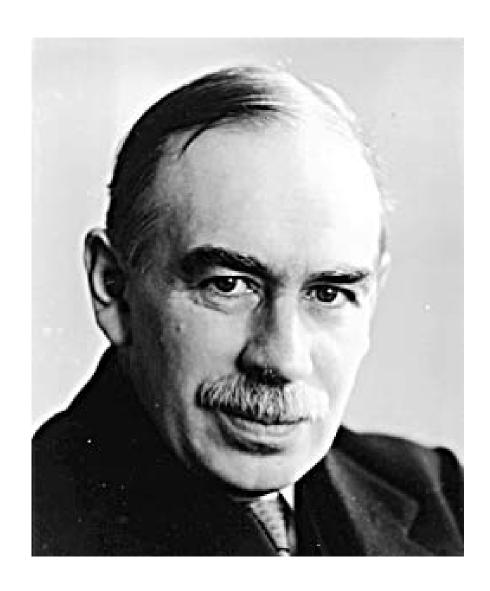
March 2000 – March 2019



Core PCE Deflator

January 2012 through January 2019





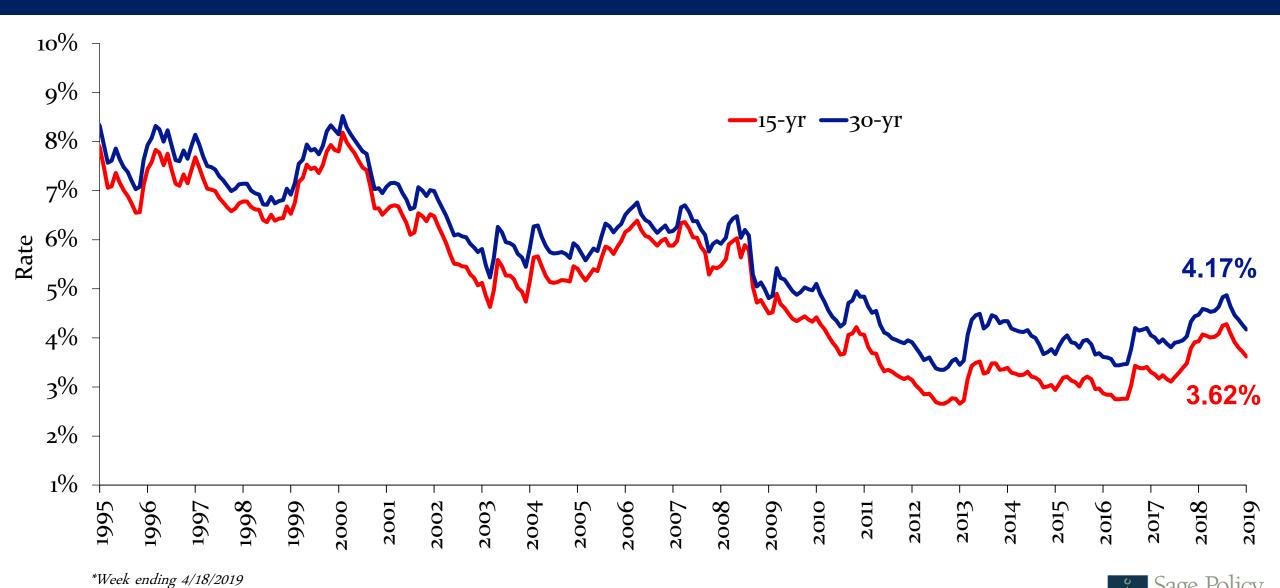
"Most men love money and security more, and creation and construction less, as they get older."

