## 1) Globalization

What is it? Is it Good or Bad?

## 2) A Theory Regarding Debt and the Stock Market Profits and Value

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# The Humanist Community of Silicon Valley Sunday Forum April 22<sup>th</sup> 2012

# 1) Globalization What is it? Is it Good or Bad?

# SCOPE Question - Globalization of What? Answer - Human Civilization

## <u>DIFFERENTIATING THE SCOPE</u> What are the elements of Human Civilization?

## The Elements of Human Civilization

1. Records of our Human Minds (Information we share)



 Our Human Bodies (including our actual Minds)



3. Food and Drinks (and other living things)



4. Material Products and Structures



## What is the Nature of Globalization?

1. Rate of Change - The Speed with which we move and reform the elements of civilization





2. Size of Change - The Quantity of these elements we move and reform





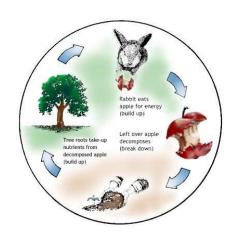
## What are the criteria for Judgment?

#### 1. Material Balance

- a) Reuse
- b) Repair
- c) Recycle
- d) Refuse
- e) Stay Local

### 2. Energy Efficiency

- a) Human Work Capacity = 60GW
- b) Energy Industry Capacity = 15TW
- c) Leverage = 250X

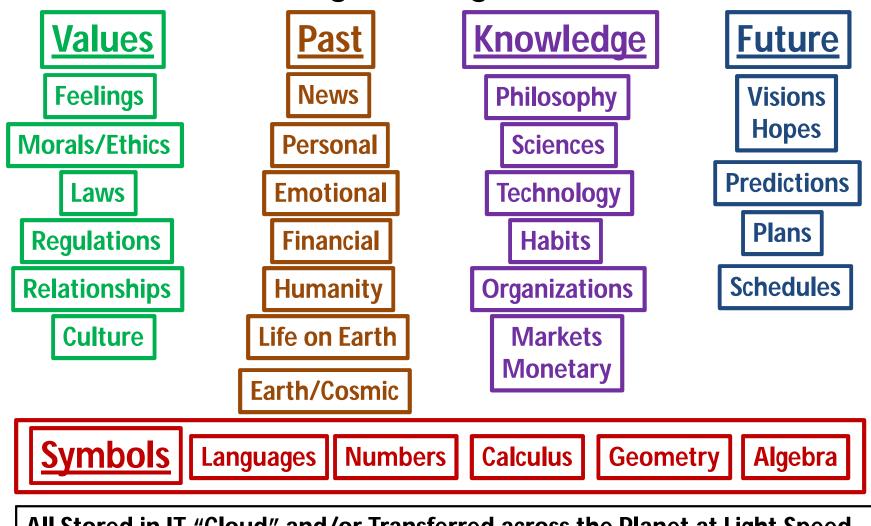




### Globalization of Civilization - Review

- Elements of Civilization
  - Information, Human Beings, Food, Products
- Nature of Globalization
  - Elements rate of change (speed, quantity)
- Criteria of Judging Globalization
  - Material Balance, Energy Efficiency

## Civilization Element 1 – Information (Sharing/storing our Minds)



All Stored in IT "Cloud" and/or Transferred across the Planet at Light Speed

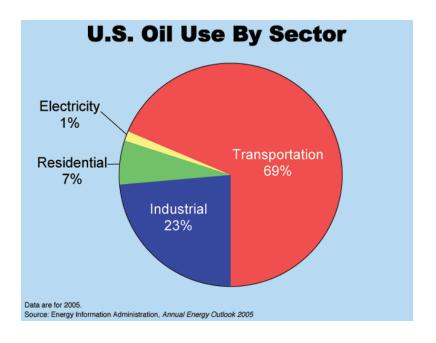
# Civilization Element 2 – Human Beings (Transportation)

#### Benefits

- Historical and Cultural Understanding
- Friendship and Trust
- Genetic Diversity

#### Costs

- Energy
- Materials



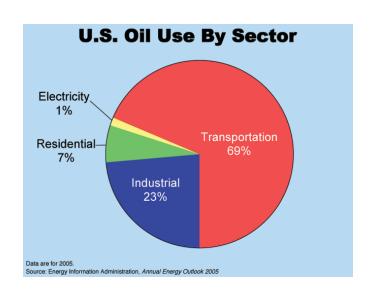
# Civilization Element 3 – Food + Drink (Farming)

#### Benefits

- Diversity of taste
- Seasonally Independent

#### Costs

- Disease Transfer
- Exotic Species Invasions
- Energy Usage
- MaterialDisplacement



