



2017 Economic, Demographic and Technological Realities

James W. Hughes Ph.D.





1st 10 Minutes







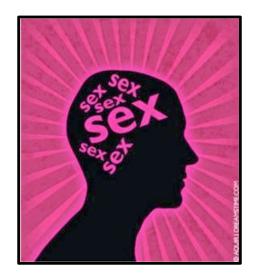
2nd 10 Minutes

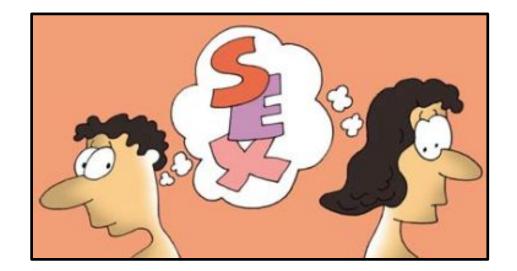






3rd 10 Minutes











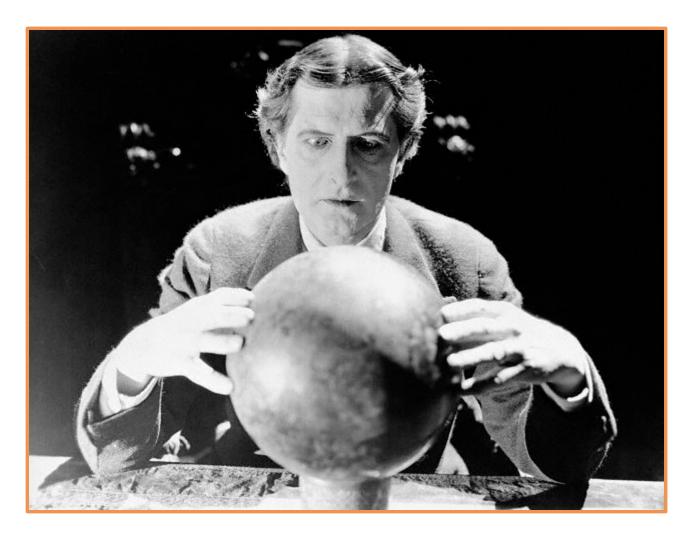


Dr. Kevorkian









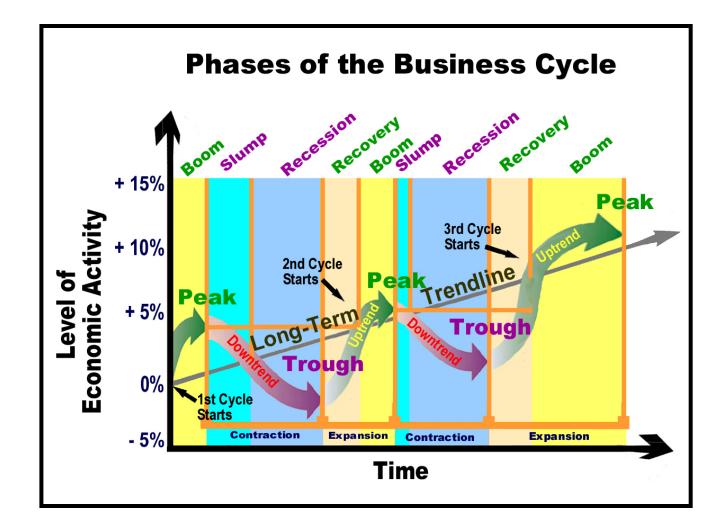




The Current Cyclical Status of the United States Economy

Technology- and Demographically-Driven Structural Changes/ Disruptions





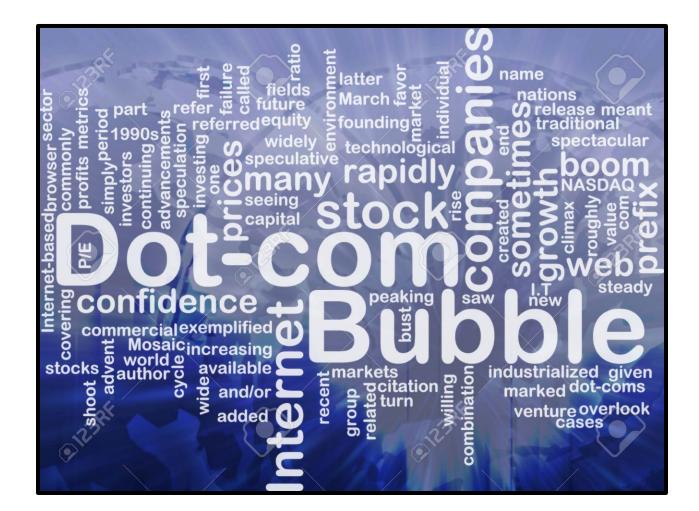




National Business Cycle Phases

(Great) Expansion:	March 1991 – March 2001 <u>120 months in length</u>
Recession:	March 2001 – November 2001 <u>8 months in length</u>
Expansion:	November 2001 - December 2007 <u>73 months</u> in length
(Great)Recession:	December 2007 - June 2009: <u>18 months</u> in length









Dot-Com **→** Dot-Bomb



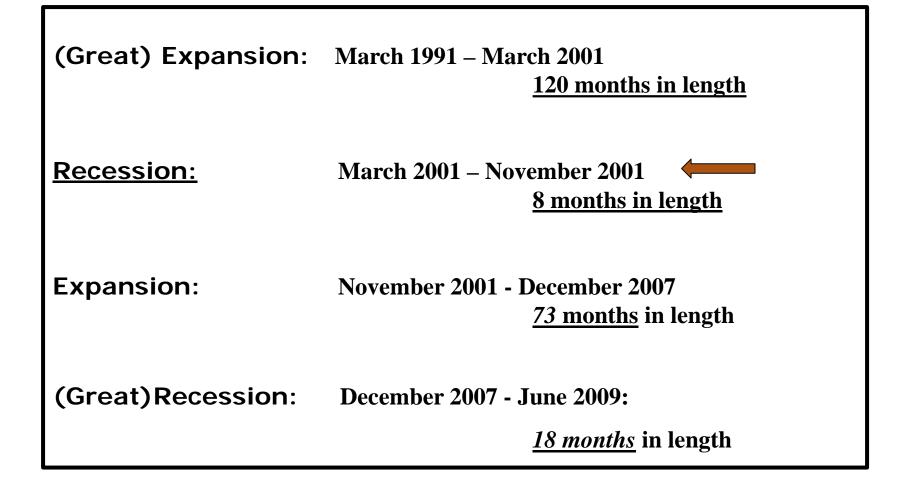








National Business Cycle Phases







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(Great) Expansion:	March 1991 – March 2001 <u>120 months in length</u>
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Unprecedented Housing Bubble







The Bursting of the Great Housing Bubble







Staring into the Economic Abyss







National Business Cycle Phases

(Great) Expansion:	March 1991 – March 2001 <u>120 months in length</u>
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Expansion:	November 2001 - December 2007 <u>73 months</u> in length
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Flying Saucer







