

GDP ... Profits ... Equities

All That Matters is Growth

And Policies That Promote Growth

- ❖ Three Invariant Rules.**
- ❖ What Happened? Why?**
- ❖ Recessions: They Happen. They End.**
- ❖ Big Positives. Big Risks.**
- ❖ A Map of Possible Outcomes.**

Three Invariant Rules

1. Real GDP Growth = P + N

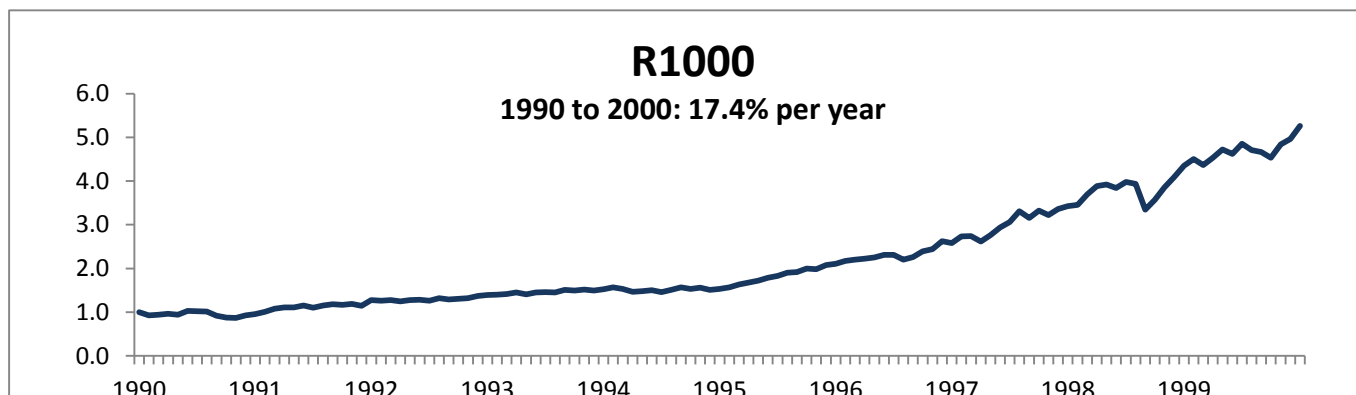
P = productivity growth

N = working population growth

2. Equity returns = Δ EPS + Δ PE + dividends

3. Never fight the Fed, ECB, or a liquidity flood

When Earnings Grow and PEs Expand



Dec. 31, 1990 to Dec. 31, 2000	R1000	R1000 Value	R1000 Growth
Actual Return, Annualized	17.4%	17.4%	17.3%
Earnings Growth	9.5%	9.6%	6.9%
Multiple Change Annualized	5.1%	4.0%	8.2%
Dividend	2.2%	2.9%	1.2%
Estimated Annualized Return	17.6%	17.2%	17.1%
P/E (Year 1) at Dec. 1990	14.1	12.3	16.3
P/E (Year 1) at Dec. 2000	23.2	18.14	35.9

