

# Japan's Bubble Economy and its Burst

Japanese Economy in the 1980s and 1990s

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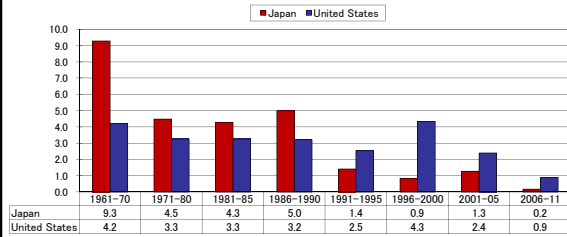
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Real GDP Growth rates: Japan vs. United States




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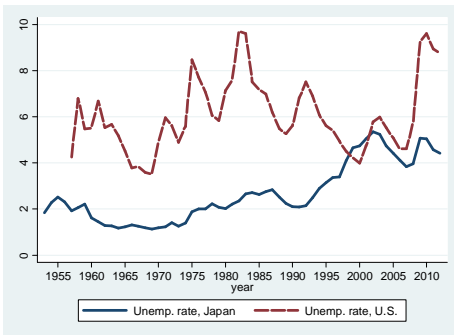
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Unemployment Rates, Japan vs. United States, 1955 - 2011




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### Structure of Japan's stable growth

- Strong growth in private consumption
- Well-educated labor force
  - Almost no conflict b/w management and labor and between blue and white collar workers
- Stable political environment
  - 55-system
  - Emergence of technocrats
- Stable geopolitical environment
- “Dual system”
  - Tradable sector vs. non-tradable sector
  - Manufacturing vs. service sector
- Egalitarian economic policy

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### Price of Japan's stable growth

- Labor force with weak creativity
- Corruption and collusion in the political arena
- “Dual system”
  - Super-competitive sector vs. super-inefficient sector
- Dysfunctional cross-subsidy scheme vs. Egalitarianism

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### The “Bubble Economy” in the 80s and its Collapse in the 90s

- The current recession (“Heisei recession”: 平成不況) started w/ the burst of the bubble in the asset markets in 1990.
- But initially, this is something Japanese people wanted ...
- **The system that fueled the economic boom in the 1980s has become the core of the problems in the 1990s.**

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### In Sum, ...

- Change in banking sector in Japan
  - ➔ Led to “easy credit” during the 1980s
  - ➔ Investment, especially in asset markets, boomed, so did bank lending
- US “Twin Deficits” fueled credit expansion in Japan
- After the collapse of asset markets, Japan’s financial system became dysfunctional b/o non-performing loans

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**To talk about the 1980s bubble, we need to talk about Japanese Financial Policy before the 1980s**

#### Banking Structure up to the '70s

- Up to '70s – Division of Labor in Japanese finance
  - City banks/industrial banks (public banks)
    - ➔ Financed large corporations/projects for infra. building and industrial policy
  - Regional banks, credit unions, agri-coops
    - ➔ Financed SME, individuals (self-employed)

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#### Banking Structure after the '70s

- Change in the division of labor (late '70s and early '80s)
  - Internationalization of corps. + Financial liberalization
    - ➔ Big MNC such as Toyota and Matsushita started financing in overseas markets
    - ➔ Some of them became able to get financed directly from the markets, i.e., issued corporate bonds and papers
    - ➔ Big banks lost their traditional customers
  - Banks started demanding deregulation in banking industry to expand their territories
  - Big banks started retailing, squeezing other smaller banks
  - Smaller banks also started demanding financial deregulation  
ex. *Jusen* (住専)

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### U.S. also demand Japan's financial deregulation

- The “**Twin deficits**” became severe under the Reagan administration
  - Tight monetary policy in 1981-82
  - High gov't spending
  - Large tax cuts → Reaganomics
  - US dollar appreciated
  - Contributed to trade deficits
  - U.S. trade deficits against Japan were already politicized since 1960s
  - Yen was claimed to be undervalued

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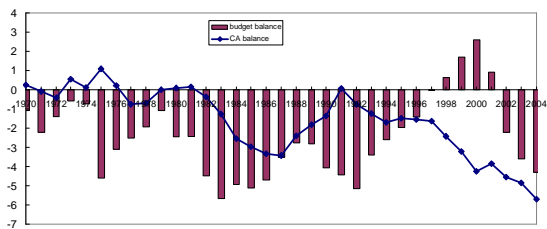
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US Budget Balances and Current Account Balances as a ratio to GDP, 1970 - 2004




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### U.S. also demand Japan's financial deregulation

