

First American

Automation Angst The Information Revolution, Millennials, and the Housing Market



November, 2016

First American Financial Corporation makes no express or implied warranty respecting the information presented and assumes no responsibility for errors or omissions. First American Financial Corporation is a parent holding company that does business through its operating subsidiaries. First American and the eagle logo are registered trademarks or trademarks of First American Financial Corporation and/or its affiliates.

The following presentation is for informational purposes only and is not and may not be construed as legal advice. First American Financial Corporation is not a law firm and does not offer legal services of any kind. No third party entity may rely upon anything contained herein when making legal and/or other determinations regarding title practices. You should consult with an attorney prior to embarking upon any specific course of action.



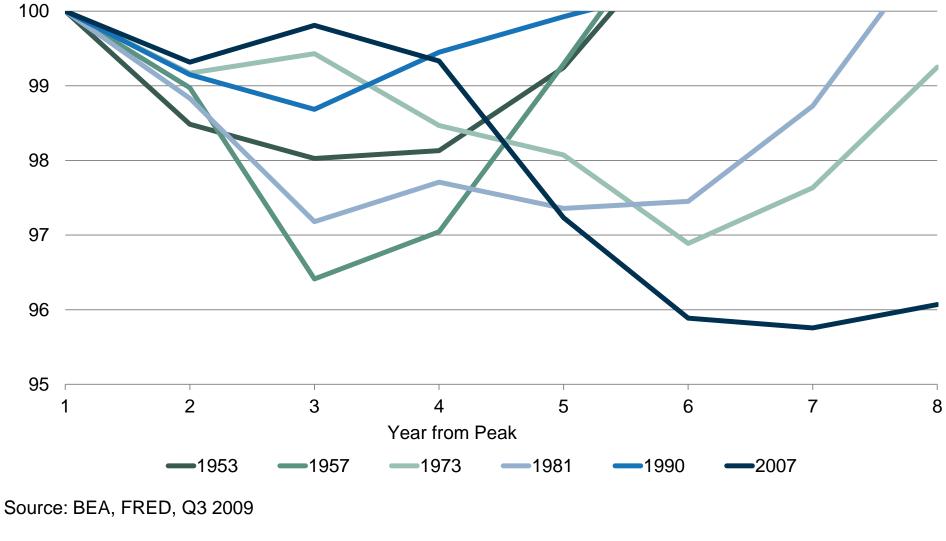
Handloom Weavers and Saddle Makers

The Relative Importance of Factors of Production

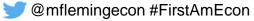


Underperforming Potential- GDP Depth and Duration

Real Quarterly GDP (SA, %, Recession Peak = 100)

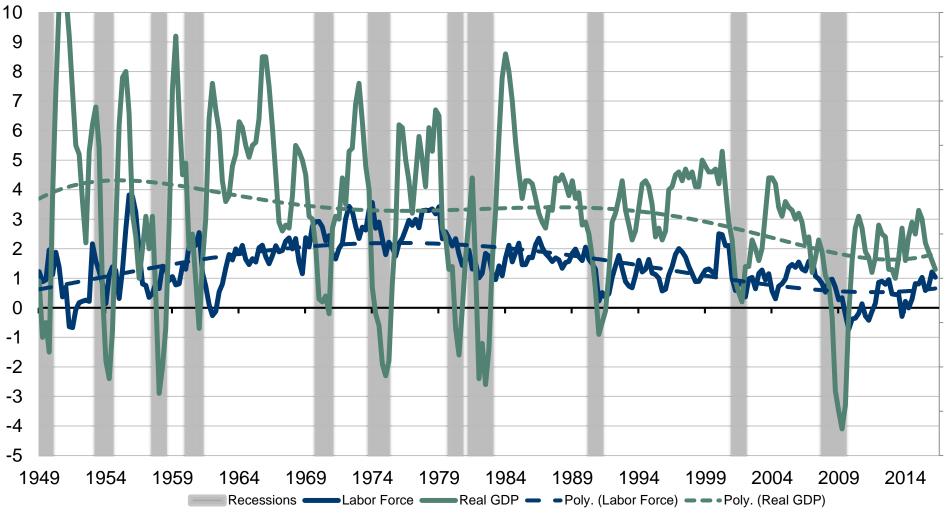


First American

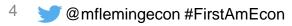


People Power Drives Economic Growth

Percent Change from a Year Ago (SA)



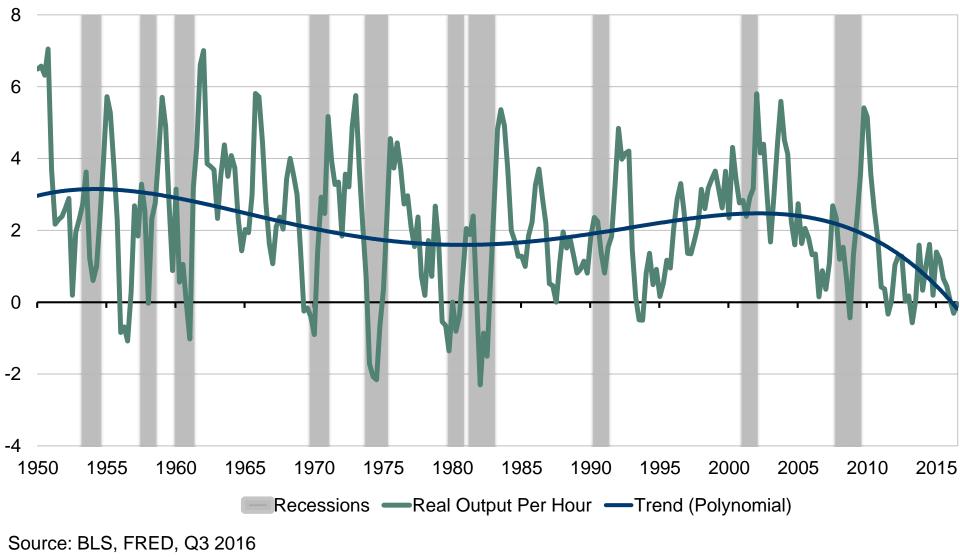
Source: U.S. BEA, BLS, FRED, Q3 2016



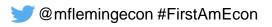


Making More With Less? Productivity Gains Almost Gone

Non-Farm Real Output Per Hour of All Persons (Percent Change YOY, SA)

