

October 20, 2015

# Where's the Growth?

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PINE BROOK

# The Question of The Day

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# Today's Talk

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1. Is There a Growth Problem?
2. Conundrum for the FED
3. The Great Debt Debate
4. Investment and Productivity

Is There a Growth Problem?

# Growth Is on Everybody's Mind

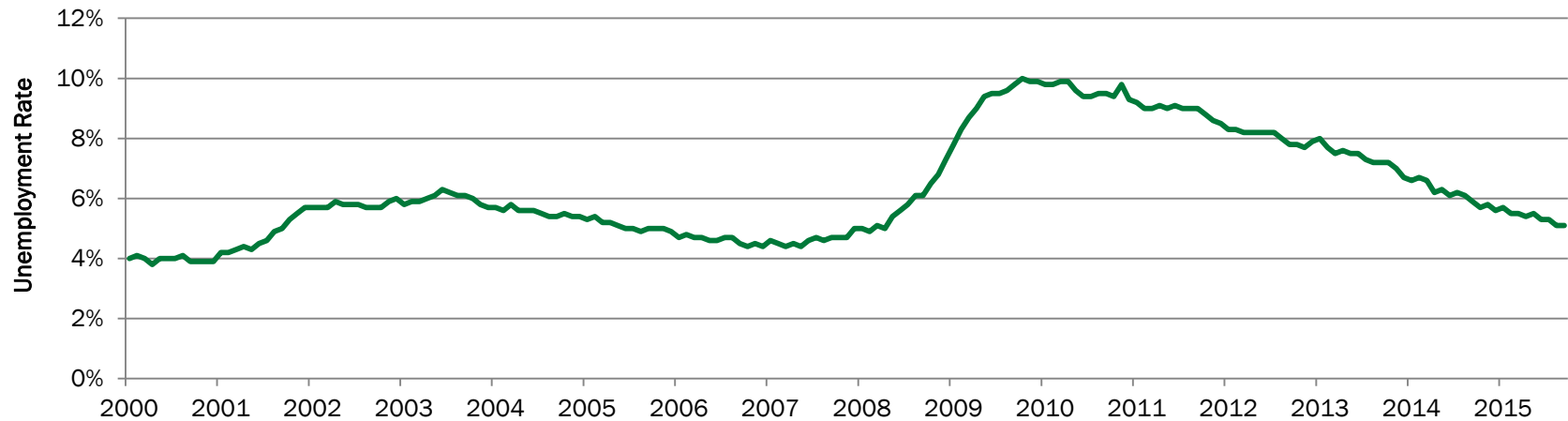
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- IMF predicting lower growth globally
- FED delayed raising rates because of global growth and stability concerns
- Even the Democratic debate participants are running against the economic record of the past 7 years

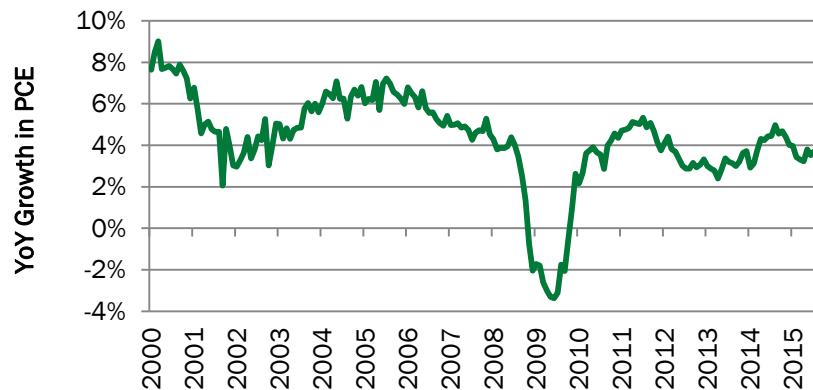


# The U.S. Economy Is Doing Just Fine

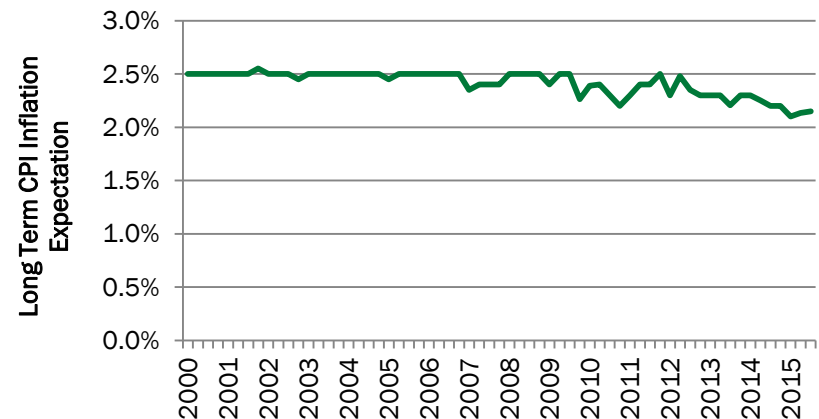
## Close to Full Employment



## Consumer is Alive and Well








## Inflationary Expectations “Well Anchored”



## Headwinds? Not Many

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Housing?	Recovery proceeding	
Credit?	Generally available	
Energy?	Stable	
Fiscal Policy?	Stable	
Slow Growth Abroad?	Some concern	