- In the early 1980s, US trade policy started becoming protectionist
- And, the US Gov't started demanding Japan to liberalize financial markets
  - The “**Yen-Dollar Committee**” (1983): The reason why US dollars do not depreciate is because Japanese financial markets are closed, making it less attractive to invest.
  - Japanese authorities are maintain an artificially low level of interest rates in Japan
- Japanese banks perceived US gov't as a good ally to demand further financial deregulation/liberalization with

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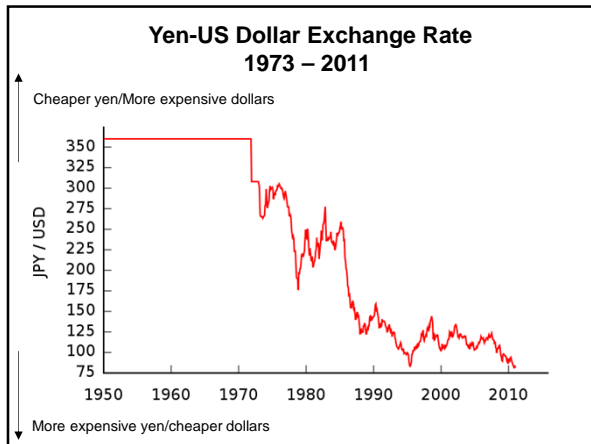
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### U.S. Claim to Japan in the pre-Plaza accord period (1981 – 1985)

- **Japan** is the *biggest contributor* to U.S. CA deficit
- **Japan**, with *manipulative currency policy*, keeps its *currency undervalued* and keeps *dumping exports* to U.S. markets
- **Japan** *needs to revalue* its currency, and
- *develop and liberalize its financial markets*, so that
- **Japan's** *excessively high saving rate* will go down, and that
- **Japan's** enormous current account surplus will be *recycled within the country (or the region)*, not flowing into the U.S.

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### U.S. Claim to China in the 2000s

- **China** (or East Asia) is the *biggest contributor* to U.S. CA deficit
- **China**, with *manipulative currency policy*, keeps its *currency undervalued* and keeps *dumping exports* to U.S. markets
- **China** *needs to revalue* its currency, and
- *develop and liberalize its financial markets*, so that
- **China's** *excessively high saving rate* will go down, and that
- **China's** enormous current account surplus will be *recycled within the country (or the region)*, not flowing into the U.S.

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### Japan's financial deregulation/liberalization

- In 1984, GOJ announced it will implement financial dereg./lib. policies.
- Ironically, GOJ's liberalization policy enhanced more Japanese investment to the US and contributed to stronger US dollars
- Consequently, US trade deficits worsened
- 1985:9 – The Plaza Accord
  - G5 countries agreed to "correct" the value of US dollars by intervening the markets
- Yen soared afterwards → hurting J's exports

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### Yen-US Dollar Exchange Rate 1973 – 2011




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### Credit expansion in the late 1980s

- Strong yen hurt the competitiveness of the export sector → High Yen (En-daka) Recession in 1987
- US Black Monday (Oct.19, 1987)
  - DJ fell 22.6%, 41.8% in Australia, 22.5 in Canada, 45.8% in HK, 26.4% in UK
- Japan was intact and quickly lowered the interest rate, which it was already lowering after the Plaza accord.

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## Credit expansion in the late 1980s

Credit expansion occurred in Japan

- Surrounding factors for low  $i$  policy
  - “High yen recession” (1987)
  - US Black Monday (Oct. 1987)
  - Government debt (early 1980s) + Privatization
- Change in Banking structure: Deregulation made it easier for banks to provide credit

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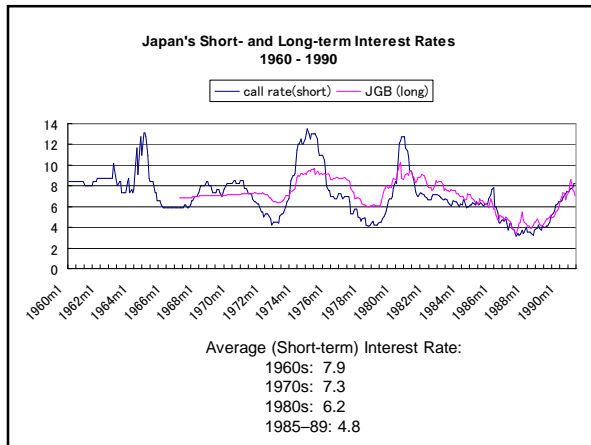
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## Credit expansion in the late 1980s

- Thinner profits, but larger lending
- This was sustainable as long as the value of land kept rising. → **Land as collateral**
- Rising stock market prices → increasing lending
  - **The higher the stock market level, the more capital, and the more lending.**

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## The Bust of the Bubble ...