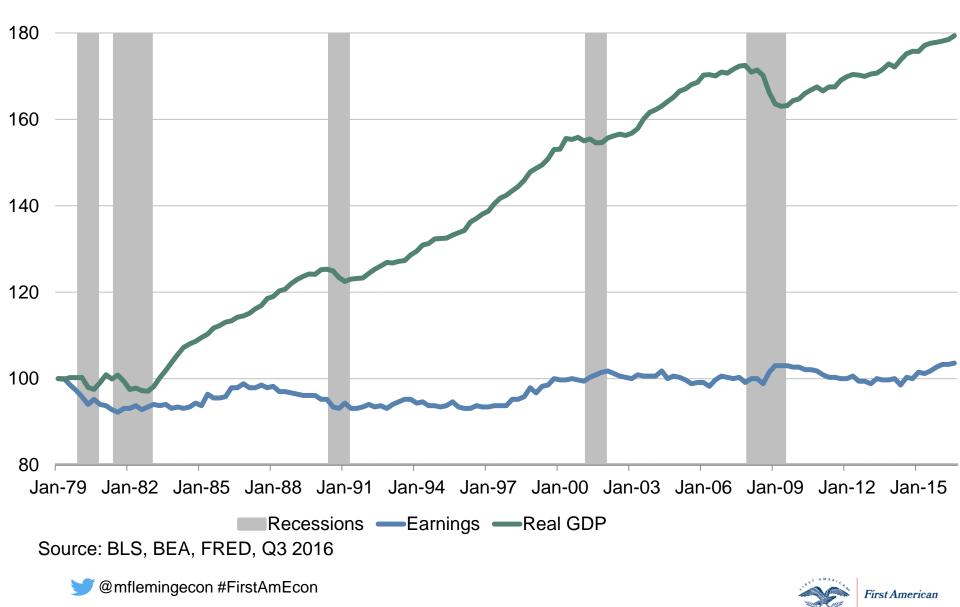


First American



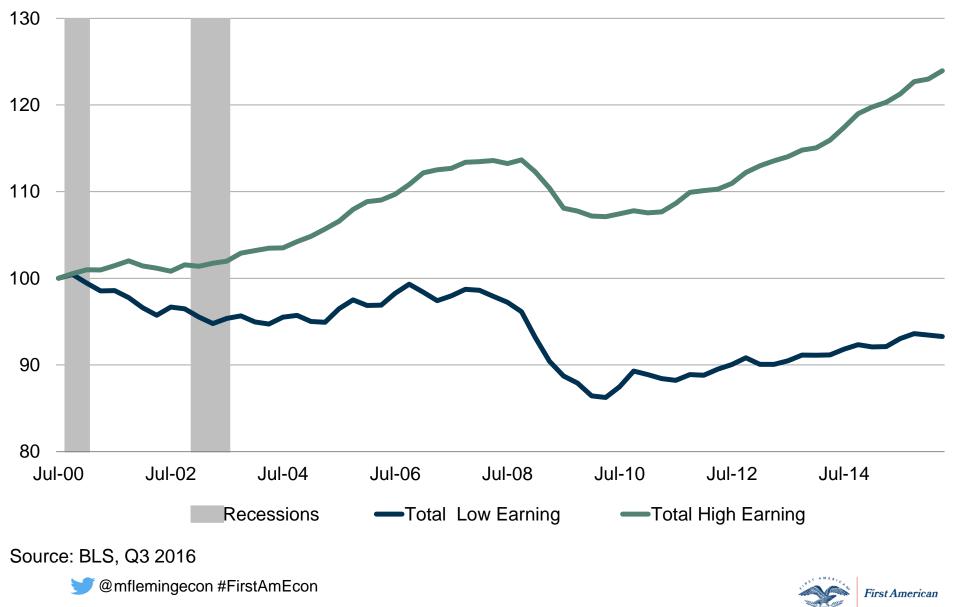
Capital Versus Labor- Who Gains the Growth Benefits?

Real GDP Per Capita and Full Time Employed Median Earnings (SA, Q1 1979 = 100)



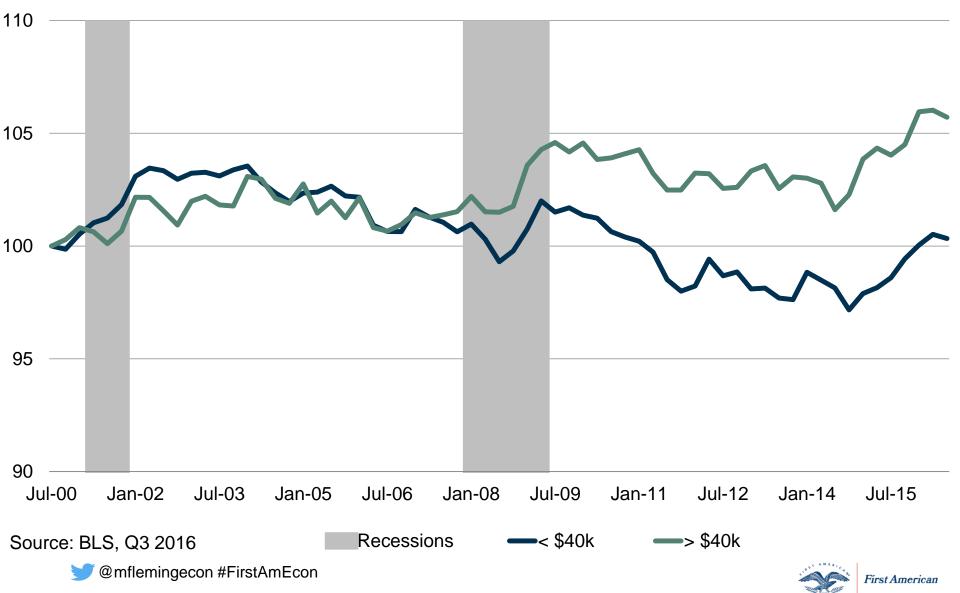
Job Polarization- Job Creation is Skill Skewed

Employment Count of Full Time Workers (Q3 2000 = 100)



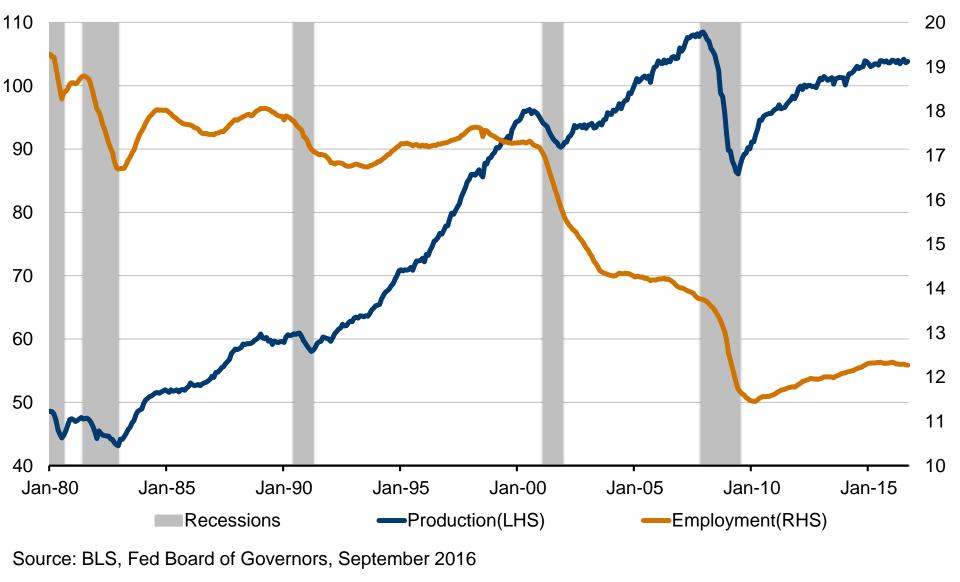
Robot Maker or Wage Taker

Median Usual Weekly Earnings (Inflation Adjust Q1 2016, Q3 2000 = 100)

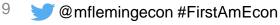


The Plight of Labor

Ind. Manuf. Prod. (Index 2012=100, Monthly, SA) and Employment (MM of Persons)

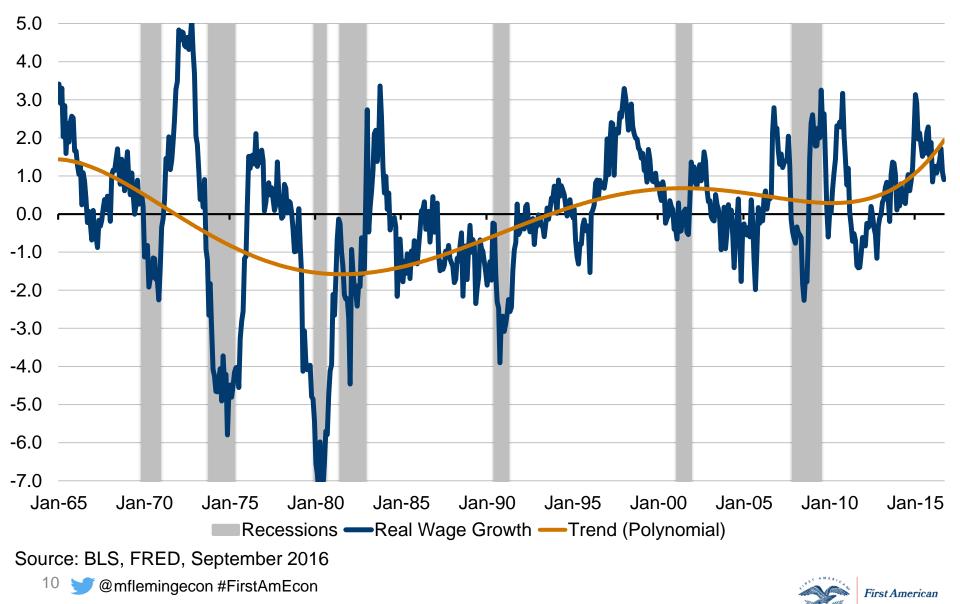


First American



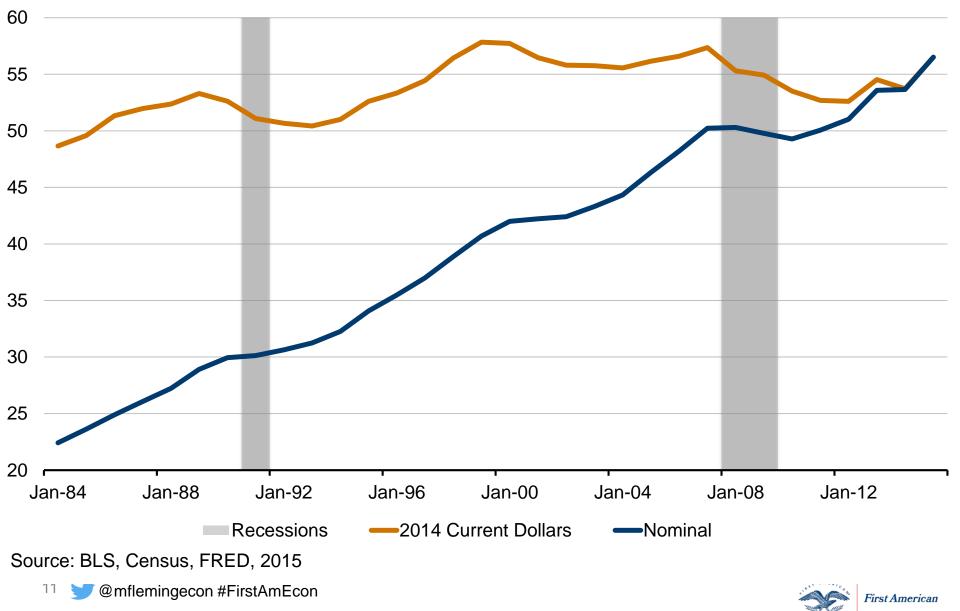
Wage Growth Trending in the Right Direction