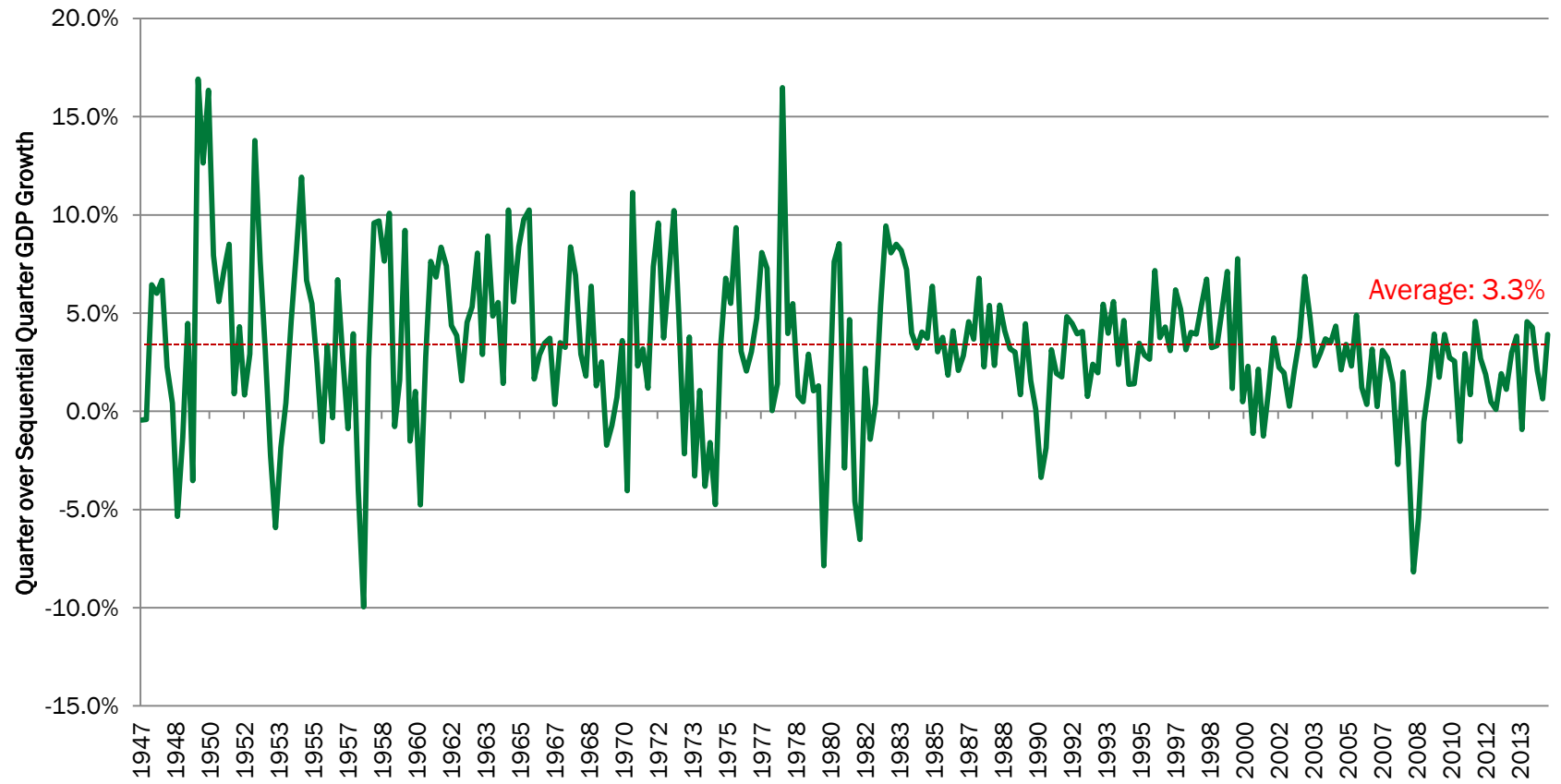
# Nagging Concerns

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- Real wage growth still inadequate
- Productivity growth remains muted
- Inequality is on everybody's mind
- Strong dollar/problems abroad
- Why didn't the FED tighten?

# There Is a Secular Problem, Not a Cyclical One

## Real GDP Growth (Quarterly Rates, Annualized)



# So Here is Today's Big Question

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The FED

# Is Monetary Policy No Longer Effective?



# The Decision to Defer

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- FED's decision to defer an interest rate increase pleased almost nobody
- Did it signal a concern about the U.S. economy?
- Did it signal a concern about the stability of the global financial system?
- Did it signal that the FED remains trapped in the deflation silo?



# The FED's Perspective: Deflation

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- Deflation caused the Great Depression
  - Tight money, bank failures and the absence of credit
- Deflationary spiral impossible to address after it begins due to the “zero rate bound” constraint
- Growth requires credit-especially consumer and mortgage credit
- Focus on the health of the financial sector
- Cannot address the underlying macro causes of a crisis after it begins



# The FED's Perspective: Inflation

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- Need some inflation so that monetary policy can be effective when needed
- Inflationary expectations are well rooted-and need to stay well rooted
- Current inflation is below the 2% target in adopted in 2012
- Real interest rates reflect expectations about inflation
- Deflation still a major concern given the persistence of low inflation



# The FED's Longer Term Problem

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- Monetary policy works by creating debt
- Debt increases the instability of the system
- Instability reflects the cumulative debt balance in the system
- Using monetary policy to grow the economy creates the very macro prudential risks the FED seeks to avoid-and using monetary policy to slow the economy actualizes those risks as debt holders seek to avoid capital losses

# Why Is Monetary Policy Not Working?

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- Rational expectations explanation
  - Inter-temporal budget constraint
  
- Sticky return requirements of investors
  - Required risk premium is a function of the activity, not the availability of capital
  - Driving returns down means driving asset prices up which makes investment unattractive
  
- Reduced consumption by savers at zero rates
  
- Will raising interest rates actually help the economy?