# Civilization Element 4 – Products (Industrial Manufacturing)

#### Benefits

- Choice of products
- Open Competition

#### Fossil fuels, Minerals and Ores

1900 – 1.7B x 5T = 8.5B Tonnes 2000 – 6B x 9T = 54B Tonnes

**2050 – 9B x 12T = 111B Tonnes** 

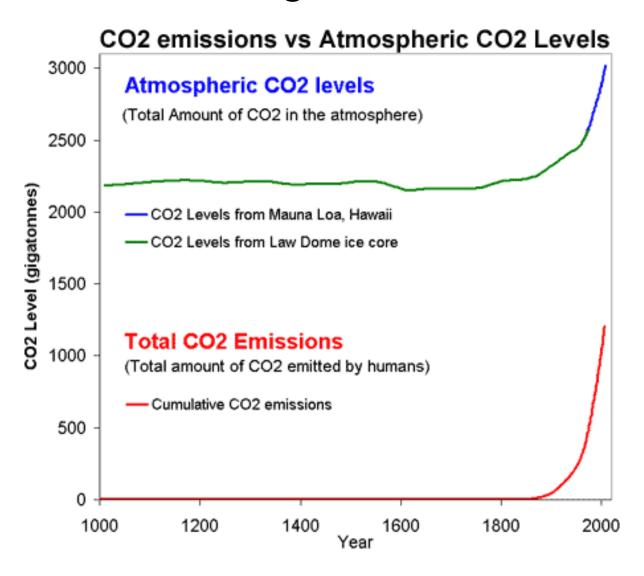
#### Costs

- Energy Usage
- MaterialDisplacement
- Ore Quality
- Waste

#### **Carbon Accounting**

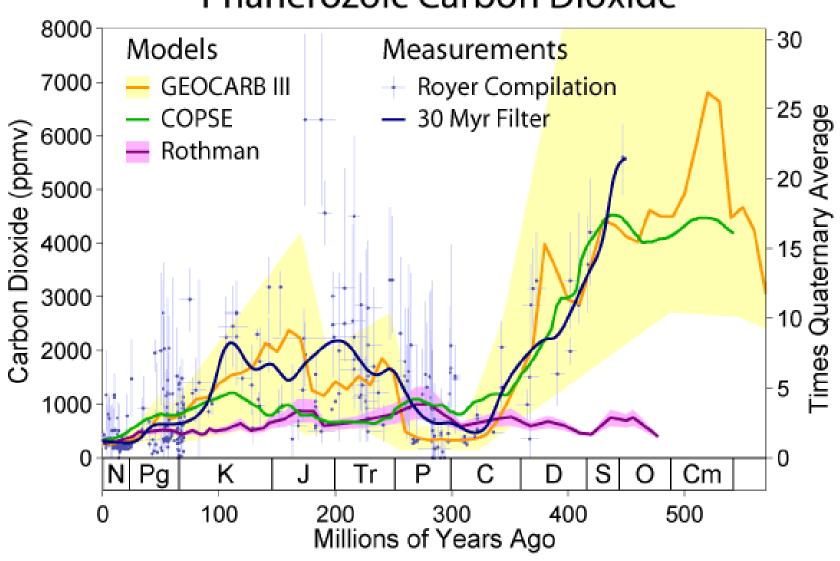
300 GTons Carbon Burnt since 1750
1.2Tons per Human per Year currently
1100 Gtons CO2 Added to Atmosphere
800 GTons CO2 remains in the atmosphere
Total in Atmosphere today 3000 Gtons
300 GTons Oil/Gas and 5000GTons Coal Left