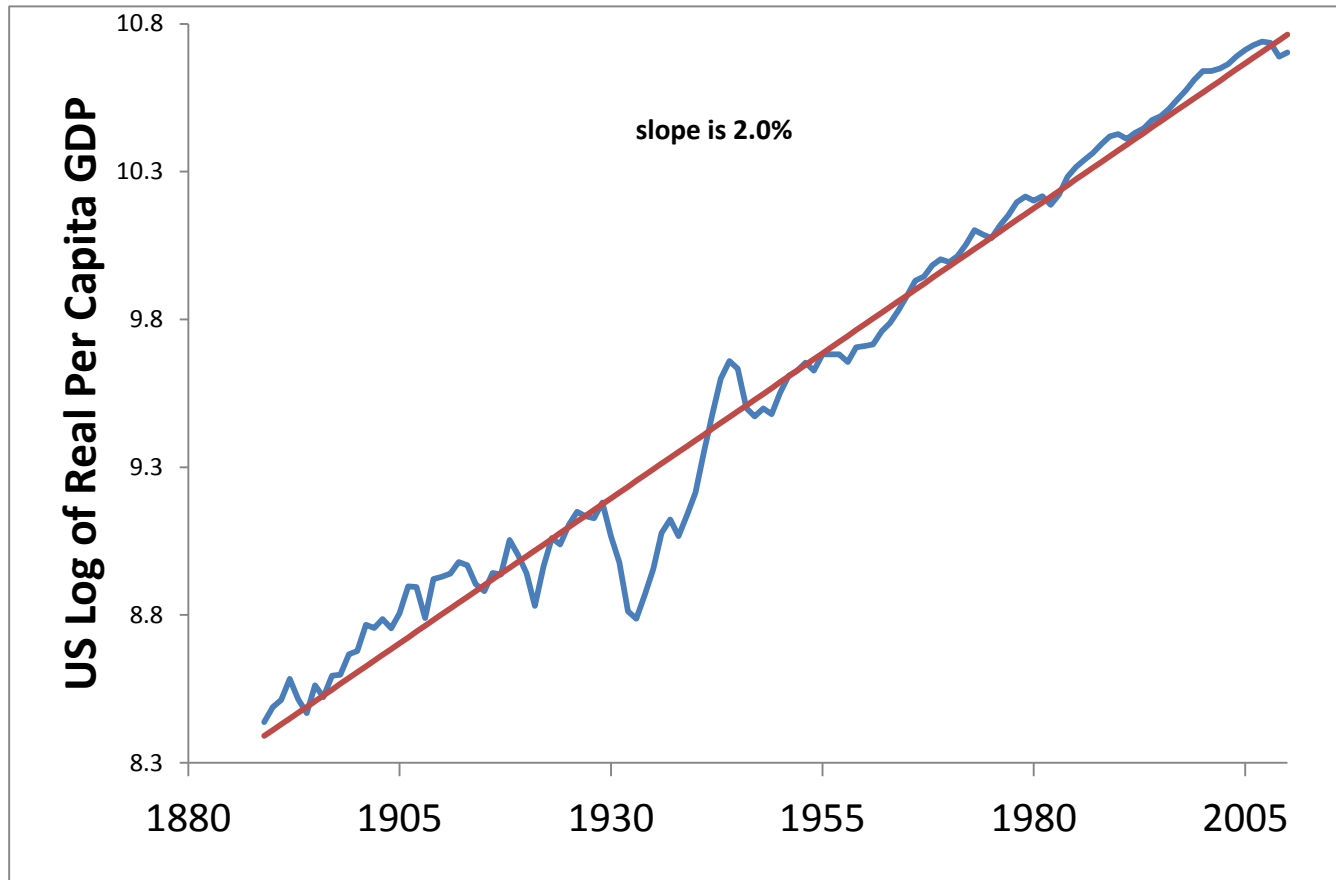
Some Perspective: The Remarkable US

Productivity growth = 2.0% since 1890

Trend GDP growth = 3.0% since 1890

Productivity growth = 2.1% since 1950

Trend GDP growth = 3.2% since 1950



source: Robert Lucas, Kevin Murphy. Bureau of Census. Department of Congress

What Happened? How Bad?

2008 -

-2012

Imbalances

- US housing
- US savings
- Global savings (current account imbalances)
- Eurozone productivity, wage disparities

Events

- US housing bubble bursts
- Lehman/Reserve fund failures
- US non-bank bank run, 11% of GDP
- A sudden stop worldwide, then recession
- The Fed and FDIC save the day
- US federal fiscal stimulus; state & local austerity
- Austerity in the UK
- China and other EM stimulus
- Central Banks absorb exploding government debt
- Greece debt problems and bailout, and no growth

- US QEs
- Eurozone: LTRO, ESM, ESFS, ECB
- Growing fiscal deficits
- Sovereign debt no longer risk free
- Eurozone, austerity dominates
- Greece: bank runs, default and euro future
- Contagion: Spain & Italy
- Southern Europe in recession
- Eurozone at stall speed; PMIs below 50
- UK at recession speed
- US growing, below trend
- EM growing, but slower pace--China slowing

Perspective

Eurozone 1945

100mm people < 1,500 calories/day
Communism on the rise: 40% in Italy
Life Expectancy (1950); circa 66 years

US 1929

Inflation: 0.0%
Long-term bond yield: 3.6%
GDP per capita (2005\$): \$8,106
Life expectancy: 57 years