Real Growth in Production and Nonsupervisory Average Weekly Earnings



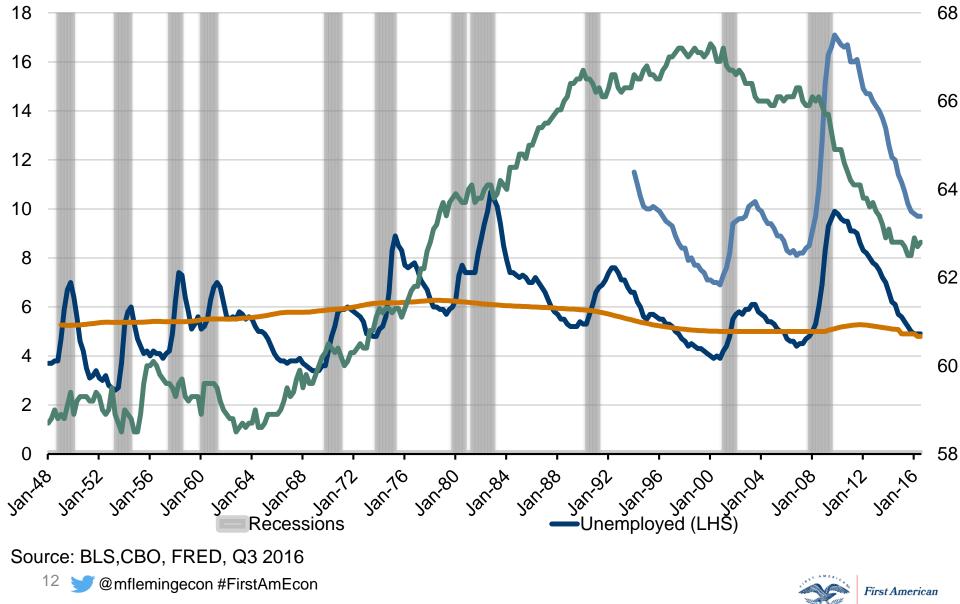
Household Income Stagnating for Decades

Median Household Income (\$ Thousands, Annual)



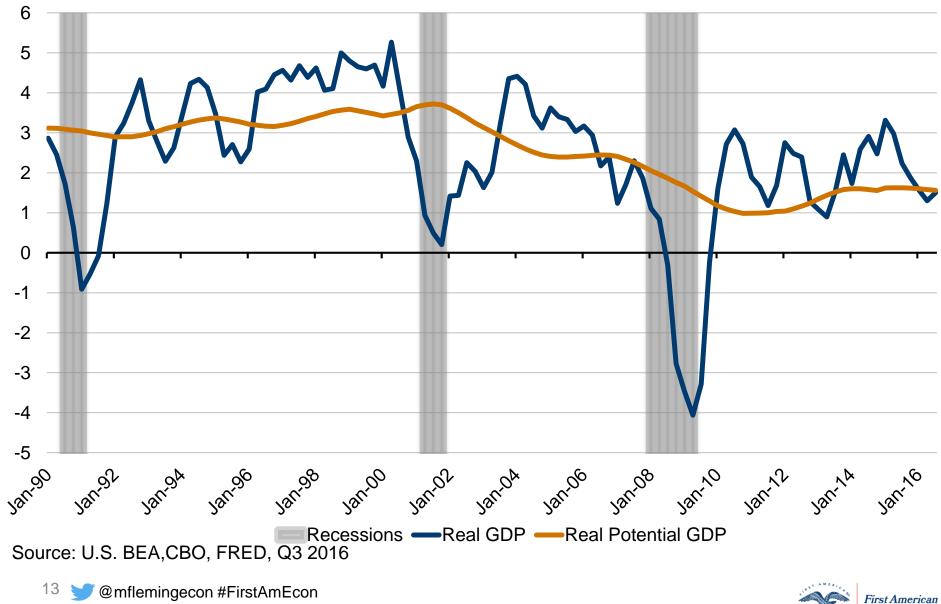
Underworked or Aging? Finding the New Normal

Unemployment Rates and Labor Force Participation (%,SA)



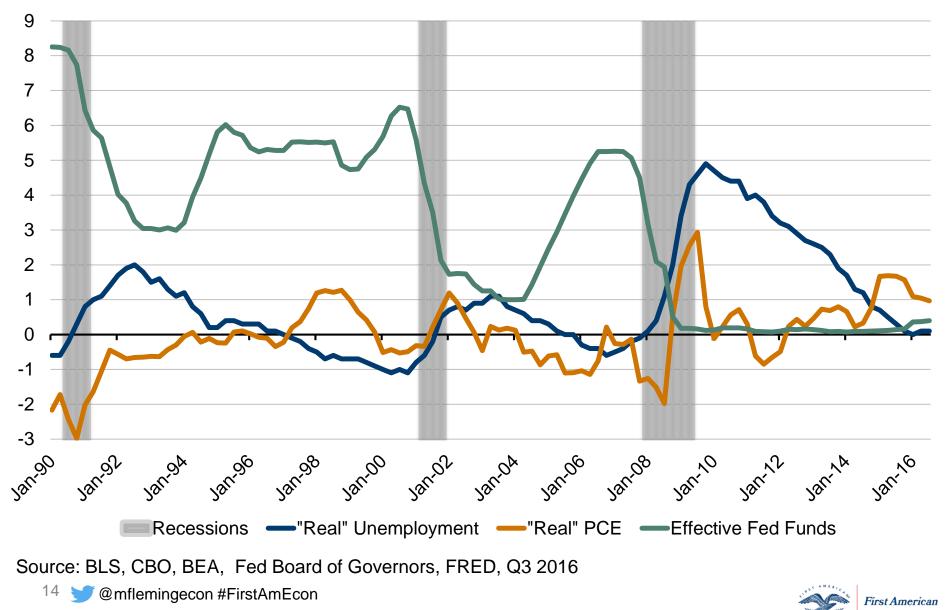
Return To Our Fading Potential

Real & Potential GDP Year-Over-Year (SAAR, Chained 2009 \$)



Weak Potential Requires Loose Monetary Policy

"Real" Unemployment & Inflation (Adjusted for Fed Targets)

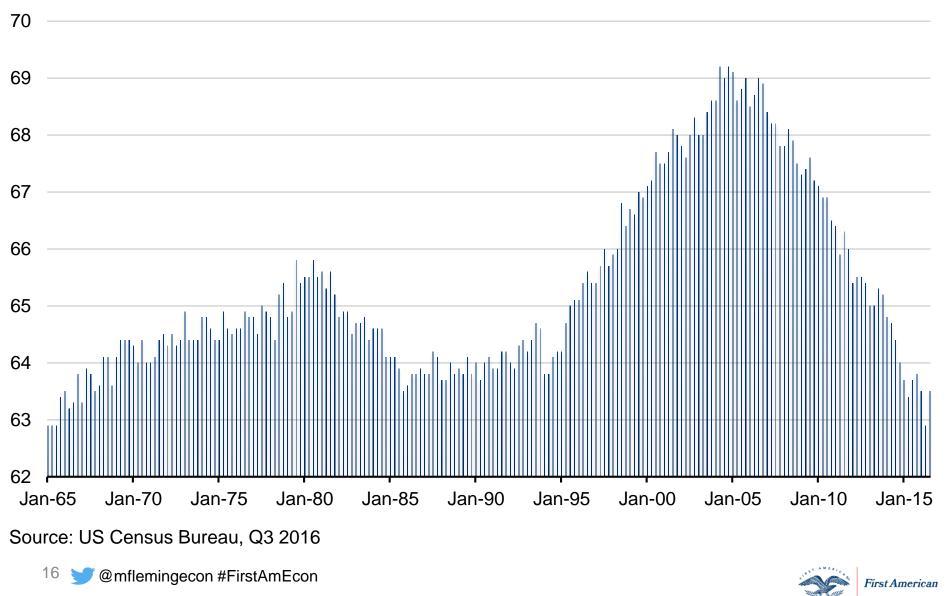


"It ain't what you don't know that gets you into trouble. It's what you know for sure that just ain't so." - Mark Twain



