

# Economic Forces Shaping the Workers Compensation Insurance Industry of Today and Tomorrow

Workers Compensation Educational Conference
Orlando, FL
August 25, 2015
Download at www.iii.org/presentations

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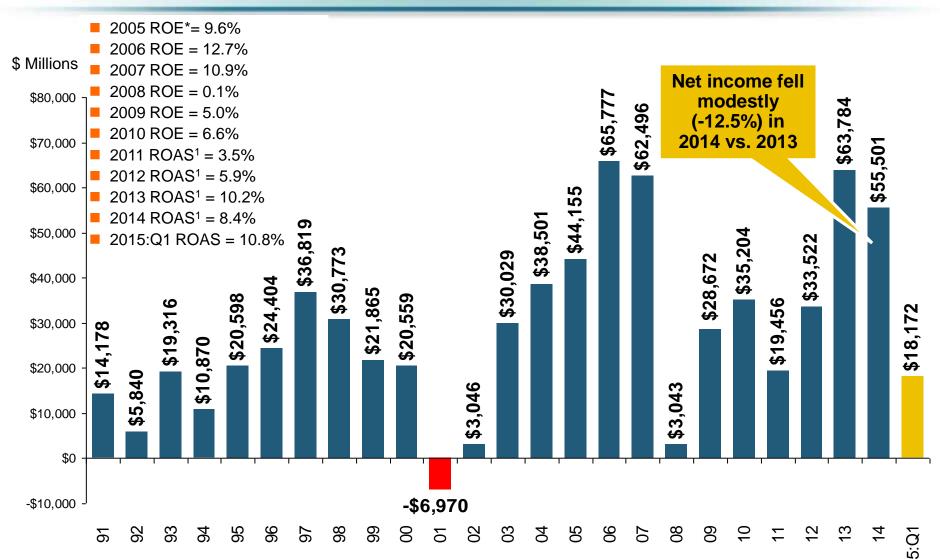


## P/C Insurance Industry Financial Overview

# Reasonably Strong Performance Workers Comp Improvement Helped Too

## P/C Industry Net Income After Taxes 1991–2015:Q1



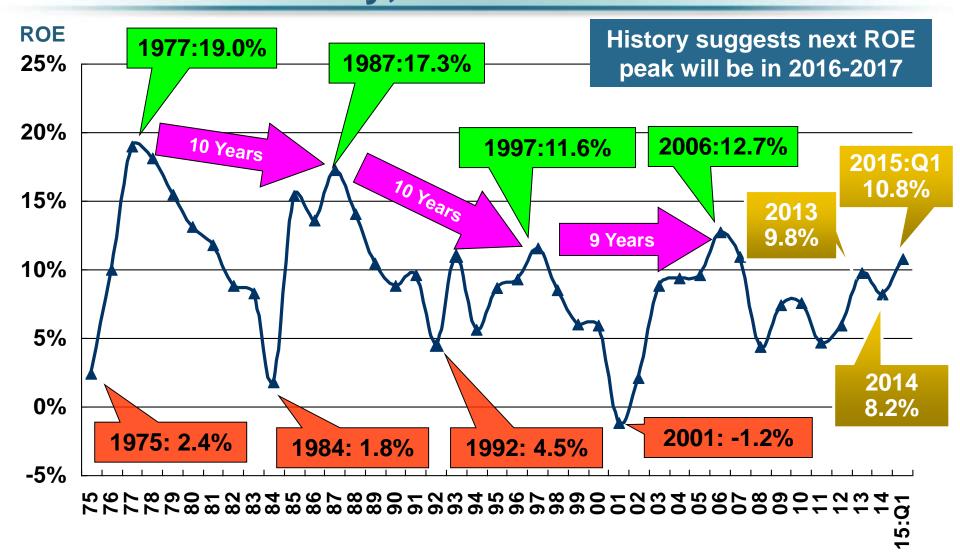


•ROE figures are GAAP; <sup>1</sup>Return on avg. surplus. Excluding Mortgage & Financial Guaranty insurers yields a 8.2% ROAS in 2014, 9.8% ROAS in 2013, 6.2% ROAS in 2012, 4.7% ROAS for 2011, 7.6% for 2010 and 7.4% for 2009.

Sources: A.M. Best, ISO; Insurance Information Institute

## Profitability Peaks & Troughs in the P/C Insurance Industry, 1975 – 2015:Q1



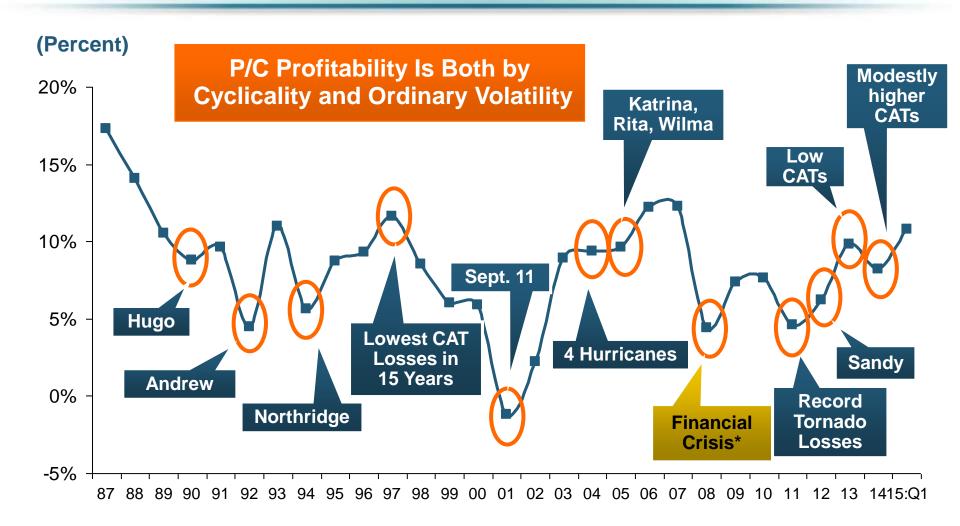


<sup>\*</sup>Profitability = P/C insurer ROEs. 2011-14 figures are estimates based on ROAS data. Note: Data for 2008-2014 exclude mortgage and financial guaranty insurers.

Source: Insurance Information Institute; NAIC, ISO, A.M. Best, Conning

## **ROE: Property/Casualty Insurance by Major Event, 1987–2015:Q1**

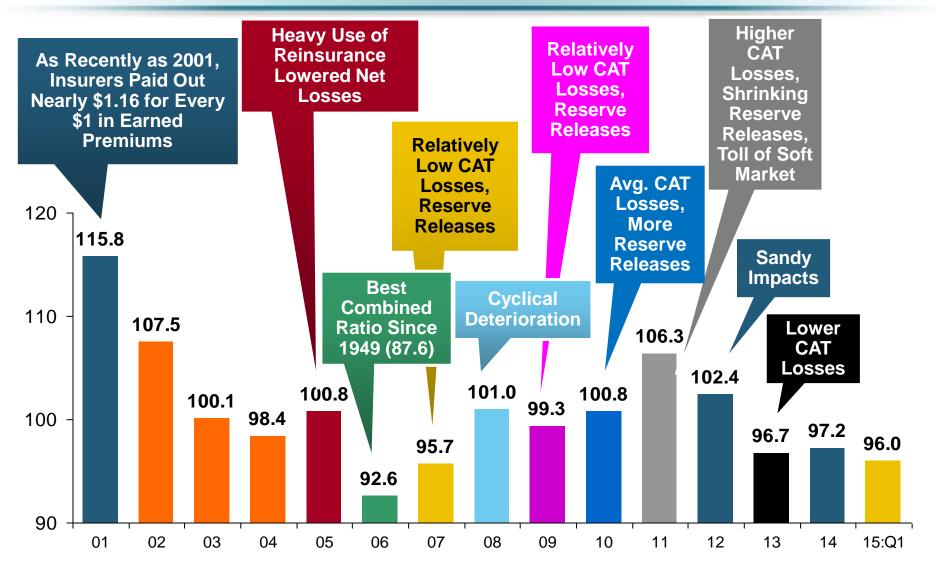




<sup>\*</sup> Excludes Mortgage & Financial Guarantee in 2008 – 2014. Sources: ISO, *Fortune*; Insurance Information Institute.

## P/C Insurance Industry Combined Ratio, 2001–2015:Q1\*



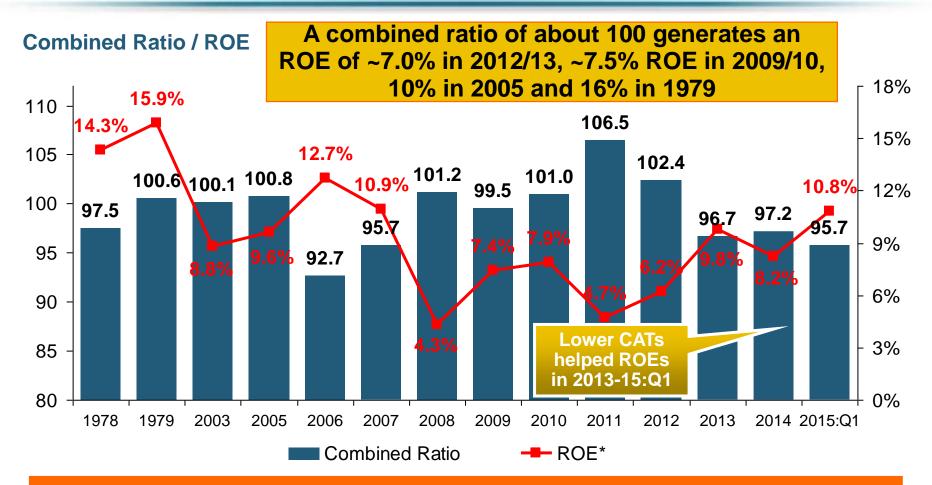


<sup>\*</sup> Excludes Mortgage & Financial Guaranty insurers 2008--2014. Including M&FG, 2008=105.1, 2009=100.7, 2010=102.4, 2011=108.1; 2012:=103.2; 2013: = 96.1; 2014: = 97.0.

Sources: A.M. Best, ISO.

## A 100 Combined Ratio Isn't What It Once Was: Investment Impact on ROEs



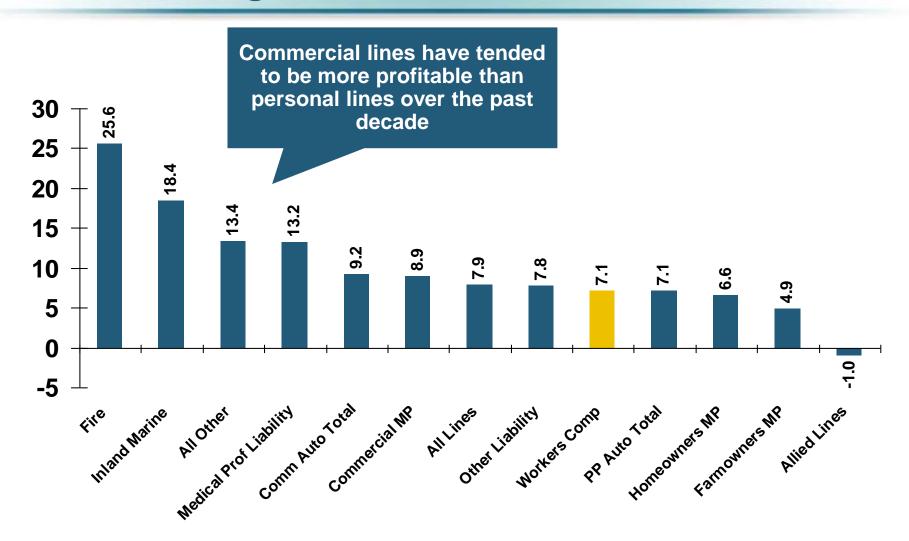


Combined Ratios Must Be Lower in Today's Depressed Investment Environment to Generate Risk Appropriate ROEs

<sup>\* 2008 -2014</sup> figures are return on average surplus and exclude mortgage and financial guaranty insurers. 2014 combined ratio including M&FG insurers is 97.0; 2013 = 96.1; 2012 =103.2, 2011 = 108.1, ROAS = 3.5%. Source: Insurance Information Institute from A.M. Best and ISO Verisk Analytics data.