- Asset inflation became a social issue
- BOJ guided higher interest rates in 1989
- The stock market collapsed in 1990.
  - By Oct. '92, the Tokyo stock market lost its value by 50%.
- The land market value started declining in 1992.
- The anti-wealth effect or the vicious cycle started in the early 1990s.

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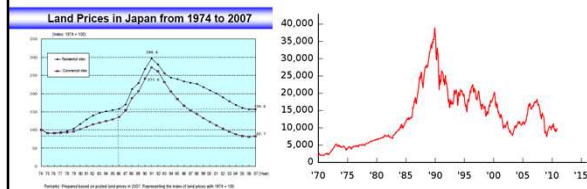
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## Asset Prices: Nikkei Stock Index and Land Price Index




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## Roller Coaster Markets

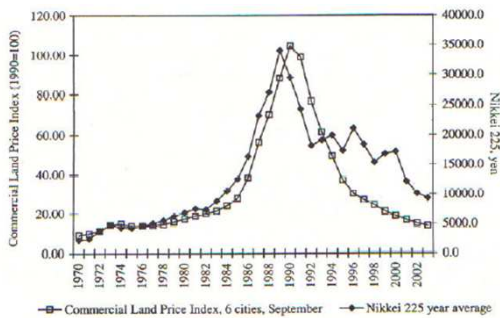


Fig. 4.1 Land prices and stock prices, 1970–2003

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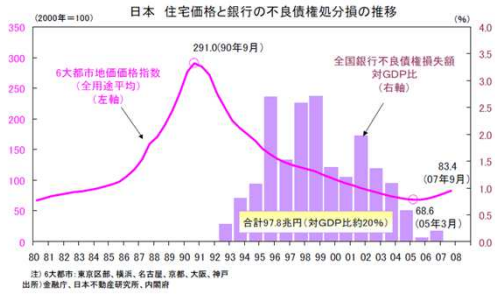
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## Bad loans are bad ...




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## A Little Bit of Accounting – Firm's perspective

Assets	Liabilities
Current assets	Current liabilities
Cash	Accounts payable
Accounts receivable	Notes payable
Inventory	
Fixed Assets	Long-term debt
	Net worth (Equity)
	Stocks
	Retained earnings

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## A Little Bit of Accounting – Firm's Perspective

Assets	Liabilities
	Net worth (Equity)

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**It is important to keep ample capital for a rainy day – BIS capital adequacy ratio**

$$BIS \text{ capital ratio} = \frac{\text{Bank capital}}{\text{Risk - adjusted assets}}$$

- If you are facing a fall in the ratio, and you want to stop it from falling further or increase it, what would you like to do?
  - You want to increase the numerator
  - You want to decrease the denominator

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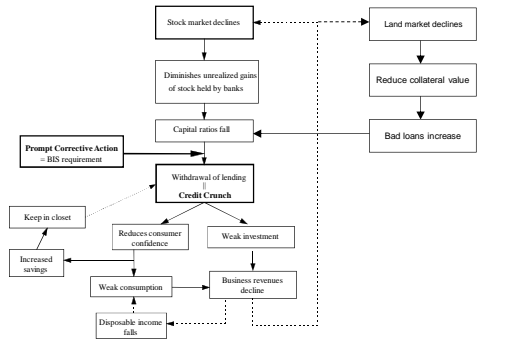
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### The “Vicious Cycle”




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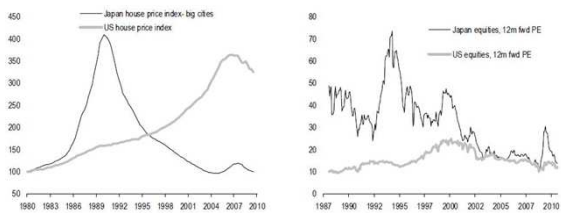
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### The Bubble and the Bust!




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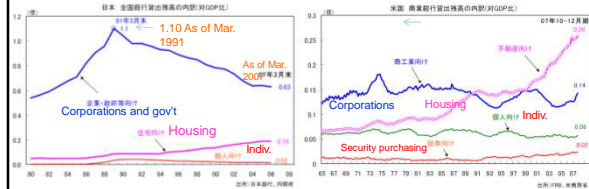
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## Loans to Different Types of Borrowers (as % of GDP)




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## The “Lost Decades”/The “Great Recession” (1991 – present)

### 1991 – 1995

- Asset deflation
- Reversed wealth effect: “Vicious cycle”

### 1995 – 1996

- Yen appreciation
- Massive fiscal expansion

### 1997 – 1999

- Fiscal contraction
- Banking crisis

### 1999 – present

- Deflation, Liquidity trap
- Social security system crisis
- Earthquake/Tsunami/Nuclear crisis

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## Macroeconomic policies have been ineffective(?)