## **Carbon Burning and CO2 Additions**



## **Carbon Burning and CO2 Additions**

### Phanerozoic Carbon Dioxide

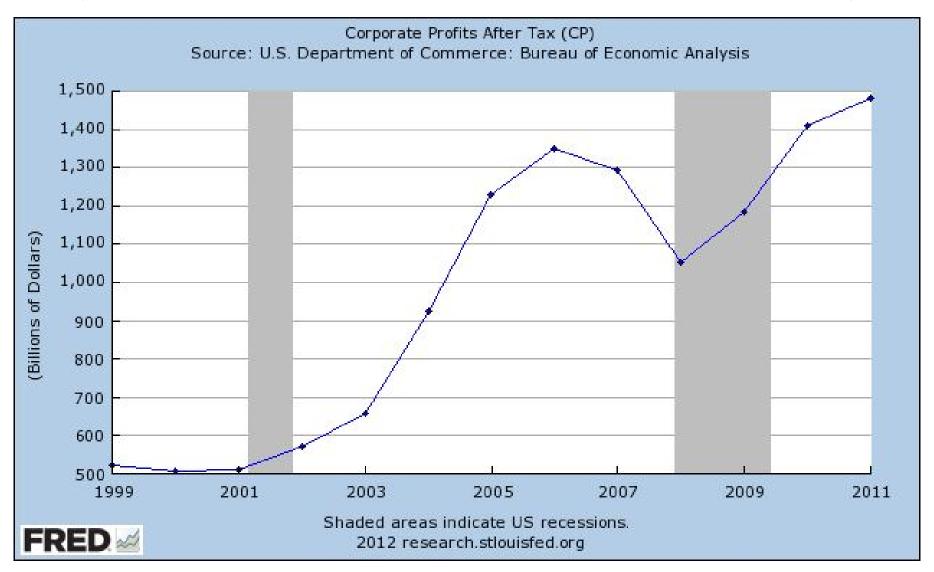


## **Globalization of Civilization - Summary**

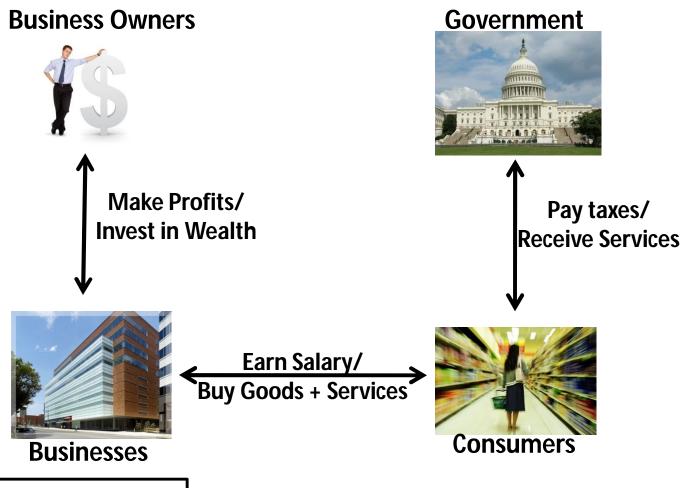
- The 4 elements of civilization (Information, Human Beings, Produce and Products) are changing faster and in larger quantities than ever before, consuming enormous amounts of energy and displacing huge amounts of materials
- We must restore material balance and become much more energy Efficient
  - Information Good
  - Human Beings Good but Reduce How Many of us and How Much we travel
  - Produce Maintain Diversity, but localize and reduce
  - Products Maintain Choice, but localize and reduce