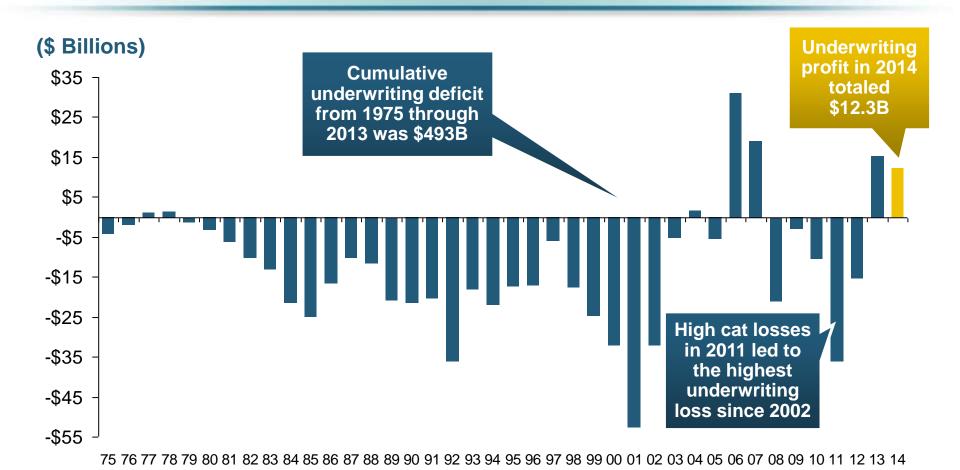
### Return on Net Worth (RNW) All Lines: 2004-2013 Average





## Underwriting Gain (Loss) 1975–2014\*



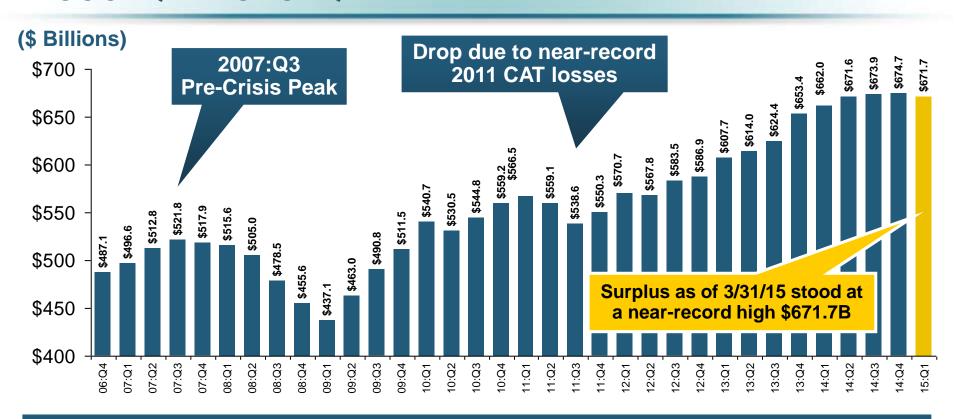


Large Underwriting Losses Are *NOT* Sustainable in Current Investment Environment

<sup>\*</sup> Includes mortgage and financial guaranty insurers in all years. Sources: A.M. Best, ISO: Insurance Information Institute.

## Policyholder Surplus, 2006:Q4–2015:Q1





The industry now has \$1 of surplus for every \$0.73 of NPW, close to the strongest claims-paying status in its history.

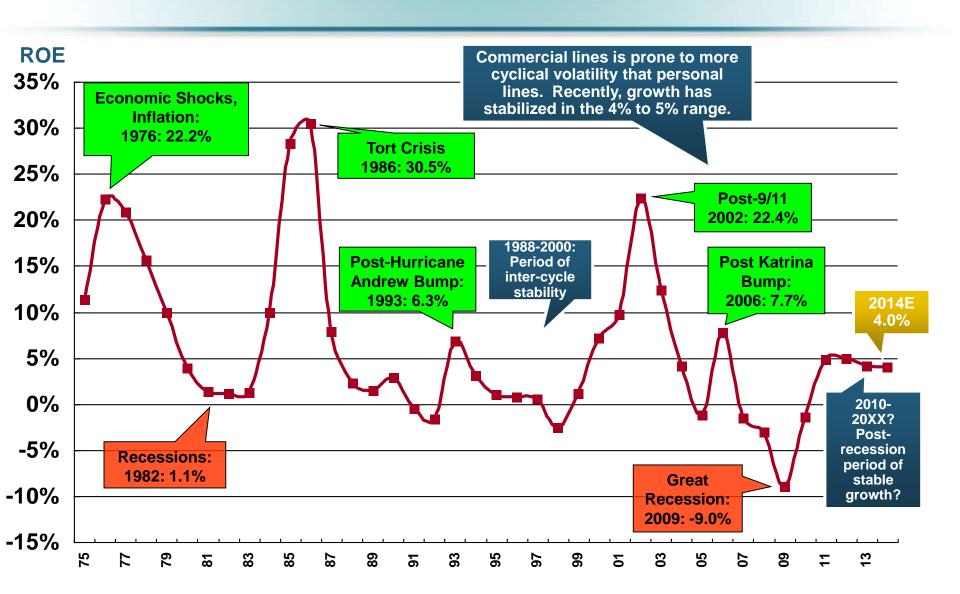
2010:Q1 data includes \$22.5B of paid-in capital from a holding company parent for one insurer's investment in a non-insurance business.

The P/C insurance industry entered 2015 in very strong financial condition.

Sources: ISO, A.M .Best.

### Commercial Lines NPW Premium Growth: 1975 – 2014E



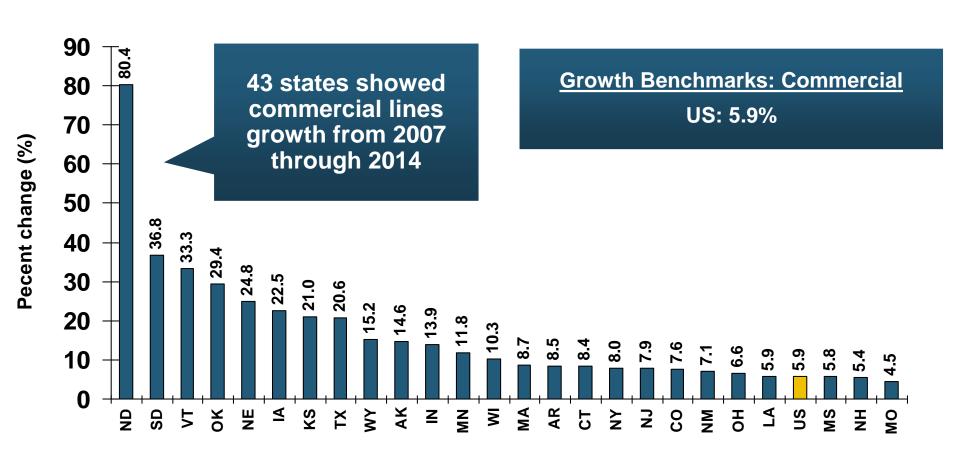


Note: Data include state funds beginning in 1998. Source: A.M. Best: Insurance Information Institute.

## Direct Premiums Written: Comm. Lines Percent Change by State, 2007-2014



#### Top 25 States

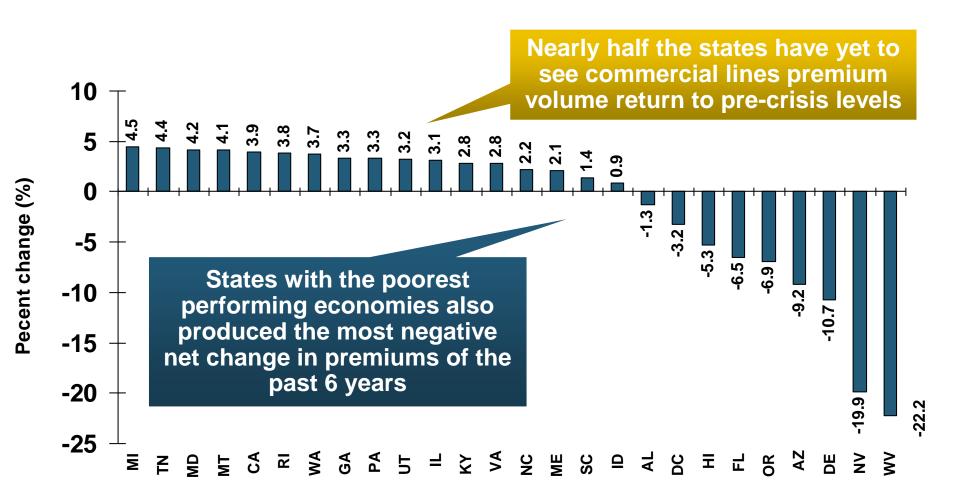


Sources: SNL Financial LLC.; Insurance Information Institute.

## Direct Premiums Written: Comm. Lines Percent Change by State, 2007-2014



#### **Bottom 25 States**

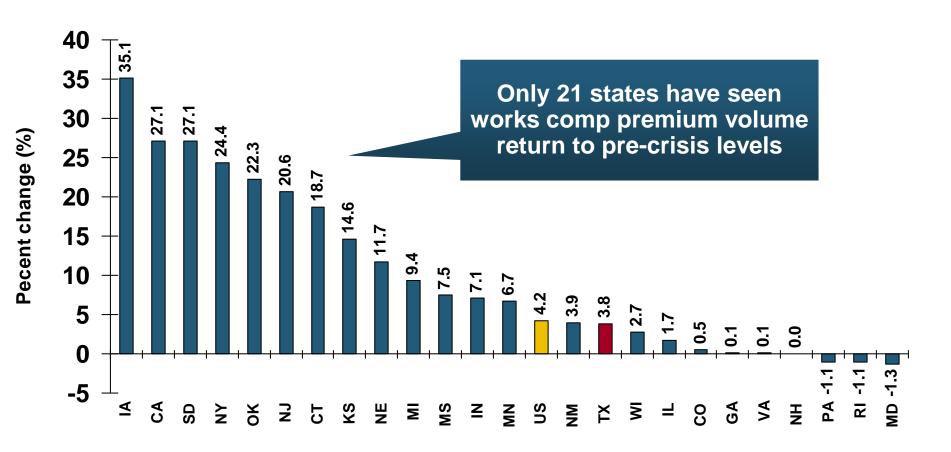


Sources: SNL Financial LLC.; Insurance Information Institute.

#### Direct Premiums Written: Workers' Comp Percent Change by State, 2007-2014\*



#### Top 25 States

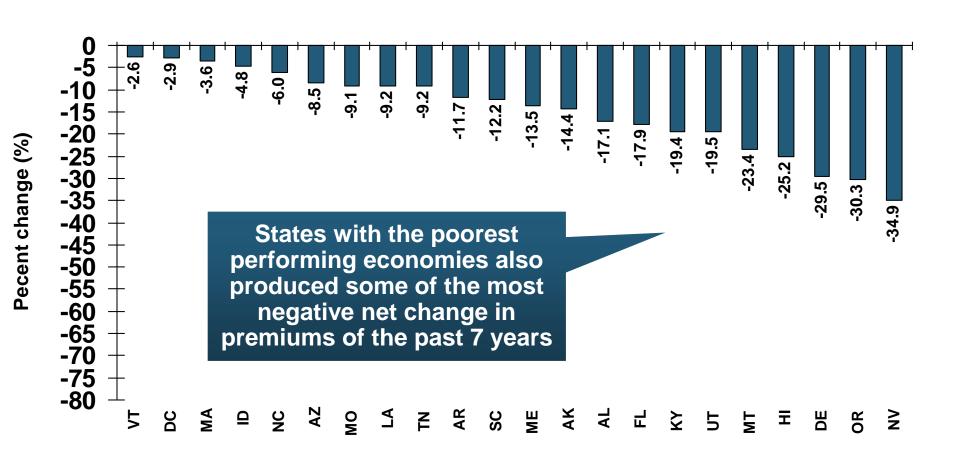


<sup>\*</sup>Excludes monopolistic fund states: ND, OH, WA, WY as well as WV, which transitioned to a competitive structure during this period. Sources: SNL Financial LC.; Insurance Information Institute.

#### Direct Premiums Written: Worker's Comp Percent Change by State, 2007-2014\*



#### **Bottom 25 States**



<sup>\*</sup>Excludes monopolistic fund states: ND, OH, WA, WY as well as WV, which transitioned to a competitive structure during this period. Sources: SNL Financial LC.; Insurance Information Institute.



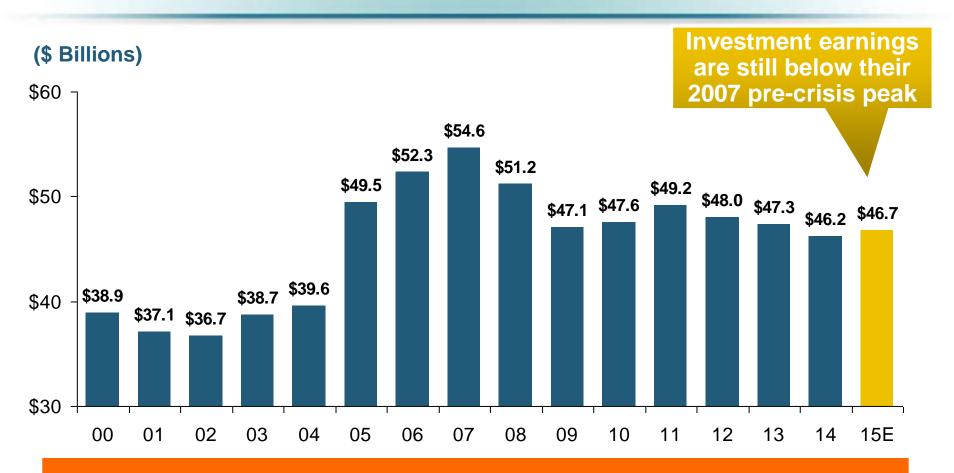
#### INVESTMENTS: THE NEW REALITY

Investment Performance is a Key Driver of Profitability

Low Yields Have an Especially Large Influence on Profitability of Long-Tailed Lines Like WC

## Property/Casualty Insurance Industry Investment Income: 2000–2015E<sup>1</sup>



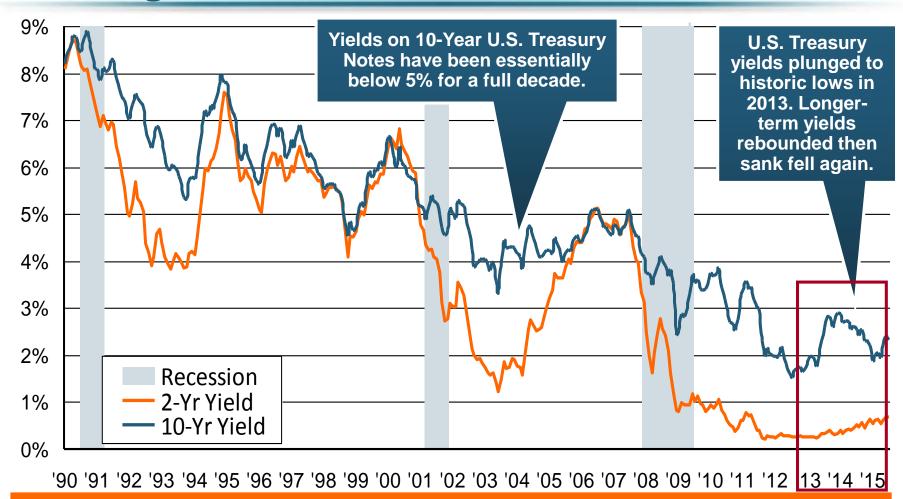


Due to persistently low interest rates, investment income fell in 2012, 2013 and 2014.

