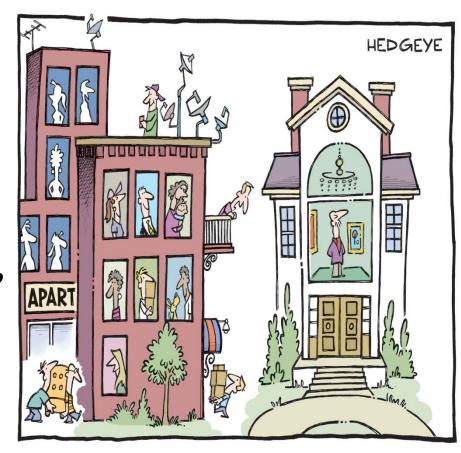


# US HOUSING DEMOGRAPHICS

# GET READY FOR THE DEMOGRAPHIC "NEW NORMAL" IN HOUSING

MARCH 2, 2016



# **DISCLAIMER**

#### **DISCLAIMER**

Hedgeye Risk Management is a registered investment advisor, registered with the State of Connecticut. Hedgeye Risk Management is not a broker dealer and does not provide investment advice for individuals. This research does not constitute an offer to sell, or a solicitation of an offer to buy any security. This research is presented without regard to individual investment preferences or risk parameters; it is general information and does not constitute specific investment advice. This presentation is based on information from sources believed to be reliable. Hedgeye Risk Management is not responsible for errors, inaccuracies or omissions of information. The opinions and conclusions contained in this report are those of Hedgeye Risk Management, and are intended solely for the use of Hedgeye Risk Management's clients and subscribers. In reaching these opinions and conclusions, Hedgeye Risk Management and its employees have relied upon research conducted by Hedgeye Risk Management's employees, which is based upon sources considered credible and reliable within the industry. Hedgeye Risk Management is not responsible for the validity or authenticity of the information upon which it has relied.

#### **TERMS OF USE**

This report is intended solely for the use of its recipient. Re-distribution or republication of this report and its contents are prohibited. For more details please refer to the appropriate sections of the Hedgeye Services Agreement and the Terms of Use at <a href="https://www.hedgeye.com">www.hedgeye.com</a>

PLEASE SUBMIT QUESTIONS\* TO

# QA@HEDGEYE.COM

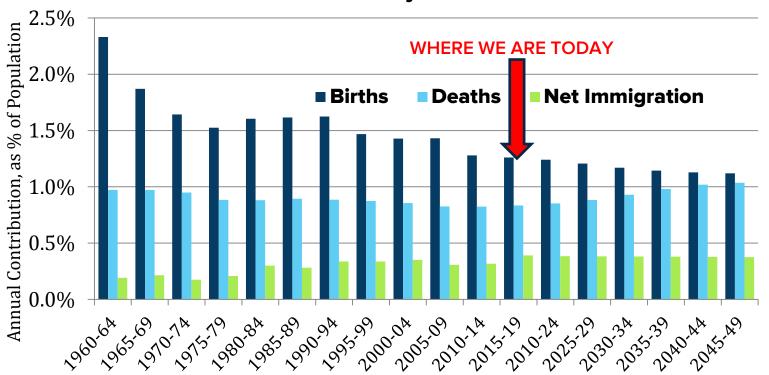
# THE DEMOGRAPHIC "NEW NORMAL"

- 1. An Aging America Intro
- 2. Long-Term Housing Projections
- 3. Near-Term Age-Bracket Projections
- 4. Seven Drivers Reshaping the Industry
- 5. Summary & (Personal) Trend Forecasts



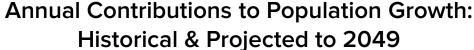
# BIRTHS DOWN +, DEATHS UP +

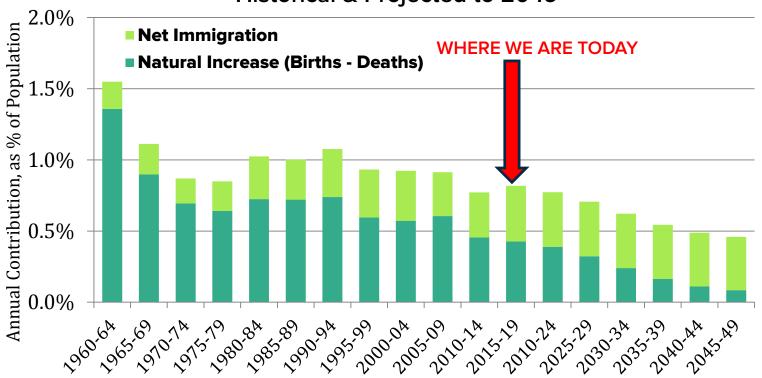
# Annual Contributions to Population Growth: Historical & Projected to 2049



Source: U.S. Census (2008-2016)