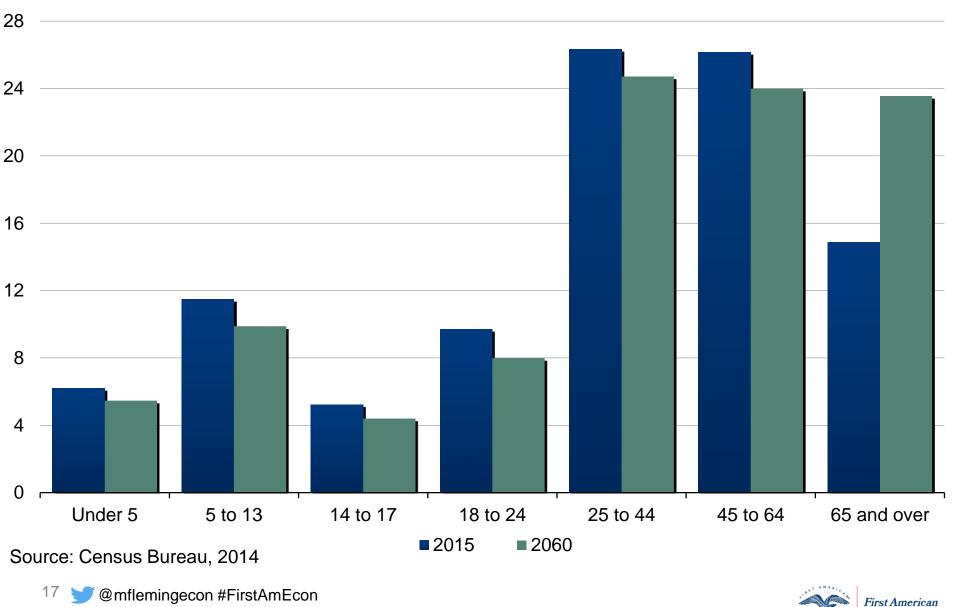
Is Something Restricting the American Dream?

Homeownership Rate (%)



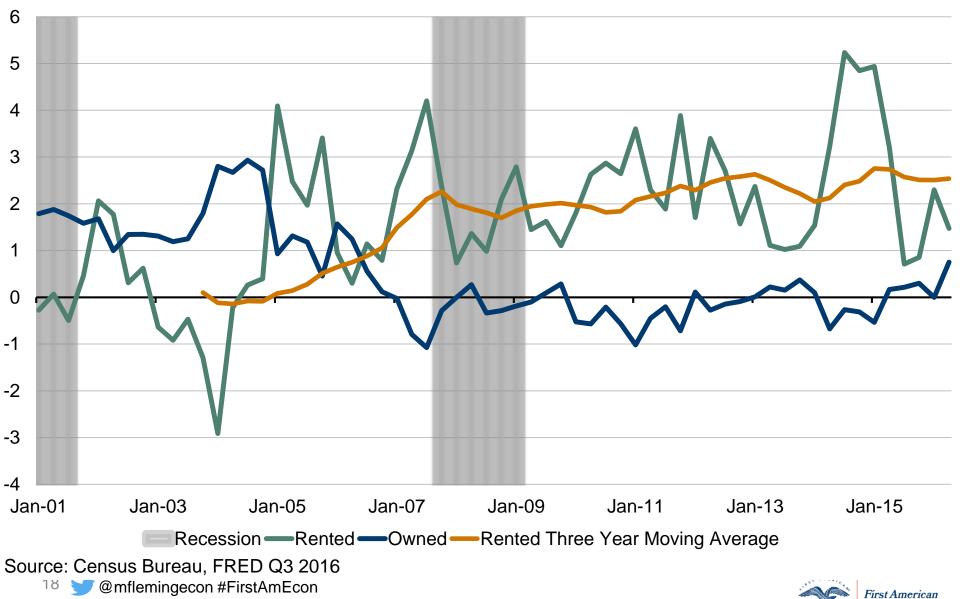
The Aging of America

Percent Share of Total U.S. Population



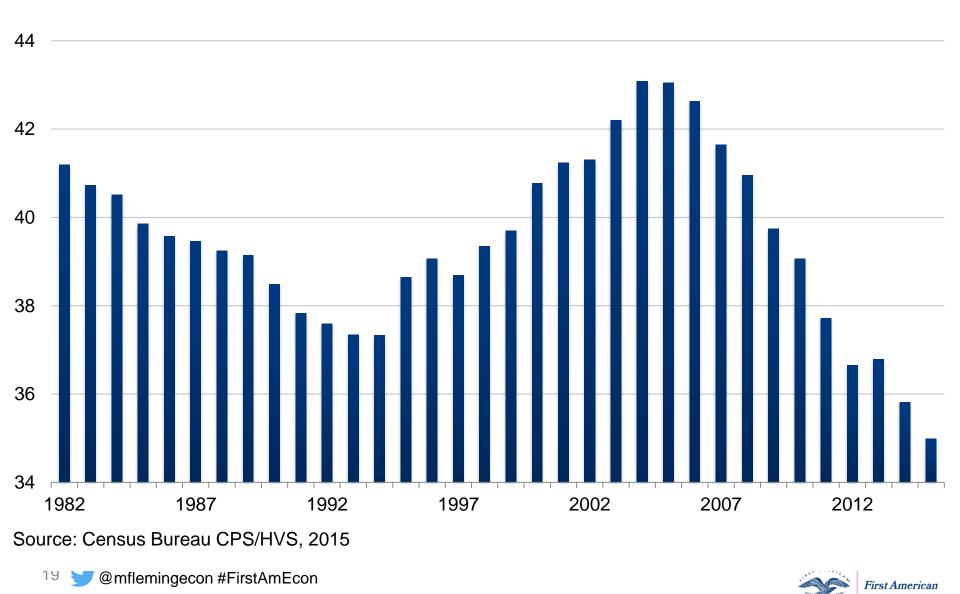
Demographics Drives Rental Demand

Household Formation by Occupancy Type (Year-Over-Year Inventory Growth, %)

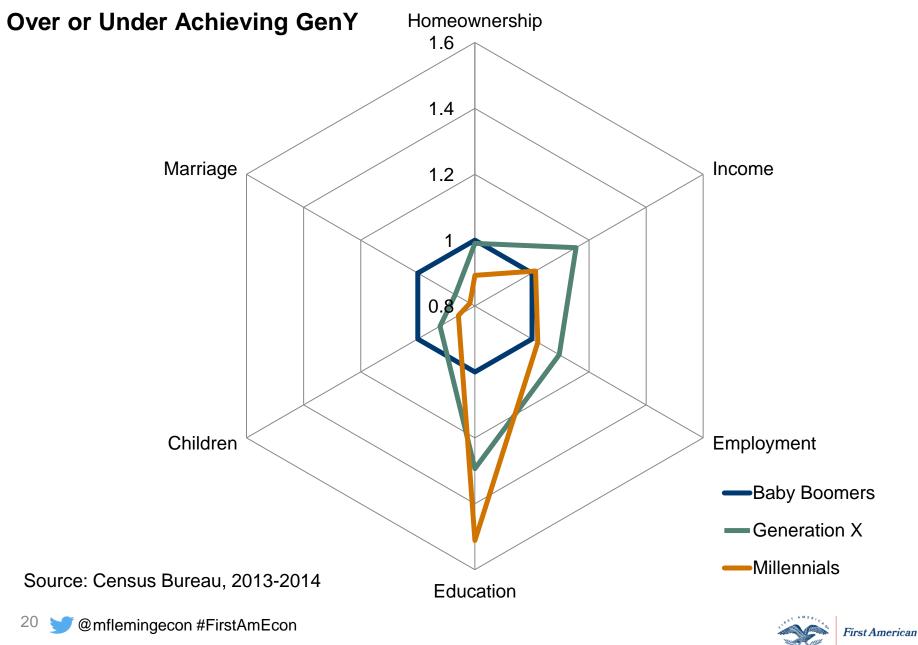


Renting Millennials

Homeownership Rate for Households Under 35

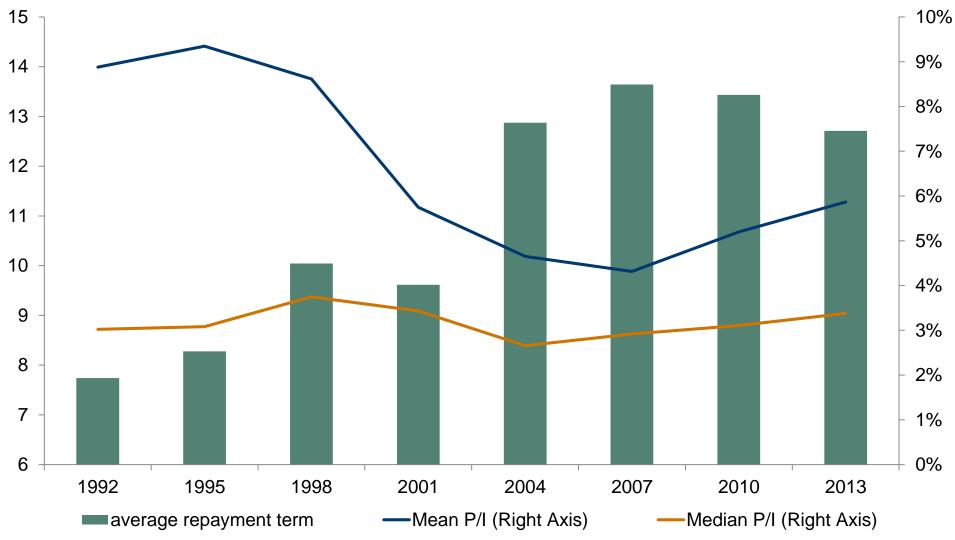






Borrow More and Pay More?