<sup>&</sup>lt;sup>1</sup> Investment gains consist primarily of interest and stock dividends. Sources: ISO; Insurance Information Institute.

## U.S. Treasury Security Yields: A Long Downward Trend, 1990–2015\*





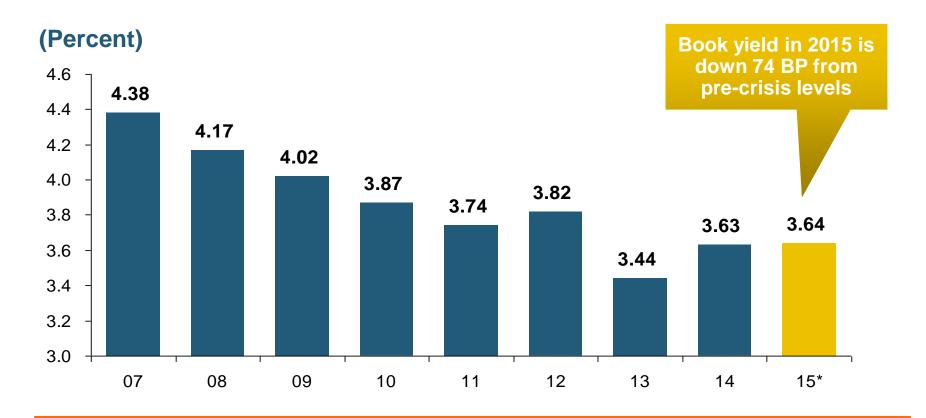
Since roughly 80% of P/C bond/cash investments are in 10-year or shorter durations, most P/C insurer portfolios will have low-yielding bonds for years to come.

Sources: Federal Reserve Bank at <a href="http://www.federalreserve.gov/releases/h15/data.htm">http://www.federalreserve.gov/releases/h15/data.htm</a>. National Bureau of Economic Research (recession dates); Insurance Information Institute.

<sup>\*</sup>Monthly, constant maturity, nominal rates, through July 2015.

## **Book Yield on Property/Casualty Insurance Invested Assets, 2007–2015\***



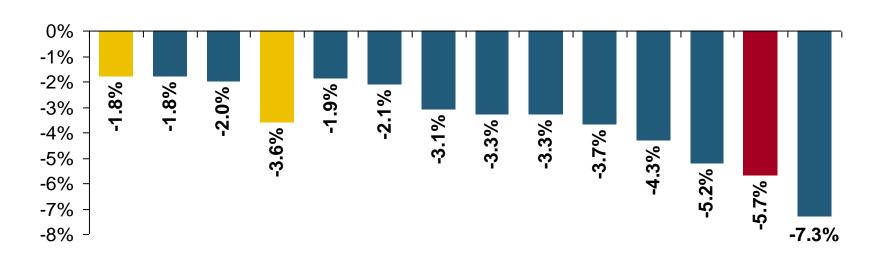


The yield on invested assets remains low relative to pre-crisis yields. The Fed's plan to raise interest rates in late 2015 has already pushed up some yields, albeit quite modestly.

## Reduction in Combined Ratio Necessary to Offset 1% Decline in Investment Yield to Maintain Constant ROE, by Line\*







Lower Investment Earnings Place a Greater Burden on Underwriting and Pricing Discipline

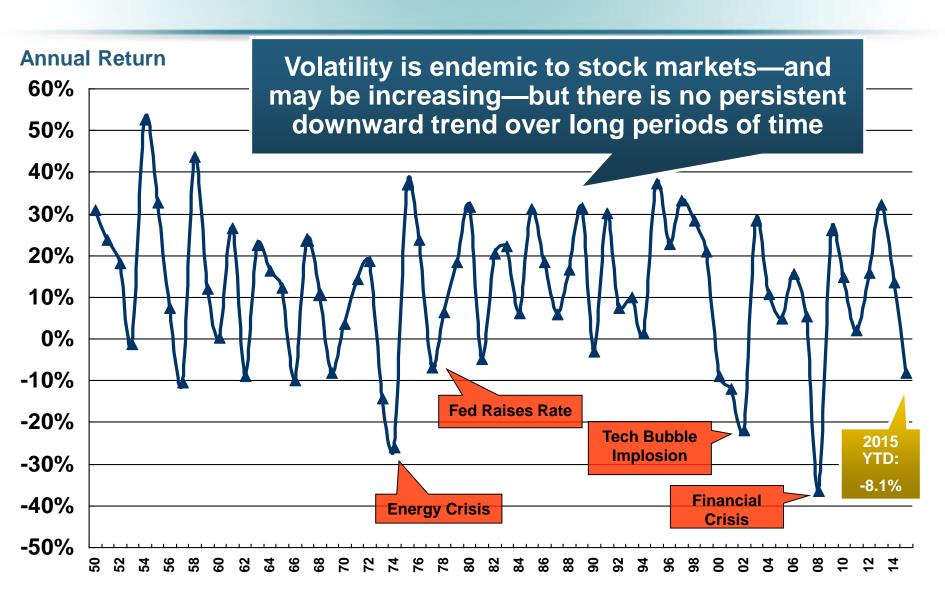
Source: A.M. Best; Insurance Information Institute.

<sup>\*</sup>Based on 2008 Invested Assets and Earned Premiums

<sup>\*\*</sup>US domestic reinsurance only

#### **S&P 500 Index Returns, 1950 – 2015\***





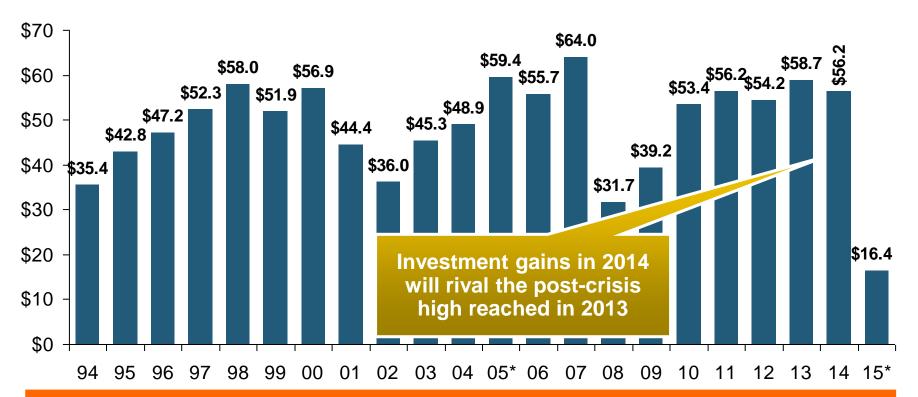
<sup>\*</sup>Through August 24, 2015.

Source: NYU Stern School of Business: http://pages.stern.nyu.edu/~adamodar/New\_Home\_Page/datafile/histretSP.html Ins. Info. Inst.

## Property/Casualty Insurance Industry Investment Gain: 1994–2015:Q1<sup>1</sup>



#### (\$ Billions)



Total Investment Gains Were Down Slightly in 2014 as Low Interest Rates
Pressured Investment Income but Realized Capital Gains Remained
Robust

<sup>&</sup>lt;sup>1</sup> Investment gains consist primarily of interest, stock dividends and realized capital gains and losses.

<sup>\* 2005</sup> figure includes special one-time dividend of \$3.2B; 2015 figure is through Q1 2015. Sources: ISO; Insurance Information Institute.



#### **2015**

## Non-Financial Challenges and Criticisms of Workers Comp

A Number of Issues Have Stirred Interest in Workers Compensation in 2015

## Challenges Raised in the Workers Comp Line



- Opt Out Legislation: Coalition of large employers is aggressively pushing for legislation that would allow them to forego purchasing WC coverage in favor of creating their own programs while also seeking to specify the criteria for claiming and the size of benefits
  - Allowed in TX for many years and passed in OK in 2014
  - Failed in TN in 2015; Lobbying in AL, FL, GA, NC, SC
- Challenges to Exclusive Remedy: Assertion that after reforms in several states the WC "Grand Bargain" has been breached and that benefits are now insufficient
  - Objective of trial lawyers is to tap into the tort system
- ProPublica/NPR Attack Series: "The Demolition of Workers Comp" (Published in March 2015)



# Labor Markets Trends: Recovery Continues in 2015

<u>In 2014...</u>

Largest Increase in Jobs Since 1997

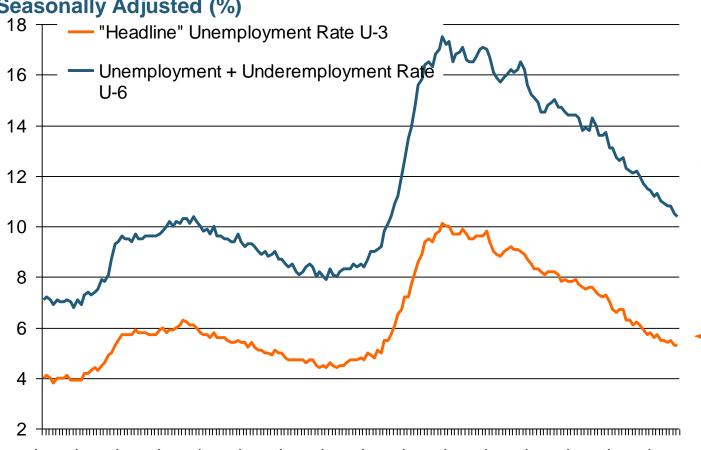
Unemployment Rate Fell to Lowest Level Since 2008

Payrolls Expanded to Record High

## **Unemployment and Underemployment Rates: Still Too High, But Falling**







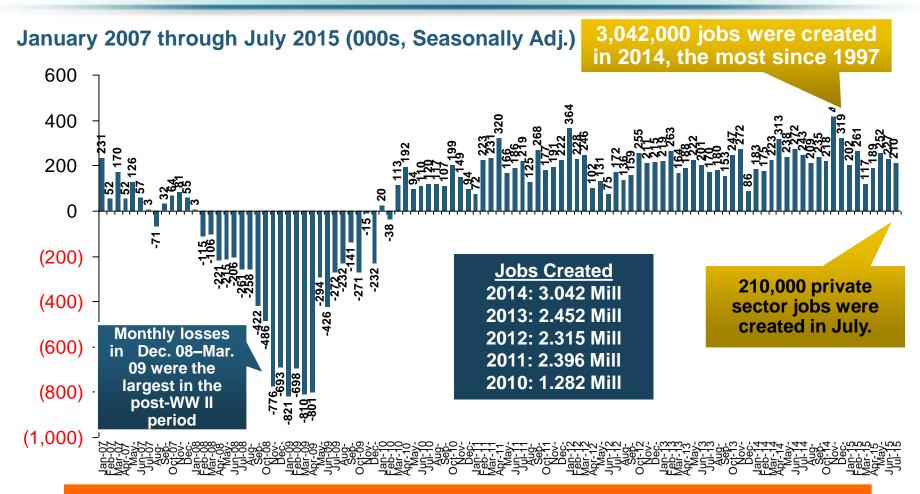
U-6 soared from 8.0% in March 2007 to 17.5% in October 2009; Stood at 10.4% in June 2015. 8% to 10% is "normal."

"Headline" unemployment was 5.3% in July 2015. 4.5% to 5.5% is "normal."

Stubbornly high unemployment and underemployment constrain overall economic growth, but the job market is continuing to improve.