-John Maynard Keynes



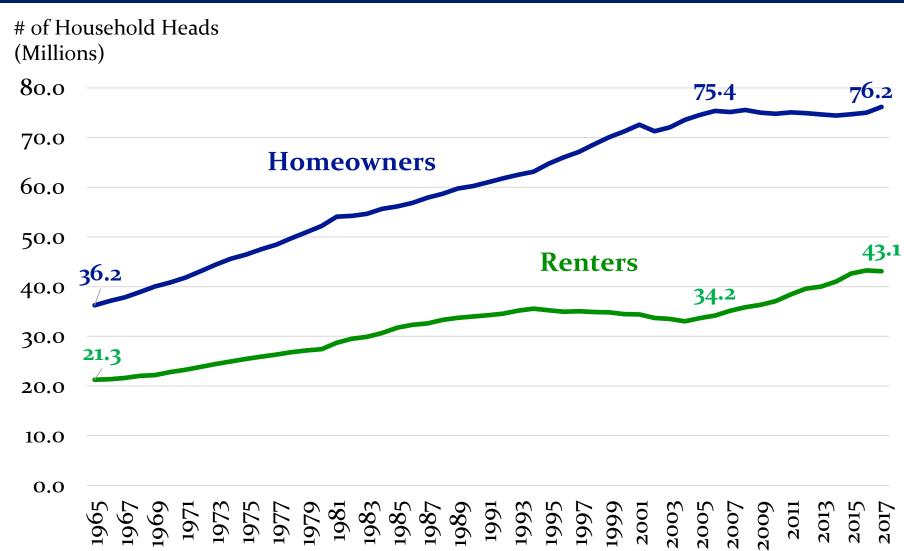
15-Year & 30-Year Fixed Mortgage Rates

April 1995 through April 2019*



U.S. Households: Owner v. Renter Occupied, 1965-2017

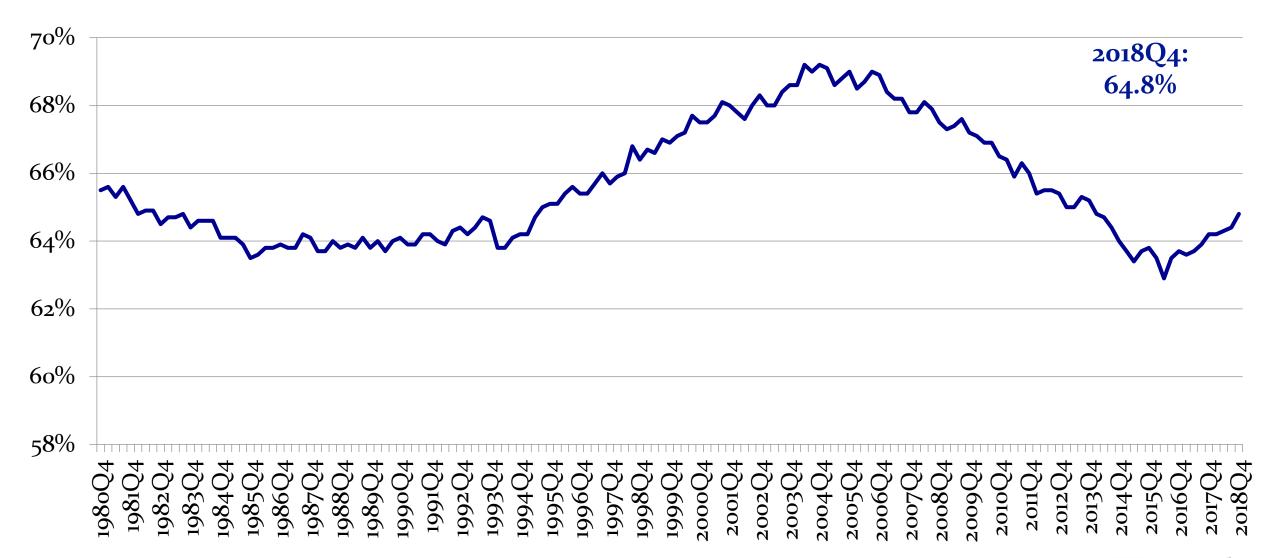
- From 2006-2017 the number of households headed by owners remained relatively flat.
- At the same time, the number of households renting their home increased significantly (+26%).
- The share of renter households also increased—from 31.2% of households in 2006 to 36.1% in 2017.





U.S. Homeownership (NSA)