### Macroeconomic Policies

- Fiscal policy (Gov’t spending and tax cuts)
- Monetary policy
- (Exchange rate policy)

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### Macroeconomic policies have been ineffective (?)

**Government spending** (J-gov't spent about \$1trillion during the 1990s)

- Well, it did work, maybe. The economy could've been worse w/out massive fiscal spending in the early 1990s.
- But, it was not as effective.
  - ❑ Diminishing returns
  - ❑ Public works spending in less productive areas ← Pork barrel: highways, roads, dam, ports, etc. "in the middle of nowhere"

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### Why didn't macro policy work?

#### • Tax Cuts

- "No one to give tax cuts to":
  - A large proportion of potential tax payers aren't paying taxes after a series of tax cuts
  - "Don't favor the rich!!"
- "**Ricardian equivalence**" due to mounting government debt

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### Why didn't macro policy work?

- **Monetary policy** – not effective especially in the late 1990s
  - "Liquidity Trap"
  - Banking crisis in 1997 – 98

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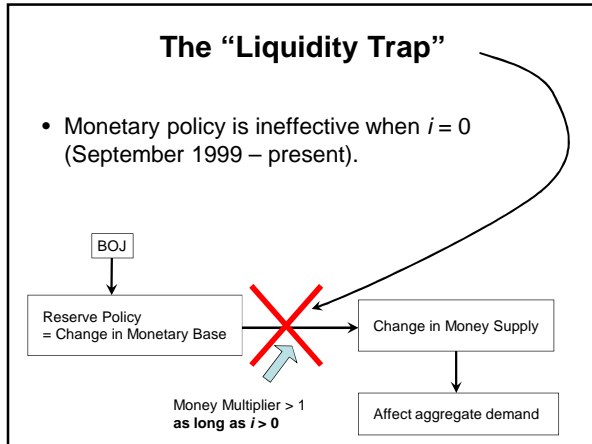
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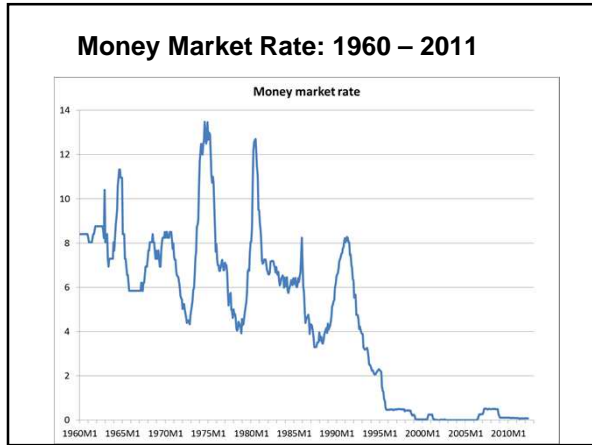
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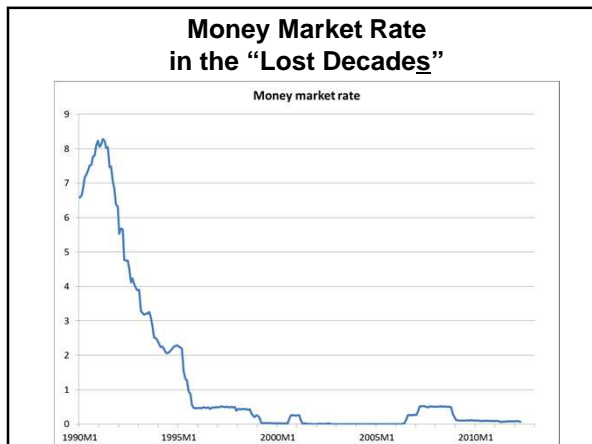