#### Monthly Change in Private Employment

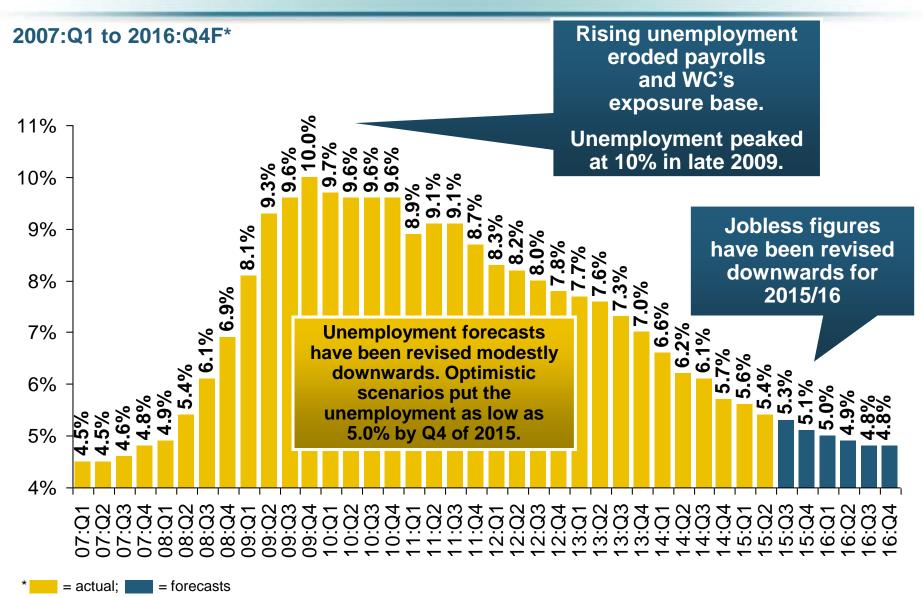




Private Employers Added 12.84 Million Jobs Since Jan. 2010 After Having Shed 5.01 Million Jobs in 2009 and 3.76 Million in 2008 (State and Local Governments Have Shed Hundreds of Thousands of Jobs)

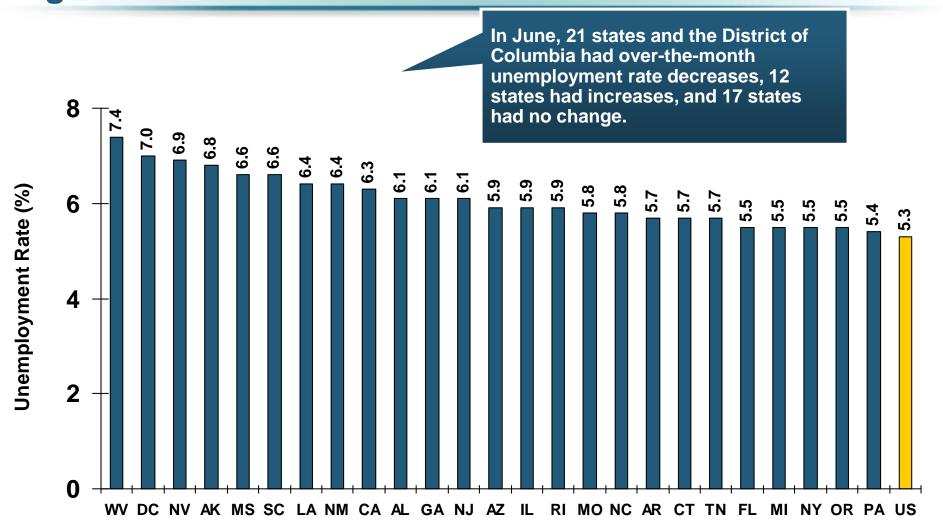
#### **US Unemployment Rate Forecast**





### Unemployment Rates by State, June 2015: Highest 25 States\*

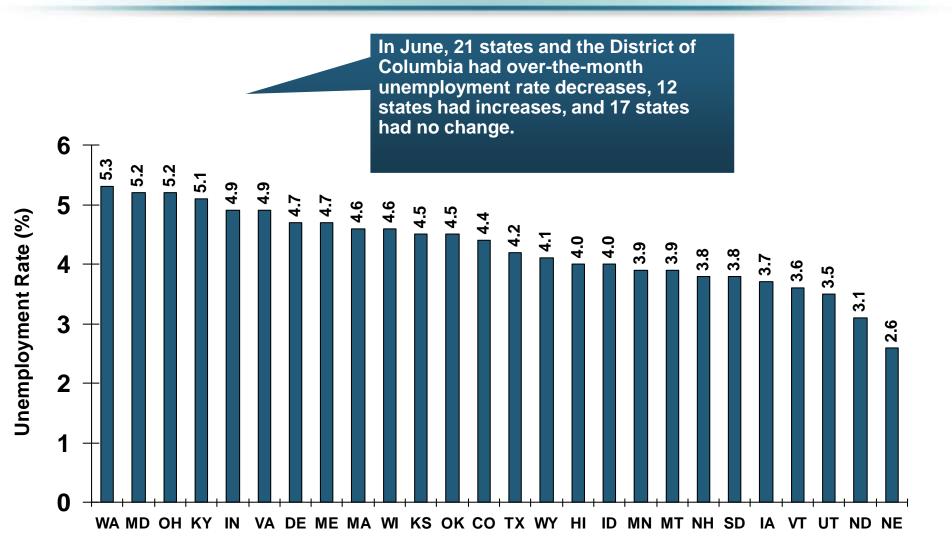




<sup>\*</sup>Provisional figures for June 2015, seasonally adjusted.
Sources: US Bureau of Labor Statistics; Insurance Information Institute.

### Unemployment Rates by State, June 2015: Lowest 25 States\*







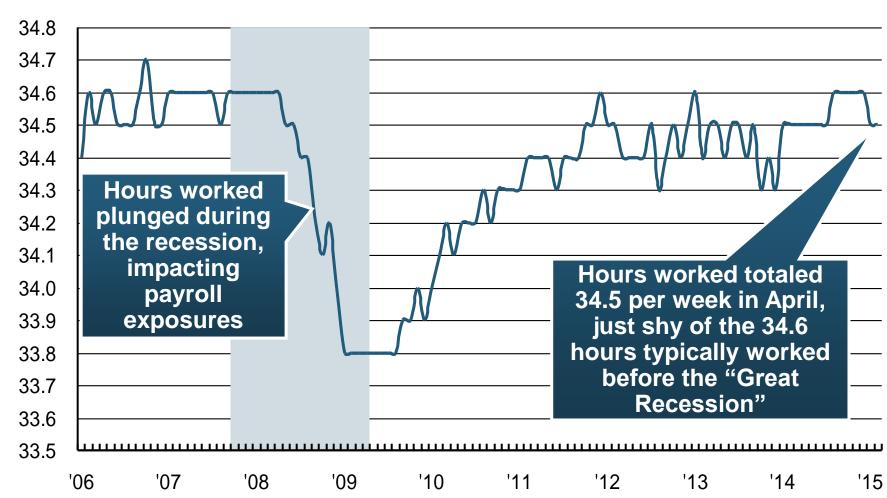
#### POSITIVE LABOR MARKET DEVELOPMENTS

## **Key Factors Driving Workers Compensation Exposure**

## Average Weekly Hours of All Private Workers, Mar. 2006—April 2015







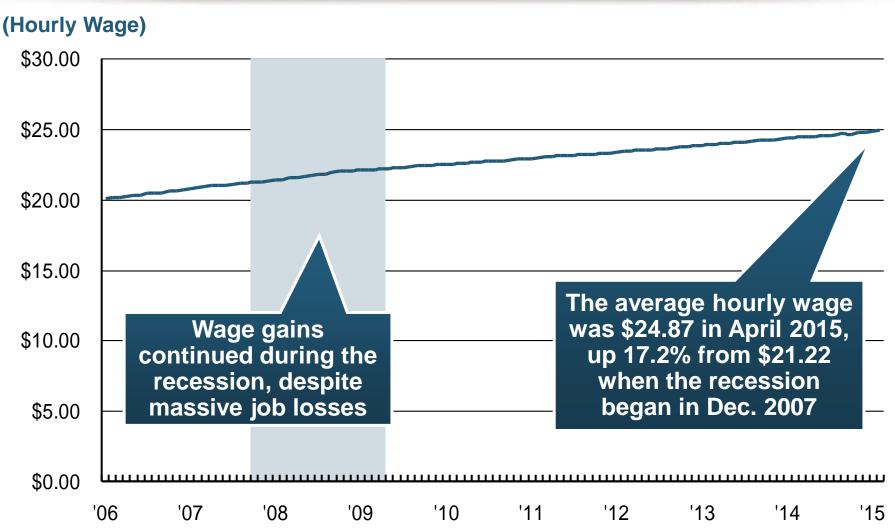
<sup>\*</sup>Seasonally adjusted

Note: Recessions indicated by gray shaded columns.

Sources: US Bureau of Labor Statistics at <a href="http://www.bls.gov/data/#employment">http://www.bls.gov/data/#employment</a>; National Bureau of Economic Research (recession dates); Insurance Information Institute.

## Average Hourly Wage of All Private Workers, Mar. 2006—April 2015





<sup>\*</sup>Seasonally adjusted

Note: Recessions indicated by gray shaded columns.

Sources: US Bureau of Labor Statistics at <a href="http://www.bls.gov/data/#employment">http://www.bls.gov/data/#employment</a>; National Bureau of Economic Research (recession dates); Insurance Information Institute.



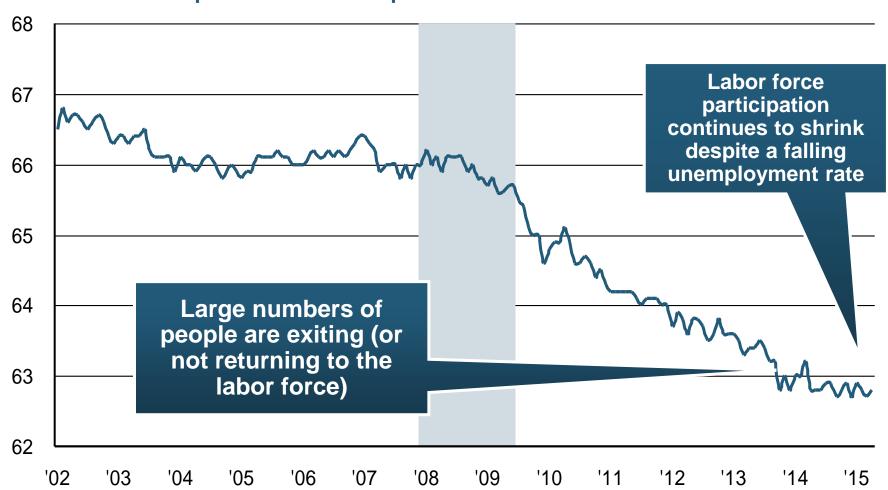
## ADVERSE LONG-TERM LABOR MARKET DEVELOPMENTS

# Key Factors Harming Workers Compensation Exposure and the Overall Economy

## Labor Force Participation Rate, Jan. 2002—April 2015\*



#### **Labor Force Participation as a % of Population**



<sup>\*</sup>Defined as the percentage of working age persons in the population who are employed or actively seeking work.

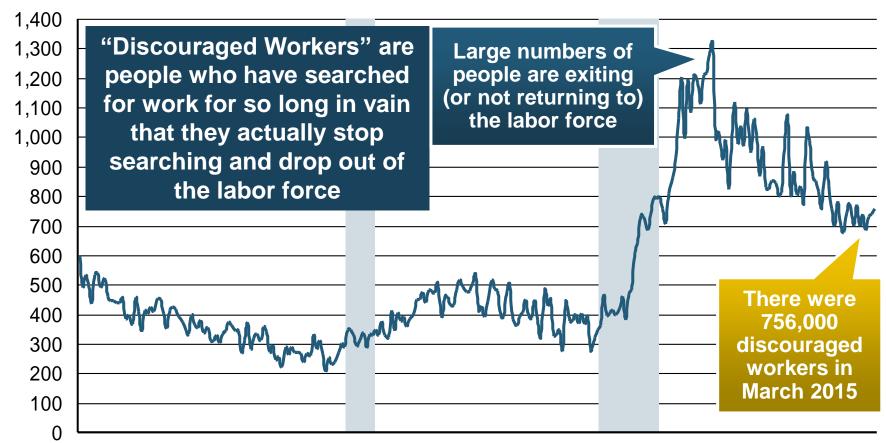
Note: Recessions indicated by gray shaded columns.

Sources: US Bureau of Labor Statistics at <a href="http://www.bls.gov/data/">http://www.bls.gov/data/</a>; National Bureau of Economic Research (recession dates); Insurance Information Institute.

## Number of "Discouraged Workers," Jan. 2002—April 2015







'94 '95 '96 '97 '98 '99 '00 '01 '02 '03 '04 '05 '06 '07 '08 '09 '10 '11 '12 '13 '14 '15

In recent good times, the number of discouraged workers ranged from 200,000-400,000 (1995-2000) or from 300,000-500,000 (2002-2007).

Notes: Recessions indicated by gray shaded columns. Data are seasonally adjusted.

Sources: Bureau of Labor Statistics <a href="http://www.bls.gov/news.release/empsit.a.htm">http://www.bls.gov/news.release/empsit.a.htm</a>; NBER (recession dates); Ins. Info. Inst.