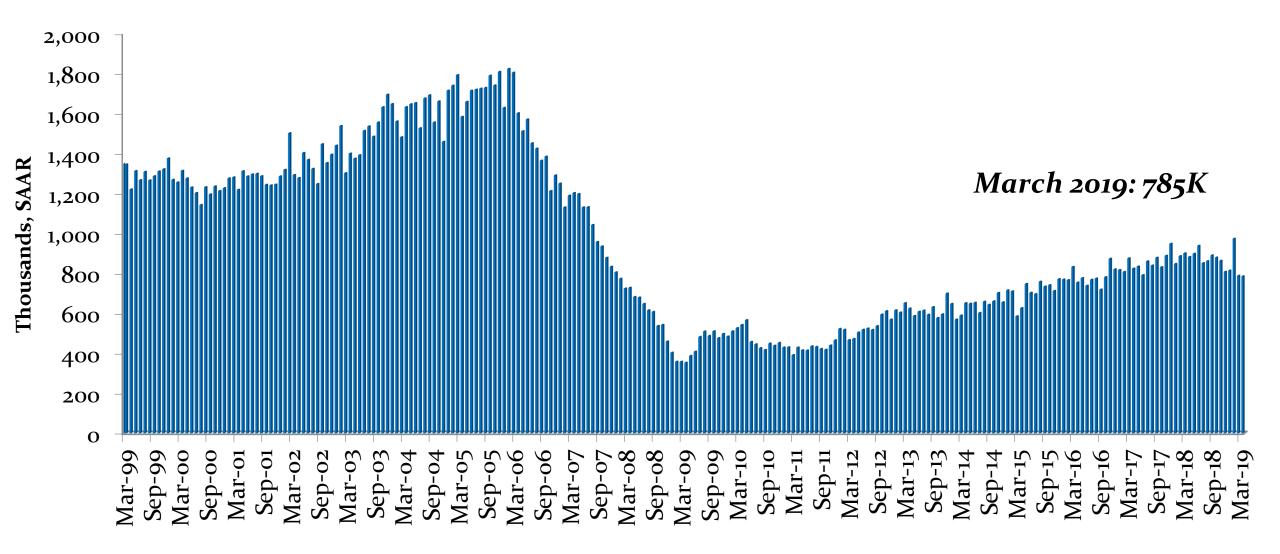
1980Q4-2018Q4





U.S. Single-Family Housing Starts

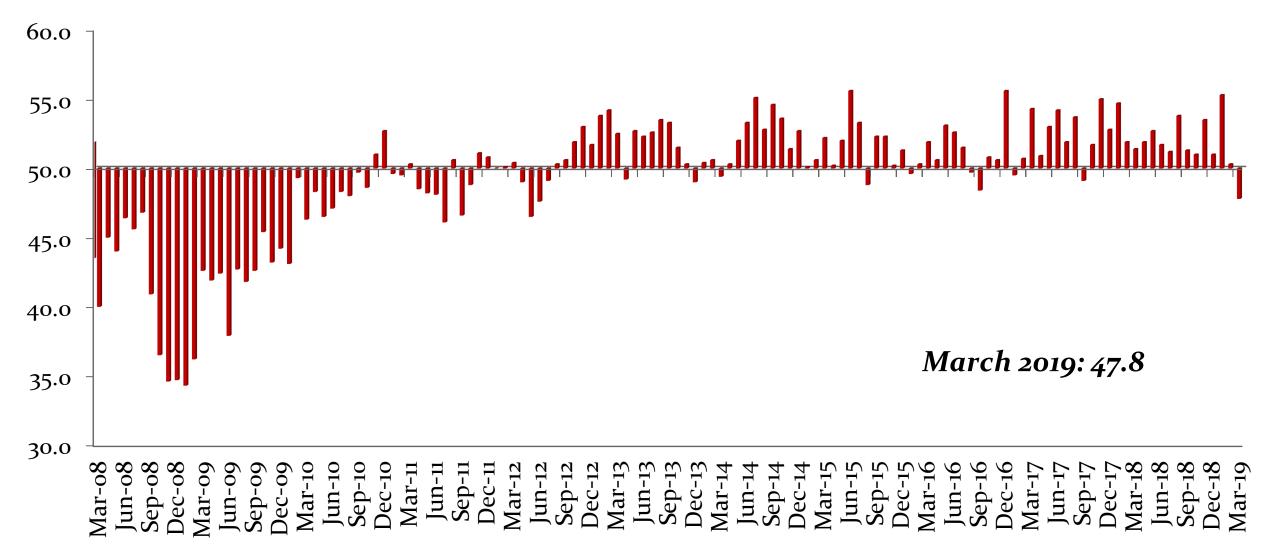
March 1999 through March 2019





Architecture Billings Index