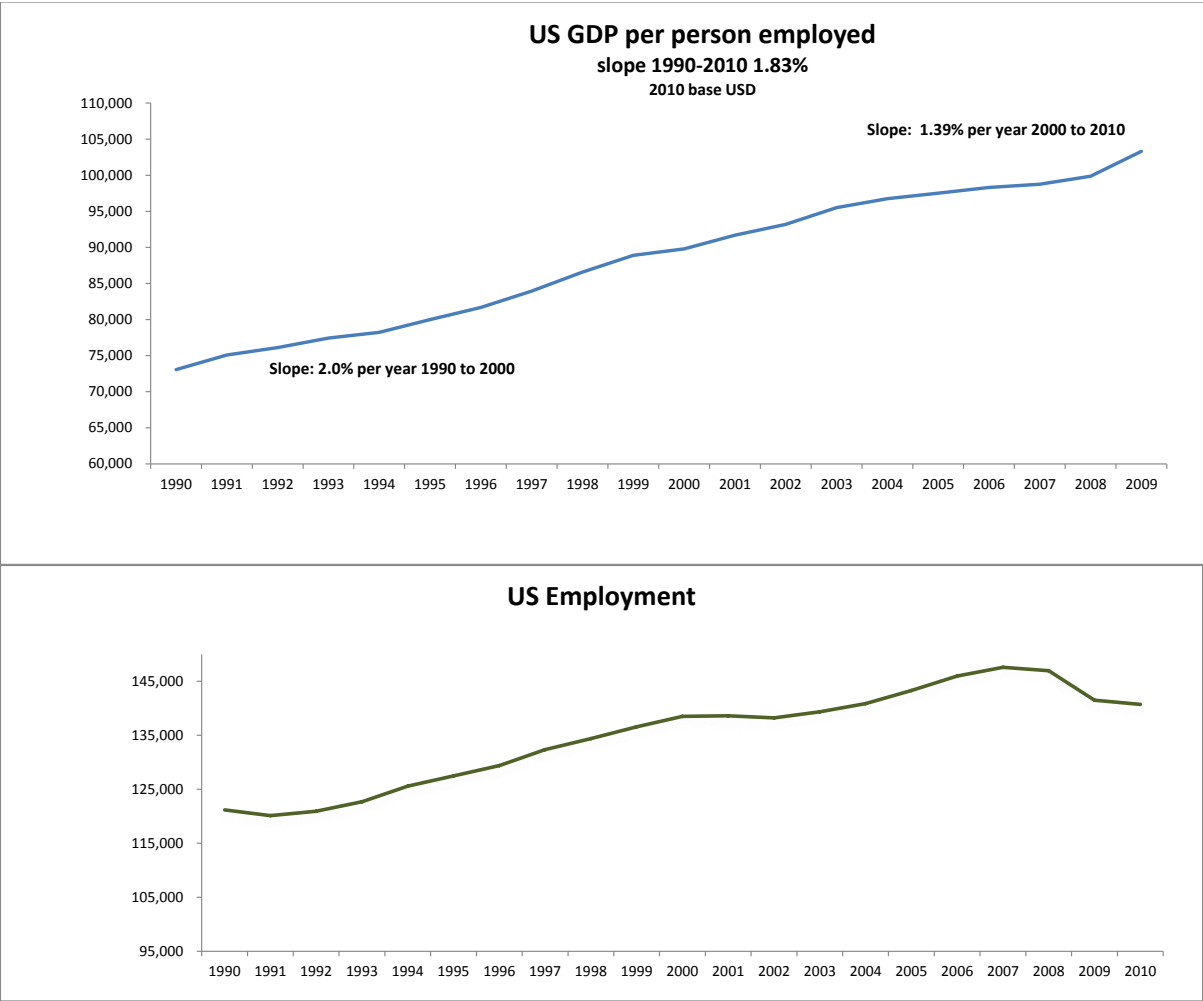
US 1980

Inflation: 13.5%
10-year bond yield: 13.6% (February)
GDP per capita (2005\$): \$25,640
Life expectancy: 74 years

US 2010

Inflation: 1.6%
10-year bond yield: 3.3%
GDP per capita (2005\$): \$42,832
Life expectancy (2008): 78 years

Here is the Challenge



source: Conference Board Total Economy Data Base (TED). Stephen Sexauer

Recessions and Growth

- **Recessions happen. Recessions clear imbalances.**
- **Growth comes from change (productivity), not from the Fed.**
- **Stopping change stops growth—and keeps the imbalances.**
- **Productivity from:**
 - **Human capital**
 - **Physical capital = investment = profits (a good thing)**
 - **Improvements in technology and innovation**
- **Growth uses lots of energy.**

Big Positives

- **Profits**

- **At all-time high as a % of GDP**
- **Near the long-term trend; innovation continues**
- **Corporate balance sheets: rebuilt/strong**