# A Theory Regarding Debt and the Stock Market Value

## Corp Profits After Tax 1999 to 2011 (2011 = \$20T Stock Market value - \$1.5T x P/E [13])

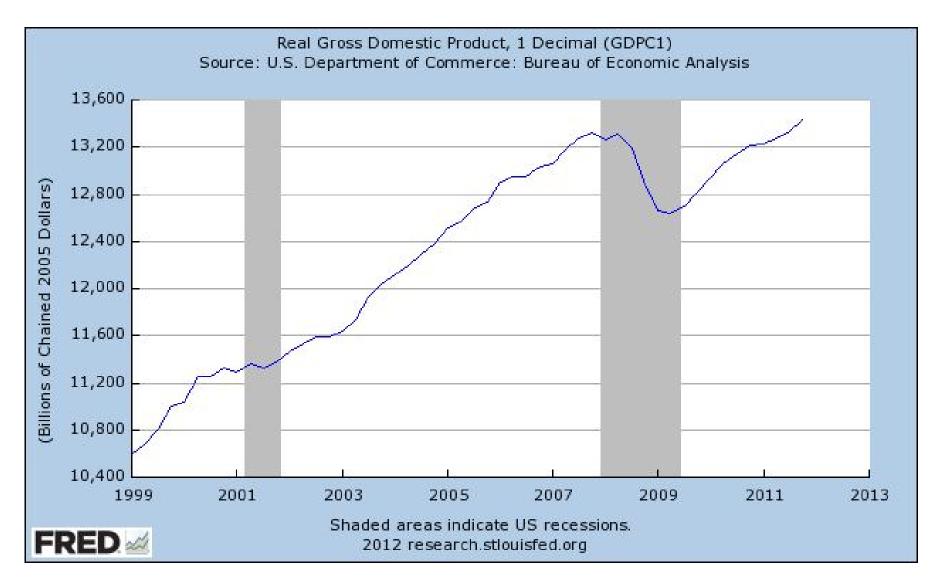


## A Balanced Economy

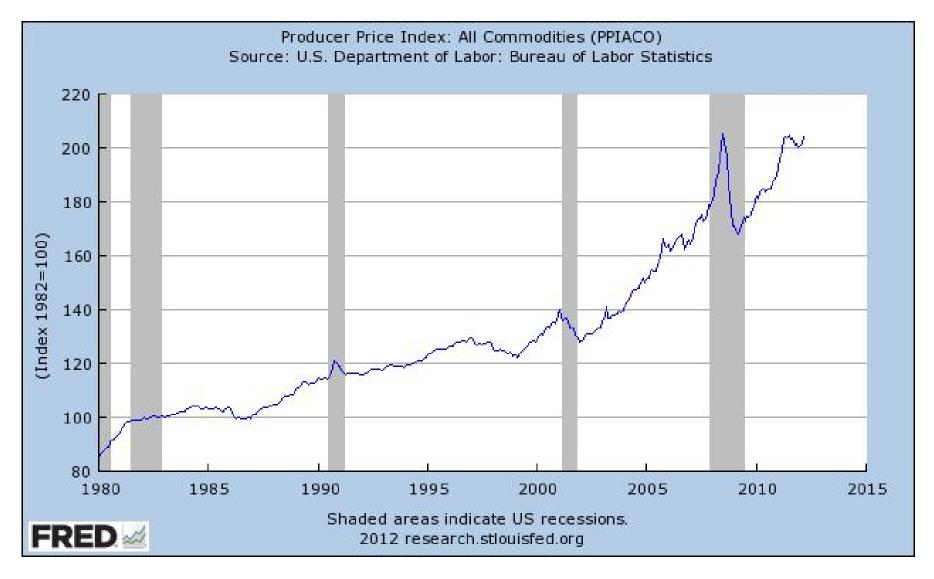


Market Value = Profit x P/E Ratio

#### **Real GDP 1999 to 2012**

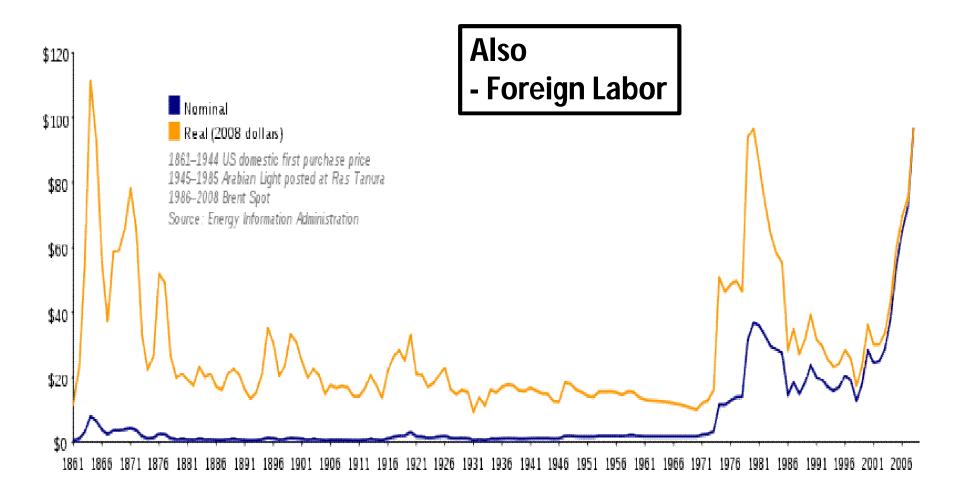


#### All Commodities Index 1980 to 2012

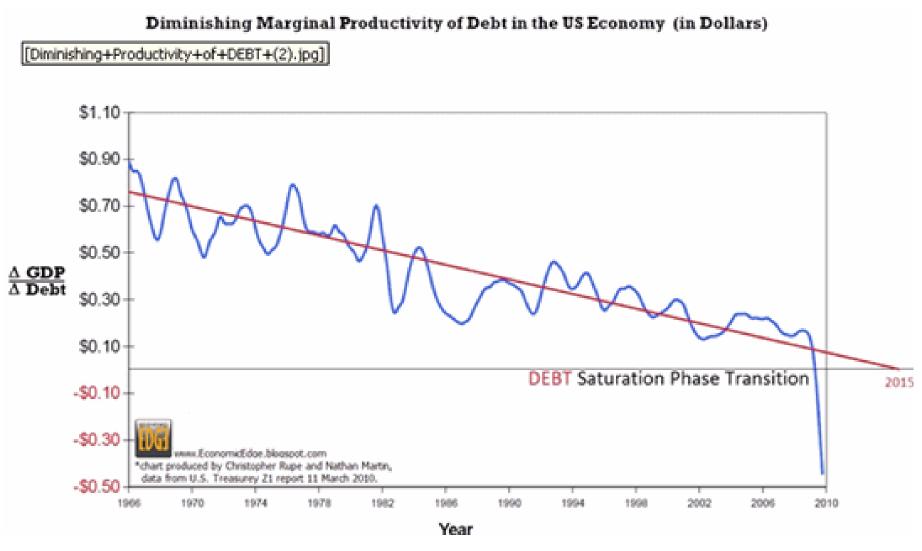


## **Energy Costs Increasing (Oil)**

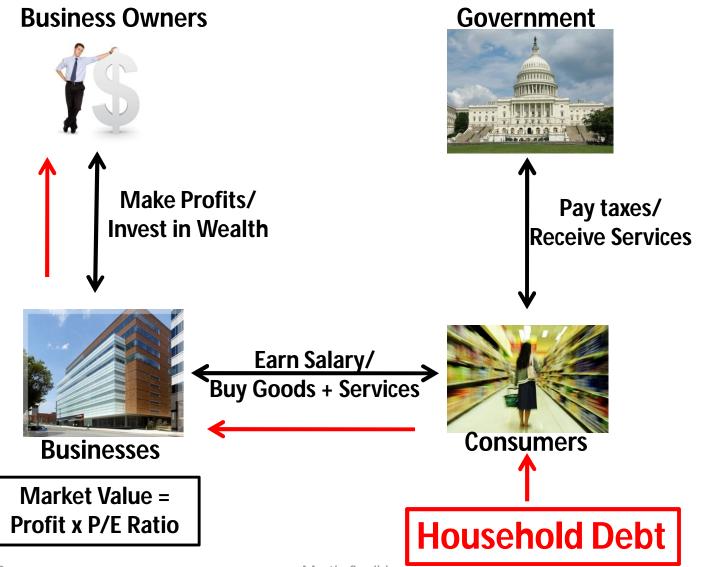
(Barrel Crude Oil Nominal and Real)