# The FED's Conundrum

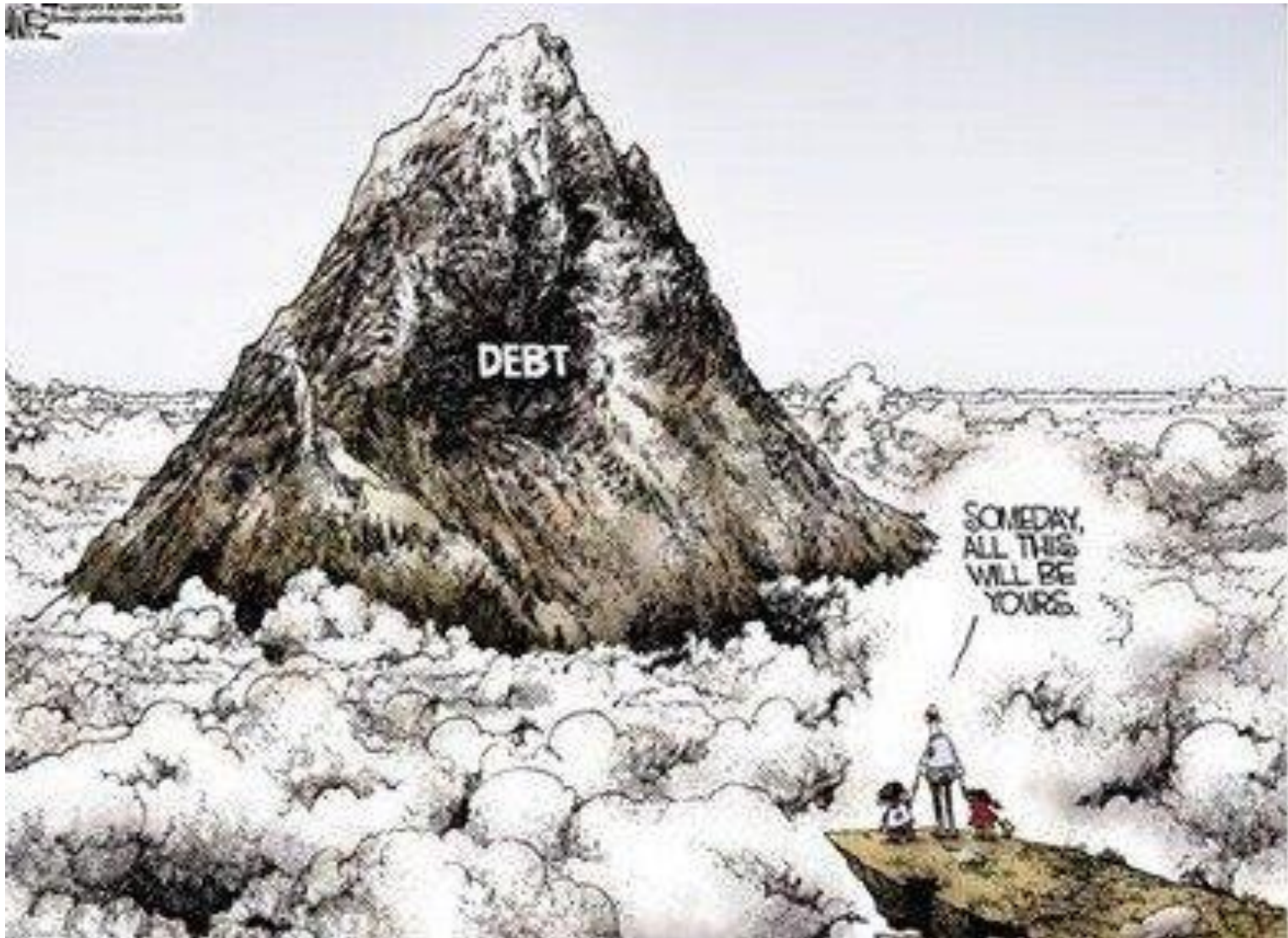
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- The FED is caught between its two policy goals (full employment and price stability) and its macro prudential obligations.
- Macro prudential issues will always tilt the decision toward easing
- Deflation concerns tilt toward easing
- Cumulative easing may hurt animal spirits, investing and growth
- Short term stimulus may create a long term problem for the economy

# The Great Debt Debate

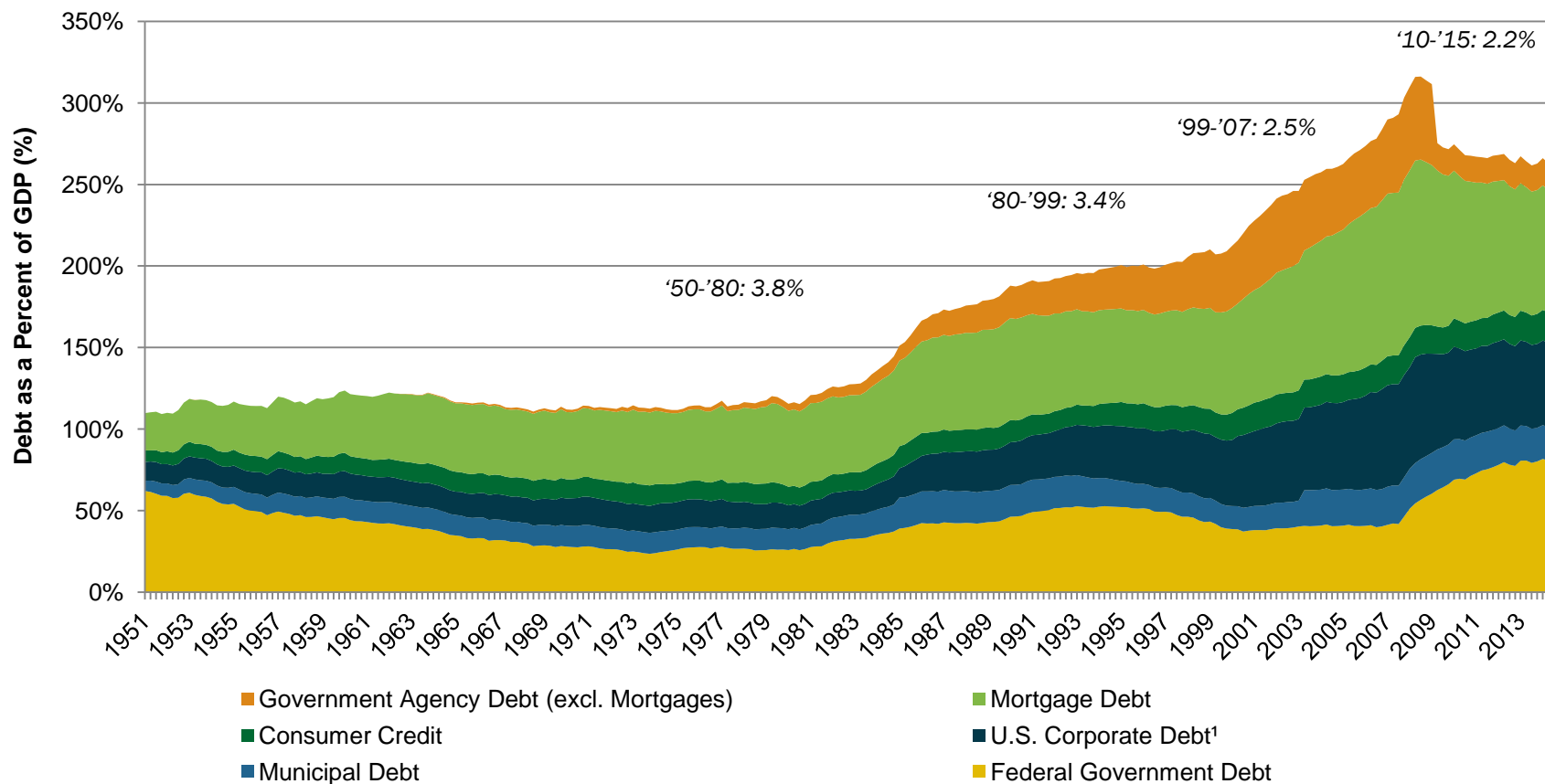
# Crushed by Debt?