# TOTAL GROWTH RATE •, IMMIGRATION CRITICAL

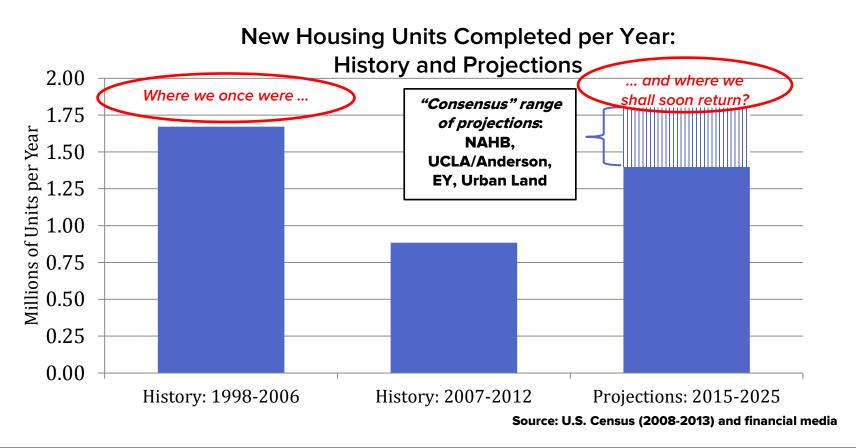






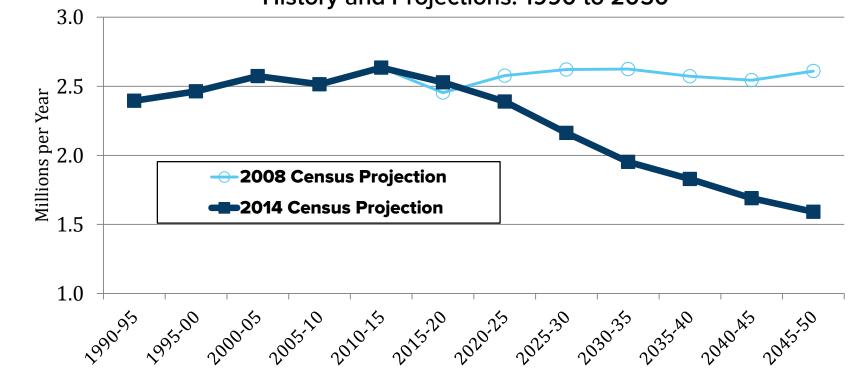
# 2. LONG-TERM HOUSING PROJECTIONS

# **EXPECTED "RETURN TO NORMALCY" BACK IN 2013**



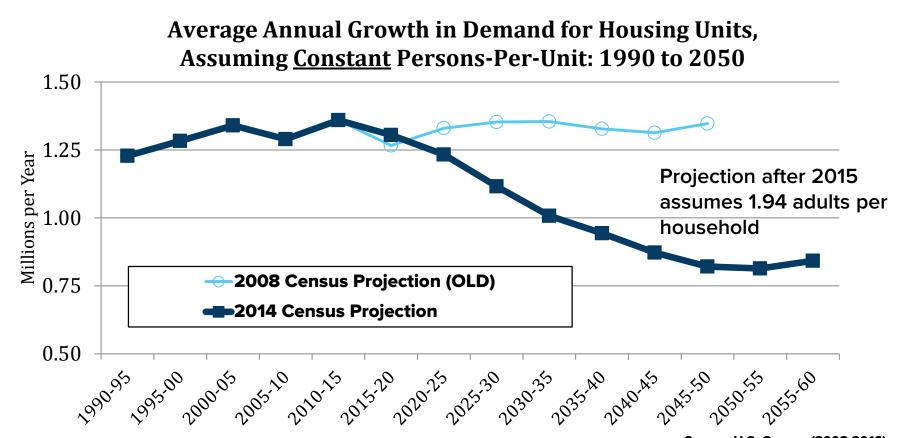
# **NEW CENSUS ESTIMATES > FEWER NEW ADULTS...**





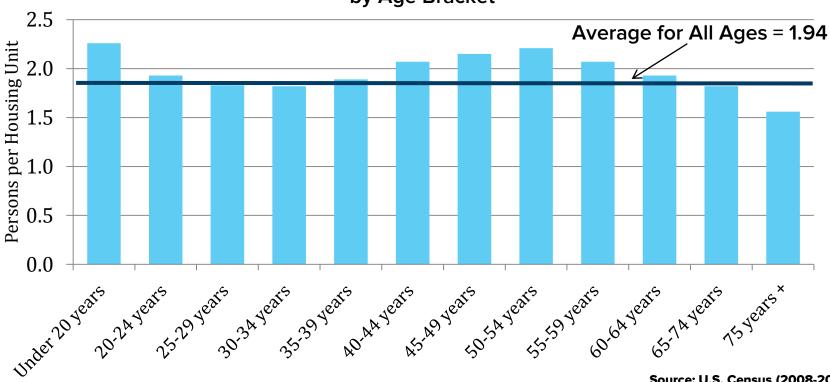
Source: U.S. Census (2008-2016)

# ... WHICH MEANS FEWER NEW HOMES



# AND IF WE ADJUST FOR THE SHIFTING AGE MIX...

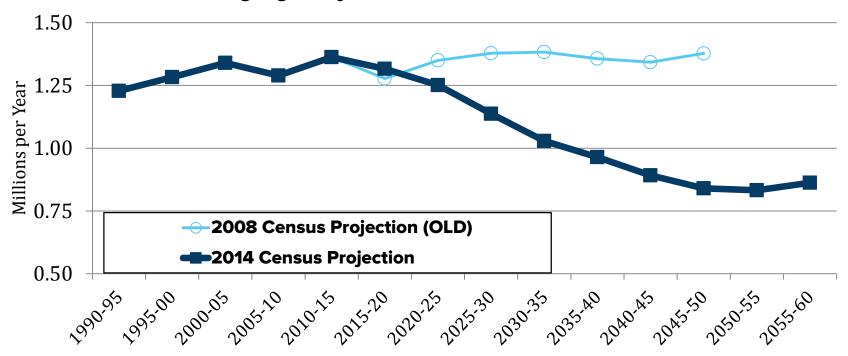




Source: U.S. Census (2008-2015)

# ... THE RESULT IS PRETTY MUCH THE SAME

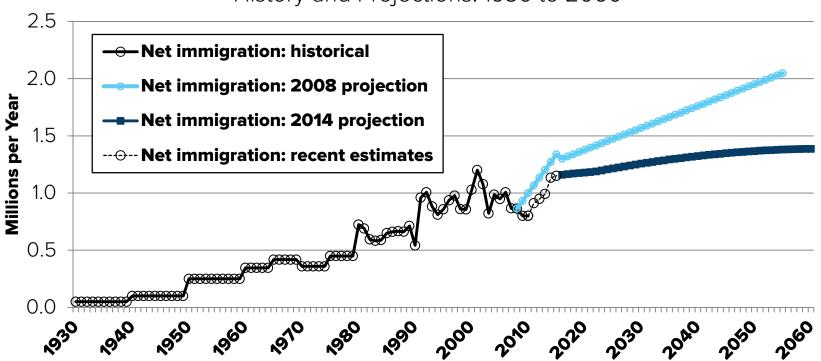
Average Annual Growth in Demand for Housing Units, Assuming Age-Adjusted Persons-Per-Unit: 1990 to 2050



Source: U.S. Census (2008-2016)

# WHY EVERYTHING DEPENDS ON NET IMMIGRATION...

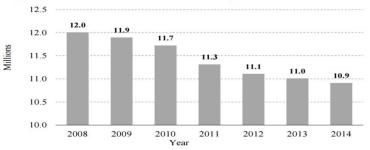
Annual Net Immigration, History and Projections: 1930 to 2060



Source: U.S. Census (2008-2016)

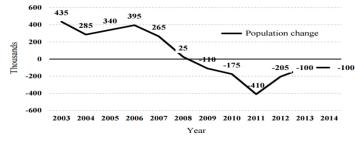
# ... AND WHY IT MAY BE SMALLER THAN CENSUS ESTIMATES

Figure 1. Total Undocumented Population: 2008 to 2014



Source: CMS 2016 analysis of ACS data (see text); Warren and Warren 2013.