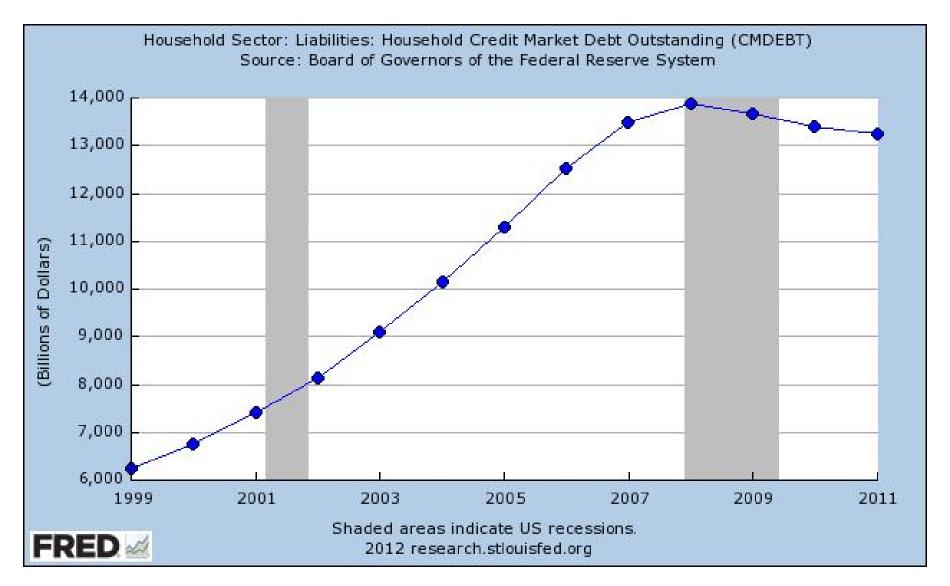
## Growth in GDP Versus Growth in Debt (Marginal Productivity of Debt)



## **Business Profits Fuelled By Household Debt**

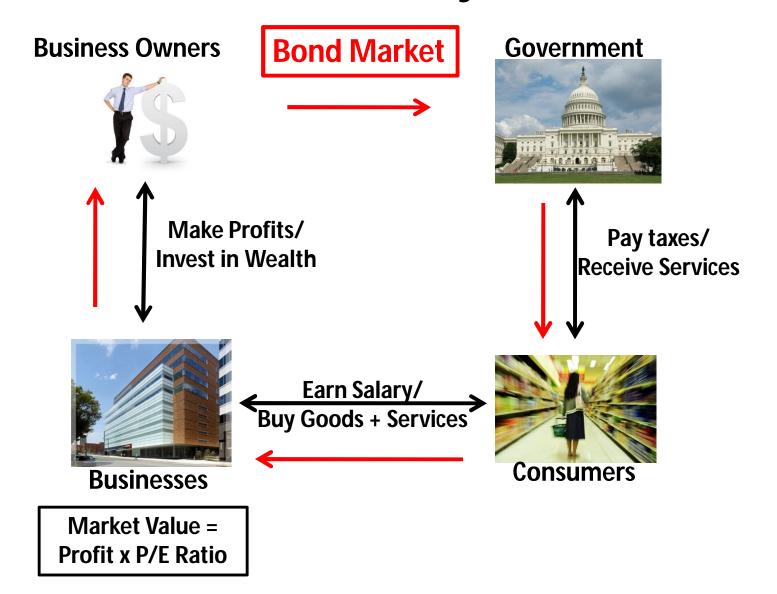


#### **Household Sector Debt 1999 to 2011**



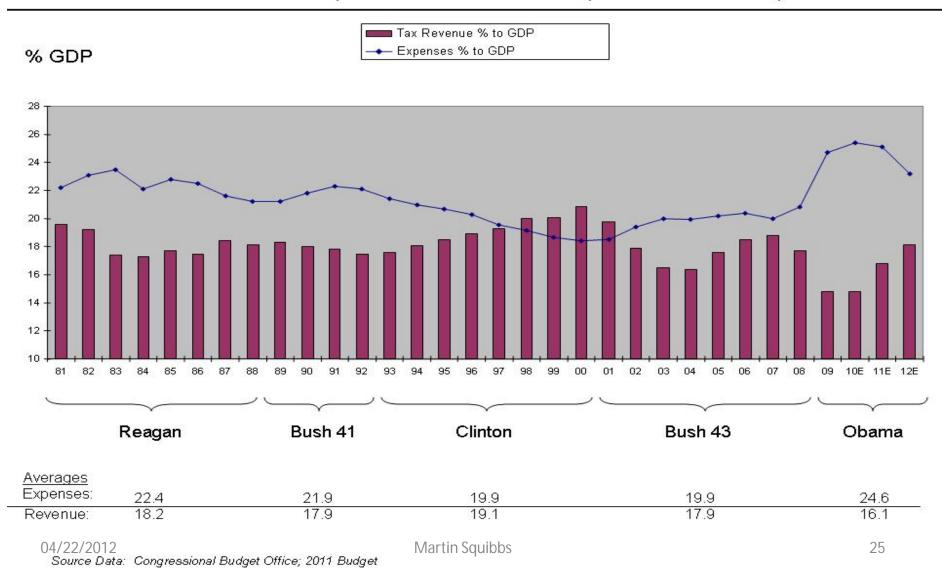
Source - Federal Reserve Bank of St Louis Economic Research - <a href="http://research.stlouisfed.org/">http://research.stlouisfed.org/</a>