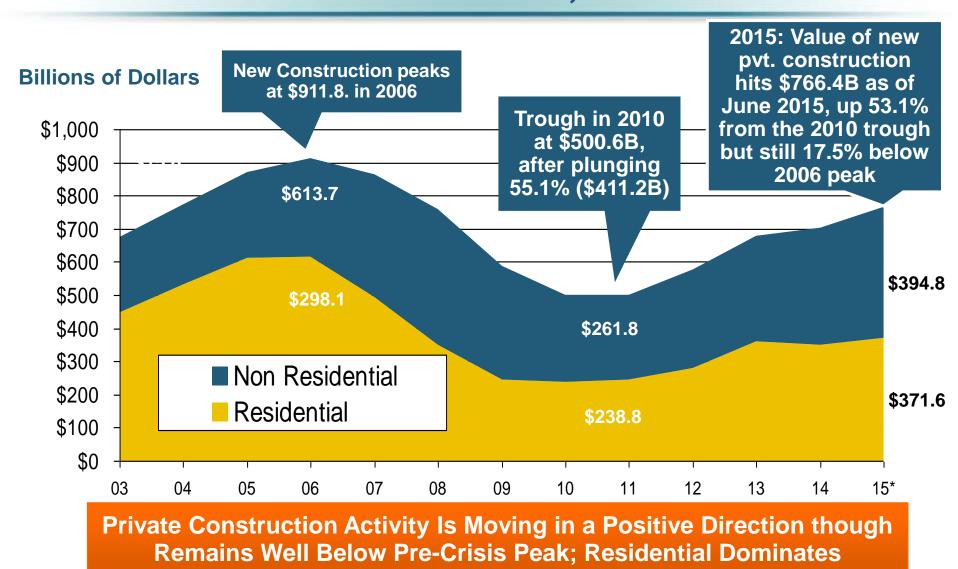


# CONSTRUCTION INDUSTRY OVERVIEW & OUTLOOK

The Construction Sector Is Critical to the Economy and the P/C Insurance Industry

### Value of New Private Construction: Residential & Nonresidential, 2003-2015\*

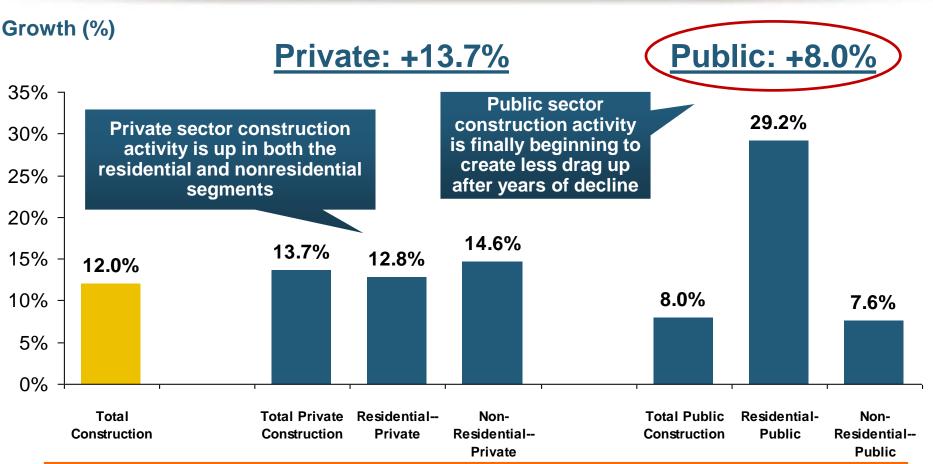




<sup>\*2015</sup> figure is a seasonally adjusted annual rate as of June.

### Value of Construction Put in Place, June 2015 vs. June 2014\*



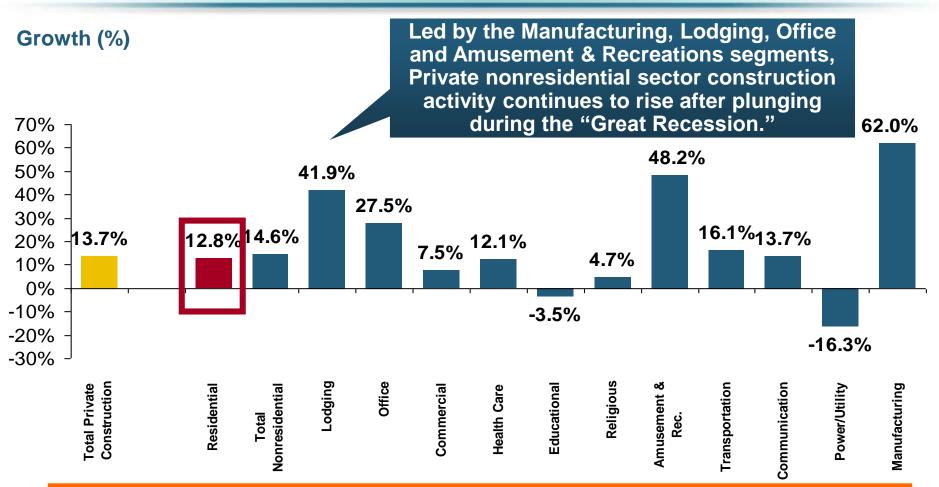


Overall Construction Activity is Up Again After Languishing in Early 2015; State/Local Sector Government Sector May Be Recovering as Budget Woes Ease in Some Jurisdictions

<sup>\*</sup>seasonally adjusted Source: U.S. Census Bureau, <a href="http://www.census.gov/construction/c30/c30index.html">http://www.census.gov/construction/c30/c30index.html</a>; Insurance Information Institute.

# Value of Private Construction Put in Place, by Segment, June 2015 vs. June 2014\*





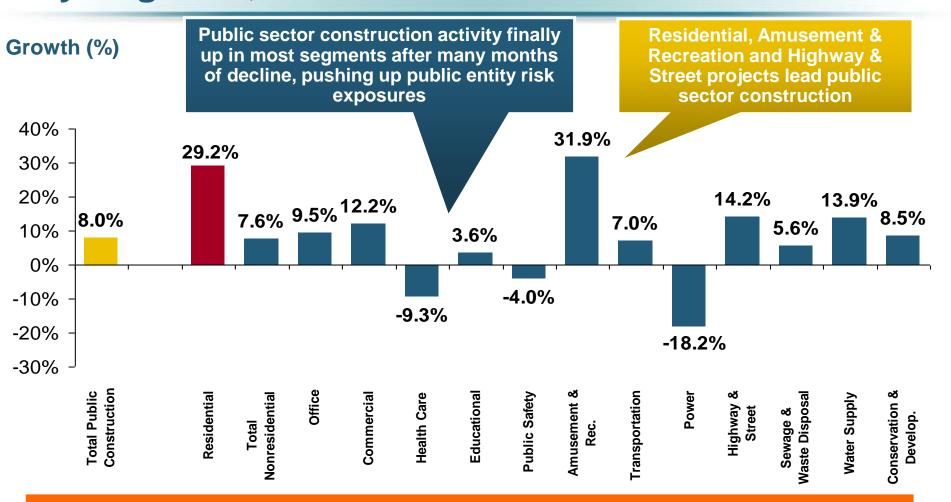
Private Construction Activity is Up in Most Segments, though the Key Residential Construction Sector Weakened in Late 2014/Early 2015; Mixed Outlook for 2015, though Expansion Should Continue

Source: U.S. Census Bureau, <a href="http://www.census.gov/construction/c30/c30index.html">http://www.census.gov/construction/c30/c30index.html</a>; Insurance Information Institute.

<sup>\*</sup>seasonally adjusted

# Value of Public Construction Put in Place, by Segment, June 2015 vs. June 2014\*

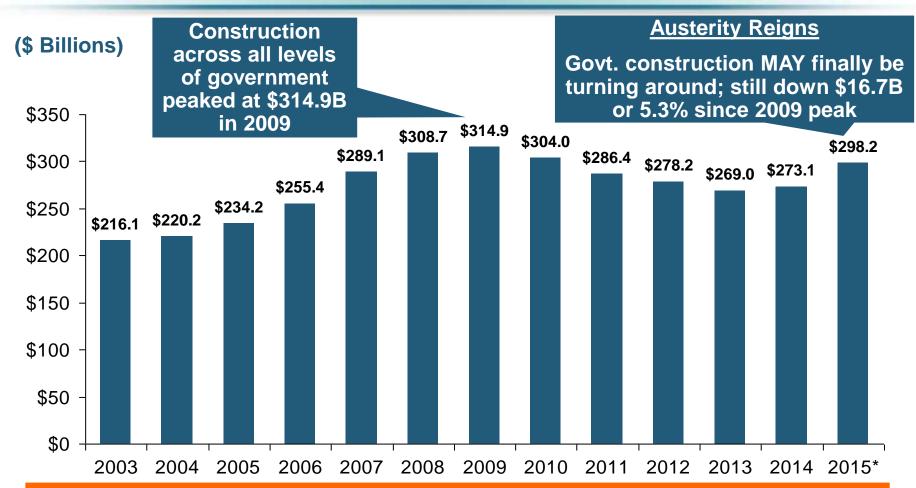




Public Construction Activity is Beginning to Recover from its Long Contraction which Will Drive Demand in Many Commercial Insurance Lines

# Value of New Federal, State and Local Government Construction: 2003-2015\*



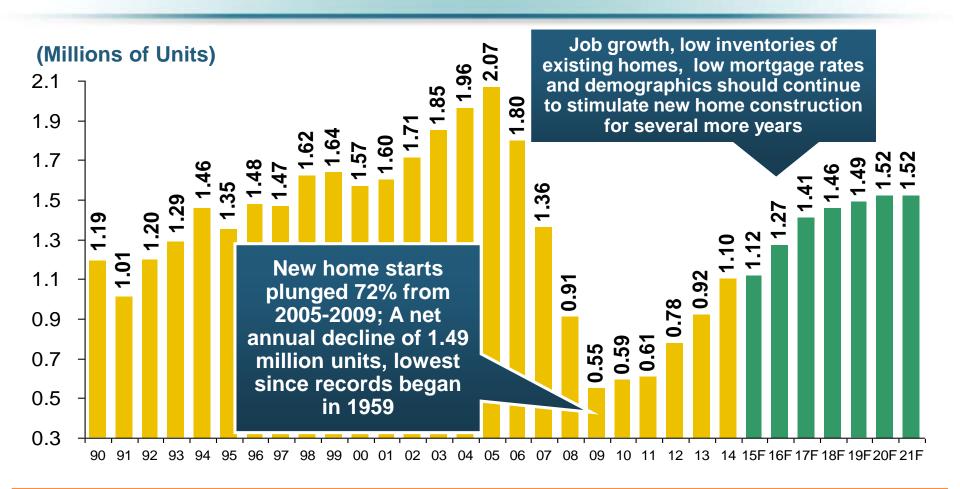


Government Construction Spending Peaked in 2009, Helped by Stimulus Spending, but Contracted As State/Local Governments Grappled with Deficits and Federal Sequestration; Only Now Recovering

<sup>\*2015</sup> figure is a seasonally adjusted annual rate as of June; <a href="http://www.census.gov/construction/c30/historical\_data.html">http://www.census.gov/construction/c30/historical\_data.html</a> Sources: US Department of Commerce; Insurance Information Institute.

### New Private Housing Starts, 1990-2021F

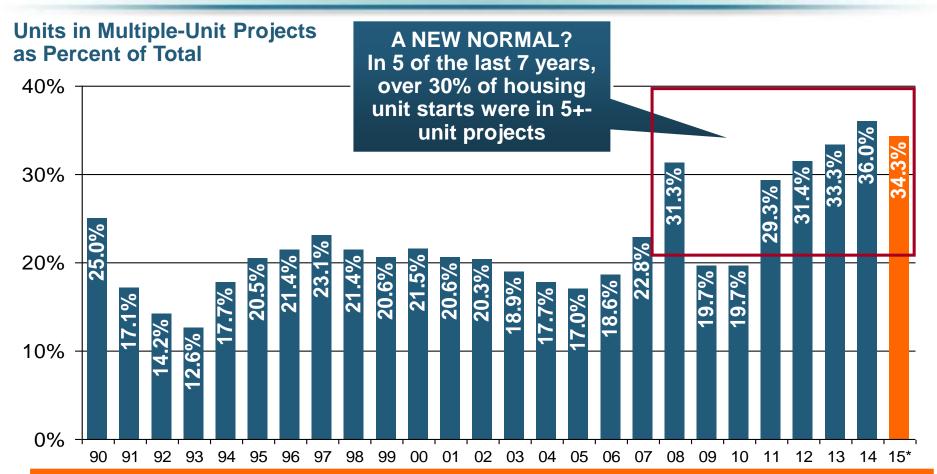




Insurers Are Continue to See Meaningful Exposure Growth in the Wake of the "Great Recession" Associated with Home Construction: Construction Risk Exposure, Surety, Commercial Auto; Potent Driver of Workers Comp Exposure

# U.S.: Pct. Of Private Housing Unit Starts In Multi-Unit Projects, 1990-2015



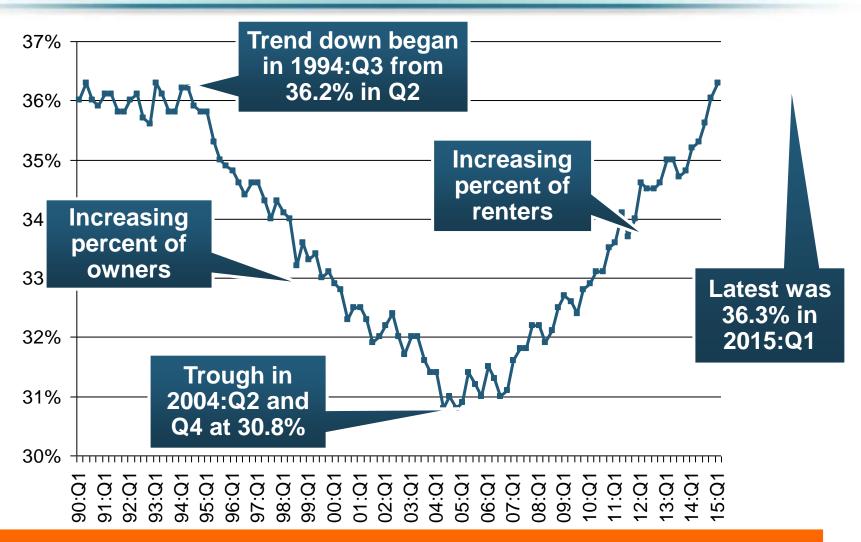


For the U.S. as a whole, the trend toward multi-unit housing projects (vs. single-unit homes) is recent. Commercial insurers with Workers Comp, Construction risk exposure, and Surety benefit.

<sup>\*</sup>January through April 2015; April is preliminary; calculations based on seasonally adjusted at annual rates Sources: U.S. Census Bureau, New Residential Construction in April 2015 and earlier releases; next release June 16, 2015; Insurance Information Institute calculations.