Abducted by Aliens







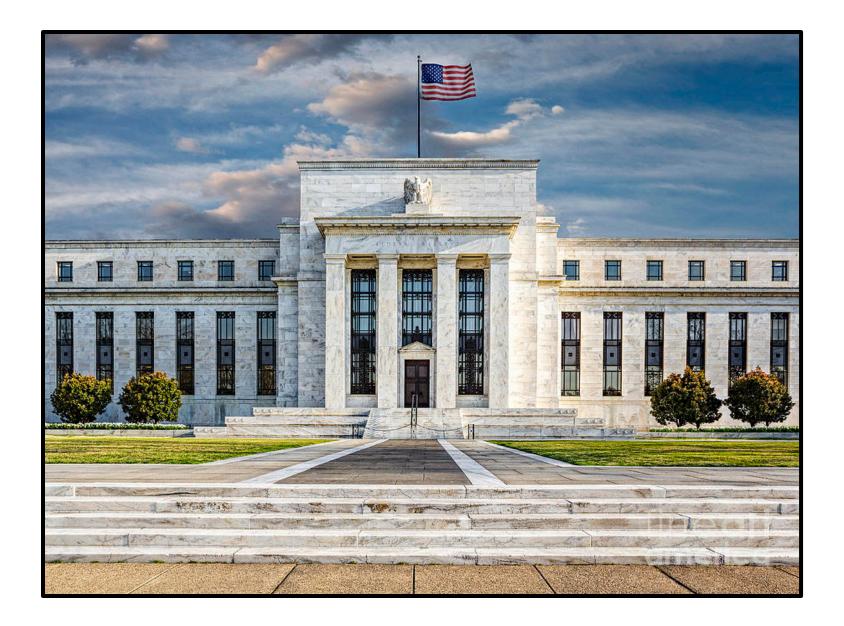
The Current Expansion

June 2009 – September 2017 99 Months in Length

Average Length of Post-World War II Expansions <u>58 Months</u>











The Expansion Assassin/Terminator







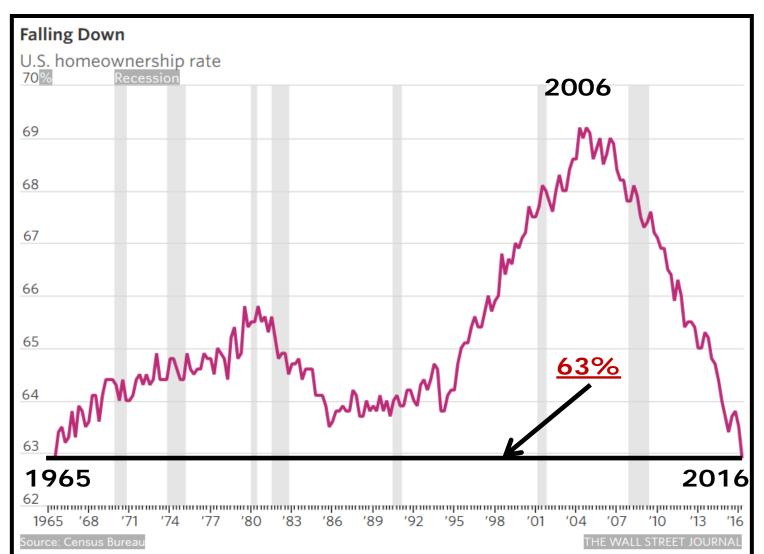
The Great 2006-2016 Homeownership Rate Plunge







The Great 2006-2016 Homeownership Rate Plunge







Growth in US Households: 2006-2016

Total Household Growth +7.6 million

- Owner Households -1.1 million
- Renter Households +8.7 Million





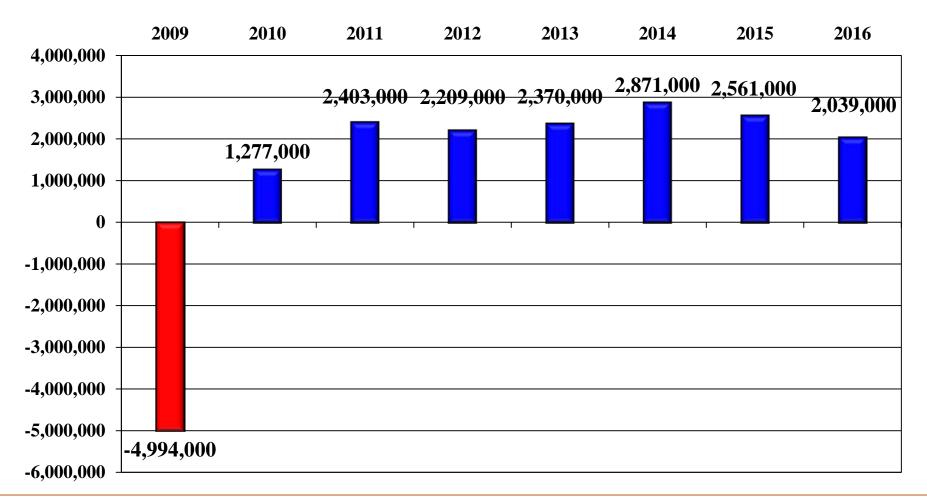
The Current (2009-2017) Economic Expansion





U.S. Private-Sector Employment Change, 2009-2016

(Source: U.S. Bureau of Labor Statistics. Note: Employment change measured from December to December, seasonally adjusted.)



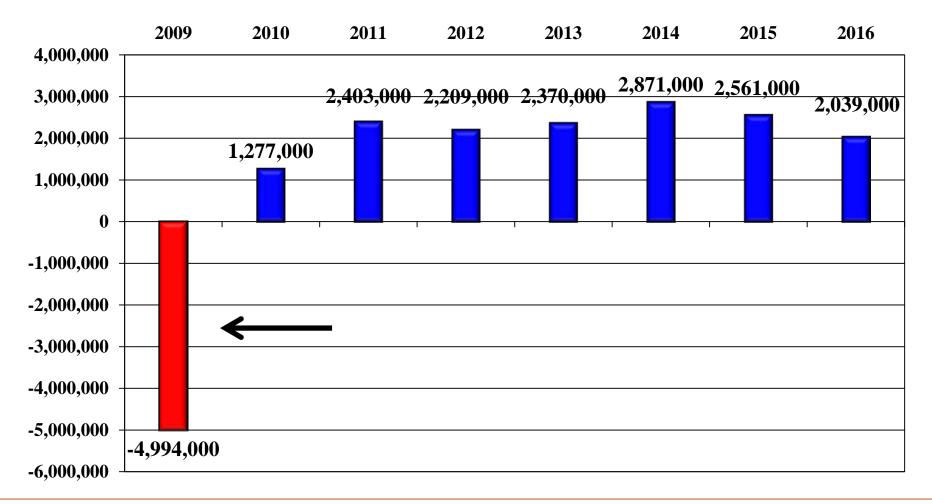
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U.S. Private-Sector Employment Change, 2009-2016

(Source: U.S. Bureau of Labor Statistics. Note: Employment change measured from December to December, seasonally adjusted.)



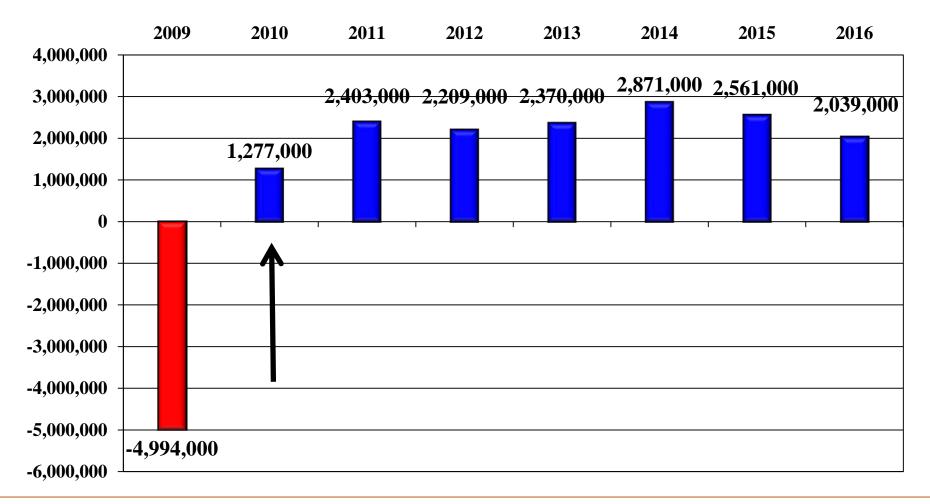
© 2007—2017, Rutgers, The State University of New Jersey





U.S. Private-Sector Employment Change, 2009-2016

(Source: U.S. Bureau of Labor Statistics. Note: Employment change measured from December to December, seasonally adjusted.)