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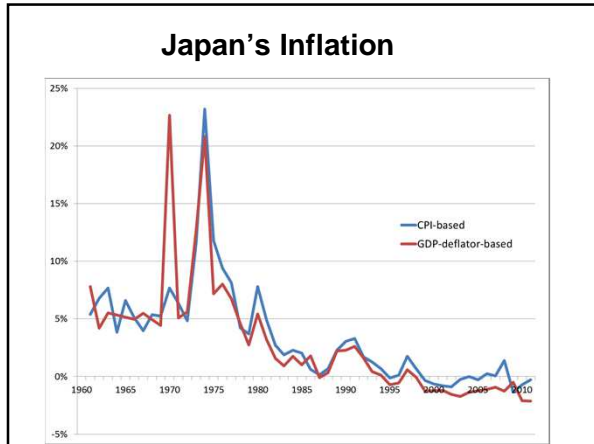
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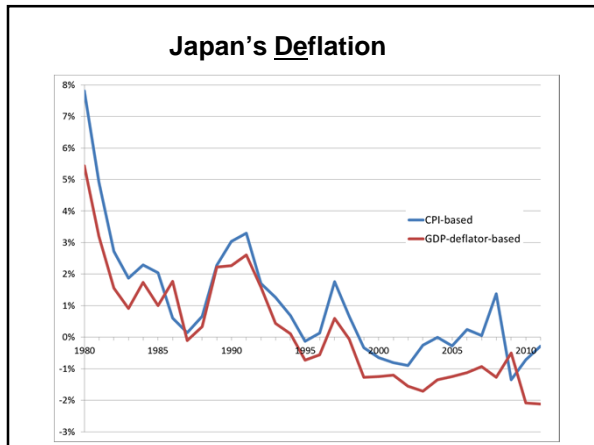
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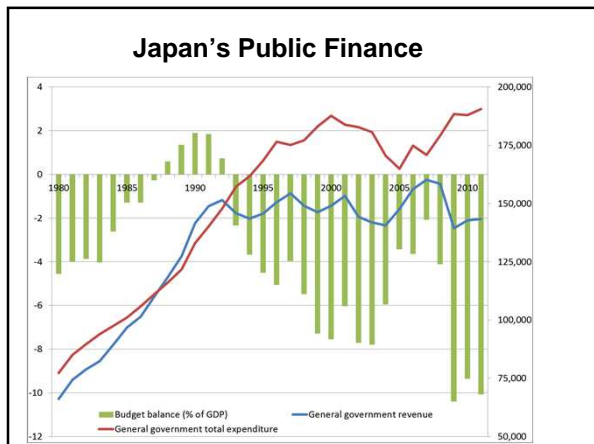
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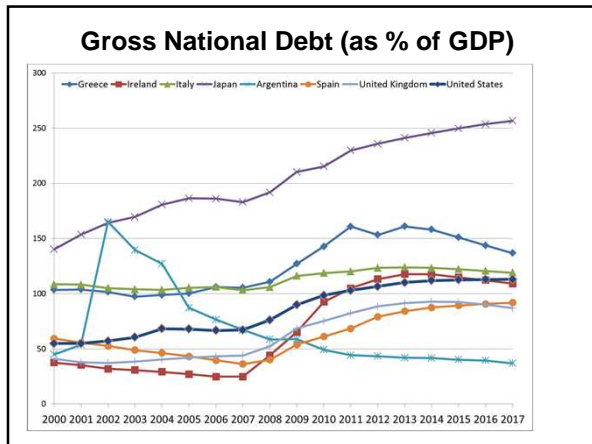
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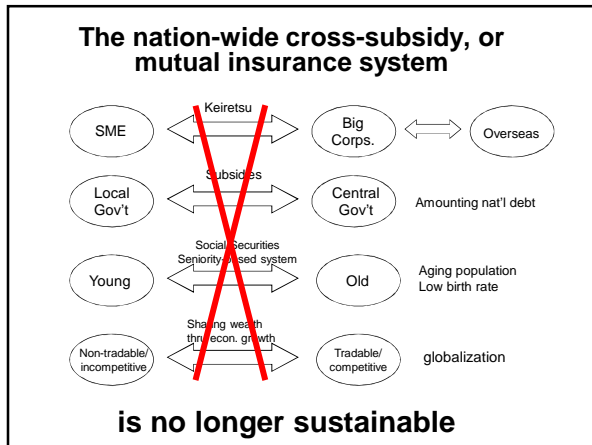
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### Climate Change Outside and Inside Japan

1950s		1980s on
Abundant in young people	<b>Demography</b>	Rapidly aging
Abundant and cheap	<b>Labor</b>	Declining and expensive
Scarce	<b>Capital accumulation</b>	Abundant
Relatively restricted	<b>Trade</b>	Free
Restricted	<b>Capital flow</b>	Free
Low	<b>Value of Yen</b>	High

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## Political Inertia

- Climate change inside and outside Japan and rigidity in the system
- Lack of objective policy analysis/policy debates
- Legacy of the Cold War
  - Extreme risk averse behavior / Avoidance of social fragmentation
  - Conservatism / status quo
- Legacy of the war economy – “If the markets aren’t working *properly*, why doesn’t the gov’t intervene?”  
(cf. rise in foreign investors)

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