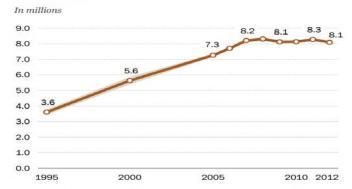
Figure 2. Annual Change in the Total Undocumented Population: 2003 to 2014



Source: CMS 2016 analysis of ACS data; Warren and Warren 2013.

According to reports from Pew Research Center (2014) and Center for Migration Studies (2016), recent official "inter-censal" estimates for net immigration may be way too high.

## Unauthorized Immigrants in the U.S. Labor Force, 1995-2012



Note: Shading surrounding line indicates high and low points of the estimated 90% confidence interval. Data labels are for 1995, 2000, 2005, 2007, 2009, 2011 and 2012. The 2009-2012 change is not statistically significant at 90% confidence interval.

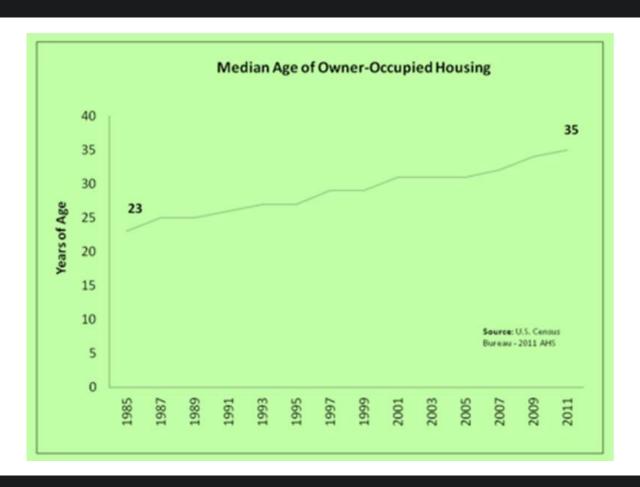
Source: Table A2, derived from Pew Research Center estimates for 2005-2012 based on augmented American Community Survey data from Integrated Public Use Microdata Series (IPUMS); for 1995 and 2000 based on March Supplements to Current Population Survey.

PEW RESEARCH CENTER

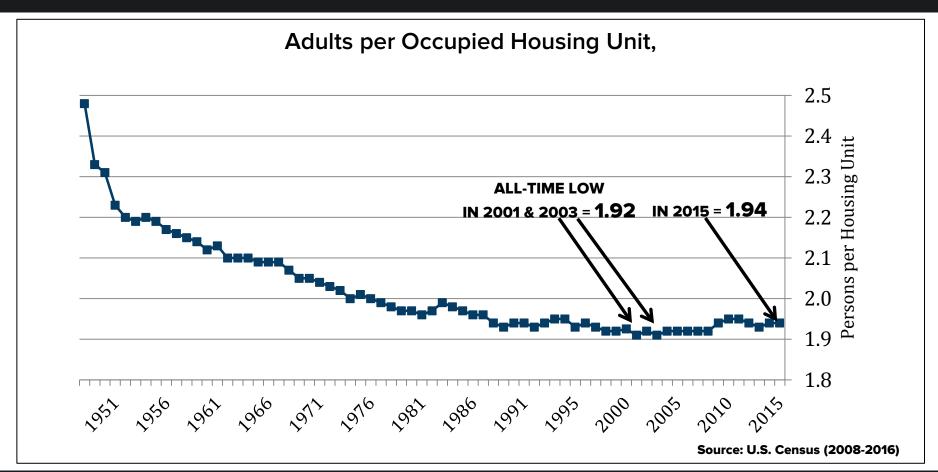
# OTHER DRIVERS THAT MAY SUPPRESS DEMAND

- No new <u>national infrastructure rebuilding</u> on the horizon.
- Secular increase in <u>housing stock longevity</u> due to better construction methods. Result: Gradual decline in "net removal" rate (see chart).
- Possible long-term decline in <u>home vacancy rates</u> due to the sharing economy. Airbnb now offers over 1 million rooms or units nationwide.
- Possible long-term rise in <u>average adults per unit</u>. Average reached post-war low in 2001 and 2003 and is now rising again (see chart).