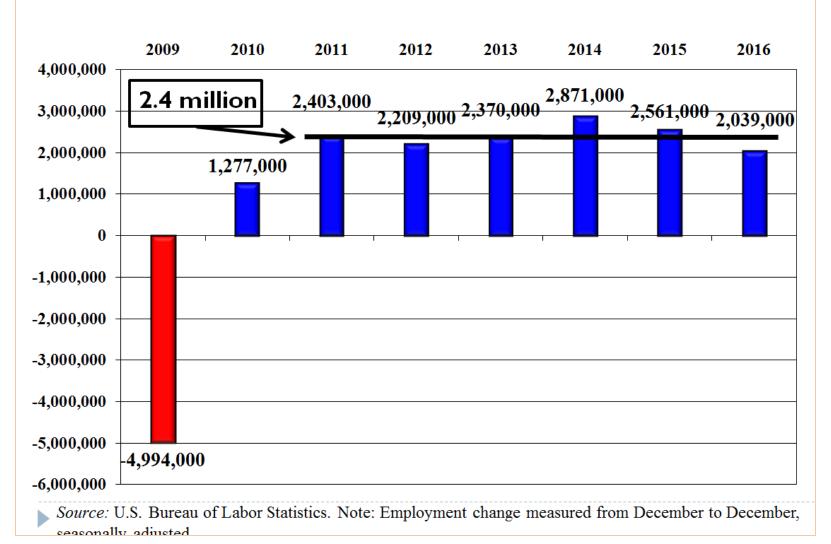


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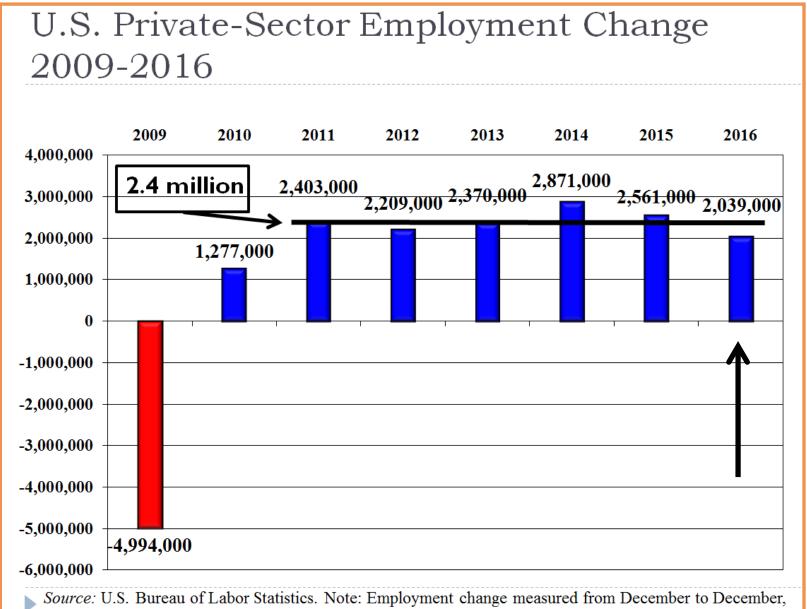


U.S. Private-Sector Employment Change 2009-2016









seasonally adjusted





U.S. Job Openings: 2007-2017 (numbers in thousands)

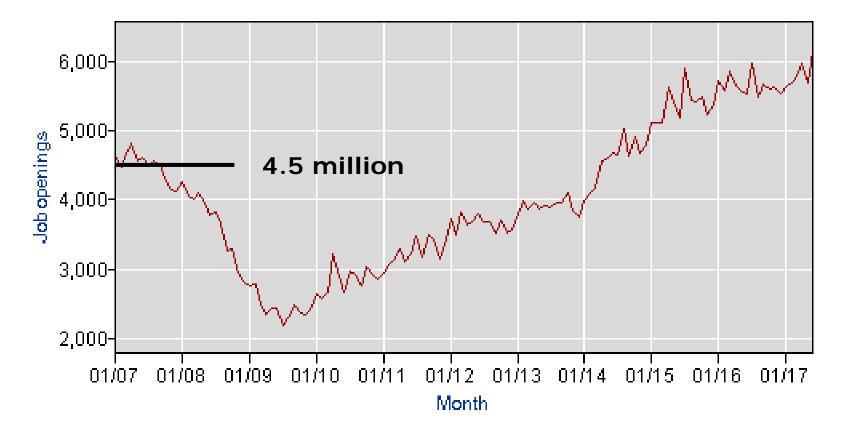


Source: Bureau of Labor Statistics - JOLTS





U.S. Job Openings: 2007-2017 (numbers in thousands)

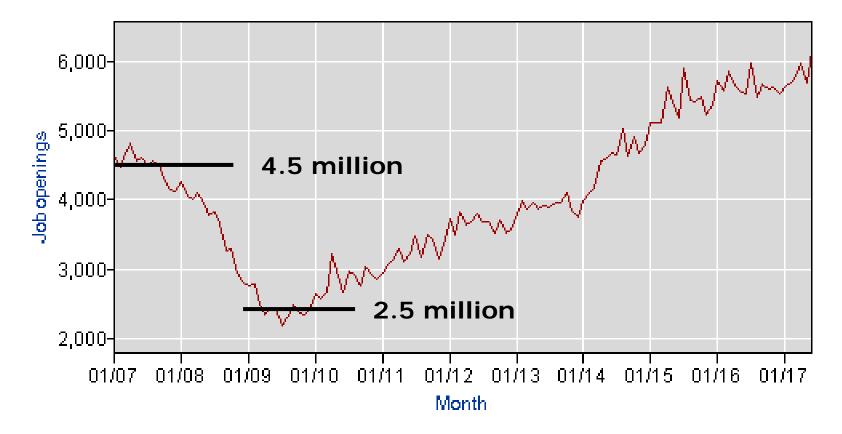


Source: Bureau of Labor Statistics - JOLTS





U.S. Job Openings: 2007-2017 (numbers in thousands)

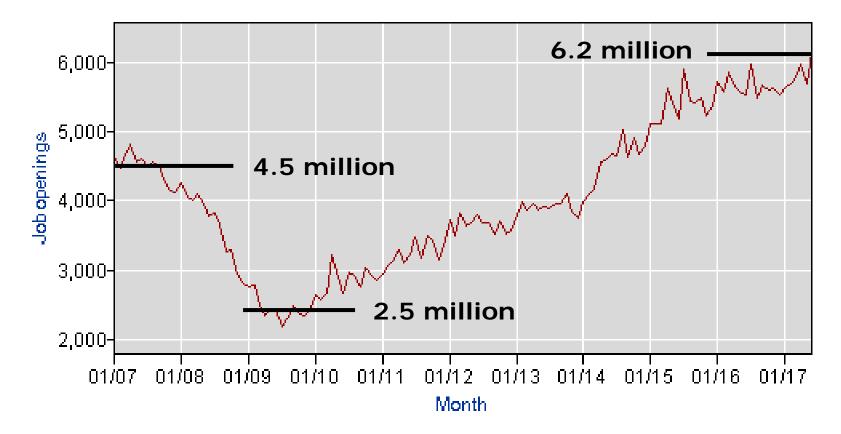


Source: Bureau of Labor Statistics - JOLTS





U.S. Job Openings: 2007-2017 (numbers in thousands)