### Rental-Occupied Housing Units as % of Total Occupied Units, Quarterly, 1990:Q1-2015:Q1



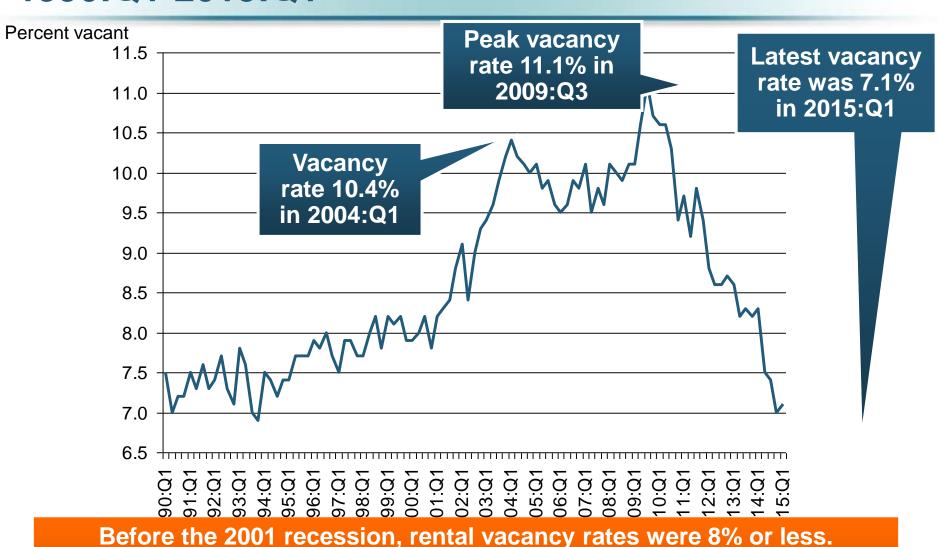


Since the Great Recession ended in June 2009, renters occupied 5.7 million more units (+15.6%).

Sources: US Census Bureau, Residential Vacancies & Home Ownership in the First Quarter of 2015 (released April 28, 2015) and earlier issues; Insurance Information Institute. Next Census Bureau report to be released on July 28, 2015.

### Rental Vacancy Rates, Quarterly, 1990:Q1-2015:Q1





Sources: US Census Bureau, Residential Vacancies & Home Ownership in the First Quarter of 2015 (released April 28, 2015) and earlier issues; Insurance Information Institute. Next Census Bureau report to be released on July 28, 2015.

We're below those levels now. => More multi-unit construction?

# Construction Employment, Jan. 2010—July 2015\*



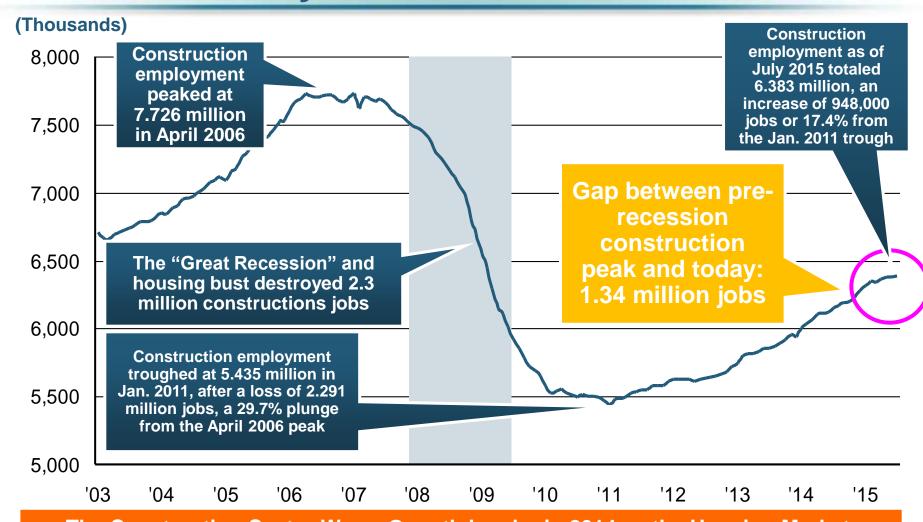


Construction and manufacturing employment constitute 1/3 of all WC payroll exposure.

<sup>\*</sup>Seasonally adjusted.

# Construction Employment, Jan. 2003–July 2015





The Construction Sector Was a Growth Leader in 2014 as the Housing Market, Private Investment and Govt. Spending Recover. WC Insurers Will Benefit.

Note: Recession indicated by gray shaded column.

Sources: U.S. Bureau of Labor Statistics; Insurance Information Institute.



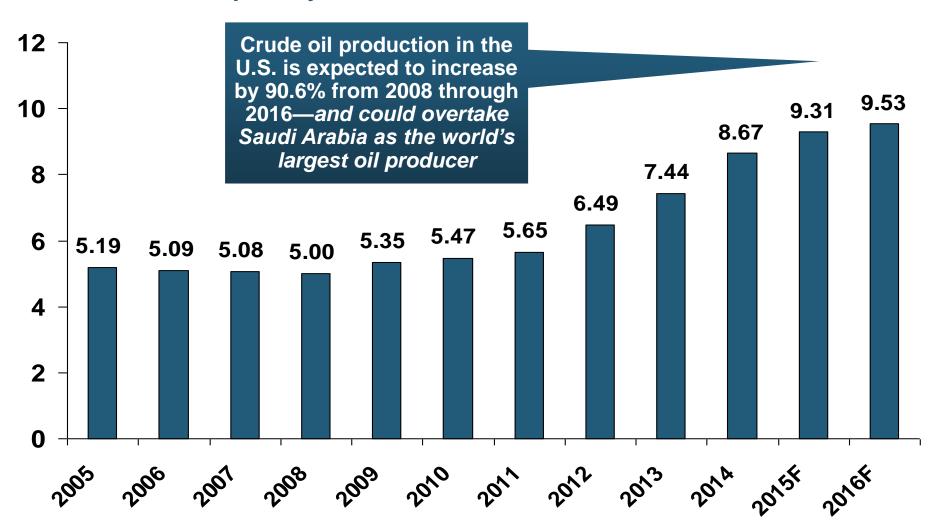
### **ENERGY SECTOR**

America's Energy Boom Has Been a
Strong Driver of the Economic Recovery,
but Prices Are Falling
Workers Comp Has Benefited from the
Energy Boom, But Exposures Will Suffer
as Energy Prices Swoon

### U.S. Crude Oil Production, 2005-2016P



#### Millions of Barrels per Day

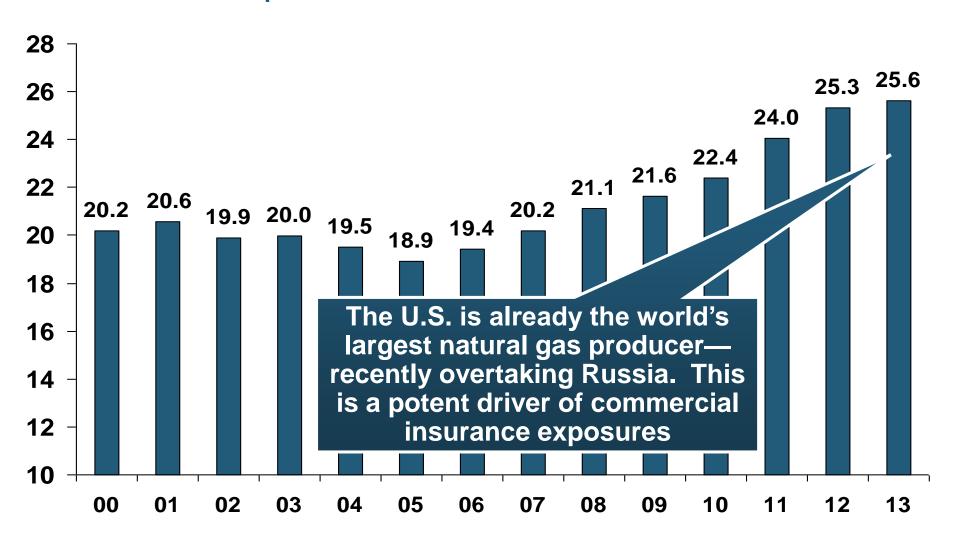


Source: Energy Information Administration, Short-Term Energy Outlook (January 15, 2015), Insurance Information Institute.

### U.S. Natural Gas Production, 2000-2013



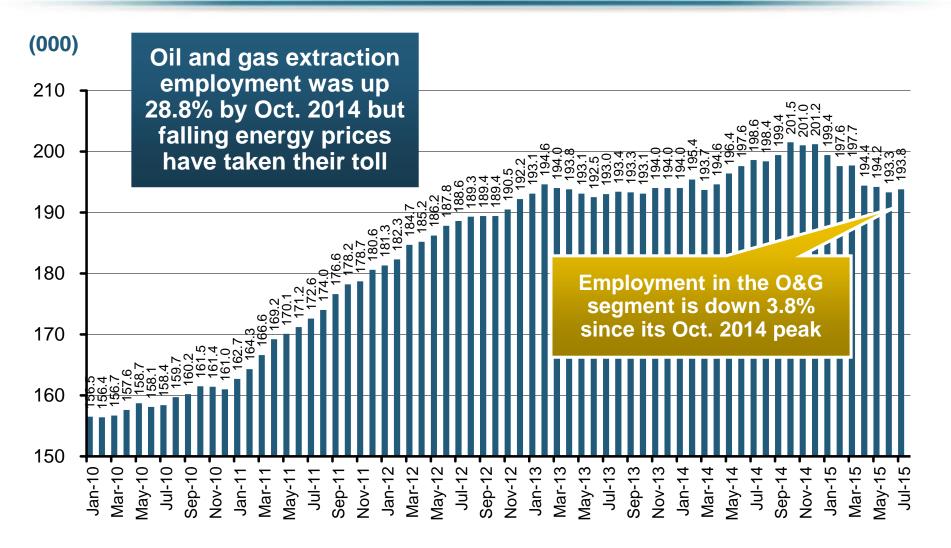
#### Trillions of Cubic Ft. per Year



Source: Energy Information Administration, Short-Term Energy Outlook (April 8, 2014), Insurance Information Institute.

# Employment in Oil & Gas Extraction, Jan. 2010—July 2015\*





<sup>\*</sup>Seasonally adjusted



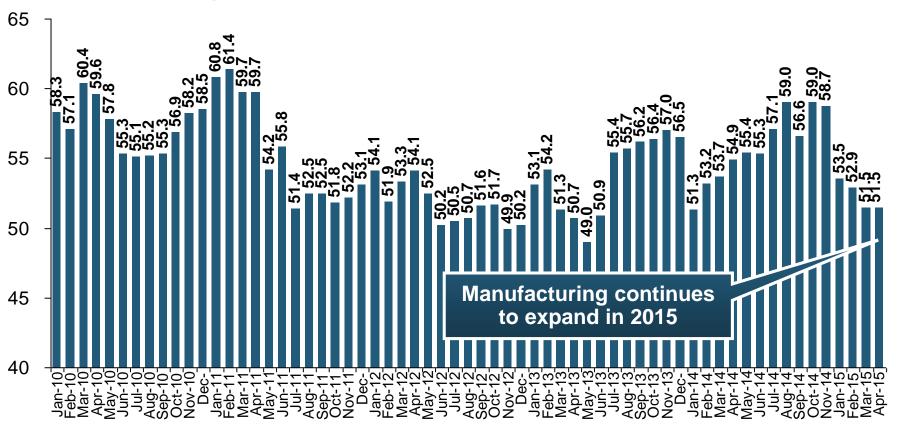
### MANUFACTURING SECTOR

A Potent Driver of Jobs, Workers Comp Payroll Exposure America's Manufacturing Renaissance Has Hit a Rough Patch with the High Dollar/Chinese Devaluation, Weak Export Markets

# ISM Manufacturing Index (Values > 50 Indicate Expansion)



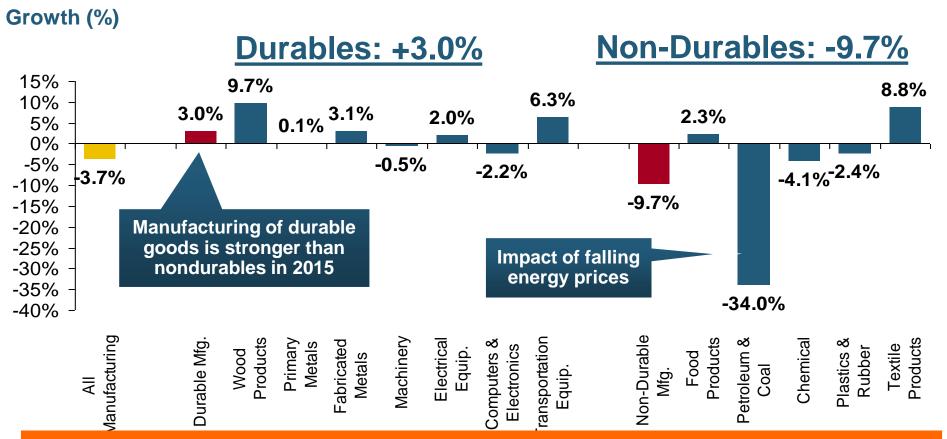
#### January 2010 through April 2015



The manufacturing sector expanded for 62 of the 64 months from Jan. 2010 through Apr. 2015. Pace of recovery has been uneven due to economic turbulence in the U.S., Europe and China and the high dollar.