# RISING AGE OF HOUSING STOCK



# HOMES ARE AGAIN GROWING MORE CROWDED

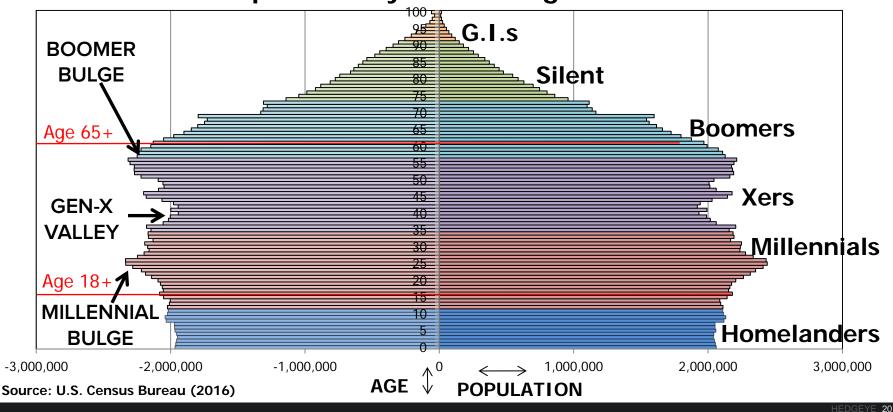


# FAST FORWARD 10 YEARS

3. NEAR TERM AGE-BRACKET PROJECTIONS

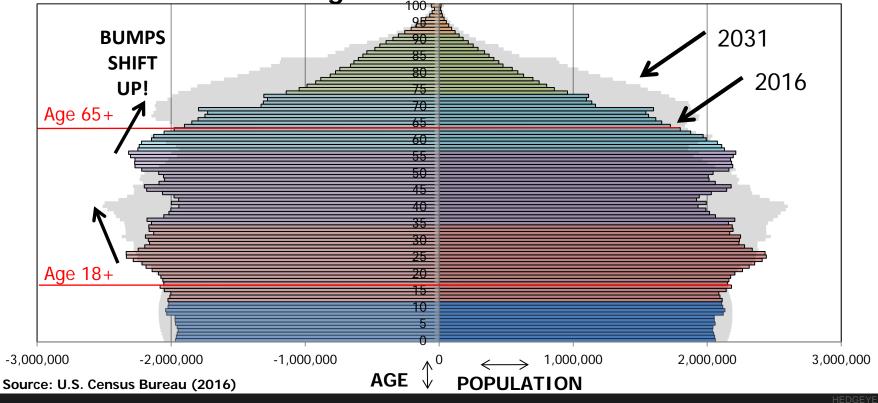
# **AMERICA'S POPULATION PYRAMID, TODAY**





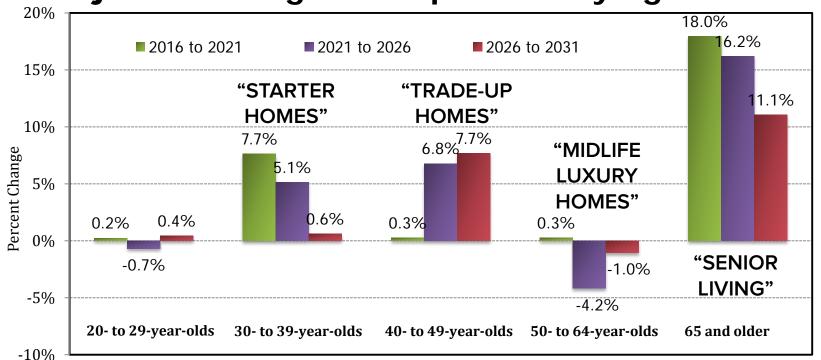
# **15 YEARS FROM NOW**

**Population Projections by Sex and Age:** Change from 2016 to 2031



# **BOOM FOR STARTERS AND SENIORS, BUST FOR MIDLIFE**





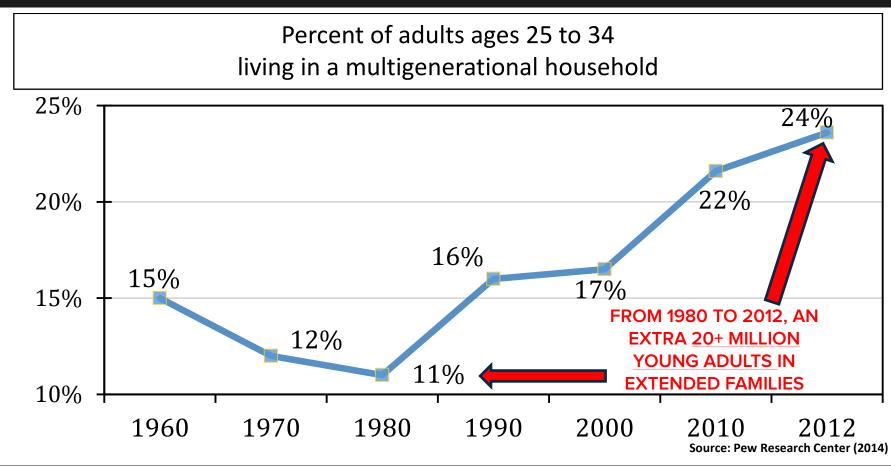
Source: U.S. Census Bureau (2016)



# 4. SEVEN DRIVERS RESHAPING THE INDUSTRY

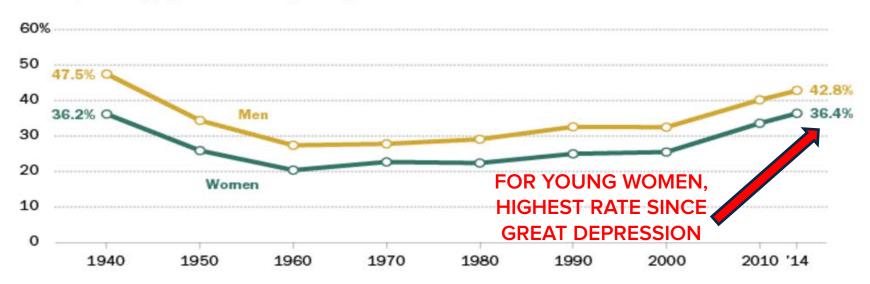
# SEVEN DRIVERS RESHAPING THE INDUSTRY

- 1) All age groups are fueling a renaissance in extended family living
- 2) Boomers thus far show a preference for aging in place
- 3) A "golden age of home improvement" booms on
- 4) Boomers are piling up more mortgage debt, Millennials less
- 5) Gen X small in number, and small in home spending power
- 6) Yes, Millennials are fueling the boom in core urban areas
- 7) Millennials & Xers are driving the switch from buying to renting



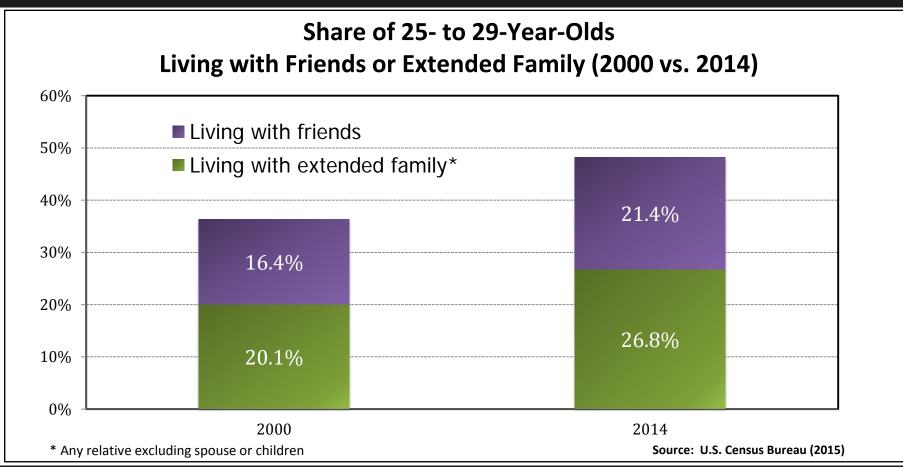
#### Not Leaving the Nest: Women Living With Family Returns to 1940 Level

