Future of Industry

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U.S. Manufacturing

- 2008 manufacturing was \$1.4 trillion
- 9th largest economy/ size of Canada
- 70% R&D \$147 billion 90% of patents
- \$1.00 produces \$1.37 of activity
- 3.4%/year productivity for 20 yrs compared to 2.2%/yr for others
- 22% higher wages than services
- http://www.connstep.org/files/file/20091216manufacturing-framework-final_embargoed.pdf

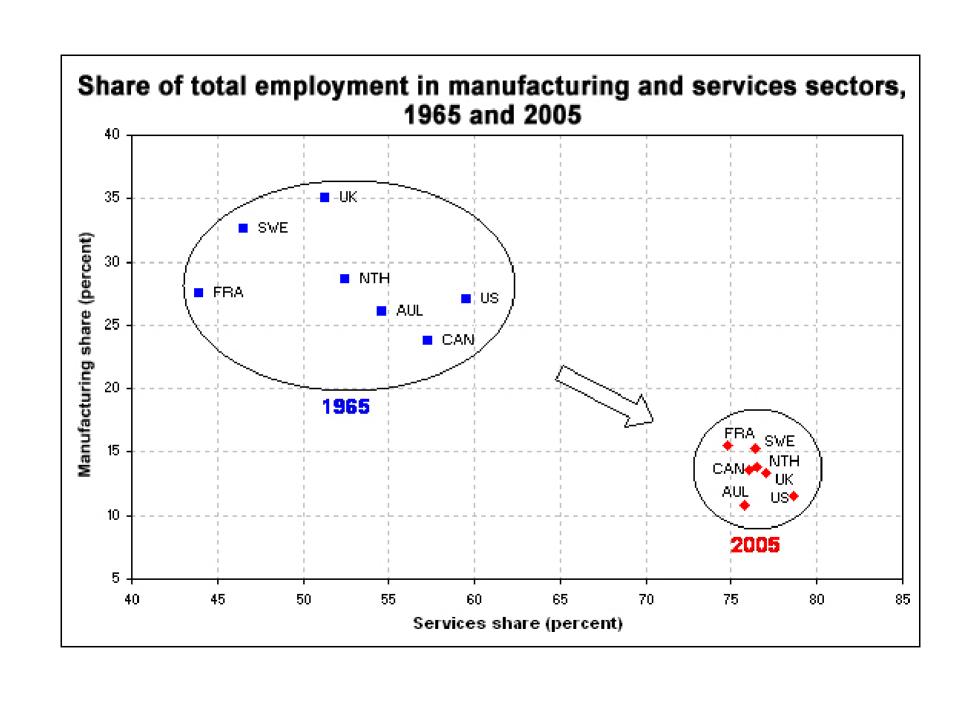
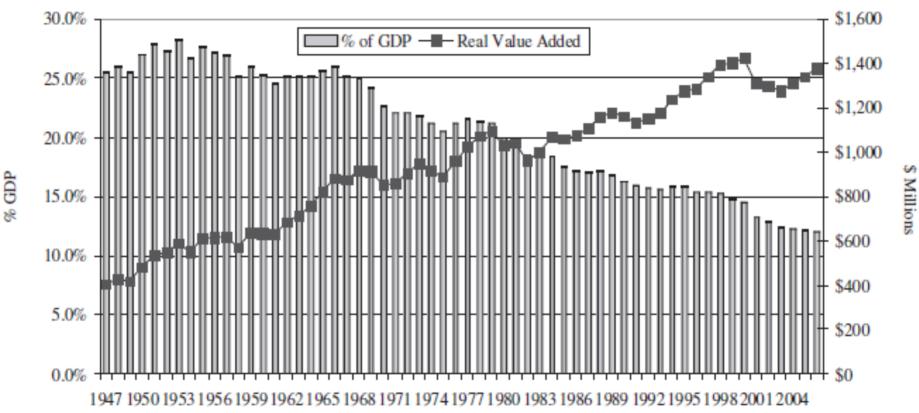
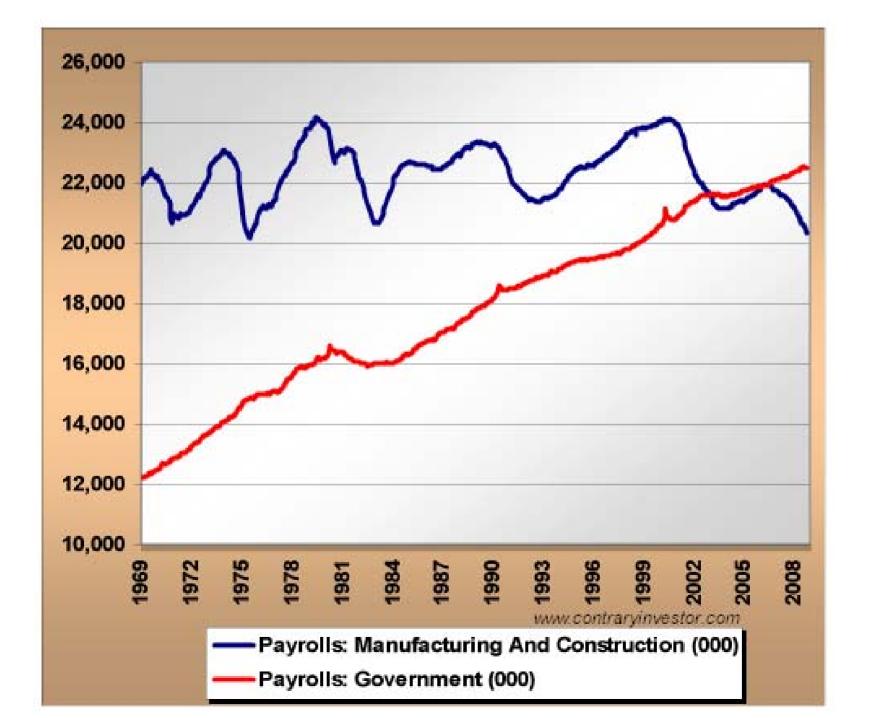
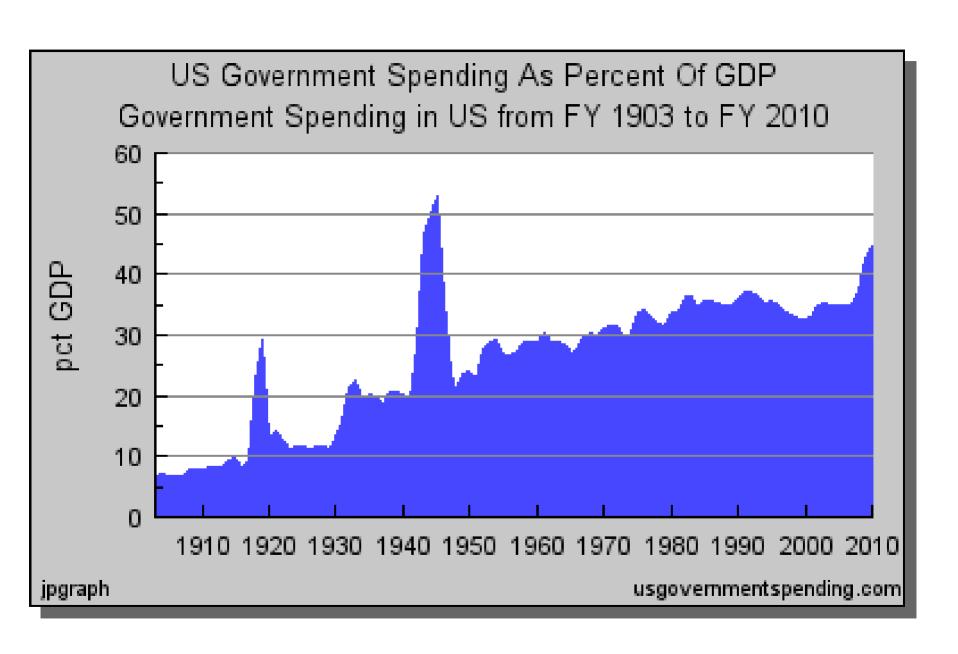