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# Aggregate Debt and Growth Negatively Correlated

## Selected Credit Classes as a Percent of GDP



Source: Federal Reserve Board, St. Louis Federal Reserve

Note: Italicized numbers indicated compounded real GDP growth during the period.

1) Excludes U.S. held debt of foreign institutions.

# Growth Seems to Have Been Hurt by Relying on Consumption

	Average Personal Consumption Share of Gross GDP	Average Percent Increase in Real GDP <sup>1</sup>
Year	Share	Growth
1960 – 1970	59.8%	4.5%
1970 – 1980	60.5%	3.4%
1980 – 1990	62.5%	3.2%
1990 – 2000	64.7%	3.4%
2000 – 2010	67.3%	1.7%
2010 – 2015	68.4%	2.2%

Source: St. Louis Federal Reserve

1) Real GDP growth calculated by annualizing quarter over sequential quarter growth.

# Investing Is Not Down Enough to Explain Subdued Growth

	Average Private Investment Share of Gross GDP	Average Percent Increase in Real GDP <sup>1</sup>
Year	Share	Growth
1960 – 1970	16.5%	4.5%
1970 – 1980	17.9%	3.4%
1980 – 1990	18.5%	3.2%
1990 – 2000	17.3%	3.4%
2000 – 2010	17.8%	1.7%
2010 – 2015	15.4%	2.2%

Source: St. Louis Federal Reserve

1) Real GDP growth calculated by annualizing quarter over sequential quarter growth.



# Government Spending Not A Factor

	Average Government Spend Share of Gross GDP	Average Percent Increase in Real GDP <sup>1</sup>
Year	Share	Growth
1960 – 1970	23.1%	4.5%
1970 – 1980	21.8%	3.4%
1980 – 1990	20.8%	3.2%
1990 – 2000	19.2%	3.4%
2000 – 2010	19.3%	1.7%
2010 – 2015	19.4%	2.2%

Source: St. Louis Federal Reserve

1) Real GDP growth calculated by annualizing quarter over sequential quarter growth.