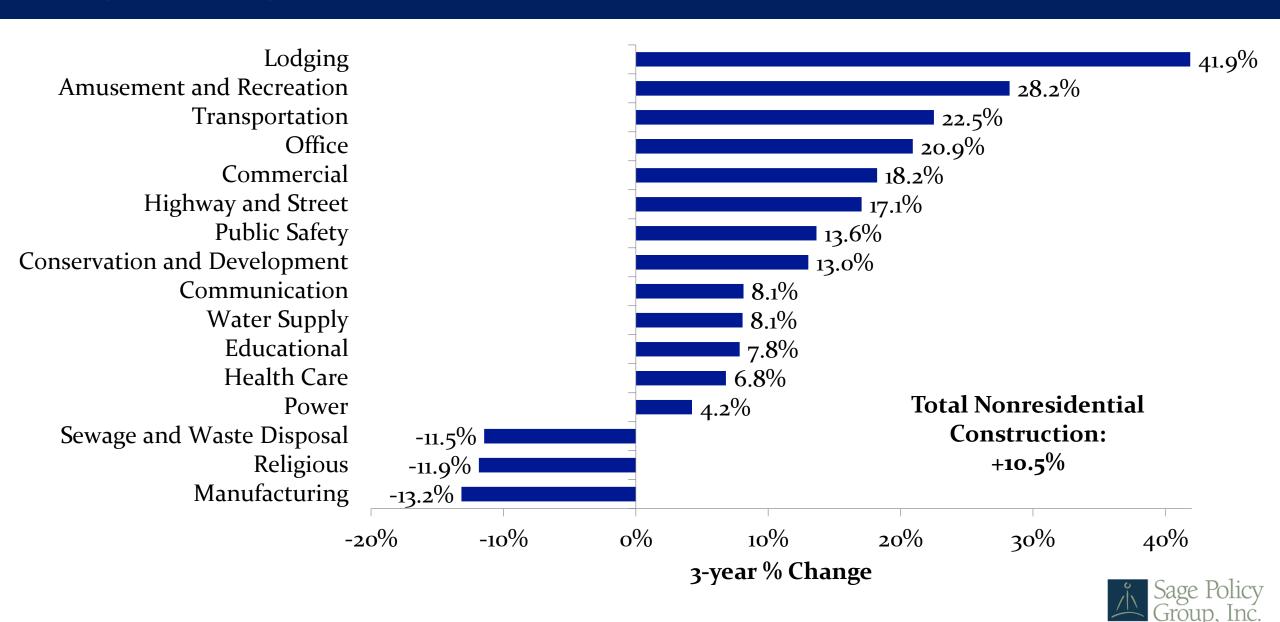
March 2008 through March 2019





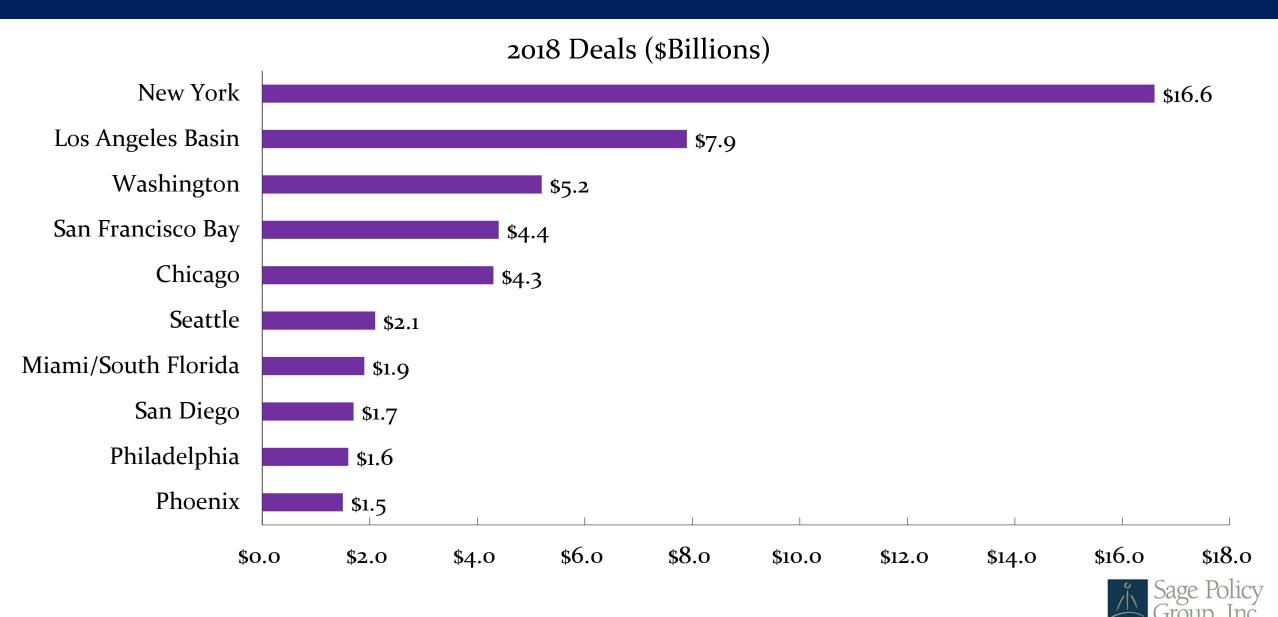
National Nonresidential Construction Spending by Subsector