## **Business Profits Fuelled By Government Debt**

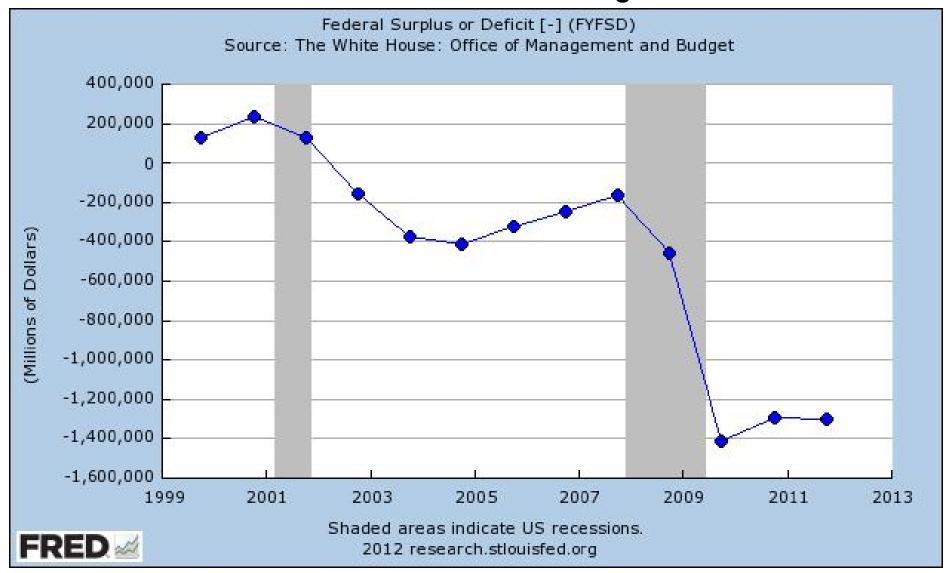


### **Government Revenue and Expenses Since 1981**

Federal Tax Revenue & Expenses as % to GDP (FY 1981 – 2012)

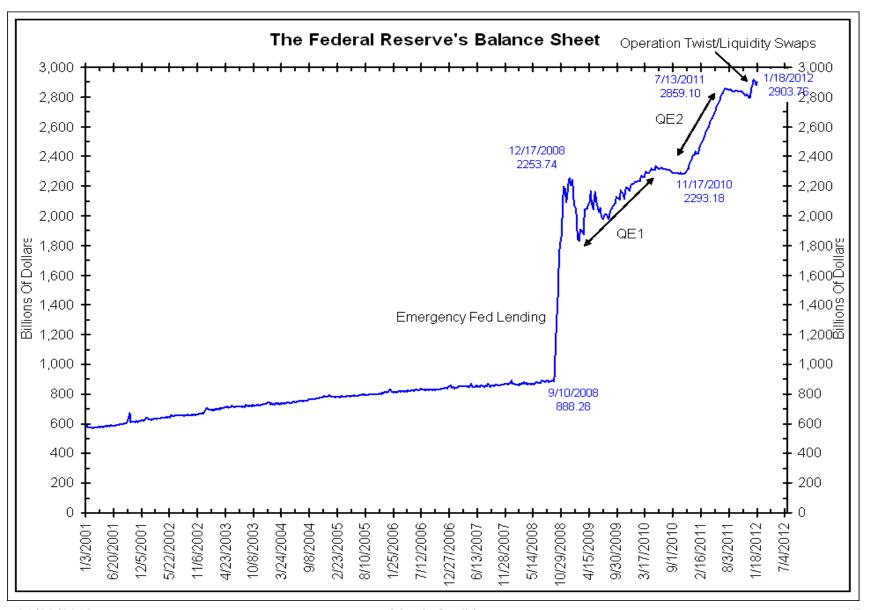


### **Government Annual Borrowing Since 1999**



Source - Federal Reserve Bank of St Louis Economic Research - <a href="http://research.stlouisfed.org/">http://research.stlouisfed.org/</a>