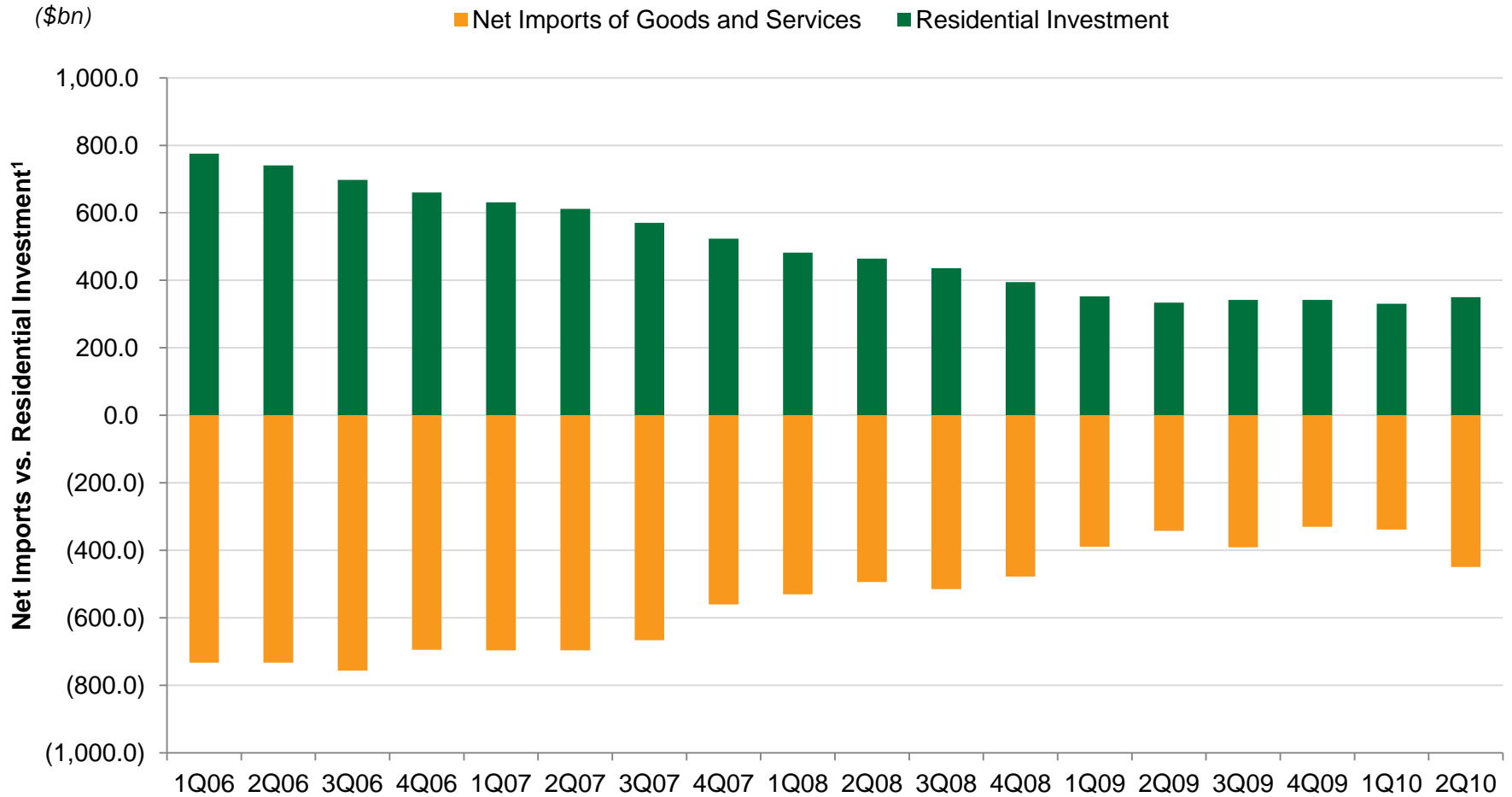
# Net Exports Have Had an Impact

	Average Net Exports Share of Gross GDP	Average Percent Increase in Real GDP <sup>1</sup>
Year	Share	Growth
1960 – 1970	0.6%	4.5%
1970 – 1980	(0.2)%	3.4%
1980 – 1990	(1.7)%	3.2%
1990 – 2000	(1.2)%	3.4%
2000 – 2010	(4.4)%	1.7%
2010 – 2015	(3.2)%	2.2%

Source: St. Louis Federal Reserve

1) Real GDP growth calculated by annualizing quarter over sequential quarter growth.

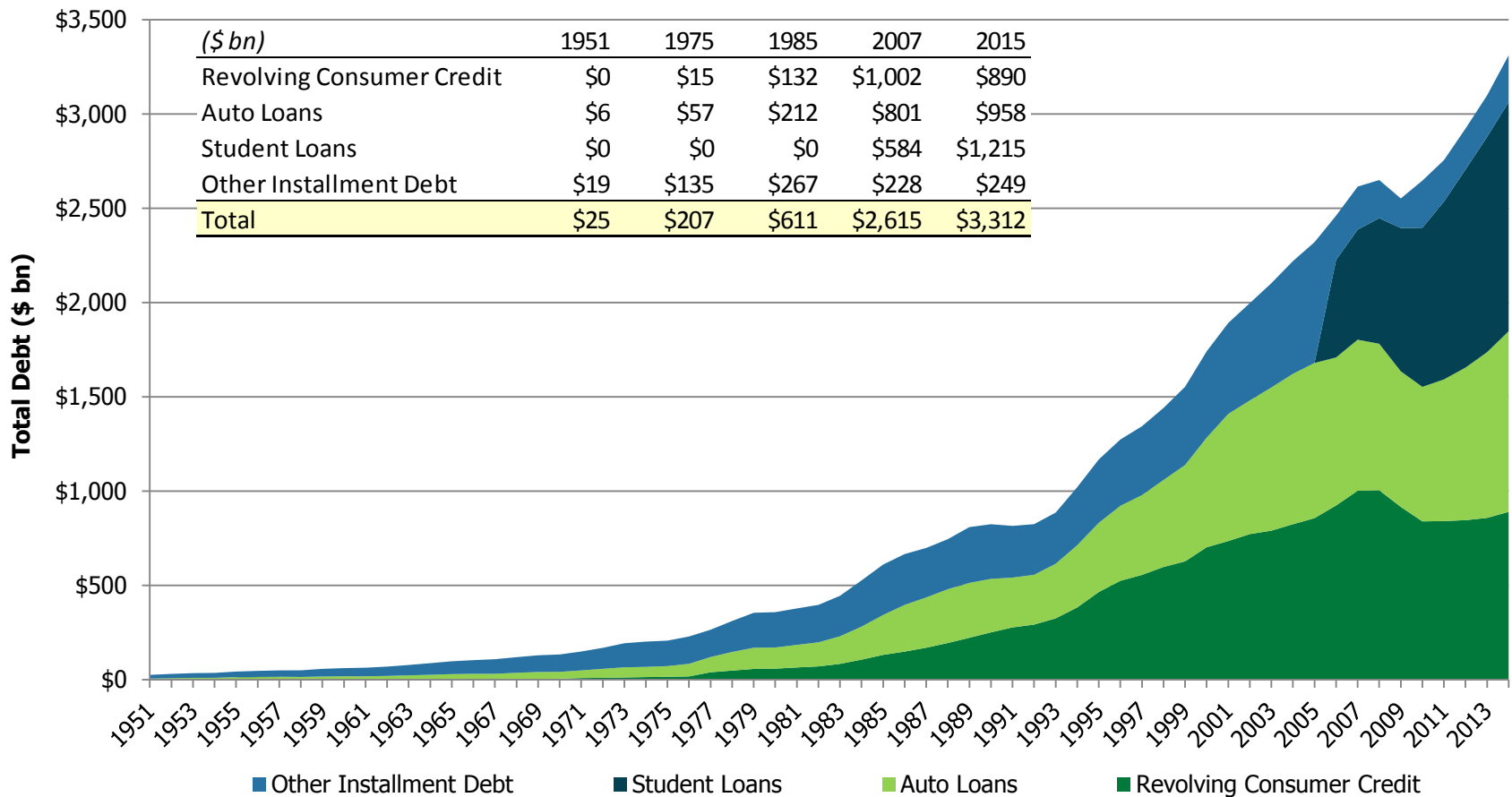
# Financing Housing Instead of Financing Investment



Source: Bureau of Economic Analysis

# Consumer Debt : Cause or Effect?

## Aggregate Consumer Debt



# The Two Faces of Debt

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- Debt allows current consumption to increase
  - Monetary policy works by encouraging/discouraging consumption
  
- Debt requires future consumption to decrease
  - Less true if debt finances income
  - Compounded if debt finances consumption, including housing
  - Research shows that it would take a tax rate on future generations of 74% to satisfy the government's inter-temporal budget constraint

# Debt As a Macro Economic Variable

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- Aggregate debt increases financial instability
- Aggregate debt ties the hands of the monetary authorities
- Aggregate debt dampens animal spirits and hampers investment