### Manufacturing Growth for Selected Sectors, 2015 vs. 2014\*



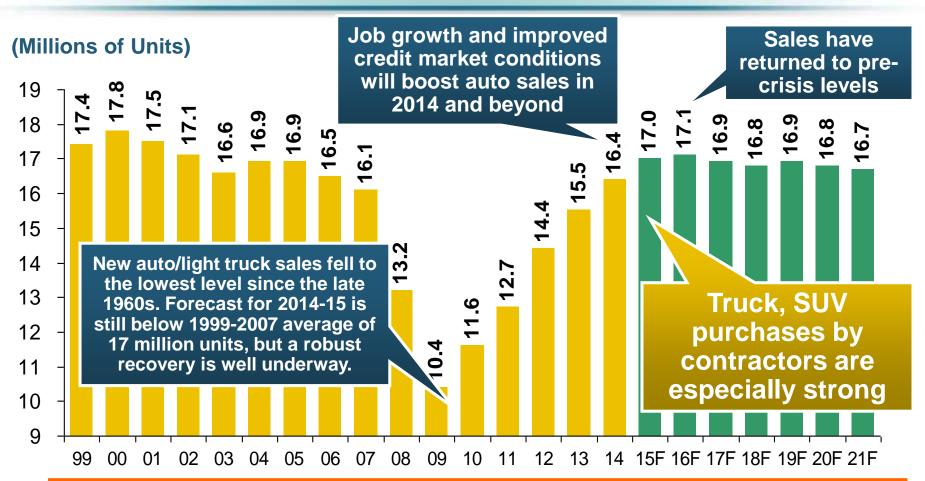


Manufacturing Is Expanding in Many Sectors But Declining Energy Prices Are Dragging Down Industry Figures. Continued Gortwh Across a Number of Sectors that Will Contribute to Growth in Insurable Exposures Including: WC, Commercial Property, Commercial Auto and Many Liability Coverages

<sup>\*</sup>Seasonally adjusted; Date are YTD comparing data through February 2015 to the same period in 2014. Source: U.S. Census Bureau, Full Report on Manufacturers' Shipments, Inventories, and Orders, http://www.census.gov/manufacturing/m3/

### Auto/Light Truck Sales, 1999-2021F

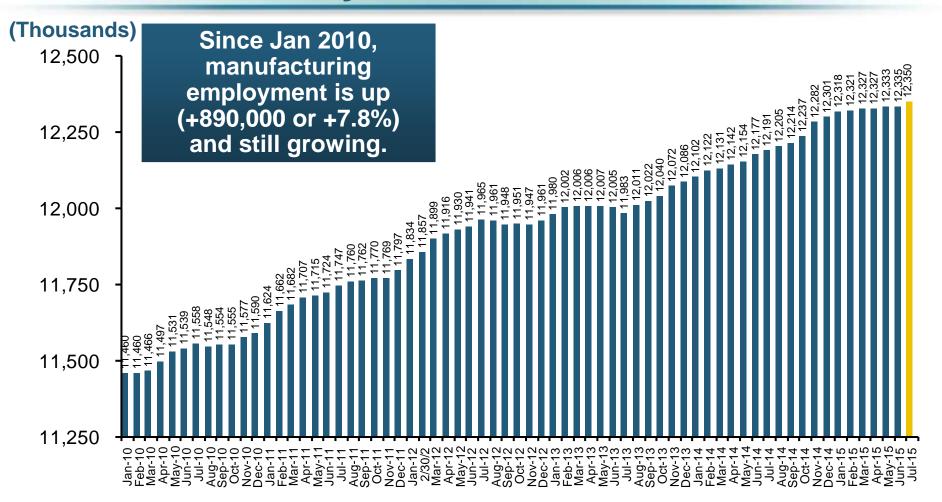




Yearly car/light truck sales will likely continue at current levels, in part replacing cars that were held onto in 2008-12. New vehicles will generate more physical damage insurance coverage but will be more expensive to repair. PP Auto premium might grow by 5% - 6%.

# Manufacturing Employment, Jan. 2010—July 2015\*





Manufacturing employment is a surprising source of strength in the economy. Employment in the sector is at a multi-year high.

<sup>\*</sup>Seasonally adjusted.



# The "On-Demand" (Sharing) Economy

The On-Demand Economy Will Transform the American Workforce and the P/C Insurance Industry Too

# Labor on Demand: Huge Implications for the US Economy, Workers & Insurers





### The "On-Demand" World is Not New...





Companies like
Angie's List
(established in
1995 and going
online in 1999)
have been
around for
decades

The Geek Squad has been around since 1994...



Peapod sprouted way back in 1989!



# ...But the "On-Demand" World is Exploding as Is the Demand for "On-Tap" Workers







Hate doing laundry?
Washio will do it for you...



Hate doing just about everything? Taskrabbit will take on virtually all your "tasks"...

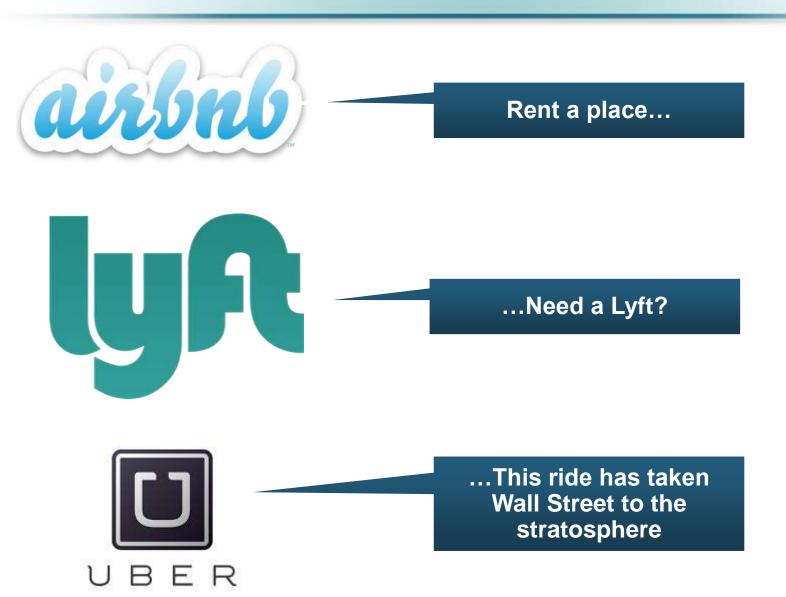
# You Can Live Your Life with the Swipe of a Finger...





### Some Players in the On-Demand Economy Have Become Household Names





# On-Demand/Sharing/Peer-to-Peer Economy Impacts Many Lines of Insurance Insurance

- The "On-Demand" Economy is or will impact many segments of the economy important to P/C insurers
  - Auto (personal and commercial)
  - Homeowners/Renters
  - Many Liability Coverages
  - Professional Liability
  - Workers Comp
- Many unanswered insurance questions
- Insurance solutions are increasingly available to fill the many insurance gaps that arise



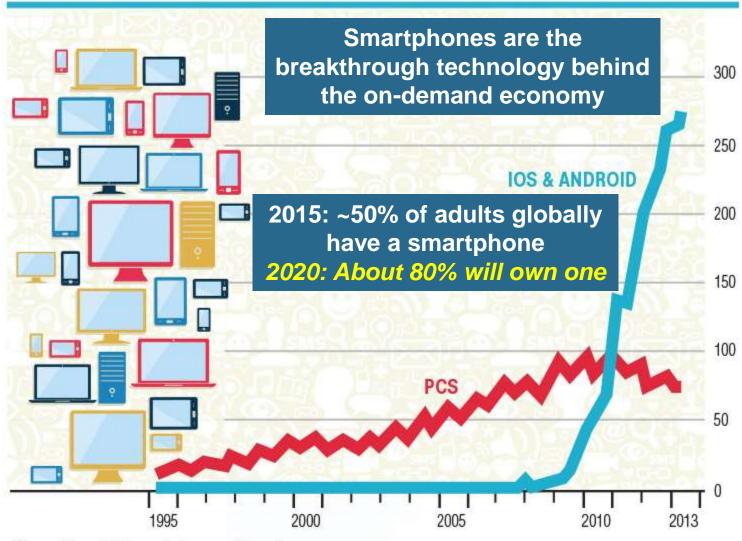


### **Technology and Employment**

# What Makes the On-Demand Economy Possible? Why Does It Matter for Insurers?

### **CHANGING PLATFORMS:**

### **GLOBAL SHIPMENTS OF SMARTPHONES (MILLIONS)**

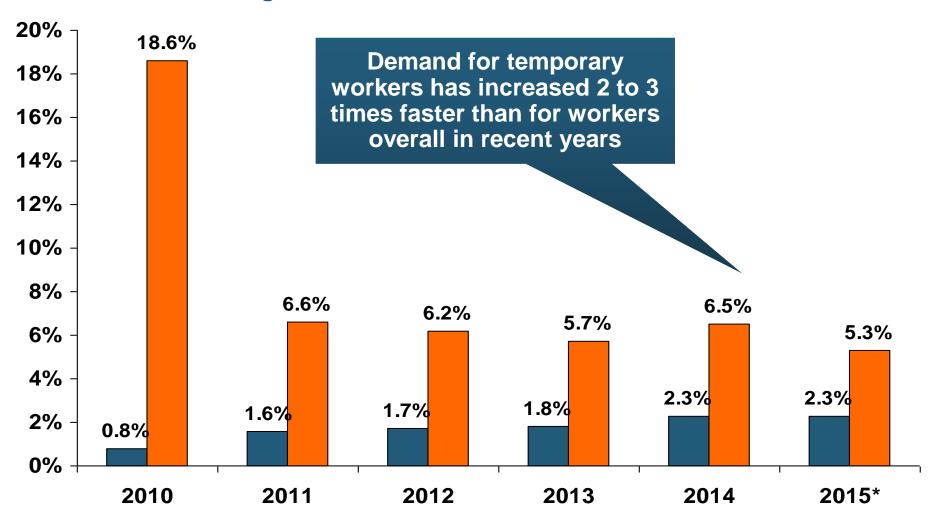


Source: Benedict Evans, Andreessen Horowitz

# Growth in Temporary Workers vs. All Nonfarm Employment, 2010-2015\*





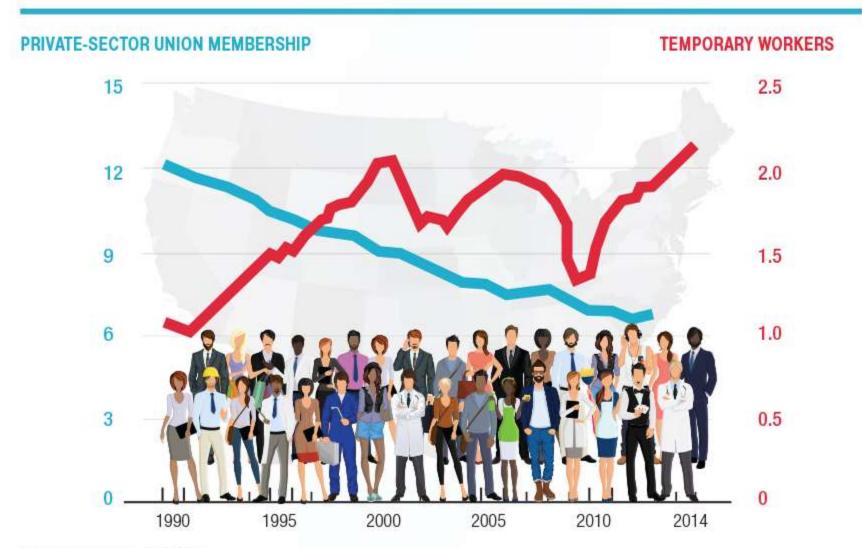


<sup>\*</sup>Through March 2015.

Source: US Bureau of Labor Statistics, Insurance Information Institute.