Average Loan Term (Years) and Payment-to-Income Ratio

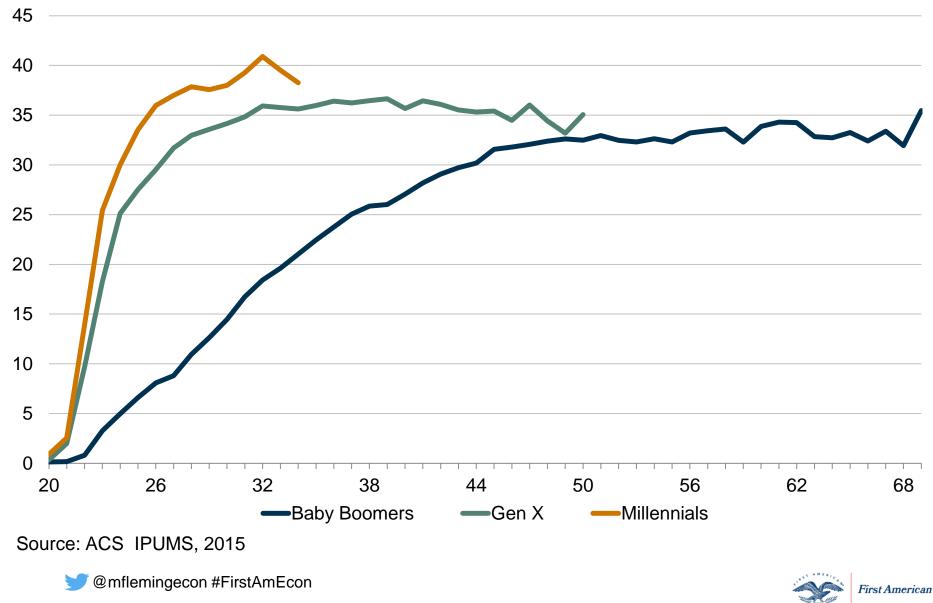


Source: Federal Reserve Board of Governors SCF, 2013



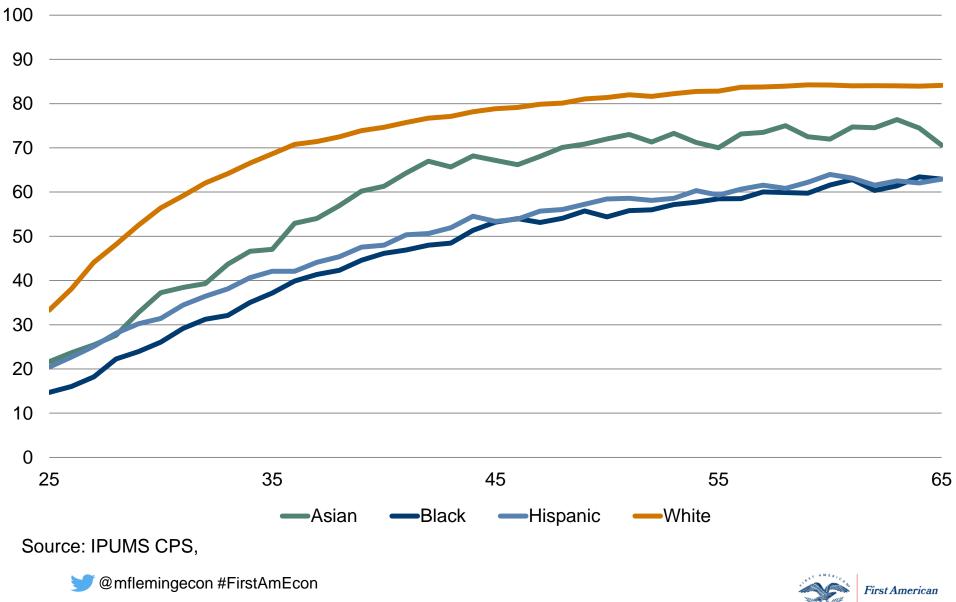
Education Attainment

Percent Share of Population with Bachelors Degree or Higher



With Age Comes Wisdom and Homeownership

Percent of Homeowners



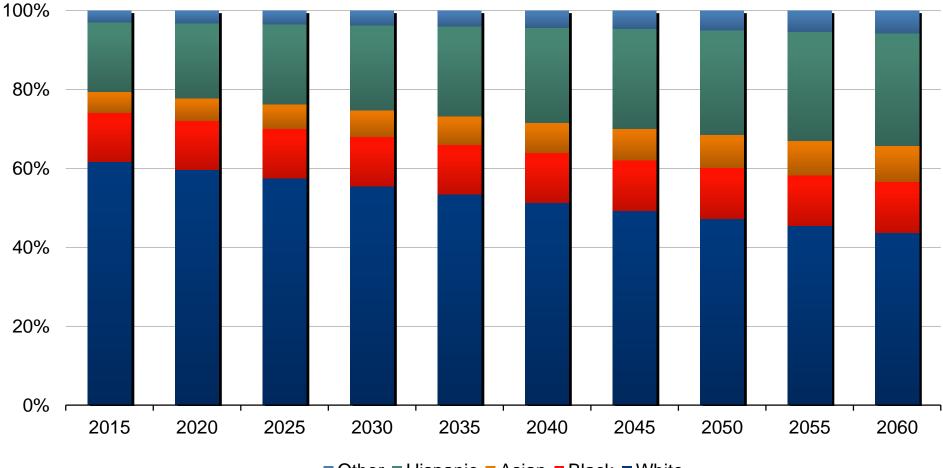
Mind The Gap

Measuring the Differences in Homeownership in a Diversifying Economy



The Collective Minority Becomes The Majority

Percent Share of Total U.S. Population



■ Other ■ Hispanic ■ Asian ■ Black ■ White

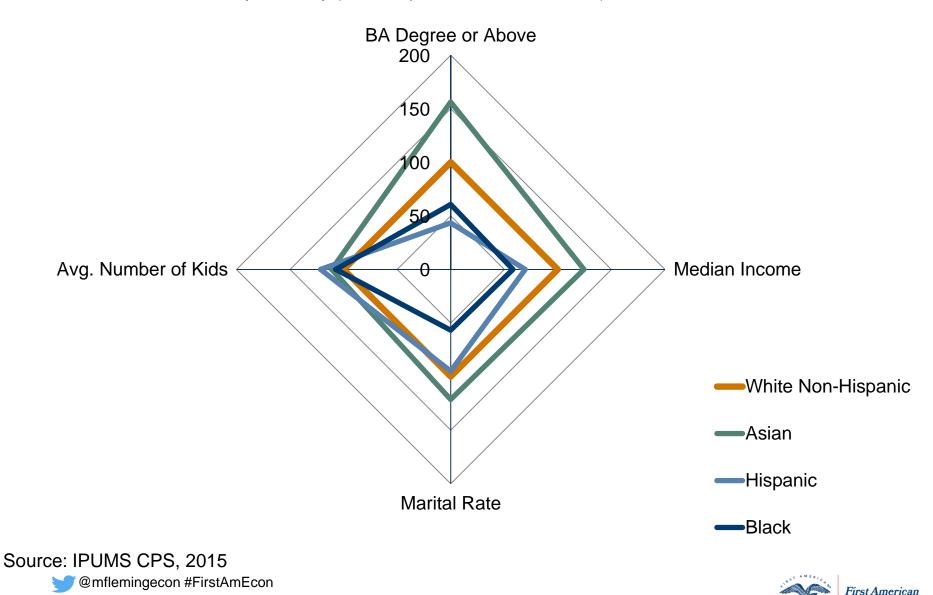
Source: Census Bureau, 2014





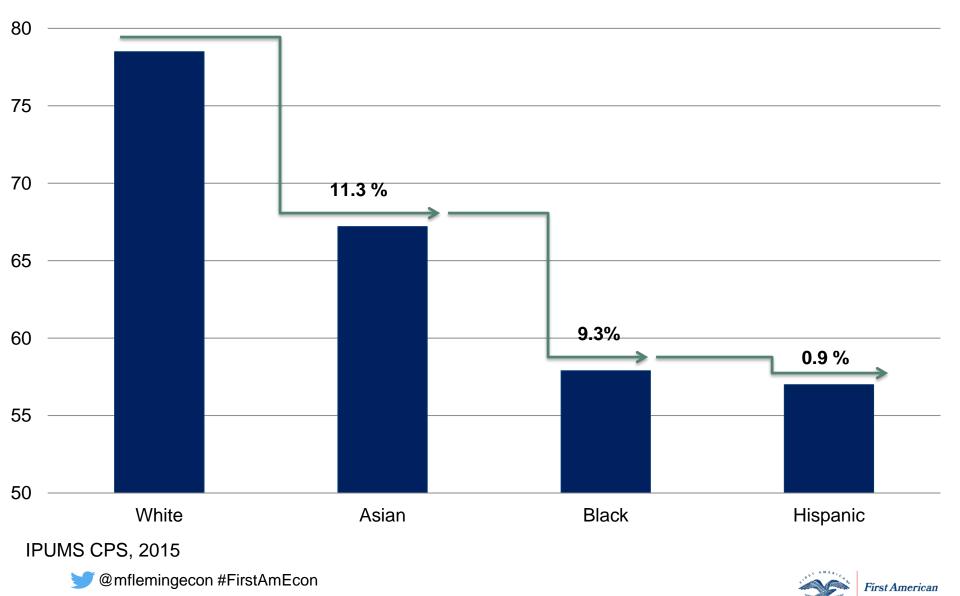
What Matters Most To Achieving the American Dream