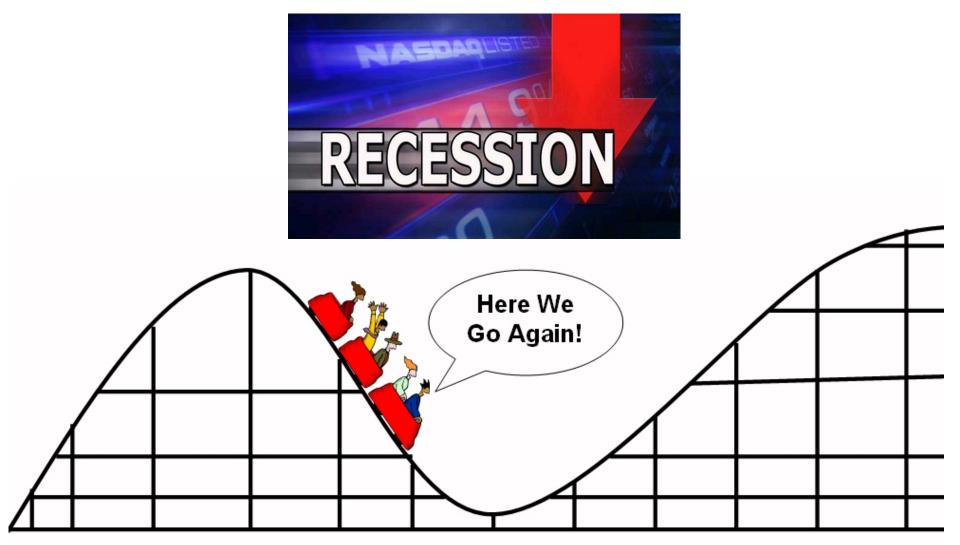


Source: Bureau of Labor Statistics - JOLTS





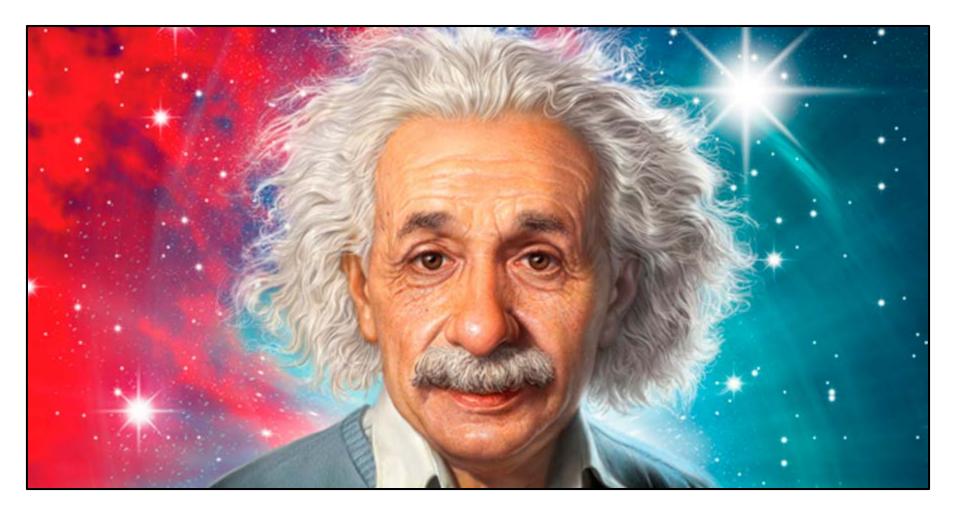
At Some Point in the Future: Here We Go Again





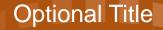


Albert











Fundamental Disruptions to 20th Century Assumptions and Protocols





Second Half of 20th Century

Demographic

Paradigm Shift

First Half of 21st Century





2017 Age-Defined Demographic Long Waves

BABY BOOM – Redefining Maturity (b. 1946-1964)

<u>GEN X</u> – The Baby Bust, Now Raising Families and Advancing to the Topline Workforce (b. 1965-1979)

<u>GEN Y</u> – Millennials Redefining the Workforce/ Workplace, and Residence Place (b. 1980-2000)



Inter-Generational Workplace Tensions







The Fabled Baby Boom





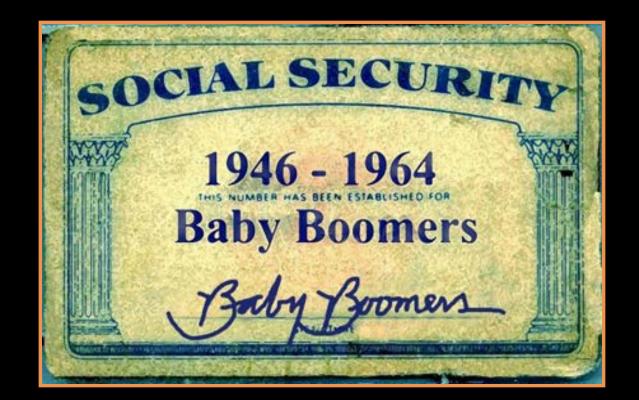
1945: GI Joe & Rosie the Riveter Got Together 1946: Births Erupted







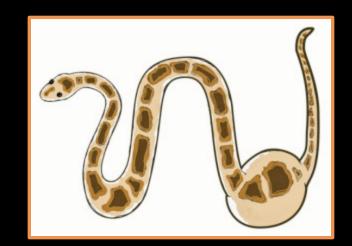
The Largest Generation in U.S. History







Baby Boom Pig in the Demographic Python













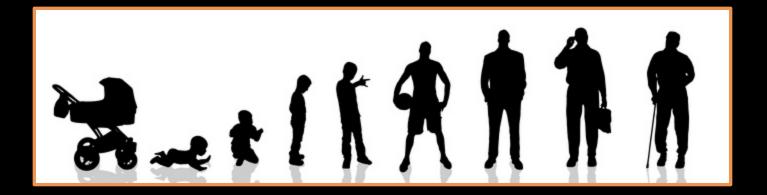
Tract-House Suburban America







Life Cycle Stages







McMansion







Serious Middle-Aging







Empty-Nesters Resizing in the Housing Market







2017: The Great Calamity

First Boomers are turning 71 years of age

All Boomers will be between 53 and 71 years of age

More than 1/2 of all Boomers will be in their 60s





Dropped Acid







Dropping Ant-Acids







Now a Back-Seat Passenger







We Will Not Go Away Quietly!







Fading Away





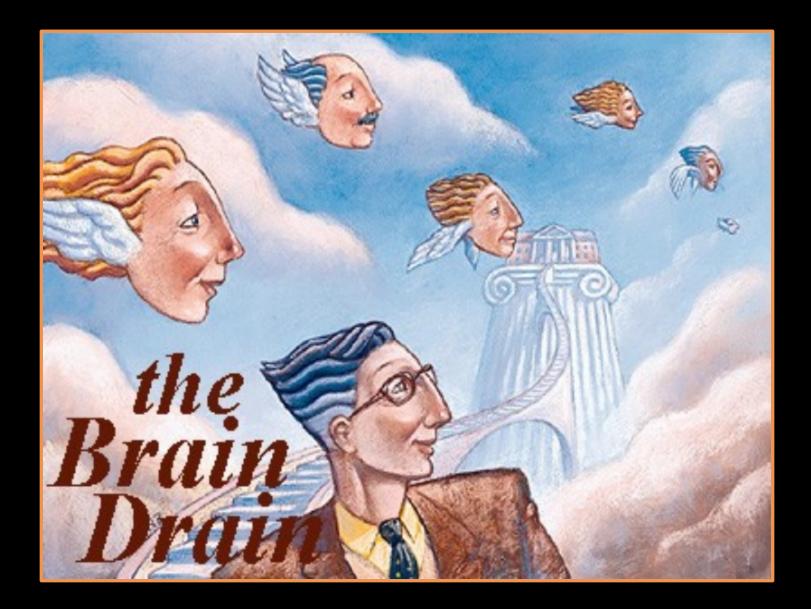


A Lifetime of Cognitive Skills













Baby Boom Knowledge Retention



















Baby Bust (1965-1979)













2017 GEN X

38 to 52 Years of Age

Family Raising

Entering Top-Line Workforce





Passing the Leadership Baton











GENY/Millennials (1980-2000)