Share of 18- to 34-year-olds living with parents or relatives



Note: Living with family means residing in a household headed by a parent, aunt/uncle, or other relative (but not a spouse). Source: Pew Research Center tabulations of U.S. decennial census data, 1940-2000 and 2010 and 2014 American Community Survey (IPUMS)

Source: Pew Research Center (2016)



#### After rising for nearly a century, share of older women living alone is on decline

% of adults ages 65 and older living alone



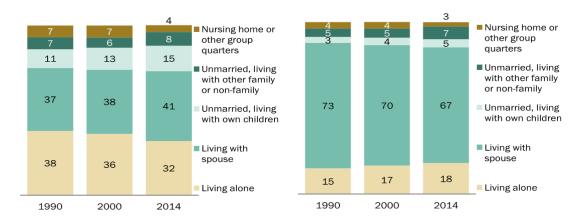
Note: Data labels are for 1900, 1990 and 2014. Older adults living alone reside in a household. The share living alone is based on the total population ages 65 and older.

Source: Pew Research Center analysis of 1900-2000 decennial censuses and 2010 and 2014 American Community Surveys (IPUMS)

# Older women more likely to live with spouse or children than in 1990; older men less likely to live with a spouse, but more likely to live with children

% among **women** ages 65 and older

% among **men** ages 65 and older

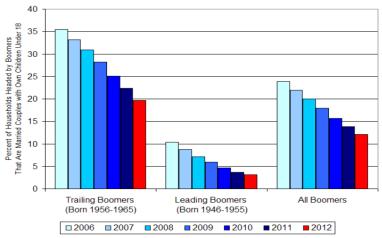


Note: Older adults who are living with a spouse may also be living with children or other relatives or non-relatives. Unmarried adults include those who are separated, divorced, widowed, have never been married or married, but the spouse is absent from the household. Older adults living alone reside in a household. The share living alone is based on the total population ages 65 and older.

Source: Pew Research Center (2016)

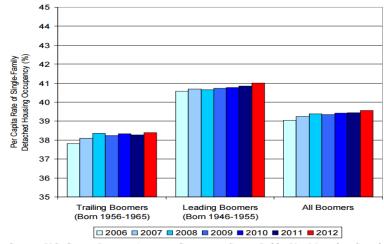
# **BOOMERS "AGING IN PLACE"**

Exhibit 1. The Nuclear Family Household Has Become Much Less Common Among Boomers



Source: U.S. Census Bureau, American Community Survey Public Use Microdata Sample

Exhibit 2. So Far, Boomers Are Staying in Single-Family Detached Homes



Source: U.S. Census Bureau, American Community Survey Public Use Microdata Sample

BOOMERS' FAMILIES
ARE GETTING
SMALLER...

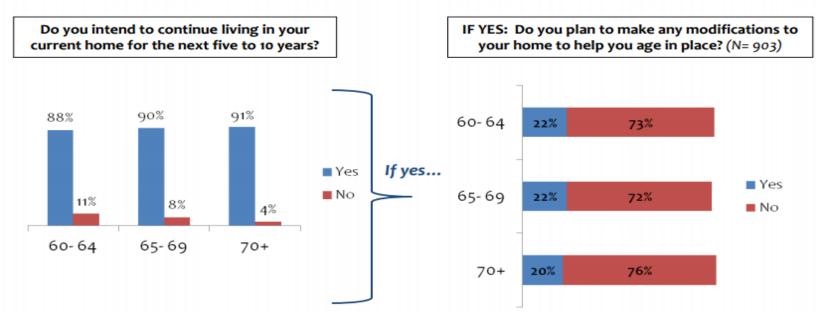
Source: AARP (2012)



BUT THE SHARE LIVING
IN SINGLE-FAMILY
DETACHED HOMES IS
UNCHANGED

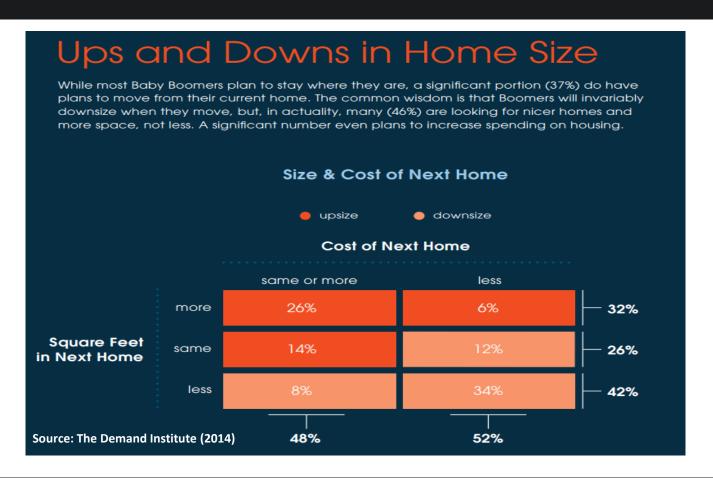
# **BOOMERS "AGING IN PLACE"**

 Close to nine in 10 older Americans intend to continue living in their current homes for the next five to 10 years



Source: AARP (2012)

# **BOOMERS "AGING IN PLACE"**



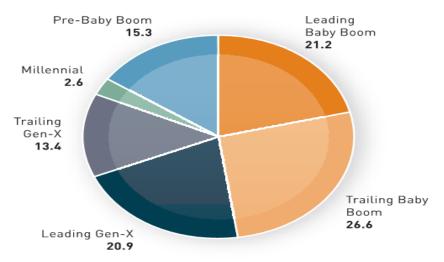
## The Rebound in Homeowner Improvement Spending Has Lifted the Remodeling Market Back Near \$300 Billion

Billions of Dollars



# The Baby Boomers Continue to Dominate Spending, While Millennials Still Account for Only a Small Share of the Market

Share of Improvement Spending by Generation (Percent)



Homeowner Spending in 2013 = \$192 Billion

Source: Joint Center for Housing Studies at Harvard University (2015)

Notes: The pre-baby boom generation was born before 1945, leading baby boom in 1945–54, trailing baby boom in 1955–64, leading gen-X in 1965–74, trailing gen-X in 1975–84, and millennial in 1985–2004. Tabulations use JCHS-adjusted weights.