Attributes of Tenure Choice by Ethnicity (Non-Hispanic White, 2015=100)



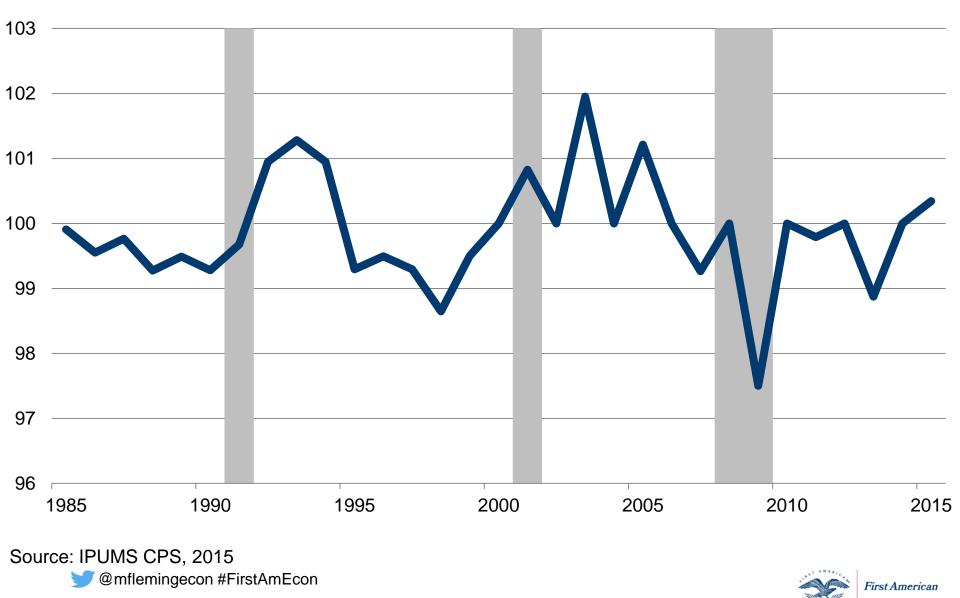
Ceteris Paribus Homeownership Rates

Attribute Constant Ethnicity Homeownership Rates, %, 2015



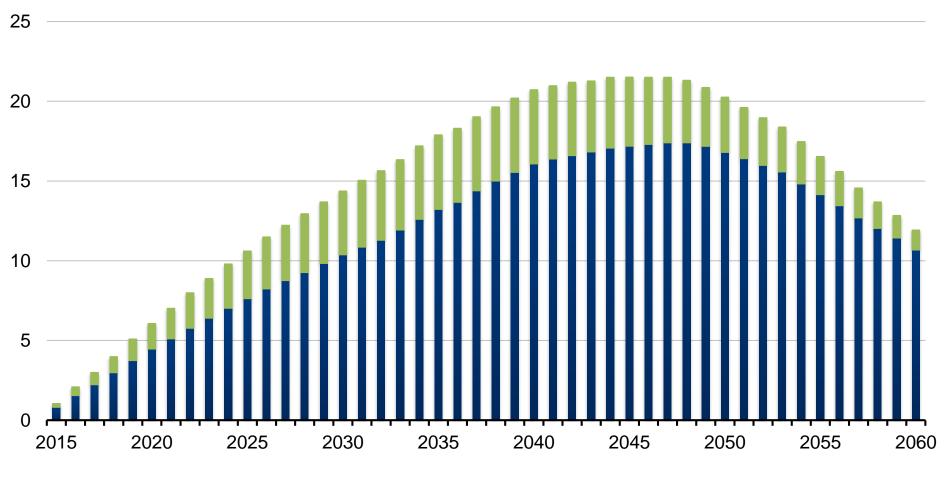
The Economics of Homeownership

Ceteris Paribus Homeownership Index (2000= 100)



The Future of Millennial Housing Demand

Cumulative Net New Owner-Occupied Households (17-35 Yrs. Old in 2015, Millions)



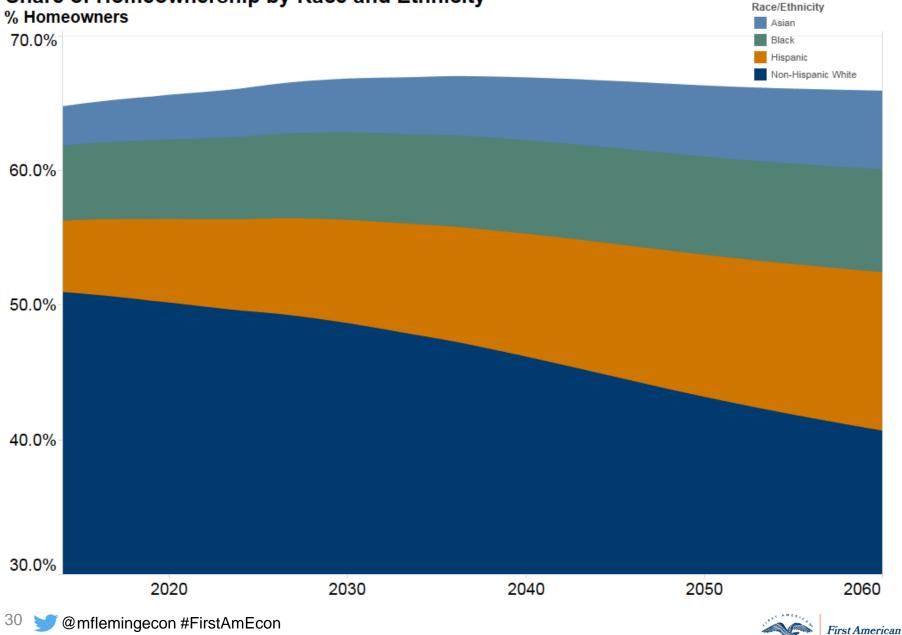
Non-Hispanic White

Source: Census Bureau, FirstAm Calculations, December 2015





Share of Homeownership by Race and Ethnicity



Forecasting Housing's Future

Sunny with a few cloudy periods today and Thursday, which will be followed by Friday...