February 2016 v. February 2019



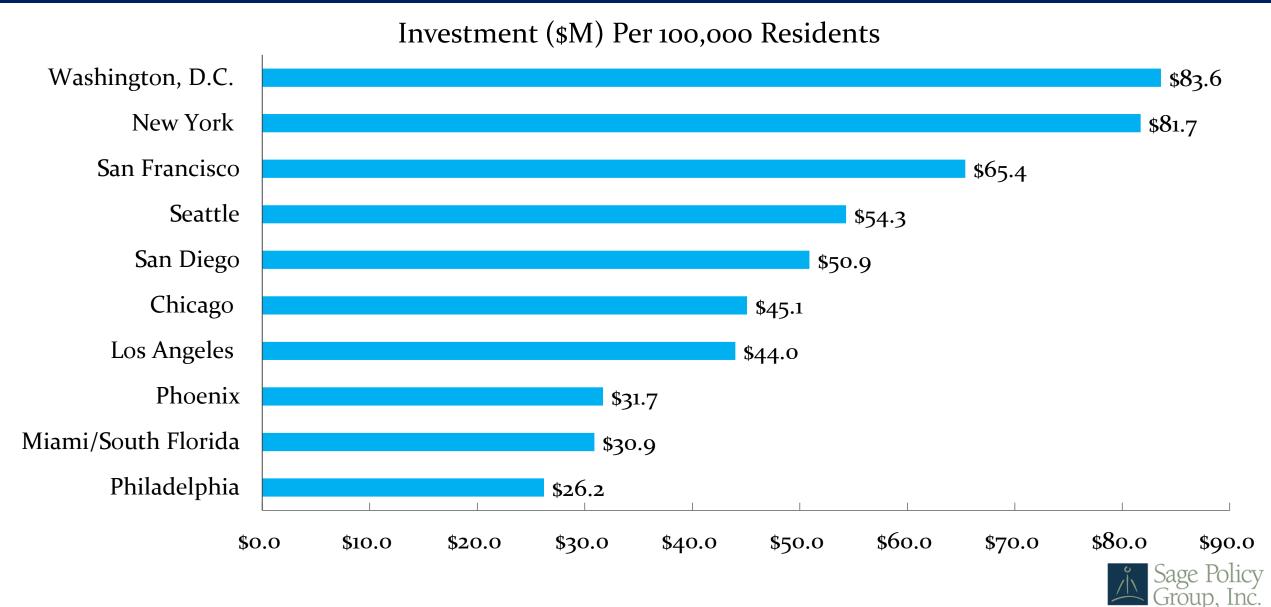
Foreign Investment in U.S. Commercial Real Estate

Top Destination Markets, 2018



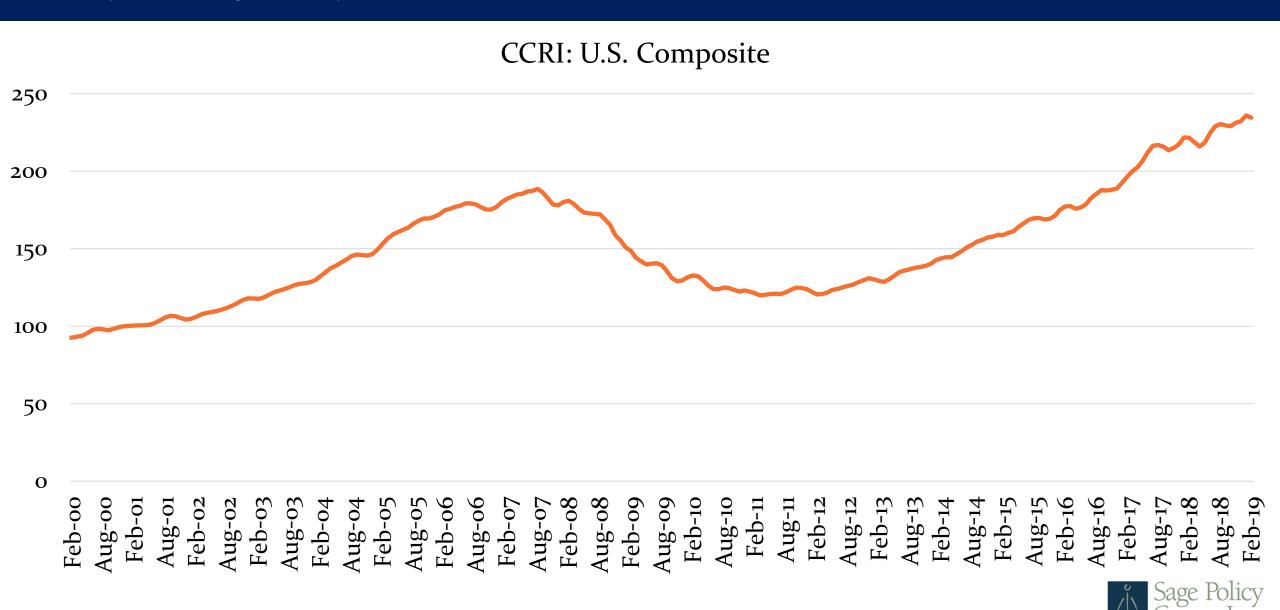
Foreign Investment in U.S. Commercial Real Estate Per 100,000 Residents