The Invasion of the Stroller People







At Birth: First Digital Generation





Today (2017): 17 to 37 Years of Age







We Want 24-7 LWP Environments













Then: Baby Boomers Fleeing From Industrial Jersey City







Now: Millennials Flocking To Postindustrial Jersey City







Sprawl Withdrawal







Digerati





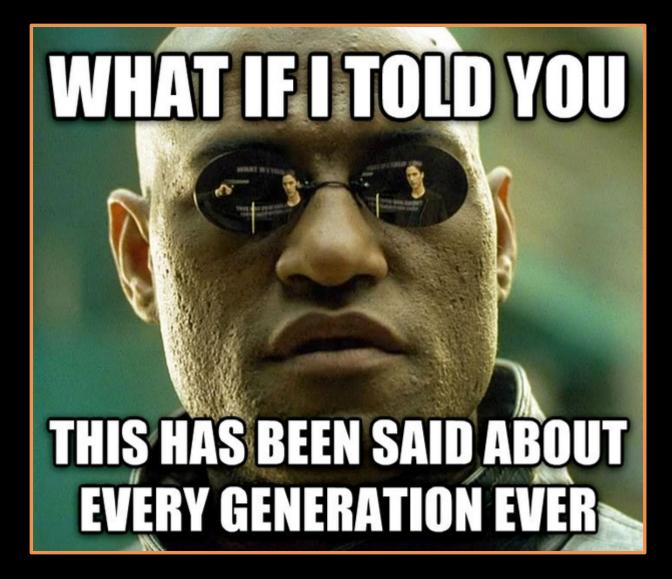


Millennials at Work





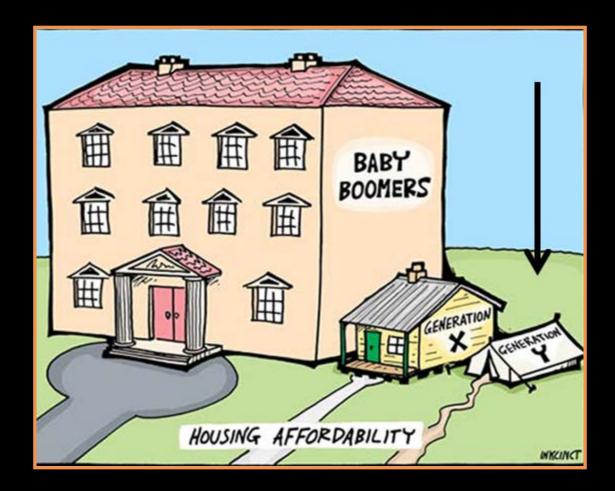








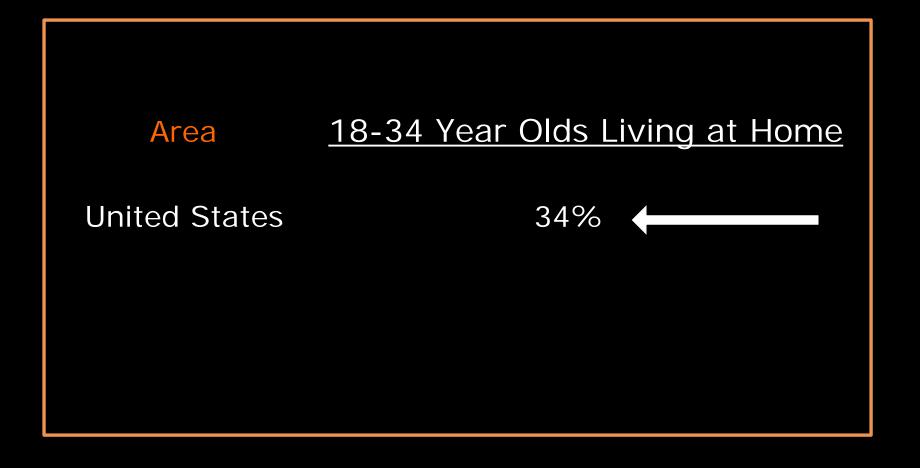
Millennial (Gen Y) Housing Buying Power







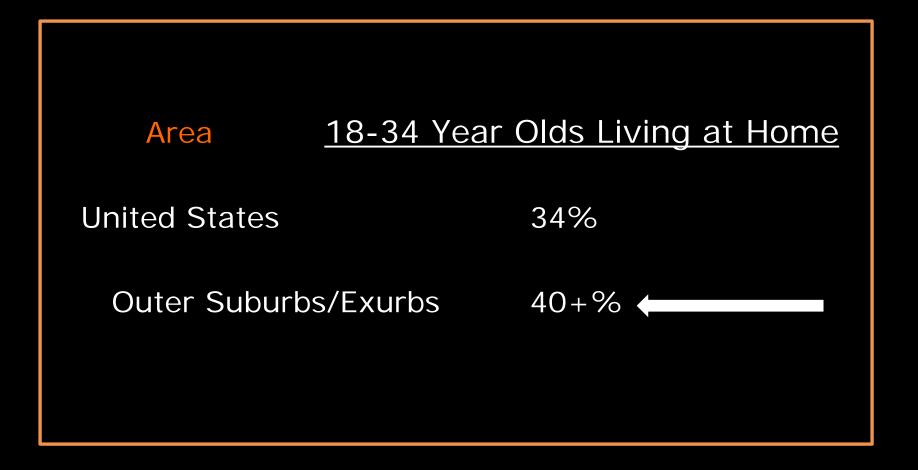
Adult Children Living With Parents (2015)







Adult Children Living With Parents (2015)







Two Types of Adults Left

The Not Yet Wed





Two Types of Adults Left

The Not Yet Wed And The Nearly Dead

















2017: The Era of Family-Raising Millennials is Commencing

Can We Forecast Their Shelter and Locational Choices?







Future Millennial (Gen Y) Shelter Preferences?







I Don't Want Your Stuff!



Source: NorthJersey.com





Lifetime Accumulated Treasures or Dumpster Material







Treasures' Final Resting Place?





Second Half of 20th Century

Demographic

Paradigm Shift

First Half of 21st Century





A Restructured Economy











The Great 1980s Office Building Boom













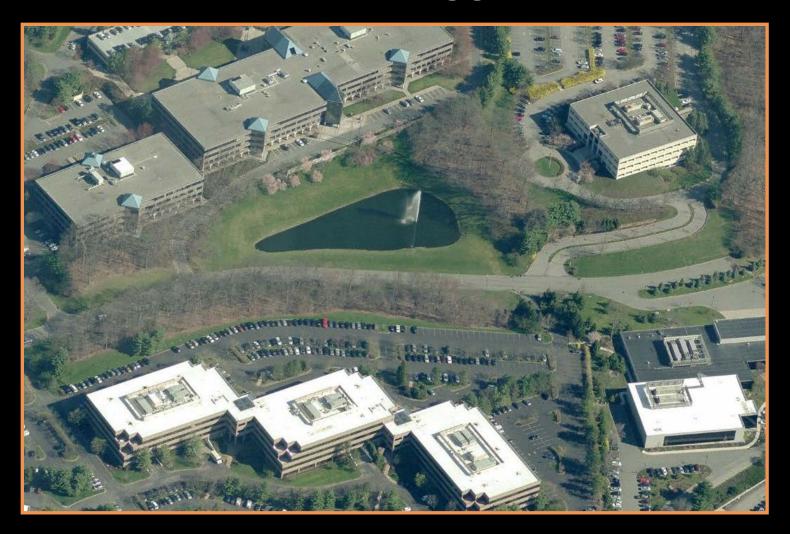
1980's National Bird





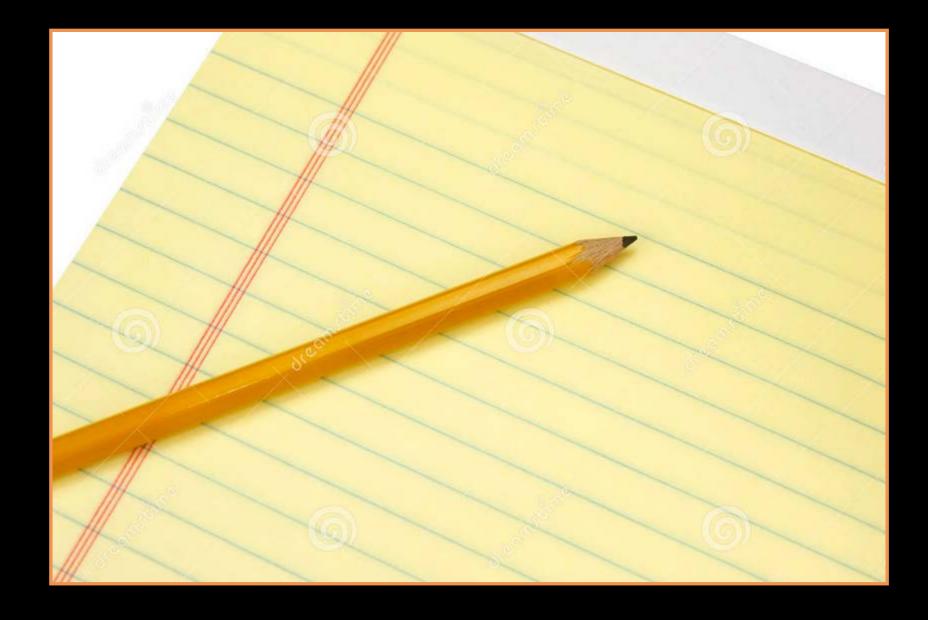


Suburban Office Agglomeration





































4 Key Information Technology Benchmarks

1981:	IBM PC
1985:	80386 Microprocessor
1995:	Pentium Microprocessor
2007:	Pentium 4