### THE CASUAL LOOK

### **UNITED STATES, % OF EMPLOYED**



Source: Bureau of Labor Statistics

# The On-Demand Economy and American Workers: What Is Happening?



- Technology is Fundamentally Transforming How Resources are Allocated and Used in the Economy
- Labor is No Exception to this Transformation
- Technology Offers New Opportunities to Match Labor to Jobs
  - Owners of spare capacity (workers with time and skill) can be paired at low cost with those with a demand for that time and skill
  - Bringing together labor and those who employ labor is not new
  - BUT: Pairing occurs with a speed and breadth never before possible
- Witnessing the Demise of the Traditional Understanding of What is Meant by a "Good" Job
  - Concept born in the Industrial Age (1880-1980), is eroding
  - Disintermediation of the firm as the place where labor, jobs matched
- Accelerating Trends that Started with Labor Strife, Globalization and Automation that Began in the 1970s and 1980s

# What's In Store for the American Worker, Labor Force and Workers Comp



### THE NEW AMERICAN WORKER: Two Schools of Thought

### OPTIMISTIC OUTLOOK

- Technology frees workers from the bonds of centralized, hierarchical institutions (the firm)
- Enhanced coordination of "haves" with "needs" that bypass firms as intermediaries

#### Who Benefits?

- "Flexers": People who value or require flexibility in work arrangements (stay-at-home parents, retirees, students, disabled)
- Professionals: People with portable skills that can be offered through online platforms (semi and high-skilled trades, professional services)
- Unemployed/Underemployed: Offers at least some opportunity to offer and utilize skills and generate income

# What's In Store for the American Worker, Labor Force and Workers Comp



### PESSIMISTIC OUTLOOK

- On-Demand companies are software-driven marketplaces and position themselves as "platforms" rather than "employers"
- Enormous valuations (e.g., \$40B for Uber on \$2B in earnings) reflect the extraction of resources that otherwise would go to benefits, investments in safety, training, etc.
  - Uber's valuation was greater than that of 72% of the S&P500 at YE 2014
  - Valued more than Delta Airlines, Kraft Foods, CBS, Macy's, Hilton, Aflac...
- Jobs reduced to freelanced, temporary "gigs"
- Low skill workers and those who lack flexibility are left further behind
- Workers treated as independent contractors without intrinsic or basic economic rights
- What Is Potentially Lost or Compromised?
  - Stability, Retirement Benefits, Sick Pay, Maternity Leave, Overtime
  - Health Insurance, Liability Coverage, Workers Comp Coverage

### Potential Consequences for Insurers



- On-Demand Platforms Have Struggled with Concepts of Liability
- There Has Been a General Resistance to Assuming Liability or Responsibility Unless Compelled to Do So
- Companies Have Sought to Keep as Much Liability as Possible on the Individual Offering their (Contracted) Labor or Resources
- Minding the Gap
  - Traditional insurance will often not cover a worker engaged in offering labor or resources through these platforms
  - E.g., Auto ins. generally won't cover you if you while driving for Uber
  - Home ins. won't cover for other than occasional rentals of property
  - Unless self-procured, on-demand worker (independent contactors) will generally have no workers comp recourse if injured on the job
- Long Legislative and Court Battles Lie Ahead
- Insurance Solutions Becoming More Common



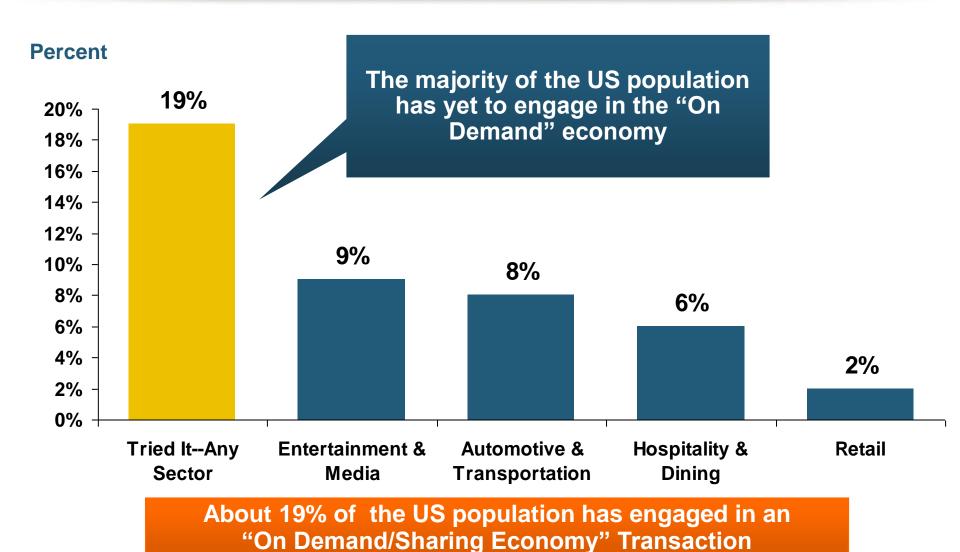
### **On-Demand Workers**

Who Are They?

And Who's Driving Demand for Them?

## Percent of People Who Have Engaged in an "On Demand/Sharing Economy" Transaction

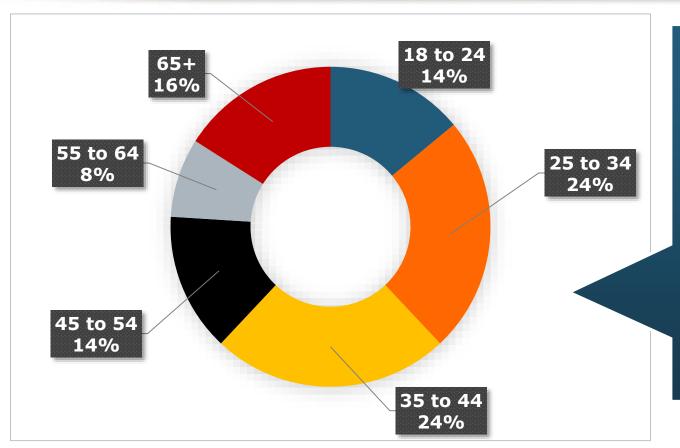




Sources: PwC survey of 1,000 adults in the U.S., conducted online, December 2014; Insurance Information Institute.

# Age of People Who are <u>Providing</u> the Sharing/On-Demand Economy



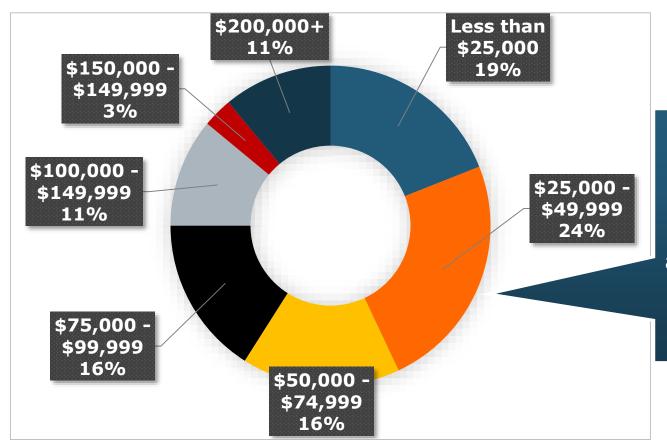


Being a provider of services in the Sharing/On-Demand Economy is attractive to workers in the 25-44 age range (who want flexibility in raising families) as well as seniors age 65+ who see the offering their services on-demand as a way to augment retirement income

About 7% of US population are providers in the Sharing Economy, cutting across age and incomes; 51% of those familiar with the concept could see them selves as providers within the next two years.

# Household Income: <u>Providers</u> of the Sharing/On-Demand Economy





Being a provider of services in the Sharing/On-Demand Economy is particularly attractive to workers with household incomes under \$50,000

About 7% of US population are providers in the Sharing Economy, cutting across age and incomes; 51% of those familiar with the concept could see them selves as providers within the next two years.



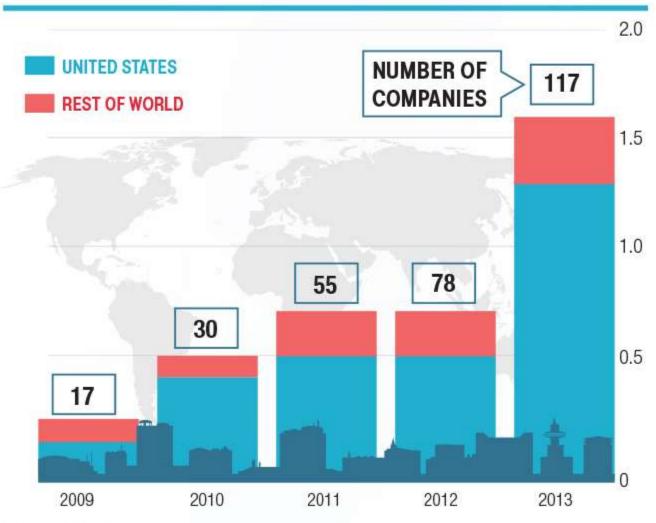
# The On-Demand Economy and Wall Street

Wall Street Loves the On-Demand Economy

Labor Markets, Insurance Markets
Will Be Impacted

#### HERE'S AN IDEA

## VENTURE-CAPITAL INVESTMENT IN THE ON-DEMAND ECONOMY, \$BN



Source: Crunchbase

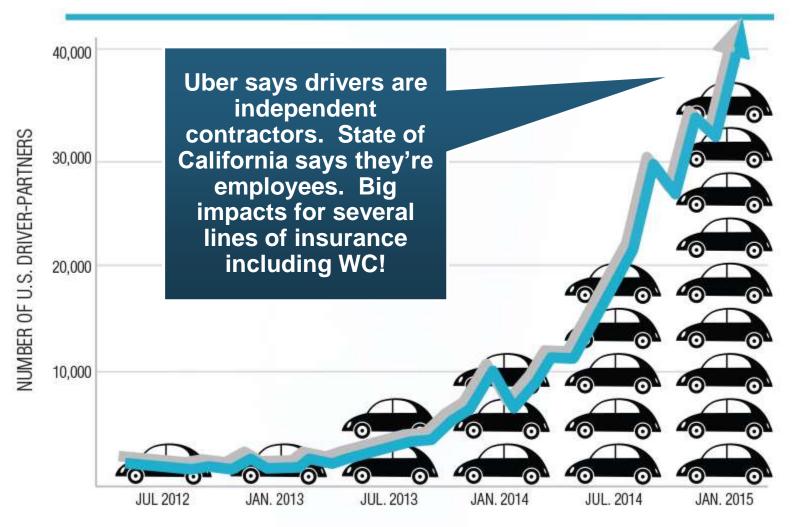


## **An UBER Case Study**

# Uber is the Best Known of the On-Demand Companies Wall Street Loves Uber Vested Interests Hate Uber

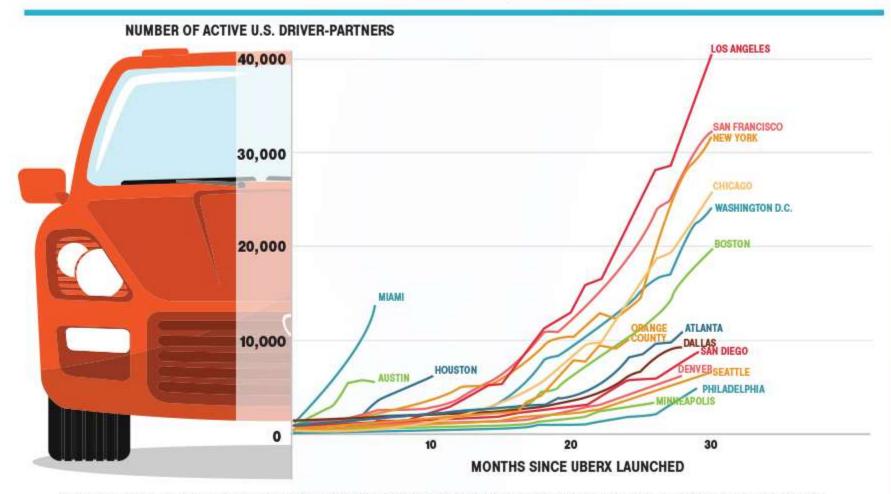


## NUMBER OF NEW DRIVER-PARTNERS STARTING EACH MONTH IN THE UNITED STATES



Note: Figure based on U.S. UberBLACK and uberX driver-partners who have joined since June 2012 (303,985 individuals), based on Uber data.

#### **ACTIVE U.S. DRIVER-PARTNERS OVER TIME, BY CITY**



Note: Figure reports the number of U.S. UberBLACK and uberX driver-partners making at least one trip in the specified month, indexed to the number of months since Uber began in the city or June 2012, whichever came later.

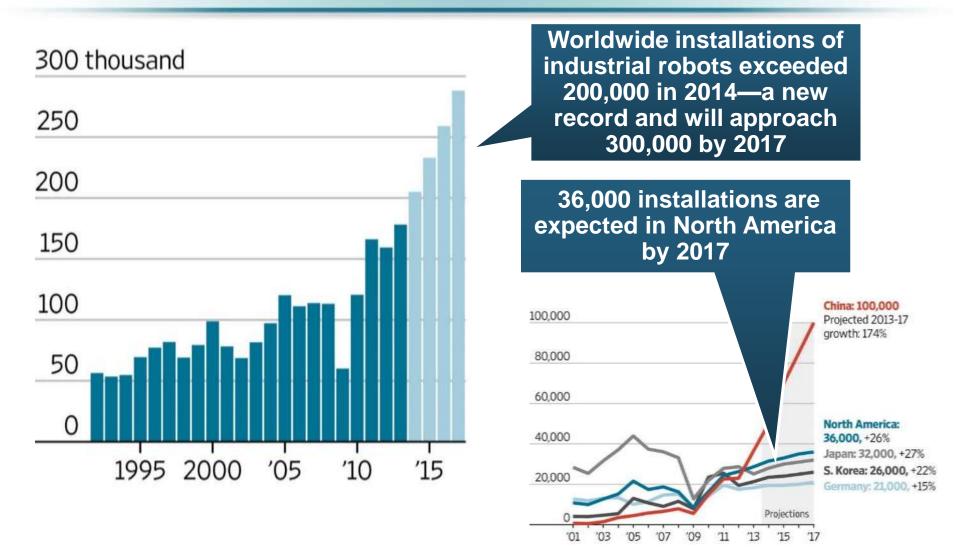


# Looking Ahead: Disruptive Forces Rule

Technology's Impacts on the Economy, the Workforce and the Insurance Industry Will Be Significant

## Worldwide Industrial Robot Installations, 1992-2017F





<sup>\*</sup>Estimate.

Sources: Outlook on World Robotics 2014, International Federation of Robotics; Insurance Information Institute.

# Future Shock: Many More Transformative Technologies Are Around the Corner

2035

DATA: BOSTON CONSULTING GROUP; GRAPHIC BY BLOOMBERG BUSINESSWEEK





By 2035, it is estimated that 25% of new vehicle sales could be fully autonomous models (more than 4 million people work in transportation occupations today)

#### **Up Next**

- Driverless cars
- Driverless trucks, trains, planes and ships
- Wearable devices
- Implantable devices
- Artificial intelligence
- Advanced robotics

Source: Boston Consulting Group.

2016



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