-The Province (Vancouver, B.C.) 6/21/78

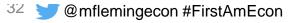


Market Activity Under-Performing Potential

Existing and Potential Home Sales ('000s, SAAR)



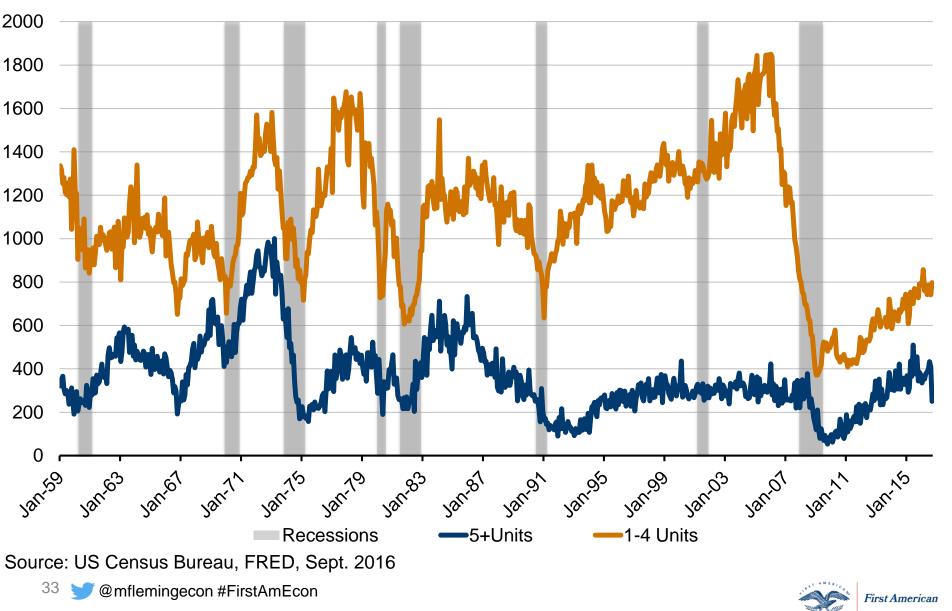
Source: NAR, FRB St. Louis, First American Calculations, September 2016





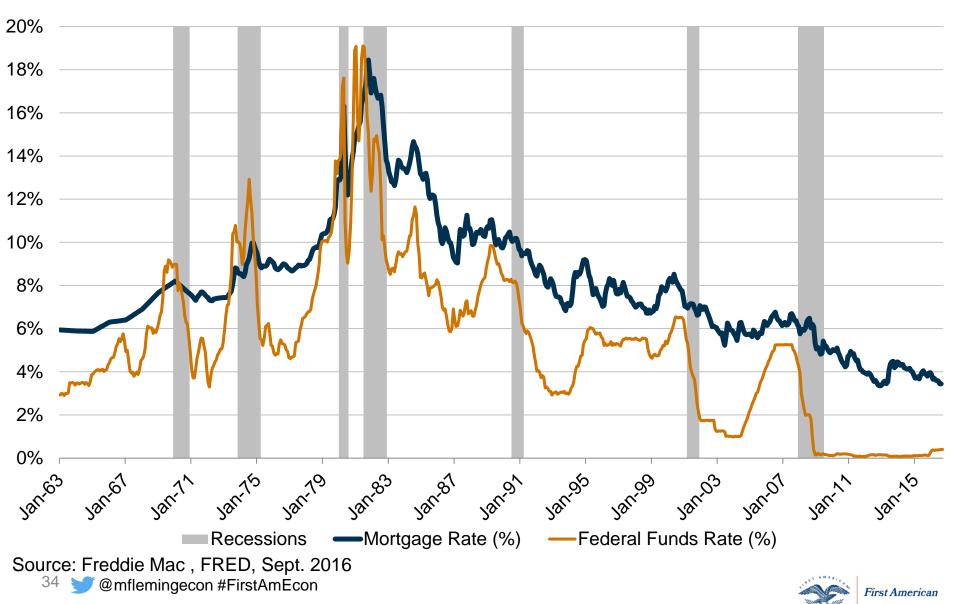
Demographics Drives Building Potential

Single and Multifamily Housing Starts ('000s, Units)



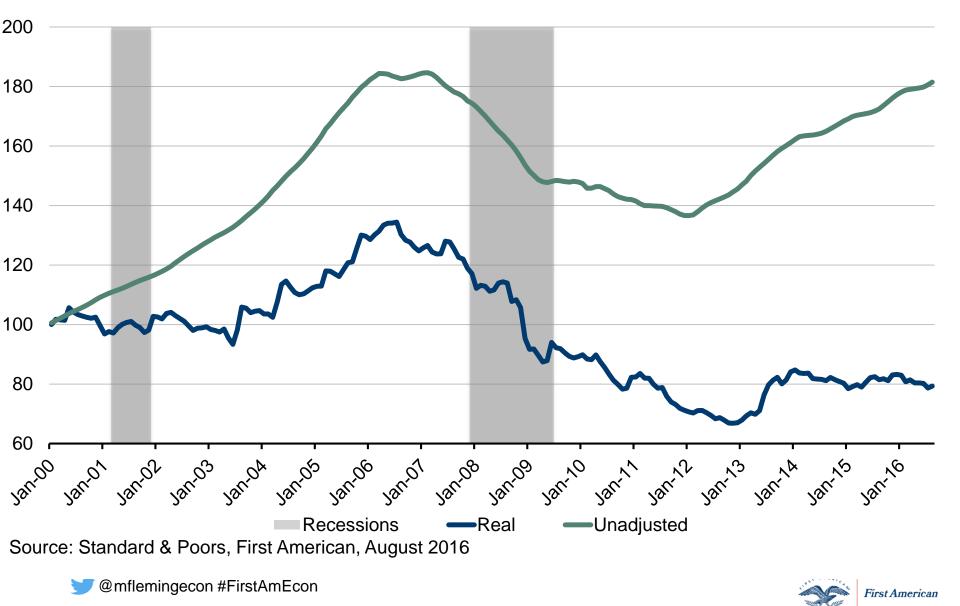
Housing's Quarter-Century Tailwind

30-Year Fixed Rate, Effective Federal Funds Rate, % NSA

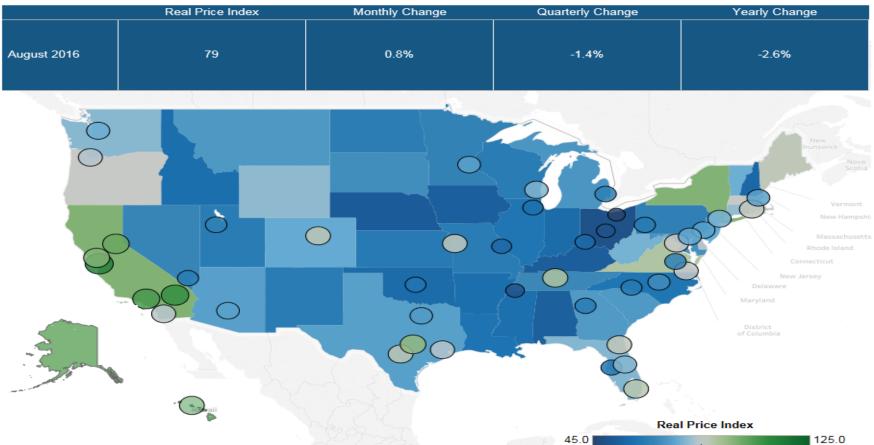


Real Prices Remain Well Below Historic Levels

House Prices (SA, Jan. 2000 = 100)



Real Prices Remain Low In Most Markets



Sort by Each Measure to See City/State Rankings:

State	State Index	Monthly Change	Quarterly Change	Yearly Change 	City Name	City Index	Monthly Change	Quarterly Change	Yearly Change≞
MI	71.95	1.4%	1.6%	5.9%	Virginia Beach, VA	84.42	0.4%	-1.8%	-5.5%
WY	80.22	-0.9%	-4.8%	4.8%	Oklahoma City, OK	61.68	0.4%	-1.9%	-4.8%
ME	87.34	1.9%	2.8%	3.1%	San Francisco, CA	97.36	0.0%	-3.3%	-4.6%
VT	77.44	1.5%	0.1%	2.5%	Milwaukee, WI	79.06	-0.5%	-3.2%	-4.5%
CO	76.29	0.6%	-1.3%	1.8%	Richmond, VA	66.23	0.9%	-1.3%	-3.6%

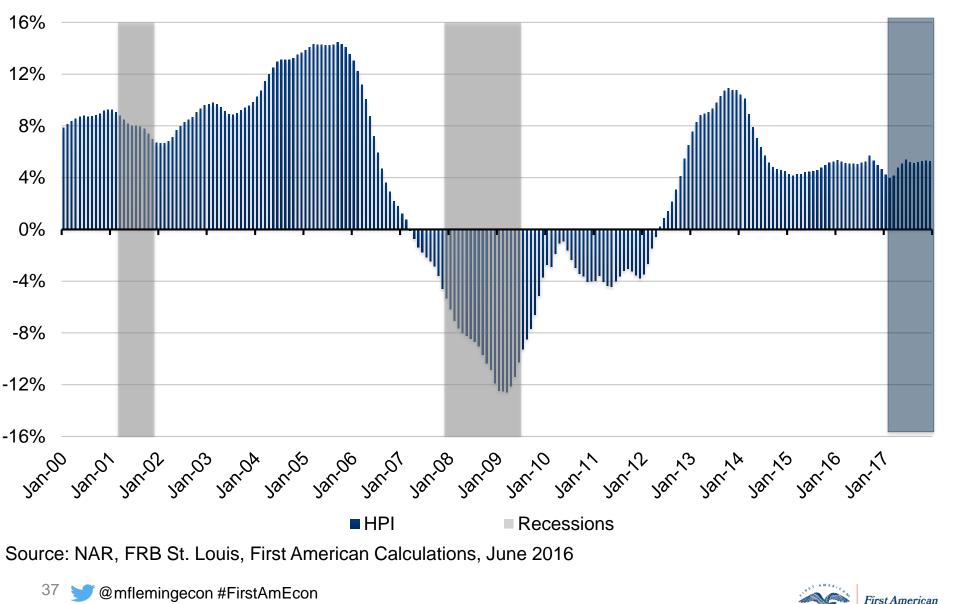
Source: FHFA, Freddie Mac, Census, FirstAmEcon, August 2016 36 Source: @mflemingecon #FirstAmEcon