- **Imbalances**

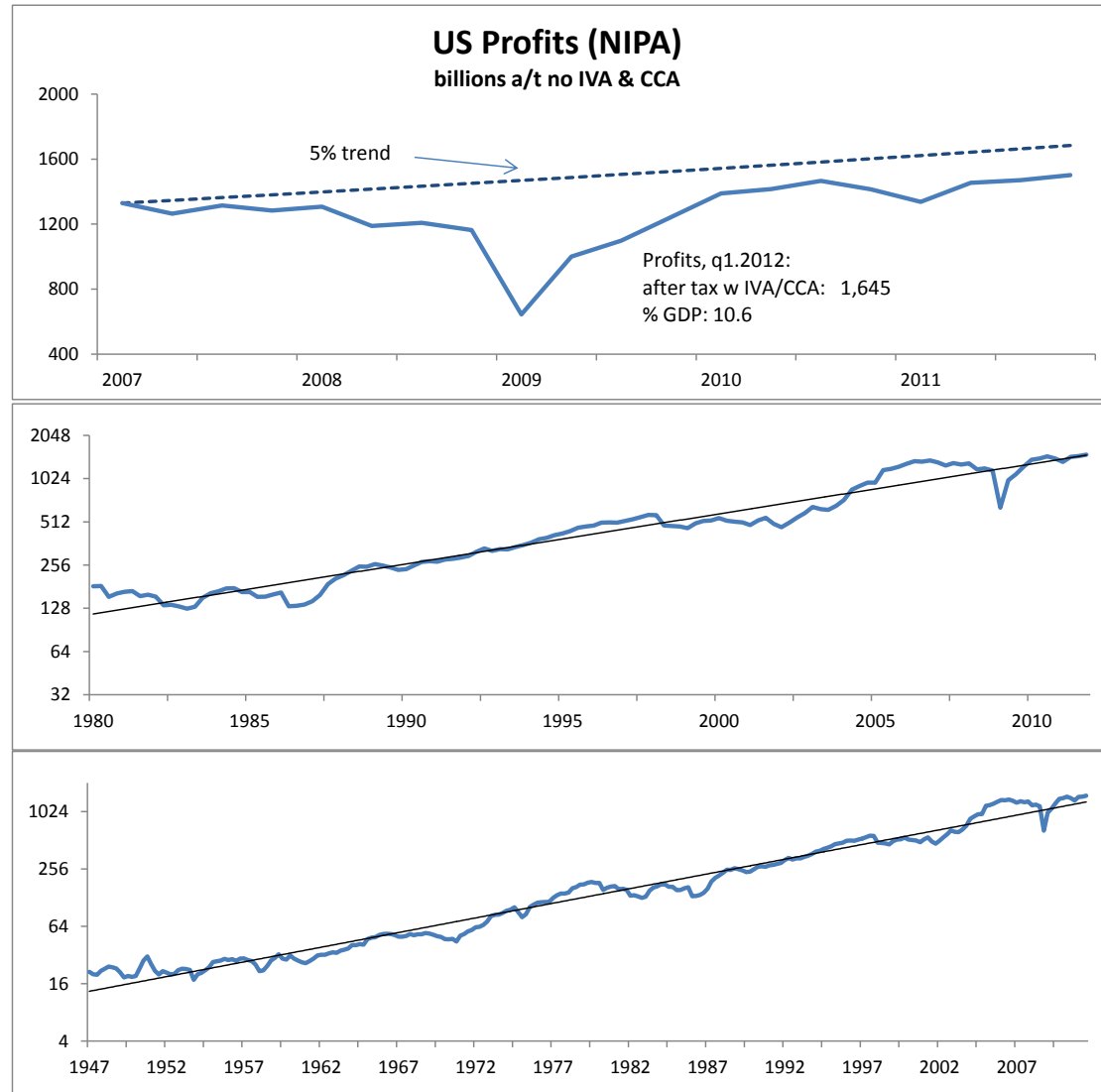
- **\$1 trillion in bad assets written off—limited Zombie banks**
- **Housing trend demand is 1 million units; supply of starts is running at 480-760k; some inventory shortages**
- **US Savings rate: household and corporate**

- **Energy and Manufacturing**

- **Energy supply: global growth constraint lessened**
- **Balance of payments gains**
- **Global political rebalancing**
- **US manufacturing boom**

US Profits

Since Q4.2006: before tax, 3.4% p.a.; after tax, 4.1% p.a.



source: BEA

Energy: Global Growth Uses a Lot of It

Real GDP Growth = P + N (P = productivity. N= employment)

8 barrels of Oil = One life's work

Output per life per person:

11.2 billion gram-calories. **44 million BTUs**

(think farmers in Western China, emerging markets)



60 barrels of oil = One year's work

Output per year per person:

84 billion gram-calories. **333 Billion BTUs**

(think you and me, developed markets with technology)



When 2 billion-plus people in third-world economies are pursuing a better life, they will need energy to succeed. A life's work of labor for them is about 8 barrels of oil of output (BTUs). People in the developed world have working for them about of 60 barrels of oil of energy every year--from making iPhone chips to surgical scalpels to building our roads. An energy supply curve that is upward sloping and shifting to the right (driven by incentives, innovation, and technology) makes all the difference.

Energy and Tail Risk

North Dakota's Bakken Field:

- **2003: 10,000 b/d produced**
- **2/2012: 558,000 b/d produced--55-fold increase**
- **Forecast: 1,200,000 by 2020**