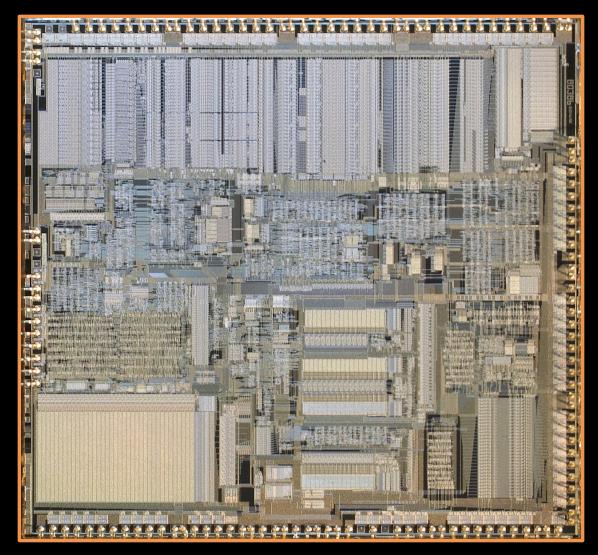






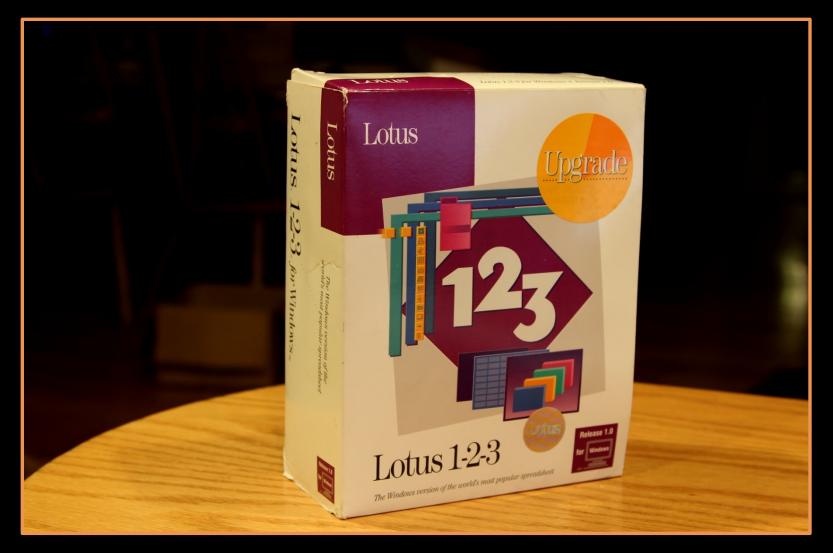


386 Microprocessor













1995: PC Intense/Fiber Optic

Pentium-Pro Based PC and the Internet (5.5 Million Transistors)

Windows 95

A New Game Changer





Bill Gates Unveiling Windows 95





















2007

Mobile-Internet-Untethered Era

(Pentium 4 Microprocessor 125 million Transistors)

iPhone Introduced





2007: Steve Jobs Unveiling iPhone







Anyplace is a Workplace









RUTGERS













Merck – White House Station, NJ





















Aetna Construction Completed 1983































DECONSTRUCTION A New Suburban Office Normal?