Source: Table A-3.

### Owners in Coastal Metro Areas Generally Spend More on Improvements



#### THE WALL STREET JOURNAL.

WSJ.com

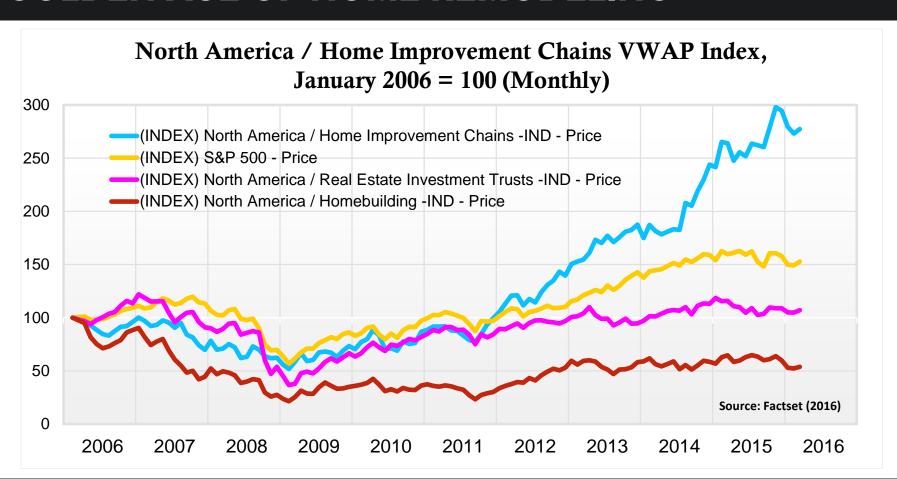
LIFE & CULTURE Updated March 19, 2013, 10:01 p.m. ET

# The Ultimate Play Room ... at Grandma's House

By ALINA DIZIK

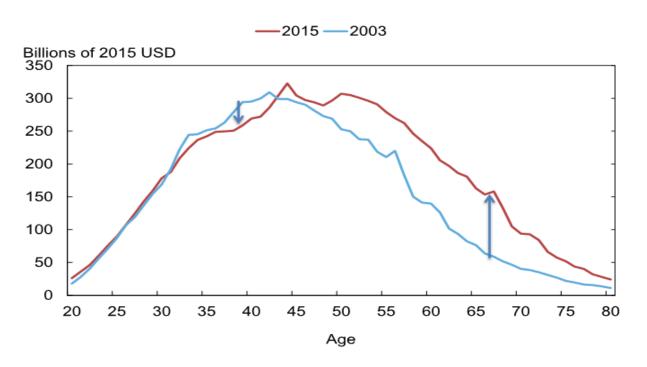


Alina Dizik and interior designer Marlene Oliphant take a look at the fancy bedrooms and play spaces some couples are creating for their grandchildren. Photo: Pottery Barn Kids.



### The Graying of American Debt

Age distribution of aggregate U.S. consumer debt, 2003 v. 2015

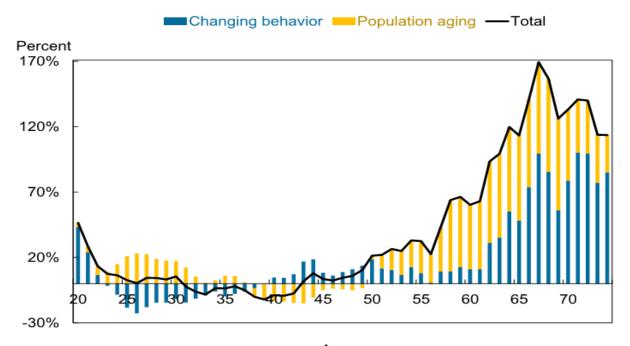


Age 39: aggregate debt fell by 12%

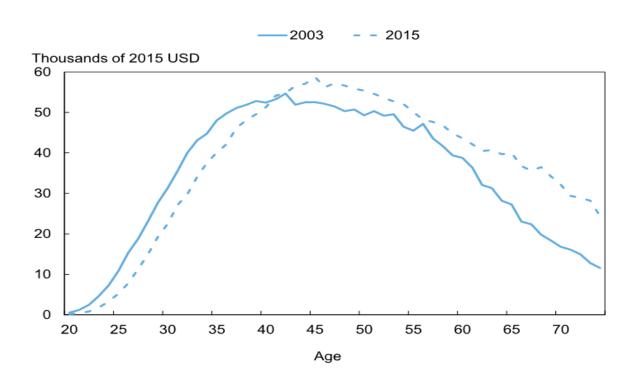
Age 67: aggregate debt grew by 169%

### Population Aging or Changing Behavior?

Percentage change in aggregate debt by age, 2003 to 2015



## Loan Types Over the Lifecycle: Home-secured debt Mortgage + home equity debt balance per U.S. resident

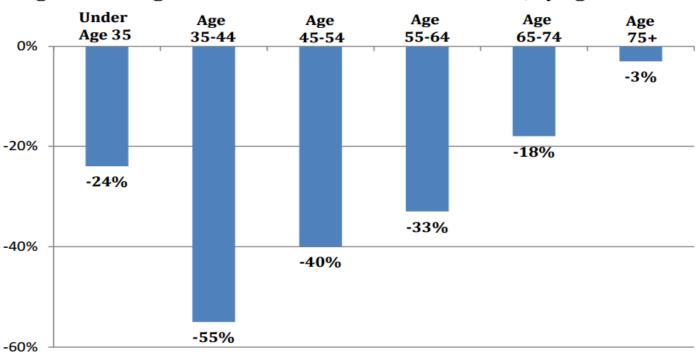


### 2003-2015 change in real per capita debt by type

Debt type	Age 30 \$	Age 30 %	Age 65 \$	Age 65 %
Home-secured	-\$8,195	-28%	+\$11,191	+47%
Credit card	-\$1,121	-36%	-\$11	0%
Auto Ioan	-\$292	-6%	+\$1,102	+29%
Student loan	+\$6,912	+174%	+\$857	+886%