Top Destination Markets, 2018



CoStar Commercial Repeat Sales Index

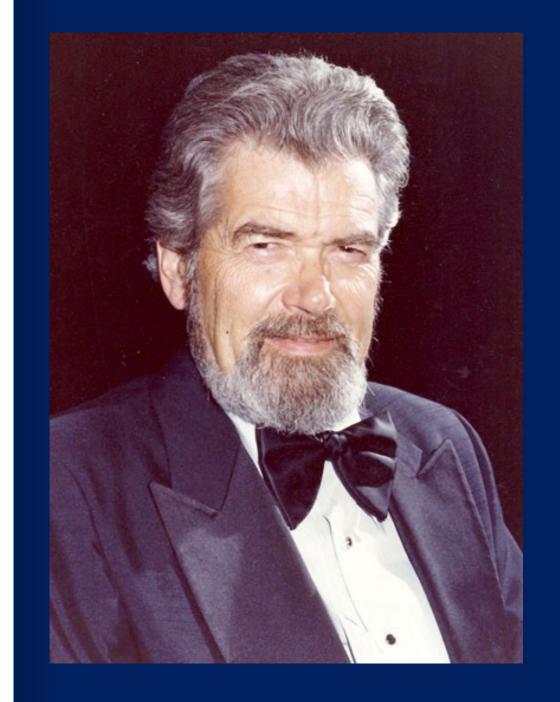
February 2000 through February 2019



^{*}Based on 898 repeat sale pairs in the month of February 2019 and more than 206,000 repeat sales since 1996.

"An economist is an expert who will know tomorrow why the things he predicted yesterday didn't happen today."