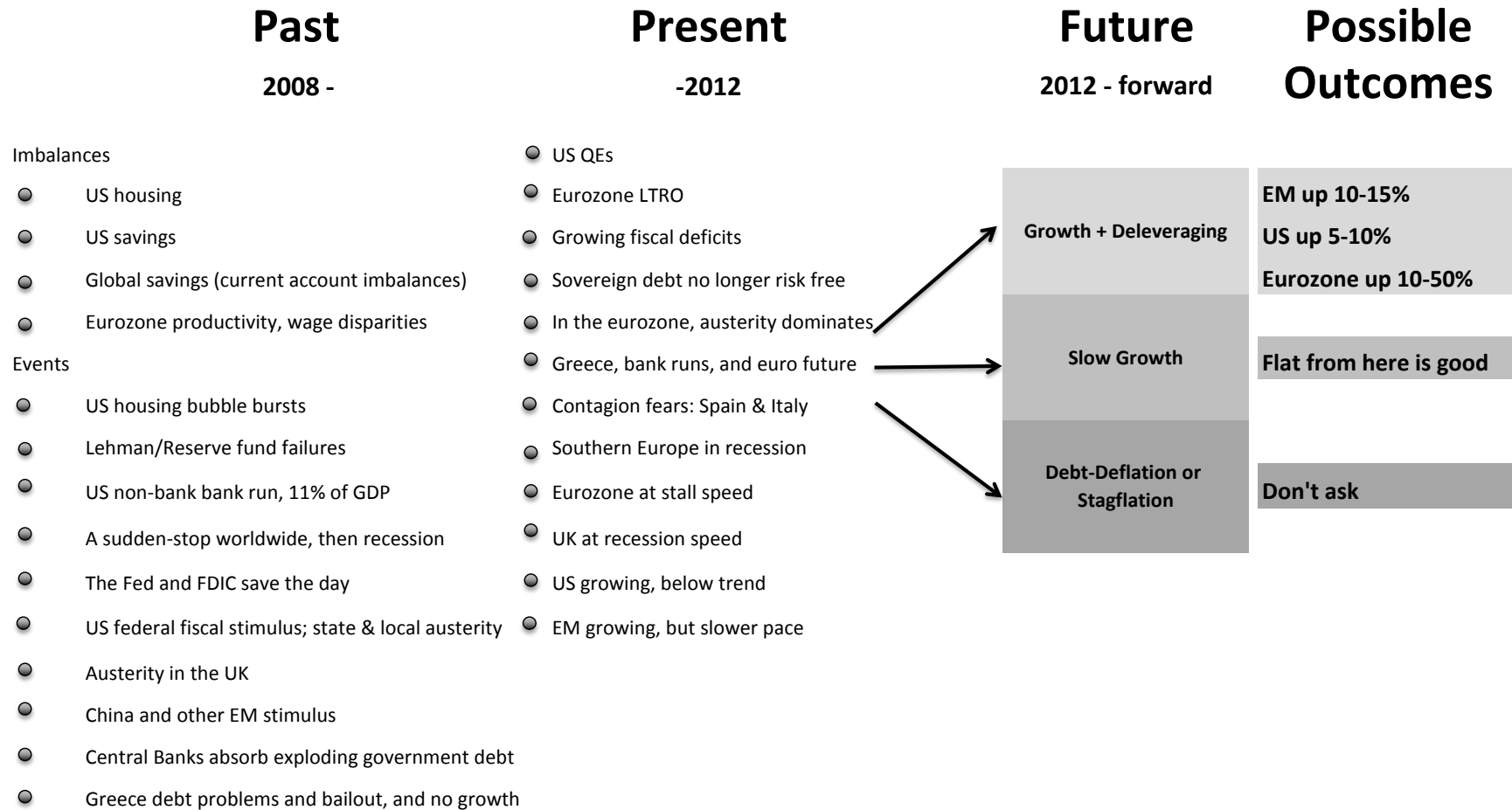
Note: OPEC "swing" capacity is 4 million b/d

Big Risks

- **Japan/Southern Europe-like policies:**
 - Lower productivity growth
 - Disincentives to work, save, invest
 - Limited change; slow growth; Zombie banks
- **US fiscal policy:**
 - The bond markets suddenly close
 - The US becomes Japan—the bond markets stay open, but the US never puts its fiscal house in order
- **Eurozone Contagion**
- **EM slowdown: China growth collapses**

Possible Equity Outcomes: A map

Long-term policy dominates all: Elections have consequences



Outcomes and Possible Returns

		Emerging Markets	Developed Markets	
		All	United States	European Union
Policy Environment				
Liquidity/Easing On?		spring floods	tsunami	spring floods
Fiscal Policy Favorable?		yes	federal: yes state/local: no	circular firing squads of austerity
Debt-to-GDP Under Control?		for the most part	no	no
Productivity and Investment		yes	unclear	unclear
Incentives to Hire		yes	limited to no	austerity rules the day
Earnings Growth				
		5-10%	5%	None-Negative
Equity Valuations				
		lower end	fair	low to very low
Possible Equity Outcomes				
	up	10%-15%	5%-10%	10%-50%
	down	15%-20%	10%-20%	as much as 40%

Appendix

			US			
			-17%	0	13%	25%
			10	12	13.5	15
			-57%	-40%	-28%	-15%
			-17%	0%	13%	25%
			-12%	5%	18%	30%
			3%	19%	32%	44%
	SPX index fwd P/E					
Δ	EPS					
typical recent decline	-40%	59.4				
end F11	0%	99				
e(2012) at Mar2012	5%	104				
e(2013) Mar2012	19%	118				