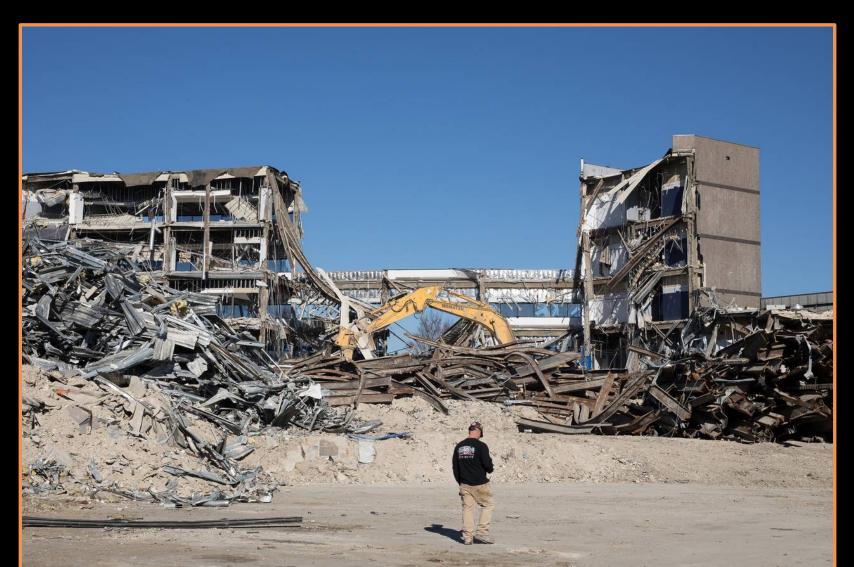
Continental Insurance – Cranbury, NJ







Repurposing Underway





Allstate Corp., South Barrington, Illinois







Late 20th Century State-of-the Art Economic Assets

Early 21st Century Economic Dinosaurs





GE Headquarters – Fairfield, Connecticut







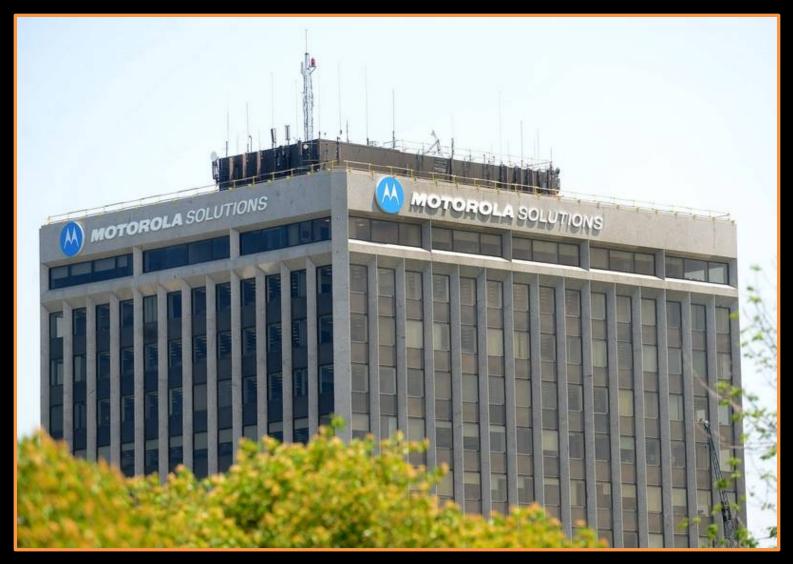
Rendering of Planned GE Headquarters







Schaumburg, Illinois







500 W. Monroe St., Chicago







McDonald's Corporate Campus Oak Brook Illinois







110 N. Carpenter, West Loop, Chicago







McDonald's Vendor Village to House Suppliers







Weyerhaeuser: Federal Way, Washington







Pioneer Square, Downtown Seattle











The New Office-Interior Paradigm





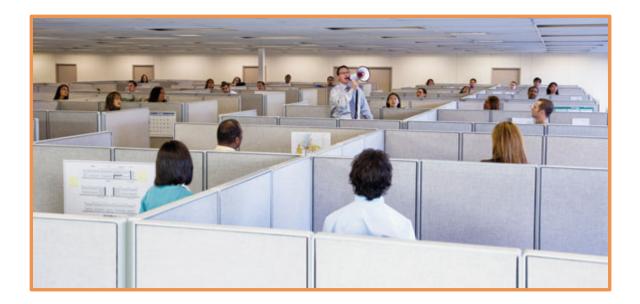
Agile Workplace







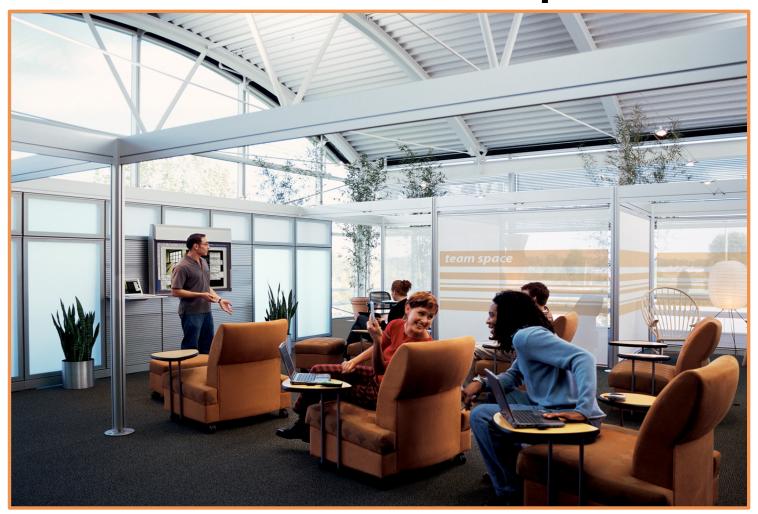
Cubicle Land







Today's Open-Collaborative-Interactive Team Space







Baby Boomers: "Me" Spaces





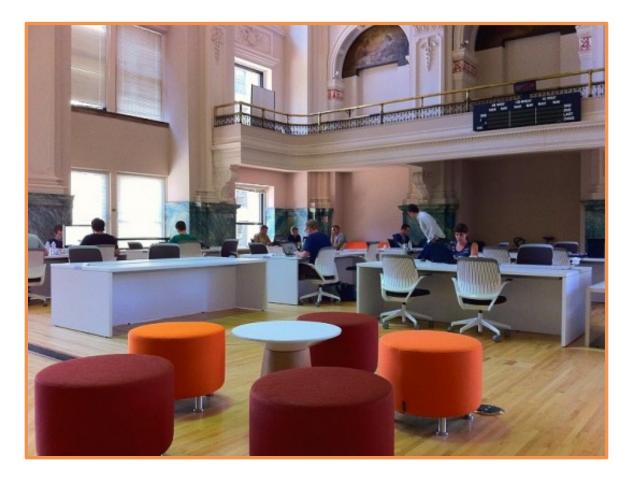
Baby Boom "Me" Space Obsession: How Many Ceiling Tiles Are In My Office?







Quality of Multi-Functional Space & Choice of Work Spaces







Choices 2







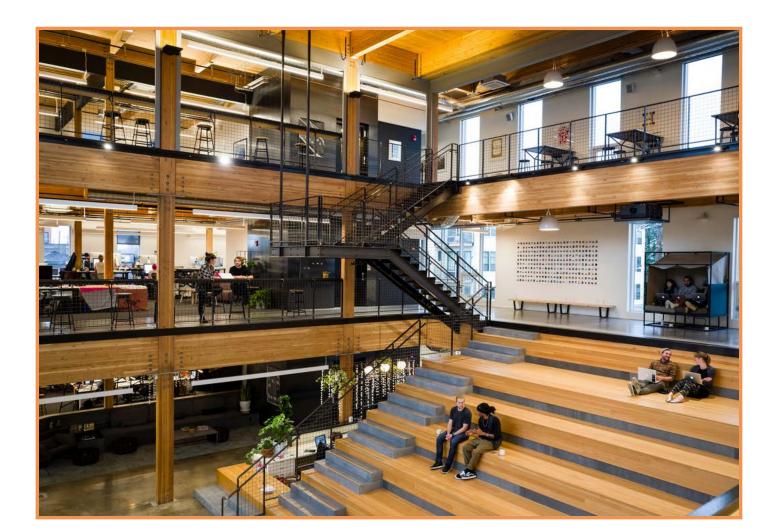
Connect Zone: Collaboration Rooms (Huddle Space/Exchange Space)







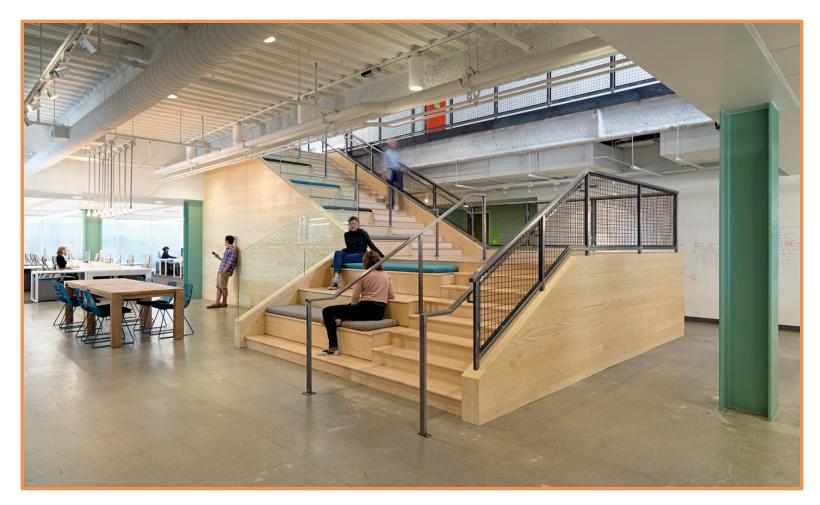
Chance-Interactive







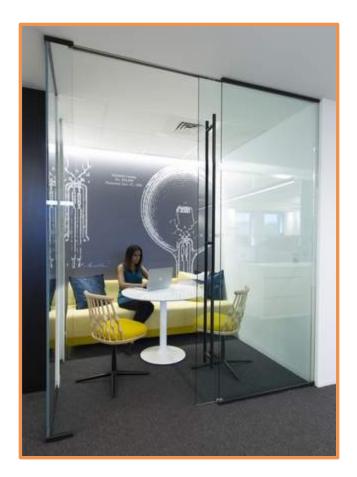
Casual Encounters/Collisions by Design







Focus Zones; Individual Private-Space Tasks







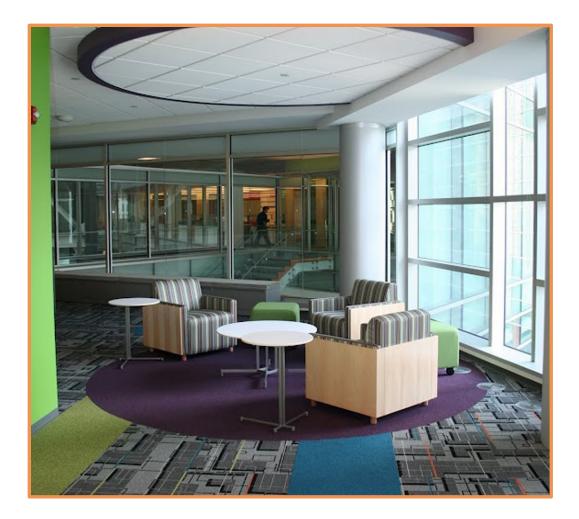
Video-Enabled Collaborative Workspace (Connect Zone)