### **Quantitative Easing I and II – Supporting Bond Market**

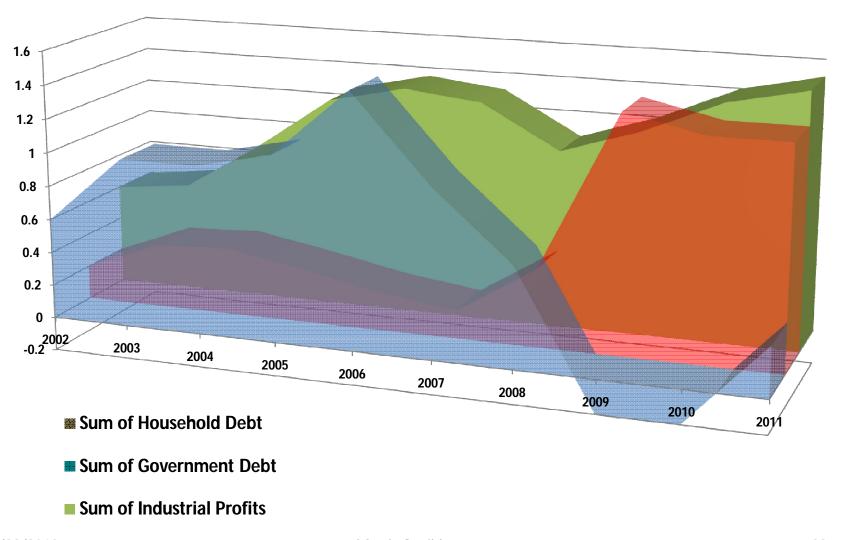


## Gov and Household Debt Versus Corp Profits After Tax 2002-2011 (In trillions \$)

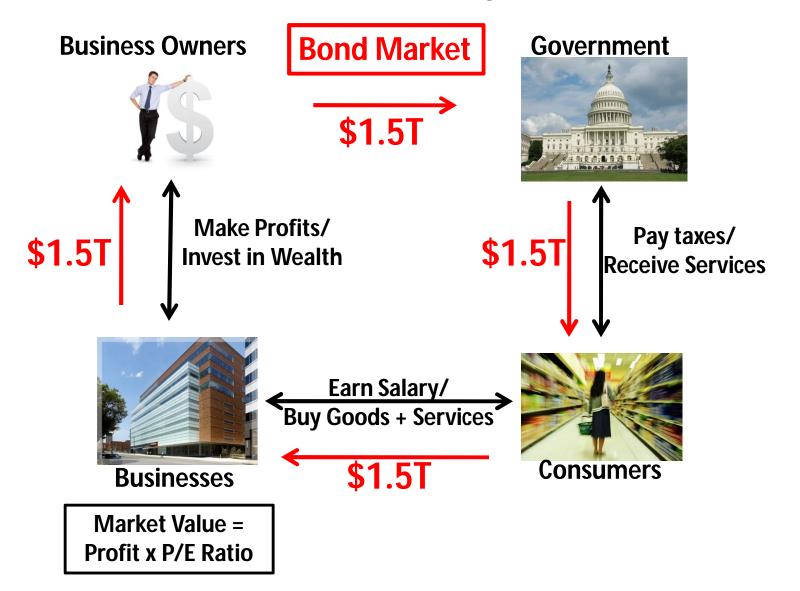
Year	Household Debt	Government Debt	Industrial Profits	HH plus Giv Debt
2002	0.6	0.2	0.6	0.8
2003	1	0.38	0.65	1.38
2004	1	0.4	0.93	1.4
2005	1.1	0.32	1.25	1.42
2006	1.5	0.23	1.35	1.73
2007	1	0.17	1.3	1.17
2008	0.6	0.46	1.05	1.06
2009	-0.2	1.4	1.2	1.4
2010	-0.2	1.3	1.4	1.3
2011	0.3	1.3	1.5	1.6

**Source Corporate Profits** <u>http://ycharts.com/indicators/corporate\_profits/historical\_data</u>

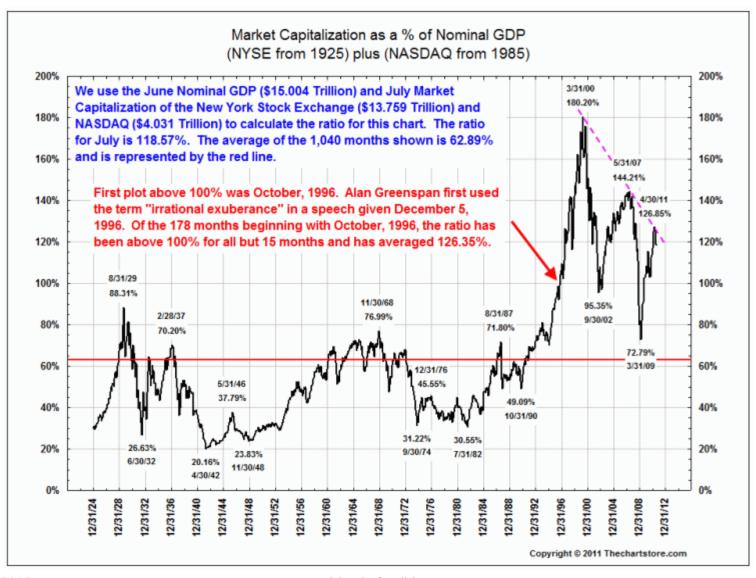
### **Gov and Household Debt Versus Corp Profits After Tax**