Figure 2 Manufacturing Value Added, % of GDP and Real Value Added(1947–2006)



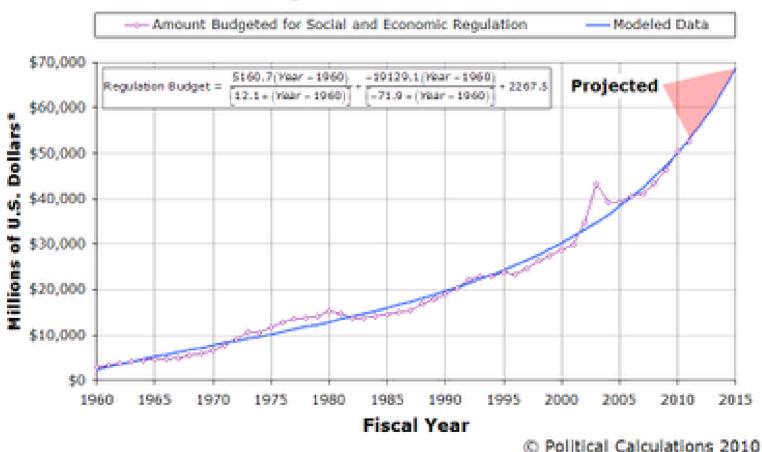
Source: Bureau of Economic Analysis, GDP-by-Industry Accounts, http://www.bea.gov/industry/gpotables/gpo_action.cfm.