# Investment and Productivity

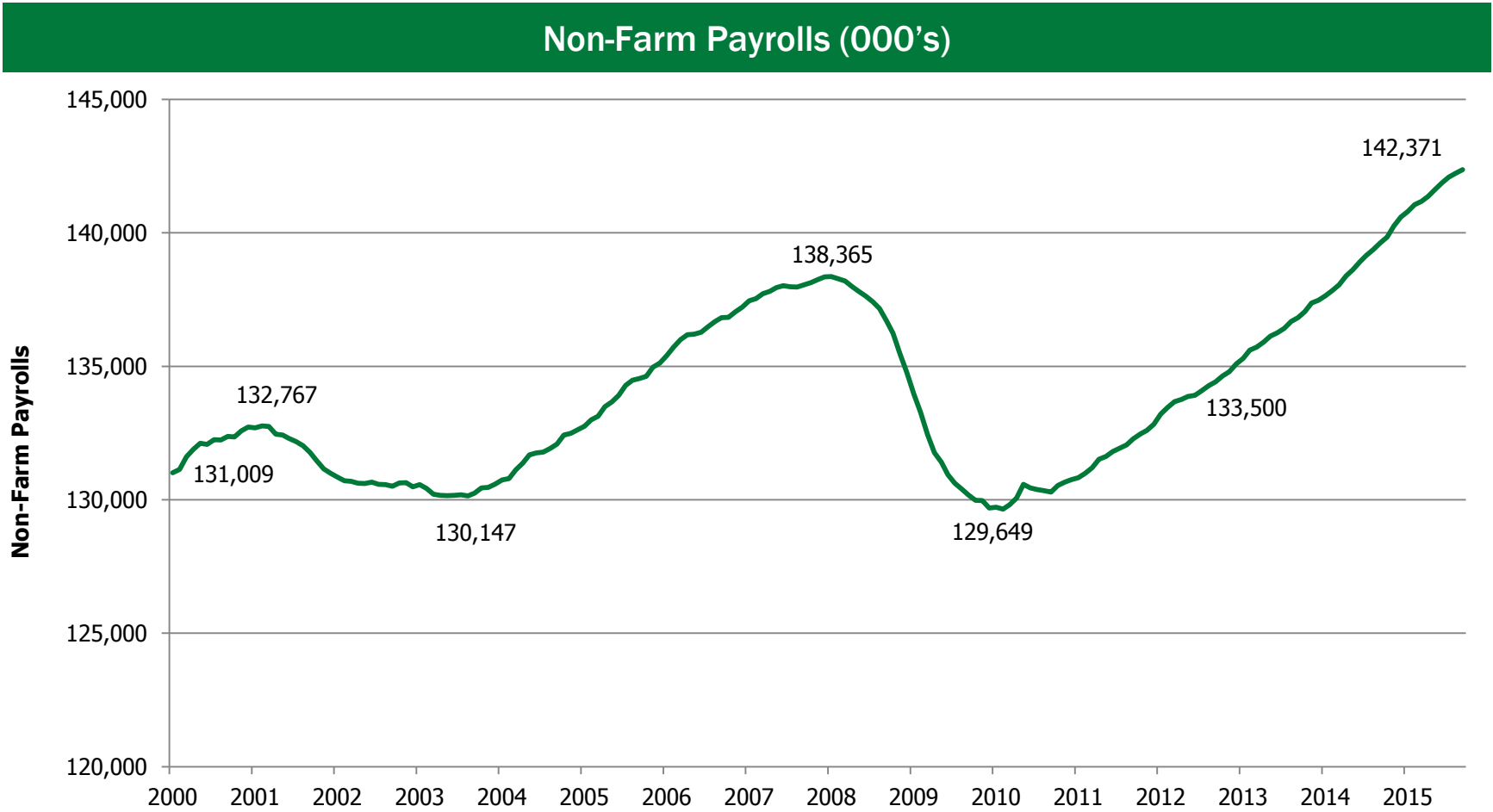
## There's Something About Investing

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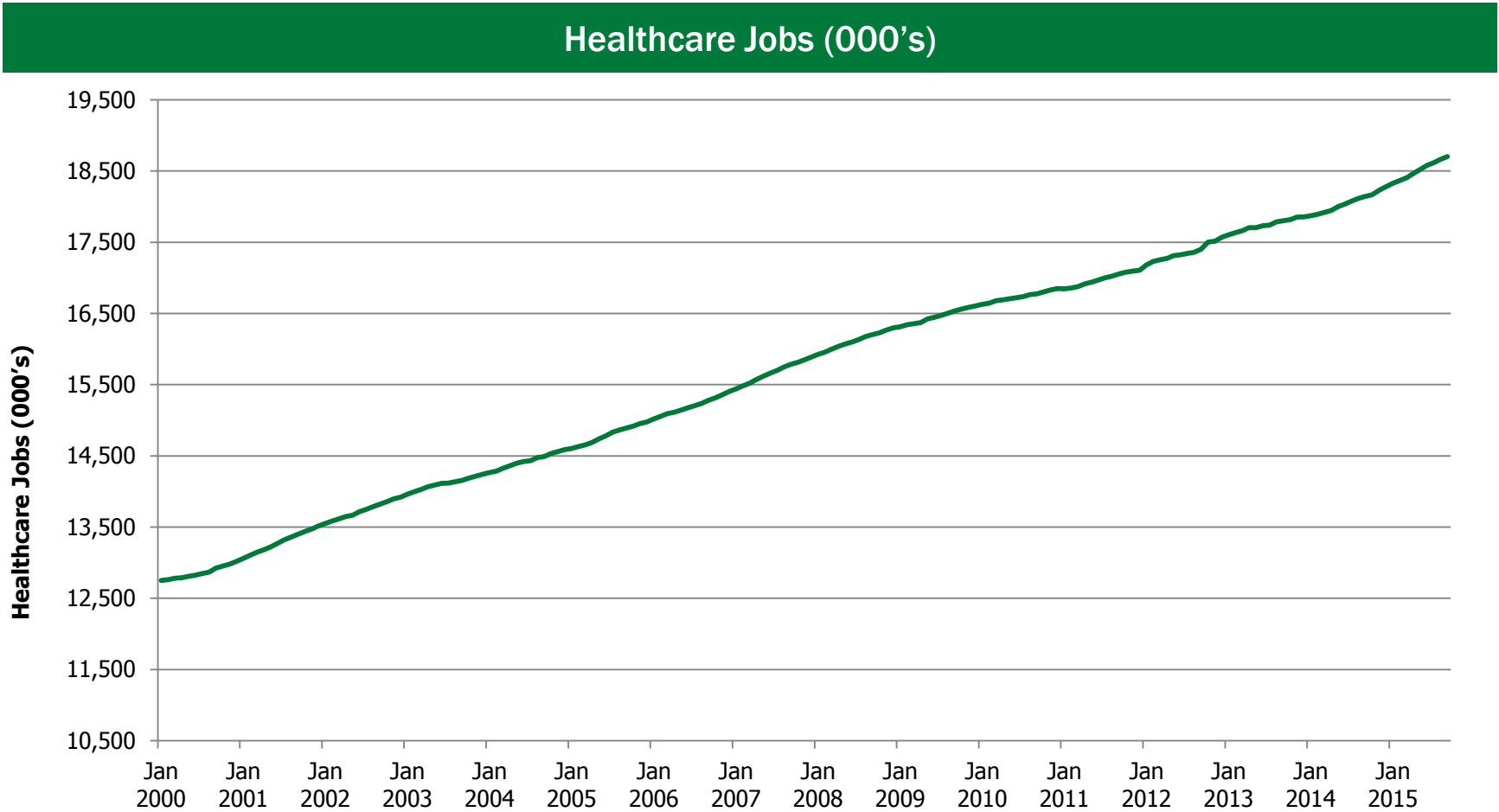