### **GEN X IN TROUBLE**

Figure 9: Change in Real Median Household Net Worth, by Age: 2007 to 2010



Source: SCF, Fed Bulletin (2007 and 2010)

### **GEN X IN TROUBLE**

under age 34 1983 □ age 35-44 ■ age 45-54 ■ age 55-64 1995 ■ age 65-74 ■ age 75+ Age 75 + Age 35-44 2013 \$0 \$50,000 \$100,000 \$150,000 \$200,000 \$250,000 2013 Dollars \* All series deflated to 2013 dollars with CPI-U-RS Source: SCF, Fed Bulletin (2013 and earlier years);

Figure 5: Real Median Family Net Worth, by Age: 1983 to 2013\*

### **GEN X IN TROUBLE**

Figure 7: Average Net Worth and Composition of Assets and Liabilities of the Middle 60 Percent of the Wealth Distribution by Select 10-Year Age Groupings: 1989 and 2013\*

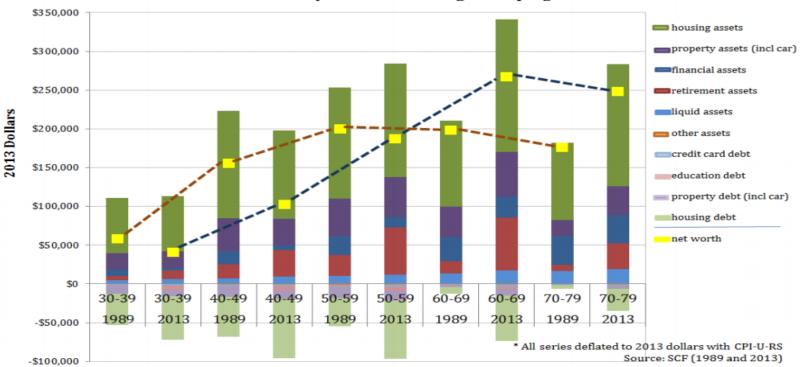
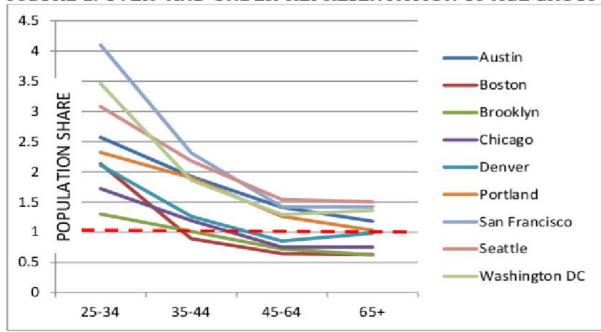


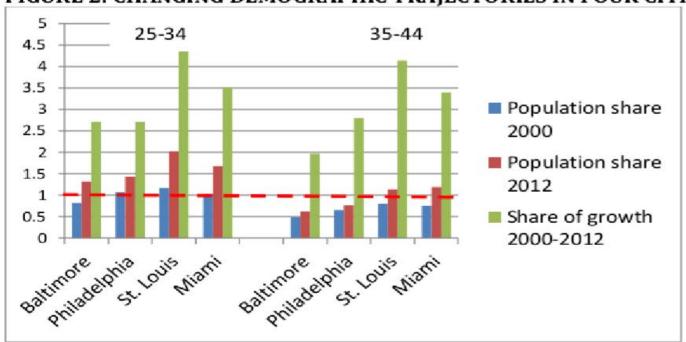
FIGURE 1: OVER- AND UNDER-REPRESENTATION OF AGE GROUPS IN MAGNET CITIES



Age groups above the dotted red line are over-represented and below the dotted red line are underrepresented in the city's population

Source: Center for Community Progress (2014)

FIGURE 2: CHANGING DEMOGRAPHIC TRAJECTORIES IN FOUR CITIES



Source: Center for Community Progress (2014)

Age groups above the dotted red line are over-represented and below the dotted red line are underrepresented in the city's population

APPENDIX	APPENDIX TABLE 1: DEMOGRAPHIC RATIOS FOR MAGNET CITIES												
		Austin	Boston	Brooklyn	Chicago	Denver	Portland	San Francisco	Seattle	Washington DC			
25-34	Share 2012	2.57	2.13	1.30	1.72	2.11	2.32	4.10	3.08	3.46			
	Share 2000	2.53	1.81	0.94	1.33	1.54	1.95	3.53	2.91	2.31			
	Growth share	2.83	5.15	2.64	2.65	4.31	3.48	9.27	3.29	8.09			
35-44	Share 2012	1.92	0.89	1.01	1.19	1.26	1.90	2.31	2.18	1.86			
	Share 2000	1.65	0.81	0.75	0.84	0.91	1.41	1.85	1.84	1.39			
	Growth share (see note)	3.31	GAIN	GAIN	3.58	3.34	3.44	5.41	4.34	5.68			
45-64	_												
45-64	Share 2012	1.41	0.64	0.72	0.75	0.85	1.26	1.42	1.54	1.29			
	Share 2000	1.4	0.68	0.69	0.73	0.91	0.86	1.46	1.50	1.46			
	Growth share	1.49	0.58	0.81	0.61	0.64	1.13	1.13	1.52	0.88			
65+	Share 2012	1.18	0.63	0.62	0.75	0.98	1.03	1.42	1.50	1.36			
	Share 2000	1.18	0.68	0.62	0.79	1.25	1.01	1.48	1.45	1.56			
	Growth share	1.21	0.60	0.63	0.60	0.71	1.01	1.24	1.49	1.09			
	KEY TO COLORS	Absolute Loss  NOTE: both Massachusetts and New York State lost college-educated 35-44 year olds between 2000 and 2012, while Boston gained slightly and Brooklyn gained substantially in this demographic. For this reason it is impossible to calculate a ratio, and the growth share is simply shown as 'gain'											
		0.75- 1.24											

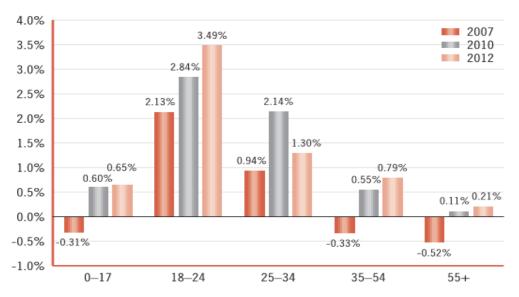
1.25-

1.99

Source: Center for

**Community Progress (2014)** 

# Annual Net Migration Rates by Age Group as Percent of Population Greater Boston 2007–2012



Source: 3-Year samples of the American Community Survey: 2005–2007, 2008–10, and 2010–12.