## **Business Profits Fuelled By Government Debt**



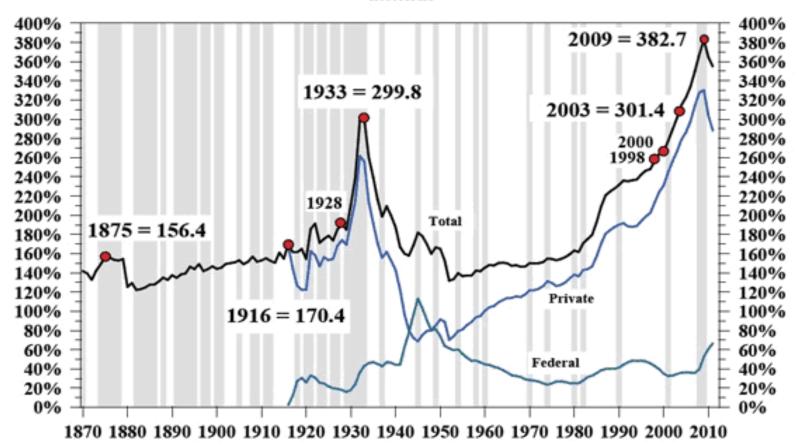
## Stock Market Capitalization 1924-2011



## US Credit/Debt Market (at Present \$54T)

#### U.S. Debt as a % of GDP

annual



Sources: Bureau of Economic Analysis, Federal Reserve, Census Bureau: Historical Statistics of the United States
Colonial Times to 1970. Through Q3 2011. Last plot Q3 2011.

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page 1

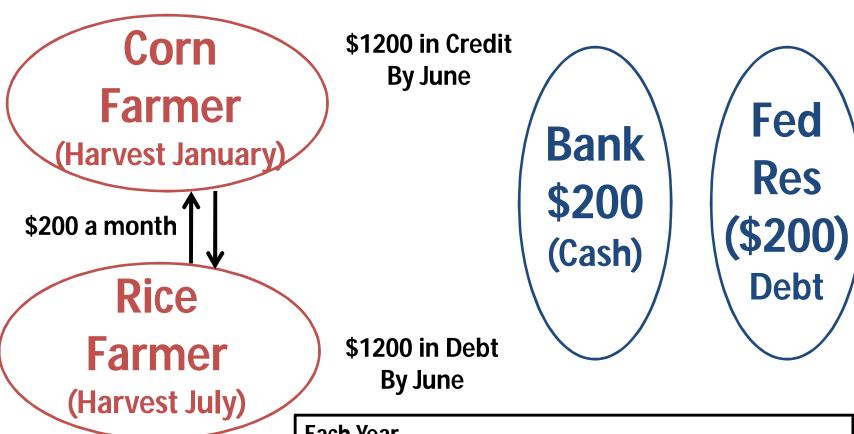
# Debt, Stock Market Profits and Stock Market Value

Could we be in a 30-40 Year Money Bubble

If so, How and When will it end?

# The Nature of the US Monetary System

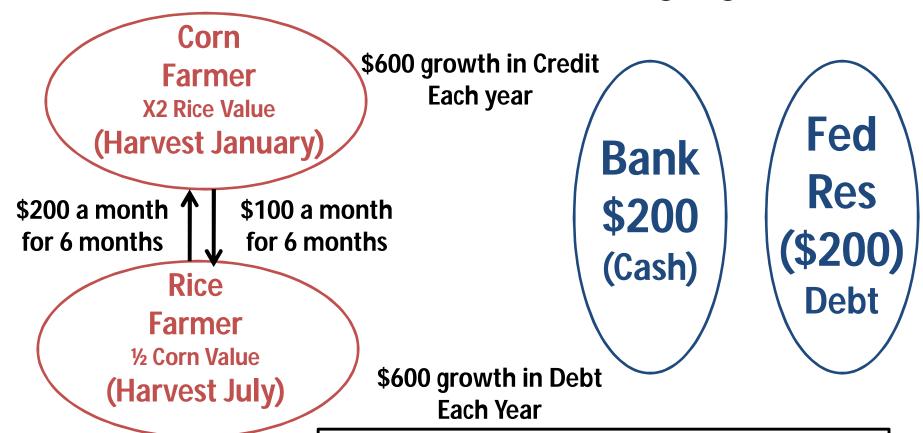
## A Balanced Fiat Monetary System



#### **Each Year**

GDP = \$2400Money Supply (M0) = \$200 = 1/12 = 8.3% GDP**Credit (Debt) Market = \$1200 = 50% GDP** Banking Leverage = 1/6 or 17% Reserve Banking

## **An Unbalanced Monetary System**



#### After 10 years

GDP per Annum = \$1800 Money Supply (M0) = \$200 = 1/9 = 11% GDP Credit (Debt) Market = \$6000 = 333% GDP Banking Leverage = 1/30 or 3.3% Reserve Banking

## **Monetary System – Important Takeaways**

### 1. It's a Net Sum Zero System

Total DEBT (Loans) = Total CREDIT (Money)

### 2. In a Balanced/Sustainable System

DEBT is proportional to GDP (Goods and services)
GDP grows with People and/or efficiency