GDP growth^e: 2.5% + 2.6 inflation = ~5%

Dividend yield^l: 2.3

source: Bloomberg

EU stoxx

			SX5E index			
			-20%	0	20%	40%
			fwd P/E			
	Δ	EPS	8	10	12	14
typical recent decline	-23%	195	-43%	-23%	-3%	17%
end F11	0%	253	-20%	0%	20%	40%
F12	2%	257	-18%	2%	22%	42%
e(2012) at Mar2012	13%	285	-7%	13%	33%	53%
e(2013) at Mar2012	30%	329	10%	30%	50%	70%

GDP growth^e: -0.5% + ~2.5% inflation = ~2%

Dividend yield: 4.9

MSCI EM

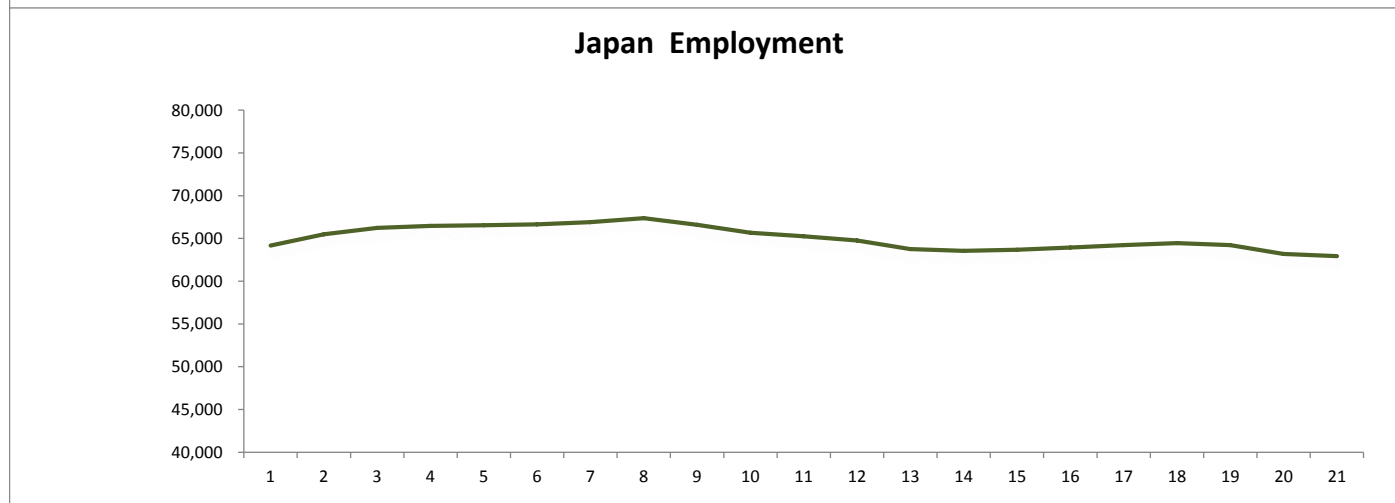
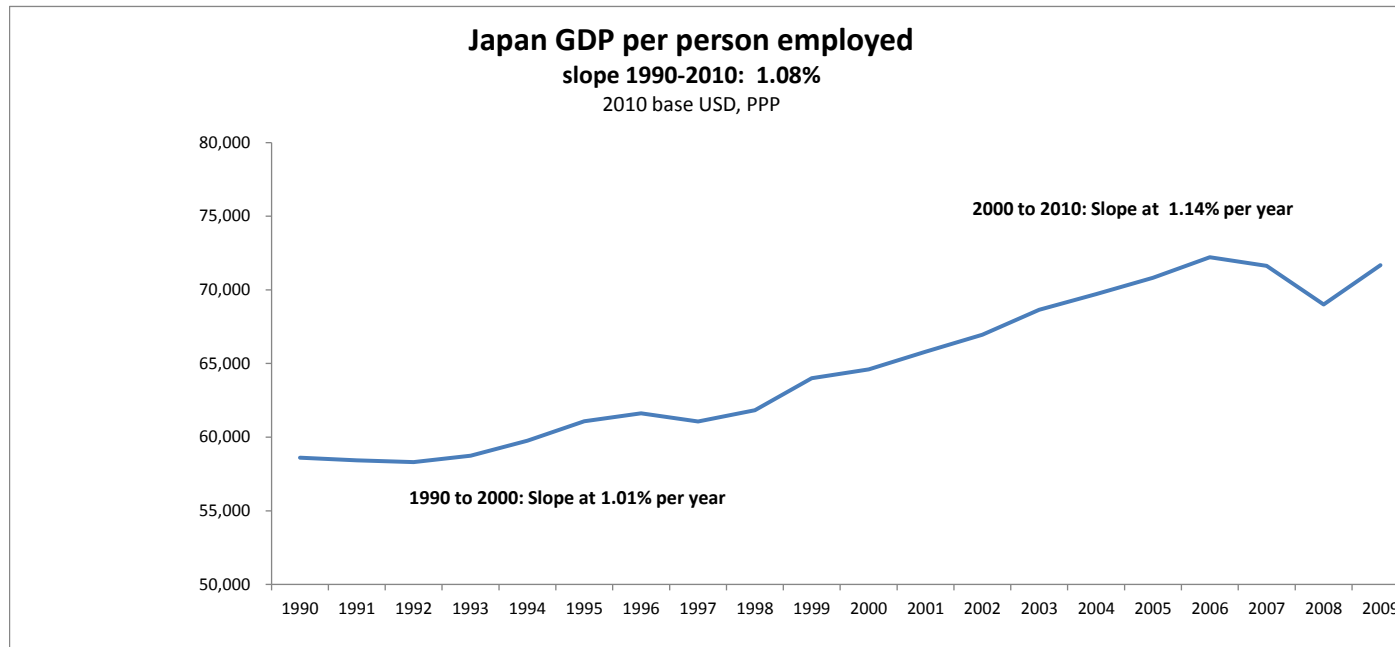
			-10%	0	10%	20%
MXEF index fwd P/E						
EPS			9	10	11	12
low 2010	-18%	74	-28%	-18%	-8%	2%
end F11	0%	90	-10%	0%	10%	20%
e(2012) at Mar2012	9%	98	-1%	9%	19%	29%
e(2013) at Mar2012	23%	111	13%	23%	33%	43%