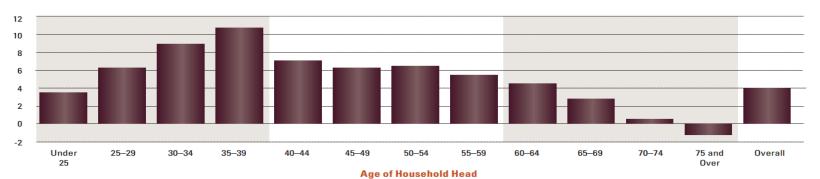
Note: Net migrant share of population is calculated by dividing the number of net migrants in a specific age group in year t by the population of the age group in year t-1.

Source: The Boston Foundation (2014)

### MILLENNIALS & XERS, FROM BUYING TO RENTING

#### Renting Has Increased Sharply Across Most Age Groups...

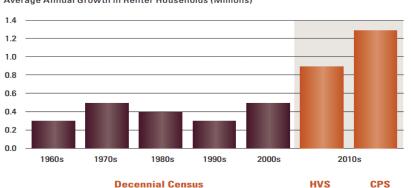
Change in Share of Households Renting 2004-2013:2 (Percentage points)



Source: JCHS tabulations of US Census Bureau, Housing Vacancy Surveys.

### ...Generating a Surge in Renter Household Growth

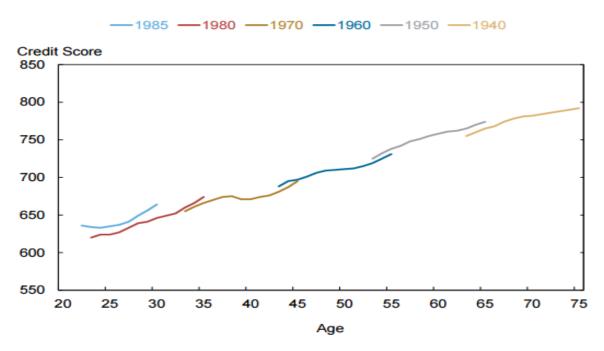
Average Annual Growth in Renter Households (Millions)



Source: Joint Center for Housing Studies at Harvard University (2015)

### MILLENNIALS & XERS, FROM BUYING TO RENTING

## Median Equifax Credit Score by Age, 2003-2015 Data for six decennial\* birth cohorts

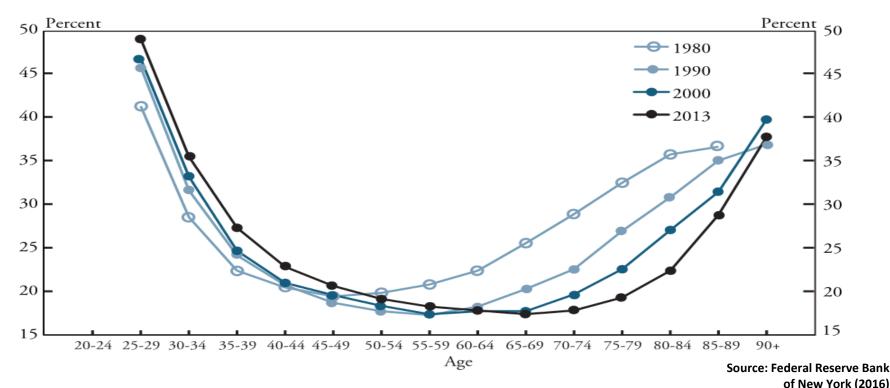


Source: Federal Reserve Bank of New York (2016)

Source: New York Fed Consumer Credit Panel / Equifax

### MILLENNIALS & XERS, FROM BUYING TO RENTING

### Share of Households in Multifamily Units



Sources: Census Bureau, Ruggles, and author's calculations.



5. SUMMARY & (PERSONAL) TREND FORECASTS

### **LONG-TERM OUTLOOK**

- Basic long-term message: Re-gear your quantitative forecasts.
  - The consensus medium/long projections for housing construction are TOO HIGH. Actual demand for new housing units/year in 2015-2020 is more likely to be nearer to 1.0 million than to 1.5 million.
  - As time passes (2015, 2020, 2025...), the gap between consensus & actual demand widens.

These changes are driven mainly by demographic fundamentals.

### **OVERALL TRENDS OUTLOOK**

- Further reflections on long-term qualitative shifts
  - Rental over ownership
  - P-to-P rental over "ordinary" rental
  - Multi-unit over single-home preference
  - Small units over large
  - Inner suburbs/urban over exurbs/rural

 These changes are driven mainly by generational preferences and social trends.

### MORE ON OWNER-OCCUPIED TO RENTAL

The <u>rise of rental units</u> at the expense of owner-occupied units represents <u>a</u>
 <u>long-term shift</u> that will not end with full economic recovery.

- Macroeconomic drivers:
  - Risk-aversion by lenders & "macro-prudential" regulatory environment
  - Less job security & fewer assets among young adults and new retirees
  - Growing generic youth preference for "rentals" & aversion to real estate as a risky investment

### **MORE ON EXURBIA AND RURAL**

- Get ready for <u>accelerating golden age of home remodeling</u>, with epicenter in McMansioned exurbia.
- Prepare for <u>ongoing decline in HH unit demand in rural America</u>. Yet demand for rural hospitality and entertainment will stay robust, especially at the high end.
- Main driver: Boomers aging in place close to jobs and families with fewer moving to rural retirement.

### **MORE ON URBAN AND INNER SUBURBAN**

- Collective preference of Millennials will continue driving:
  - Multi-unit over single-home construction.
  - Small units (micro-apartments) over large.
  - > 5 to 15 year regional growth trend in descending order:
    - Inner Suburb
    - Core Urban
    - Outer Suburb
    - Rural

<u>Fastest price hikes</u> and <u>most unit-downsizings</u> in regulated, big-brand coastal hubs.

FOR MORE INFORMATION, CONTACT US AT:

# SALES@HEDGEYE.COM (203) 562-6500