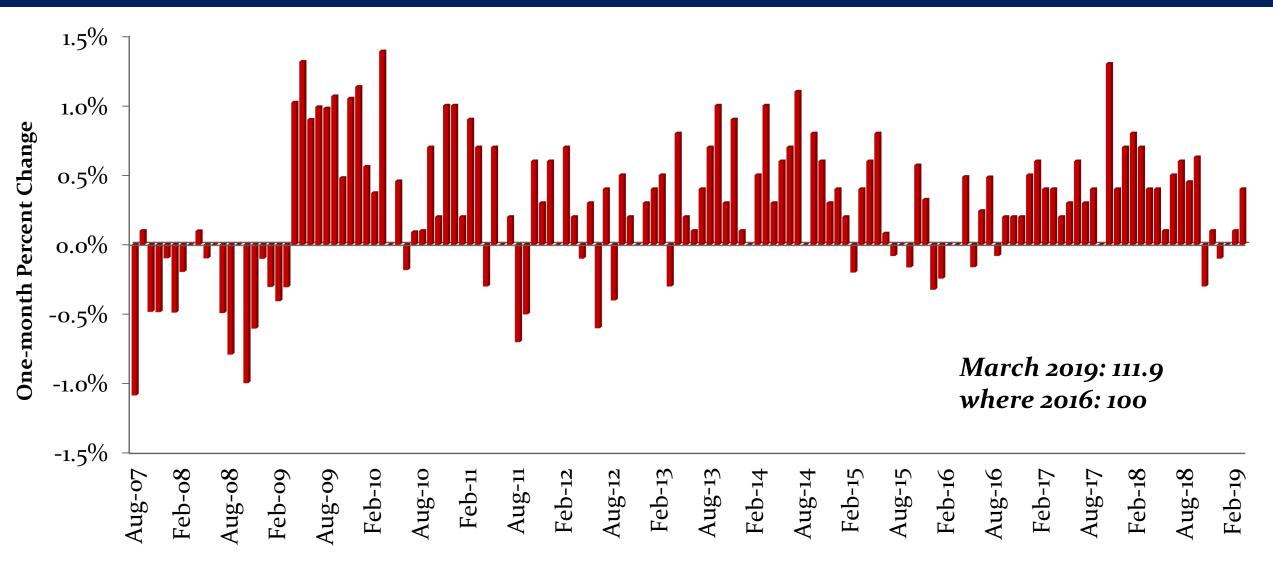
—Laurence J. Peter





Conference Board Leading Economic Indicators Index

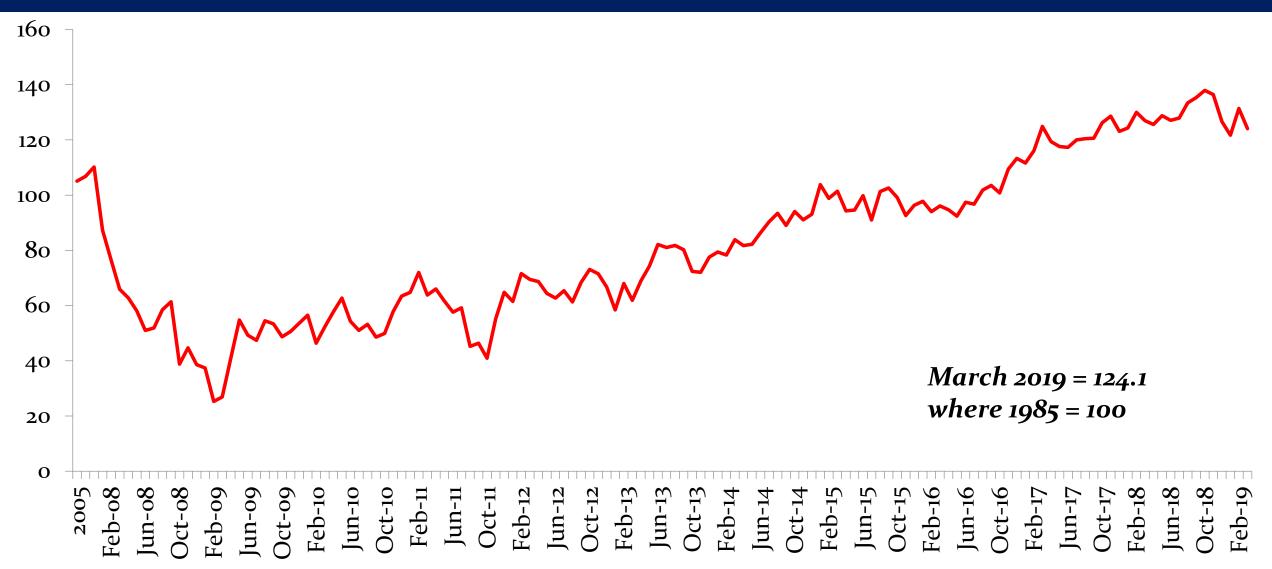
August 2007 through March 2019





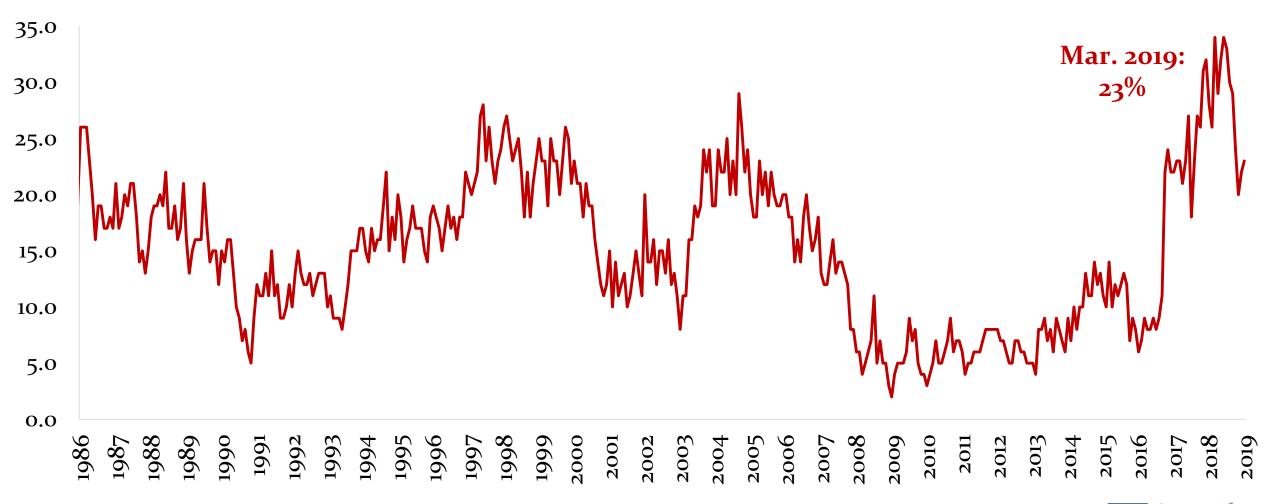
Conference Board Consumer Confidence Index

2005 – March 2019





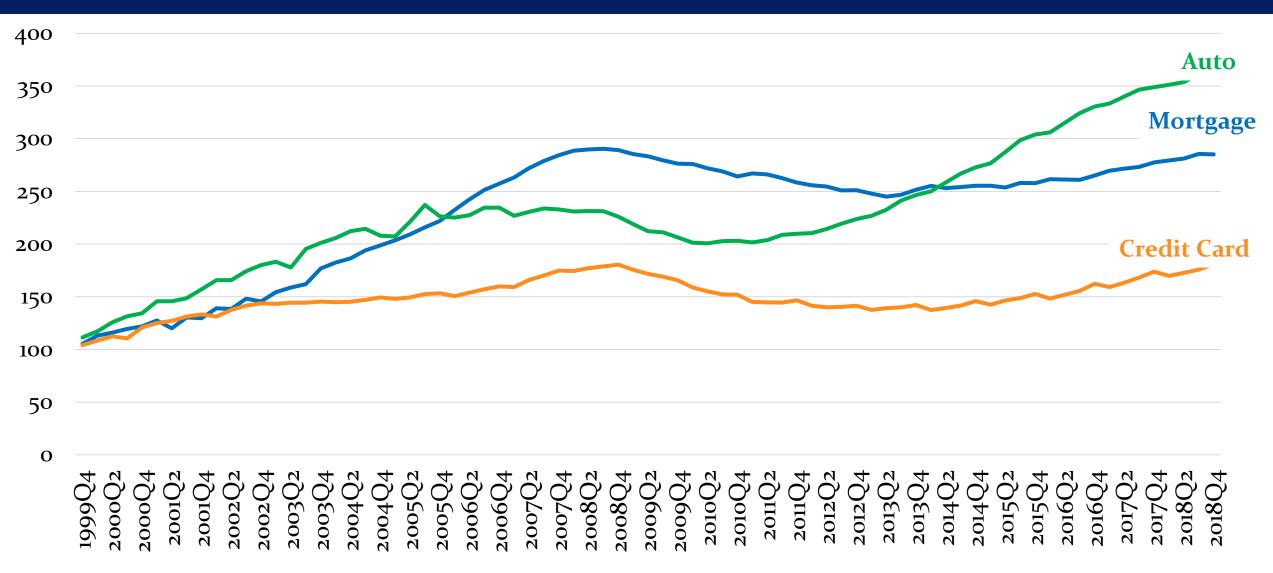
% of respondents who think the next 3 months will be a good time to for small business to expand