# Since 2000, the U.S. Created 11 Million Jobs



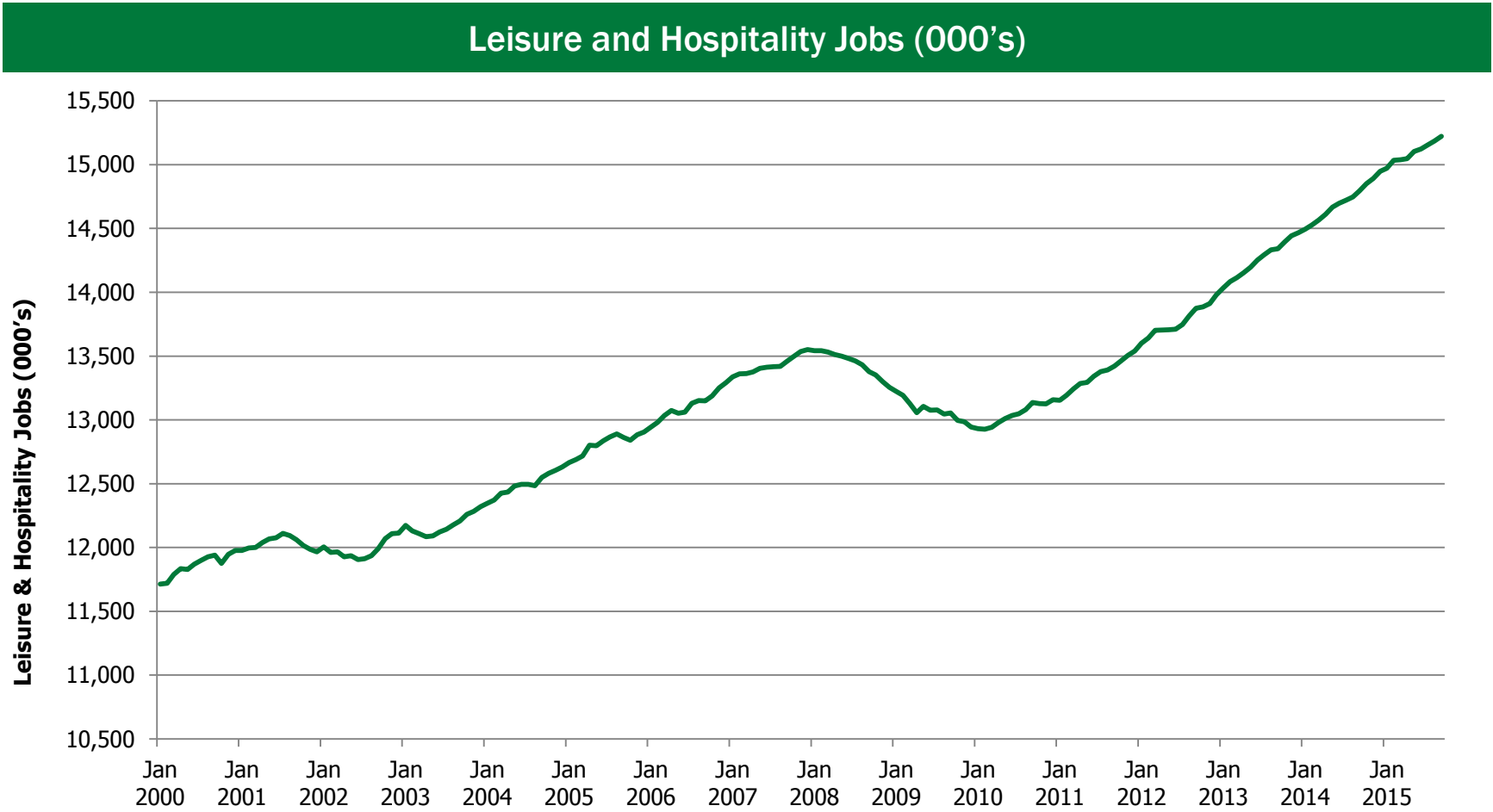
Source: St. Louis Federal Reserve

# Secular or Cyclical: Healthcare



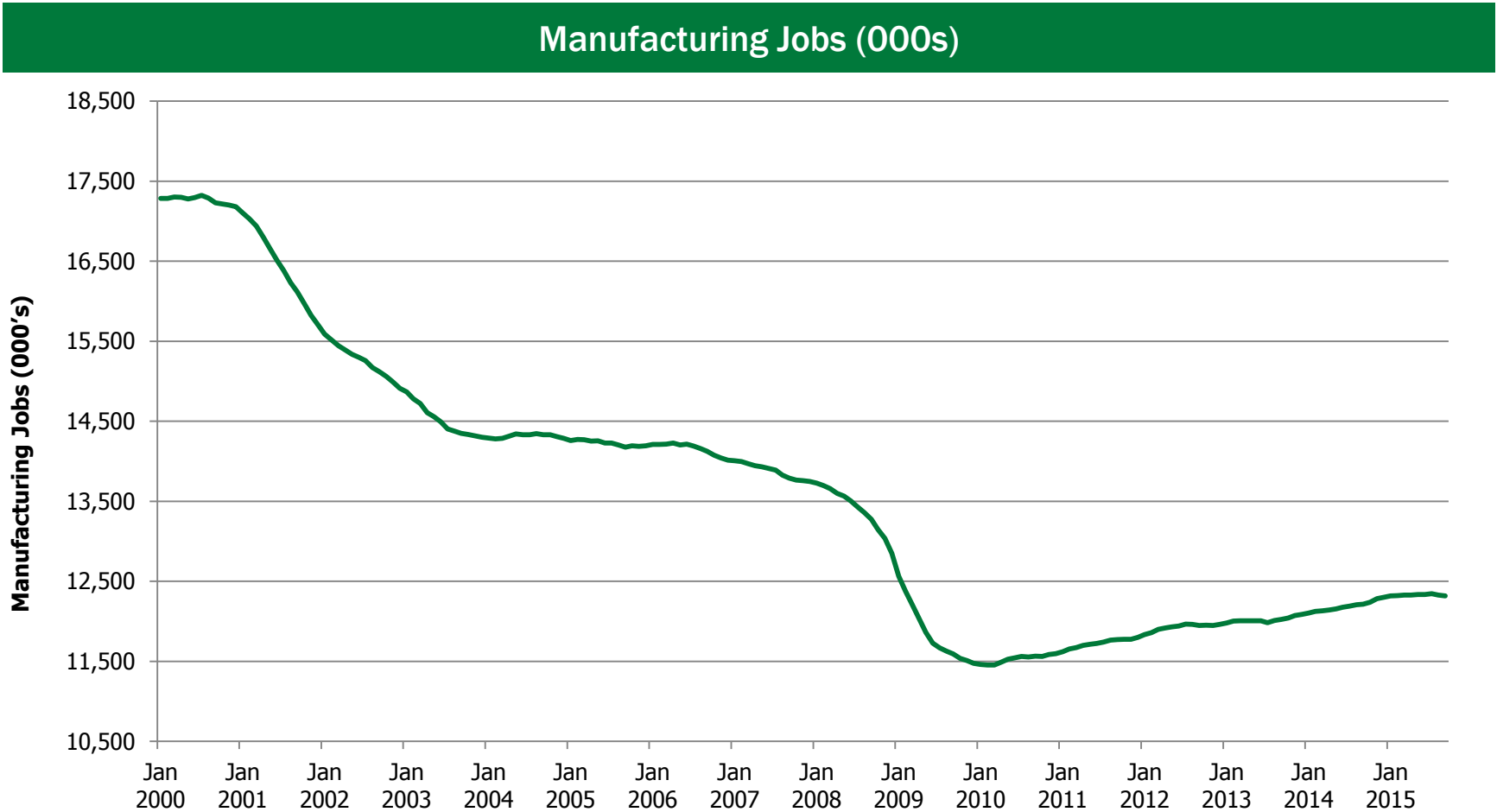
1) Source: Bureau of Labor Statistics.

# Secular or Cyclical: Leisure and Hospitality



Source: Bureau of Labor Statistics.

# Secular or Cyclical: Manufacturing



Source: Bureau of Labor Statistics.

# Where Are Jobs Being Created?

<i>(Jobs in 000's)</i>	January 2000	September 2015	Variance (#)
Secular Growth in Employment	14,959	22,153	7,194
Cyclical Growth in Employment	94,980	105,099	10,119
Declining Employment	20,842	15,119	(5,723)
<b>Total Non-Farm Employment</b>	<b>130,781</b>	<b>142,371</b>	<b>11,590</b>

Source: Bureau of Labor Statistics.

1) Changes shown in real GDP is from 1999 - 2014. GDP is in chained 2009 dollars.

# Creating Jobs without Creating Productivity

	Change Between 2000 – 2015		
	Jobs <sup>1</sup>	GDP <sup>2</sup>	Annual Change in Labor Productivity
Secular Growth	48.1%	46.1%	(0.1)%
Cyclical Growth	10.7%	30.8%	1.1%
Declining Employment	(27.5)%	39.1%	4.4%
Total	8.8%	33.3%	1.4%

Source: Pine Brook internal analysis, Bureau of Economic Analysis, and Census.

1) Change in jobs represents growth from seasonally adjusted annualized data from Jan 200 – Sept 2015.

2) Change in GDP is from 1999-2014. Data set only available annually. GDP is in chained 2009 dollars.

# Investing Creates Productivity and Wage Growth

	Change Between 2000 – 2015			
	Aggregate Capital Expenditure (\$bn)	% of Total Aggregate Capital Expenditure	Aggregate Capital Expenditure (\$) per Average Worker	Aggregate Capital Expenditure (\$) per New Worker
Secular Growth	\$1,335	8.7%	\$72,367	\$185,538
Cyclical Growth	\$9,925	64.8%	\$139,688	\$980,863
Declining Employment	\$4,048	26.4%	\$243,878	n/a
Total	\$15,308	100.0%	—	—

**Summary and Conclusion: Where's the Growth?**



# Summary

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- The U.S. economy is growing, but not at a rate to make everyone happy
- The FED's statutory obligations of full employment and price stability conflict with its macro prudential obligations
- Debt overhang looms large and may be impacting investment
- For most of this century, the US has been creating too many jobs in productivity resistant industries –perhaps because they have not attracted investment, or perhaps because of other factors

# The US has a “Use of Proceeds” Problem

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- The economy has been creating jobs that are productivity resistant
- Over-investing in housing may be creating drag on US productivity
- Recent drivers of recovery-energy, housing and credit expansion-have done what they can do
- Absent a change in policy and politics, “more of the same” is the most likely outcome for the US economy