Working Lounge







Coffee Bar – Kitchen – Vitality Zone







Vitality Zone 2







Sheltered/Open Meeting Space







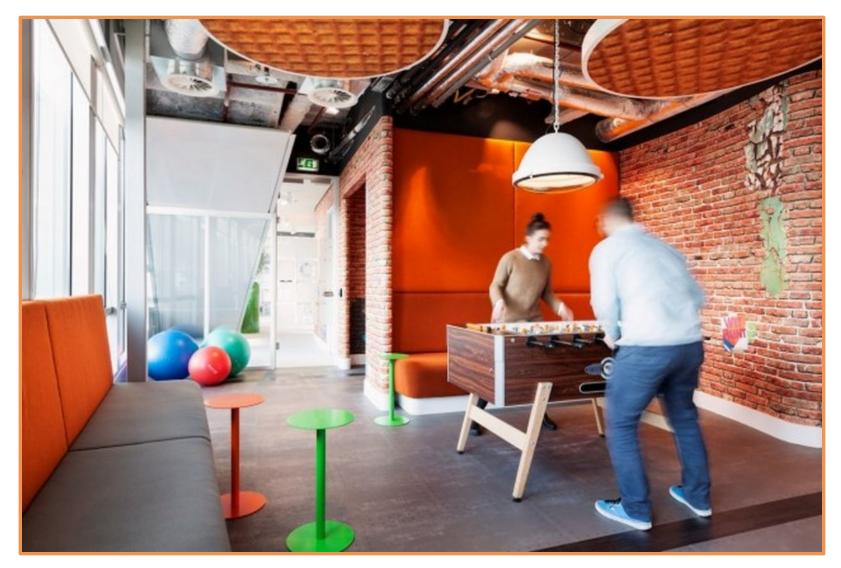
Millennials at Work







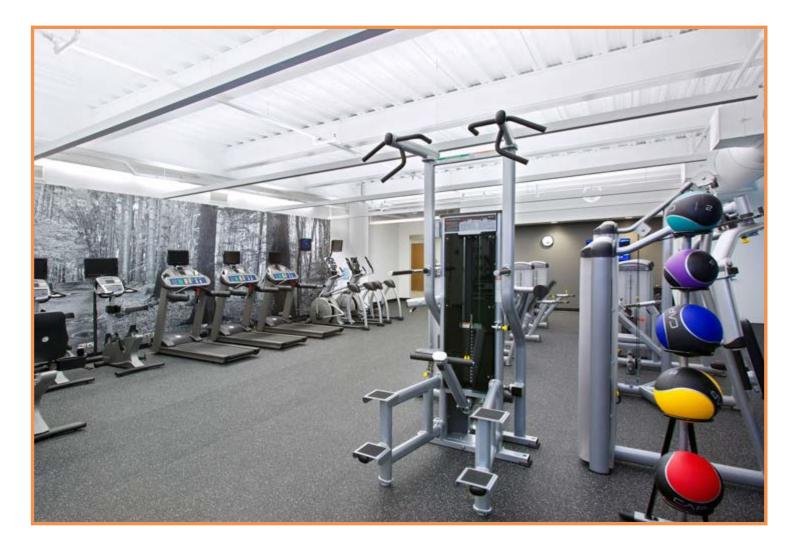
Play Space







Exercise/Health Space





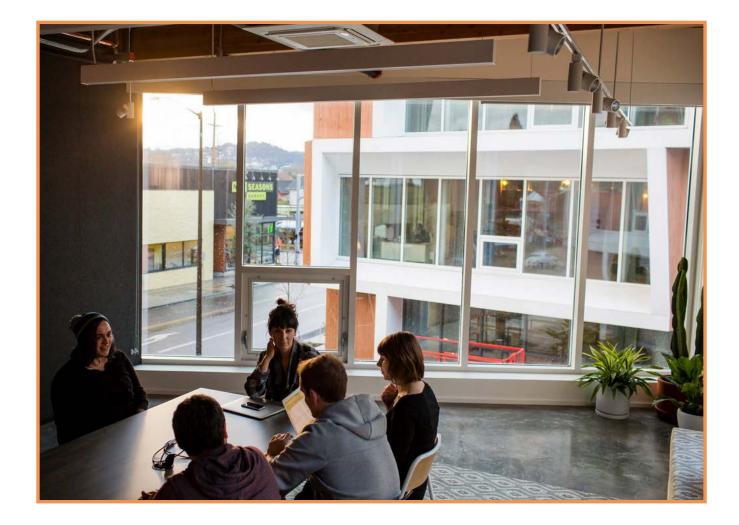


Semi-Edgy



















The Revolution in Retailing and Distribution



































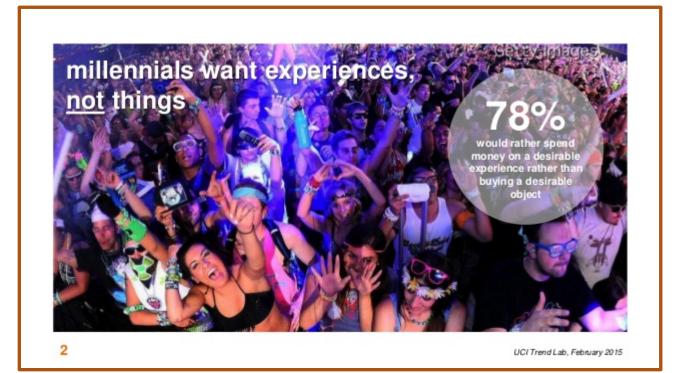
















Figure 18

E-Commerce Share of Retail Online 2016

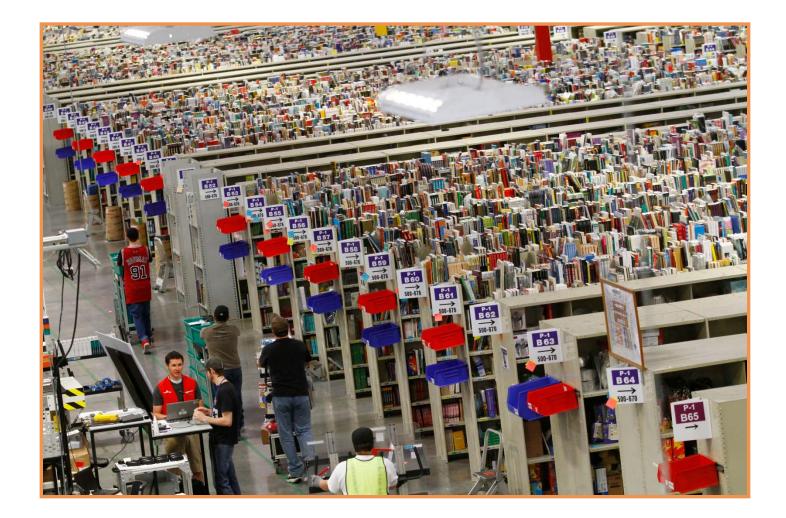


Apparel25%

Books, Music, & Film66%Office Supplies40%Consumer Electonics33%











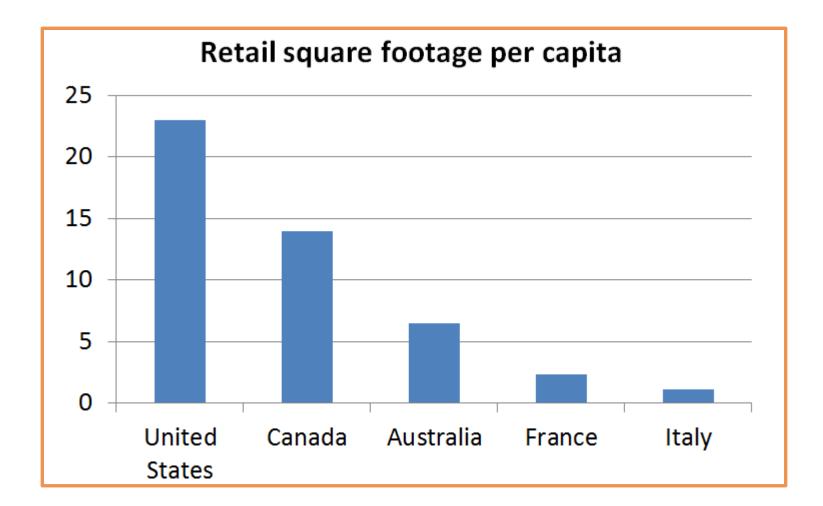
Omni-Channel Retailing













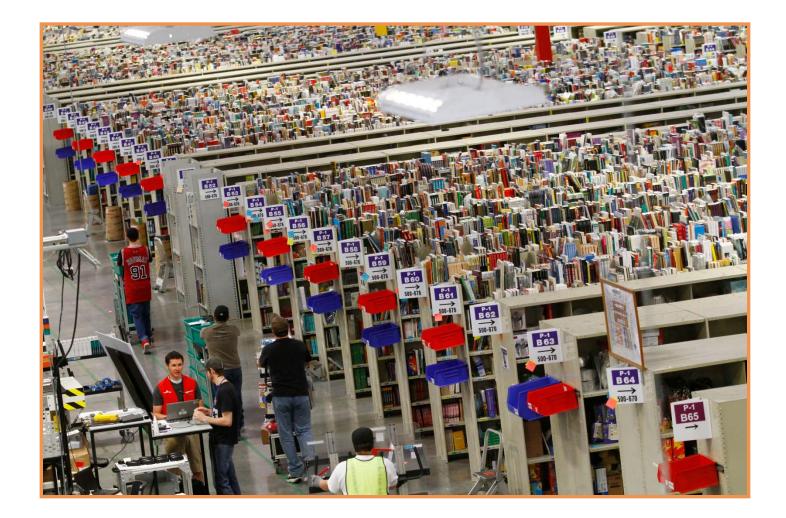


Triple F



































21st Century Fundamental Changes

The Greatest Age-Structure Transformation in History

Ascending Millennial-Driven Demographic & Economic Protocols

Descending 20th Century Baby-Boom Certainties

The Attenuation of the Great Era of Suburbanization and the Emergence of a New Corporate Urbanism

The Emerging New Rail-Centric Skeletal Framework of Residential and Nonresidential Development

Advances in Information Technology (IT), Artificial Intelligence (A.I.), and Machine Learning leading to New Transformational Innovations.









Economic Road Kill



Source: Road Kill Toys