Δ

GDP growth^e: 6% +5% inflation =11%

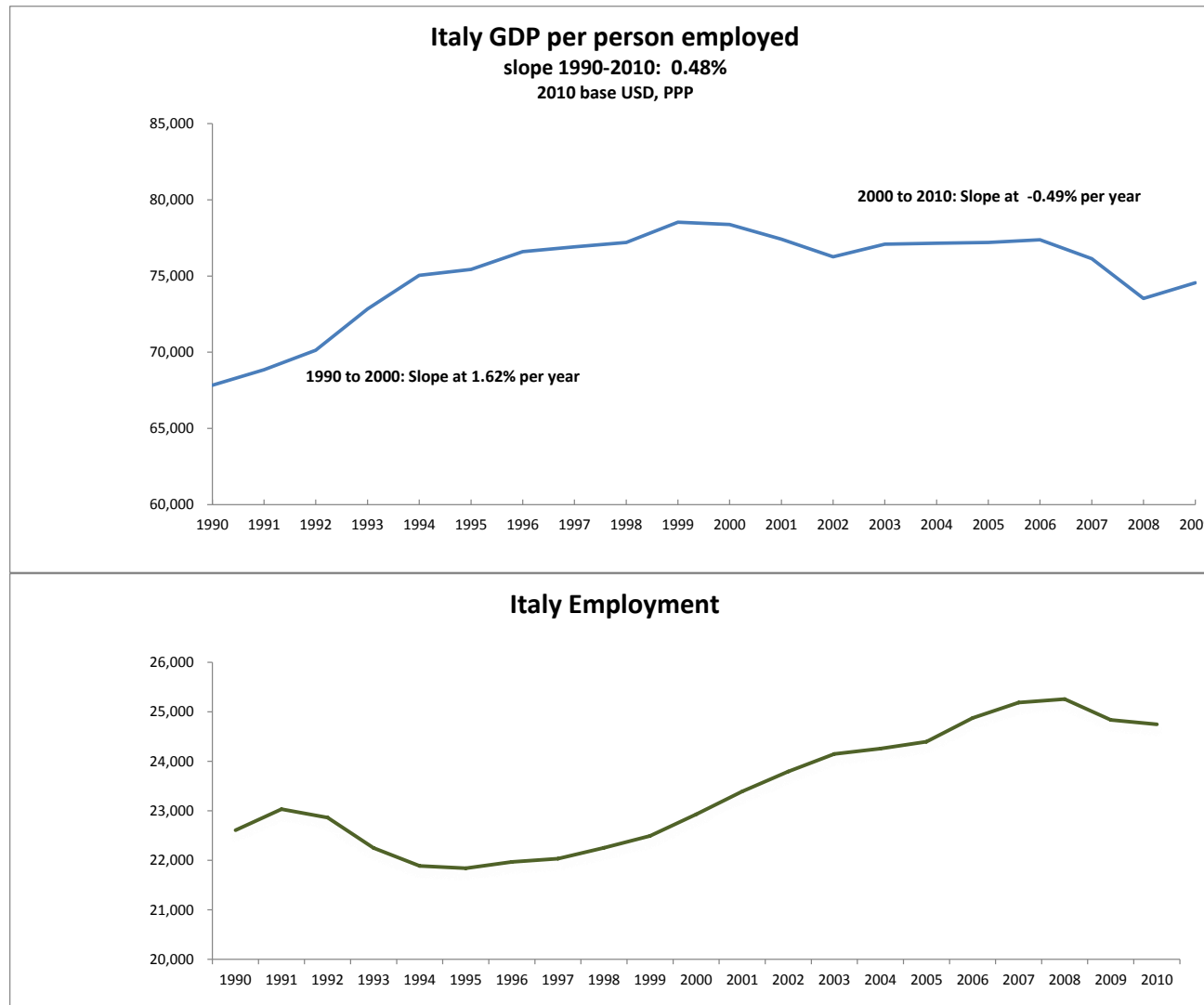
Dividend yield: 2.91

The Results of Bad Incentives (and Zombie Banks)