3

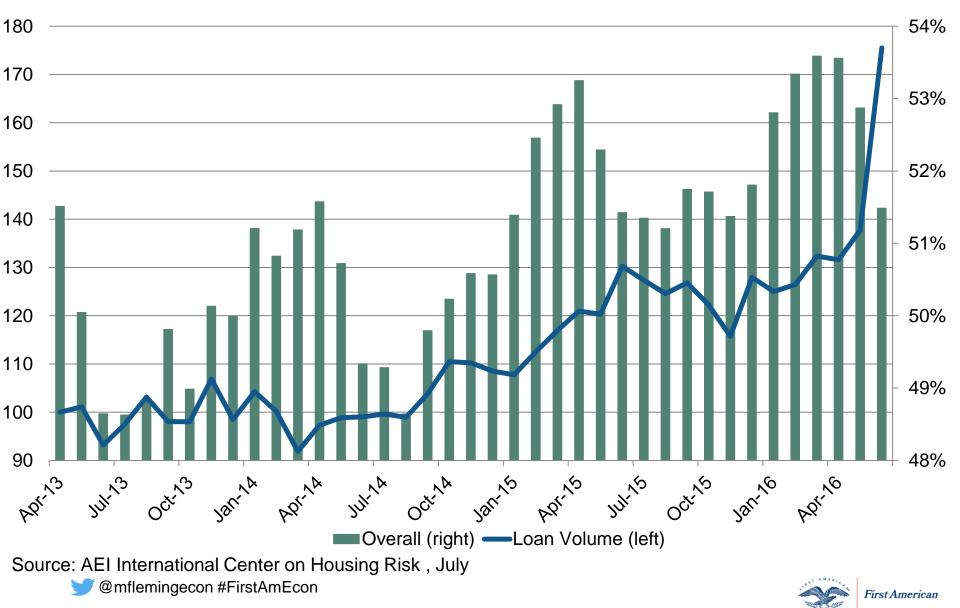
Price Growth Expected to Remain Strong

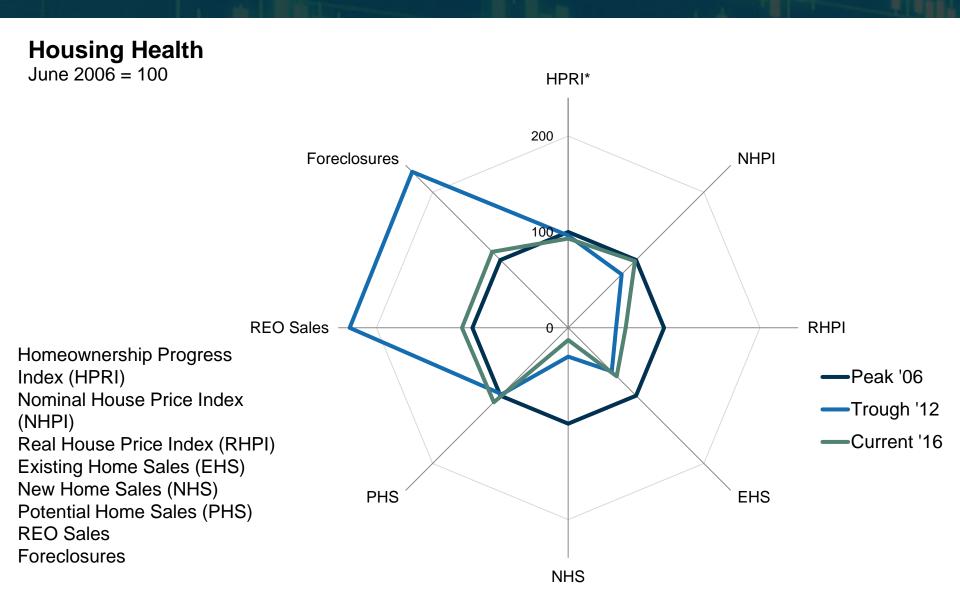
HPI Growth (SA, Year-Over-Year)



First-Time Buyers Rebounding

First-Time Homebuyer Market Share and Transaction Volume Index (%, Volume-April 2013 = 100)





Source: First American, May 2016 *Annual 2015 Data

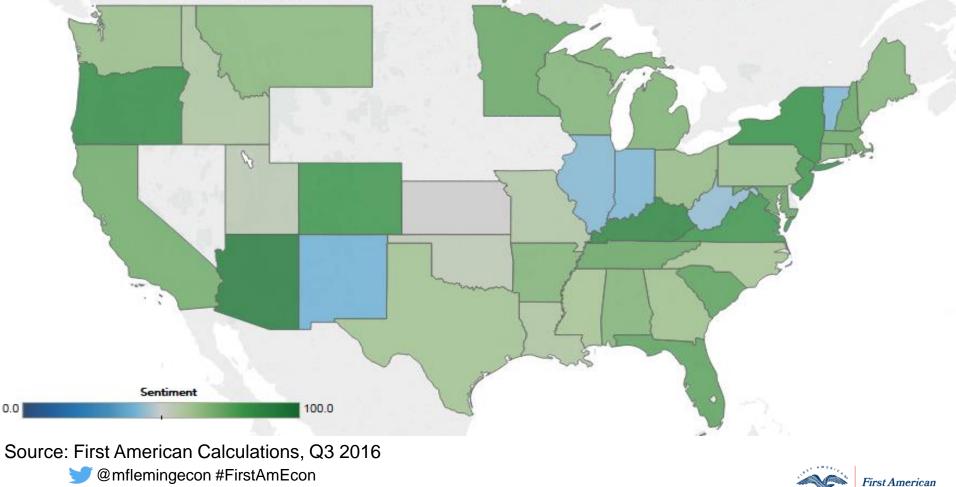




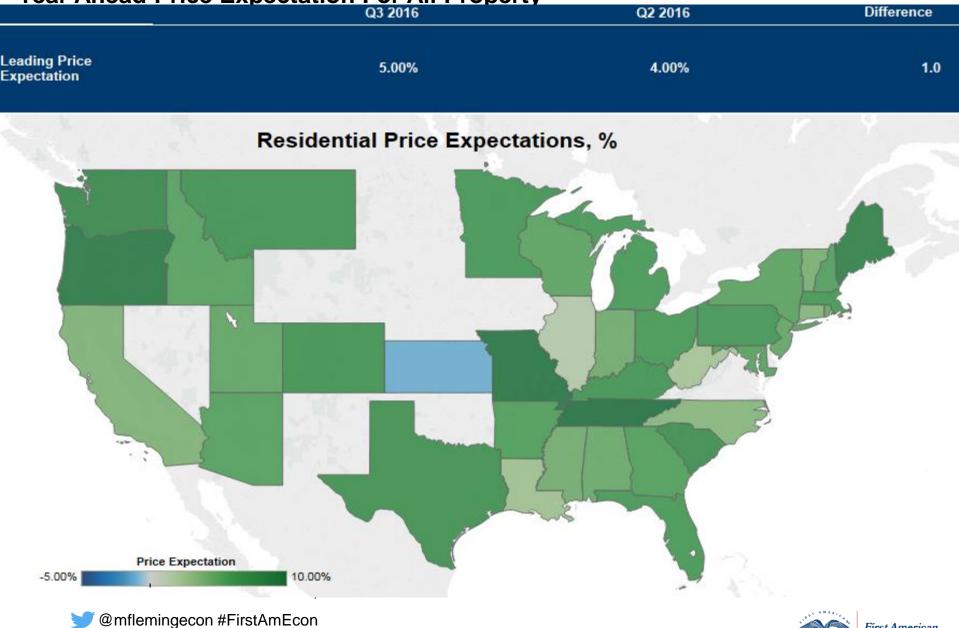
Residential Purchase Transactions Expected To Grow

	Q3 2016	Q2 2016	Quarterly Growth	Annual Growth
Overall Volumes	60.64	60.61	0.05%	7.16%
Purchase Volumes	62.28	66.85	-6.84%	-4.23%
Refinance Volumes	59.00	54.36	8.54%	22.56%

Will Volumes Increase, Decrease, or Remain the Same in the Next 12 Months?



Year Ahead Price Expectation For All Property Q3 2016



First American

First American's Office of Economic Research

FirstAm.com/Economics @mflemingecon #FirstAmEcon