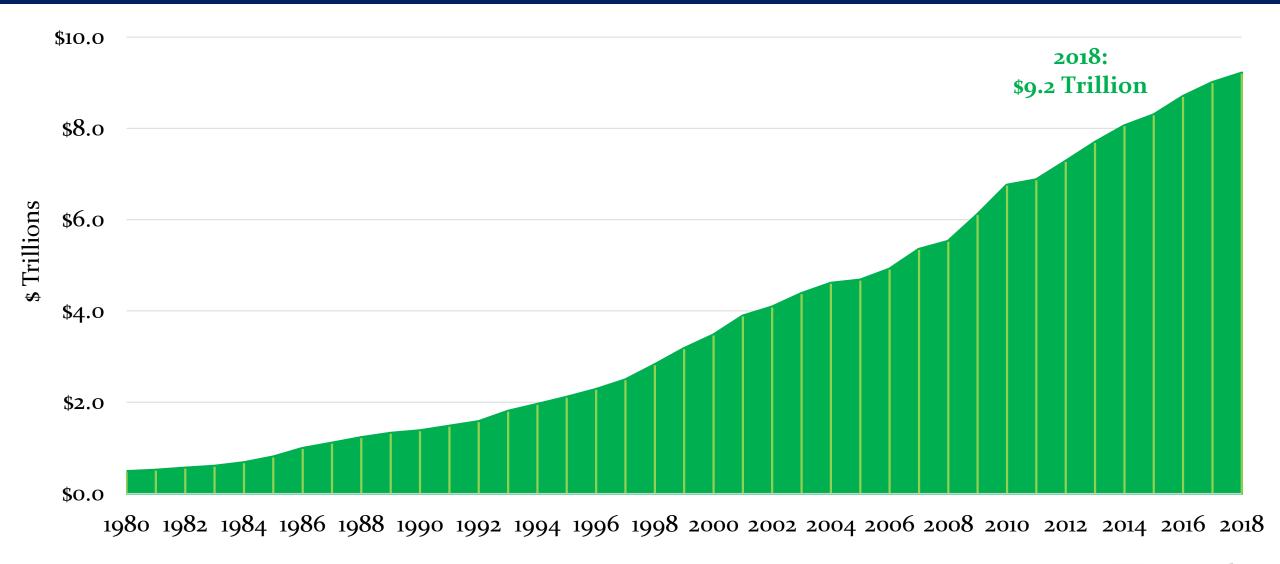
Total U.S. Debt Volume by Select Loan Types

Index 1999Q1=100





U.S. Corporate Bond Debt Outstanding, 1980-2018





Global Debt Reaches All Time Highs (IIF)

- According to the International Institute of Finance (IIF), global debt reached an record high of \$248 trillion in 2018Q1;
- At \$243.2 trillion as of 2018Q4, global debt—including household, government, and corporate—now represents 317% of global GDP;
- In 2016 the IMF warned of risks to the global economy:
 - "sheer size of debt could set the stage for an unprecedented private deleveraging process that could thwart the fragile economic recovery"



Economists do it with Models

- Much of the negativity reflected in forecasts and in financial market volatility relates to things people believe will happen;
- But important parts of the U.S. economy continue to perform well – e.g. consumer, corporate earnings, construction.

- What's more, there is significant upside risk. What if the following happens?
 - ☐ Trade deal with China;
 - ☐ Infrastructure spending plan with revenue sources identified;
 - ☐ Elimination of tariffs on steel, aluminum, etc. &
 - ☐ Fed stops tightening!!!!
 - Hypothesis 2019 will be decent year for economy, especially the first half.



Thank You

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