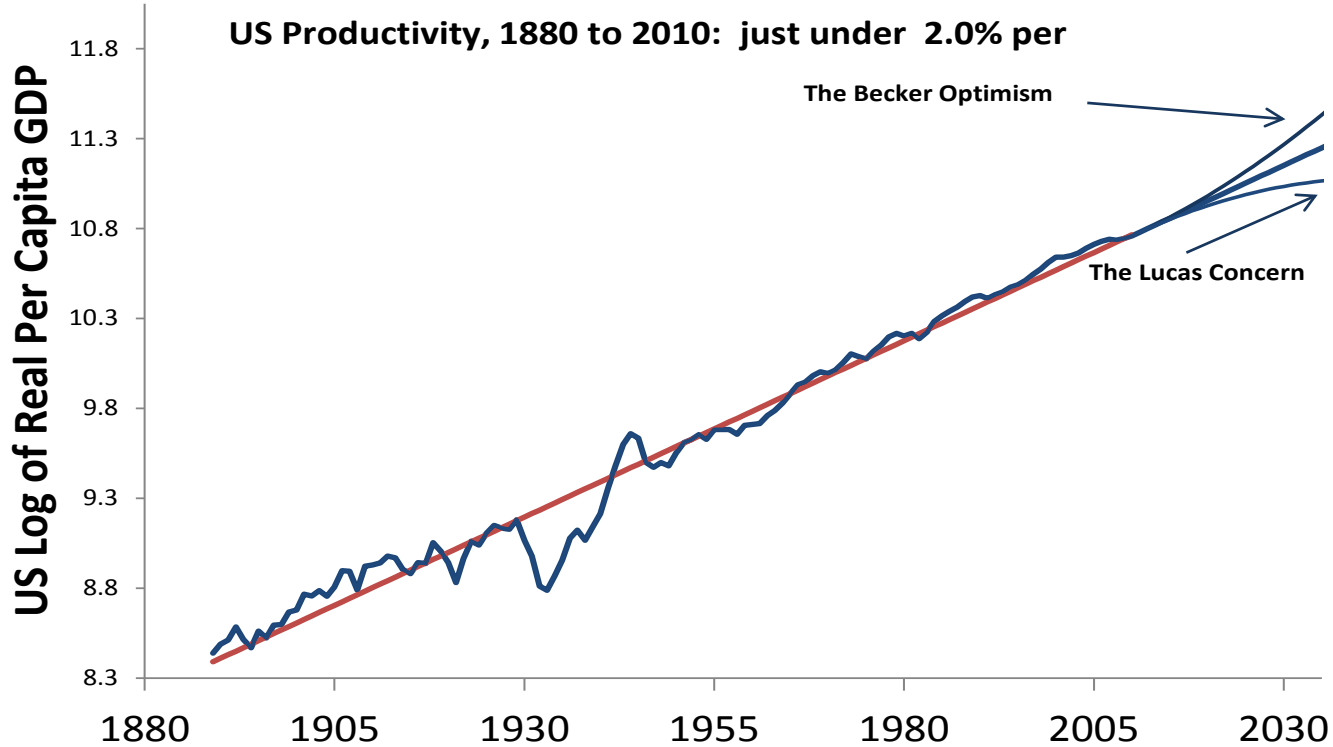
source: Conference Board Total Economy Data Base (TED). Stephen Sexauer

More Questionable Incentives



source: Conference Board Total Economy Data Base (TED). Stephen Sexauer

(A good description of terrible incentives: <http://online.wsj.com/article/SB10001424052702303740704577522412881267278.html>)



sources: Robert Lucas. Kevin Murphy. Bureau of Census. Department of Congress. Illustrative paths: Stephen Sexauer

Stephen Sexauer

Allianz Global Investors (AGI) (2003 – 2012)

Stephen Sexauer has been Chief Investment Officer of AGI Solutions since inception in June, 2008, and has been a Managing Director of Allianz Global Investors of America LLC or one of its affiliates since May, 2003.

Morgan Stanley Asset Management (1989 – 2002)

Salomon Brothers: (1988 - 1989)

Mr. Sexauer holds an MBA from the University of Chicago with concentrations in economics and statistics and a BS from the University of Illinois in economics.

Economic data in this presentation are derived from internal research publicly available statistics published by Bloomberg, the U.S. Federal Reserve, the U.S. Department of Commerce and the International Monetary Fund.

The information herein is provided for informational purposes only and should not be construed as a recommendation of any security, strategy or investment product, nor an offer or solicitation for the purchase or sale of any financial instrument. This material contains the current opinions of the author, which are subject to change without notice.