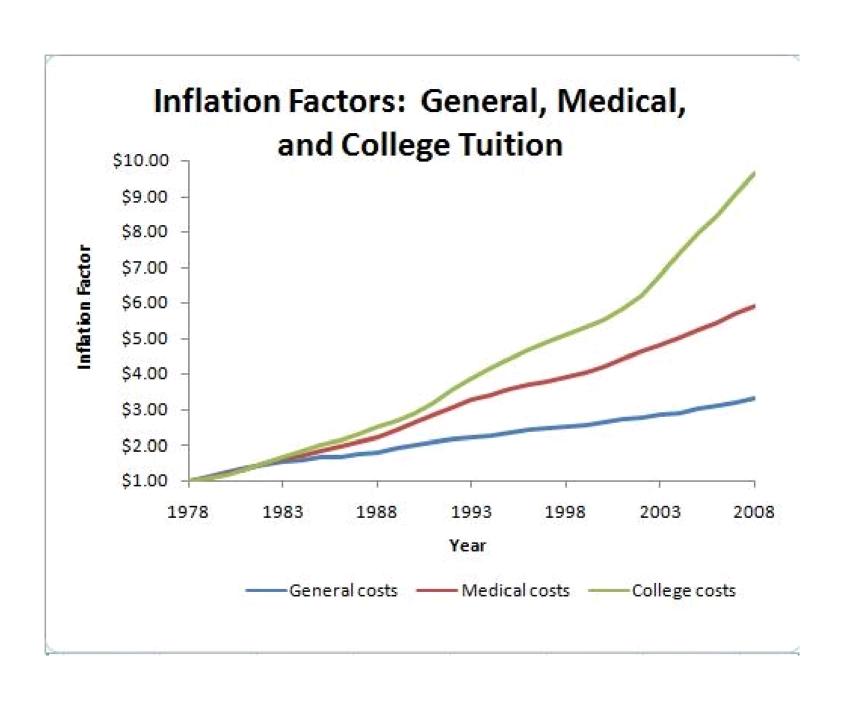


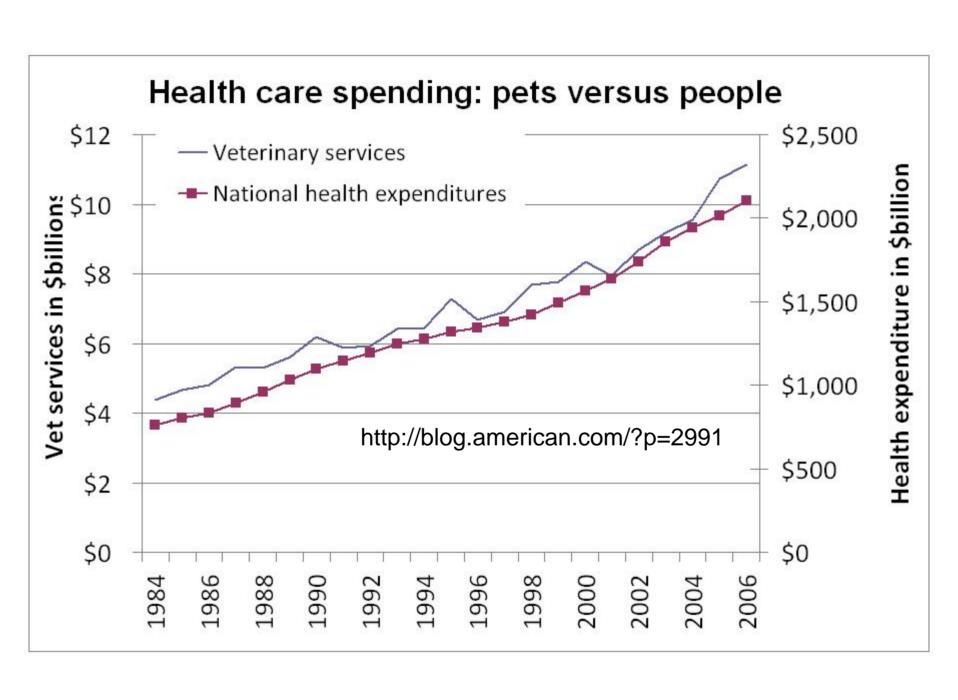


http://politicalcalculations.blogspot.com/2010/06/cost-of-feeding-nanny-state.html

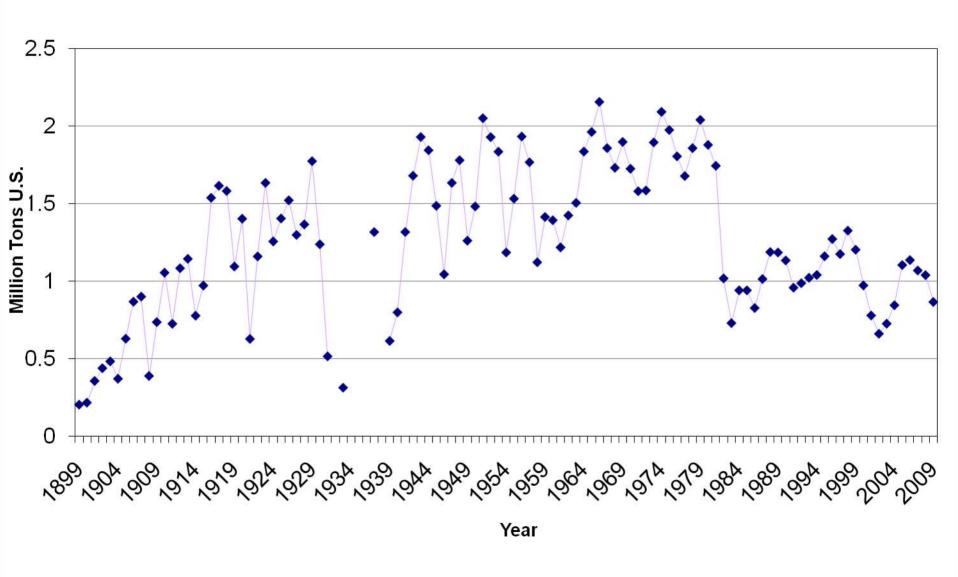
Growth of Federal Government's Budget for Social and Economic Regulation, Fiscal Years 1960-2011



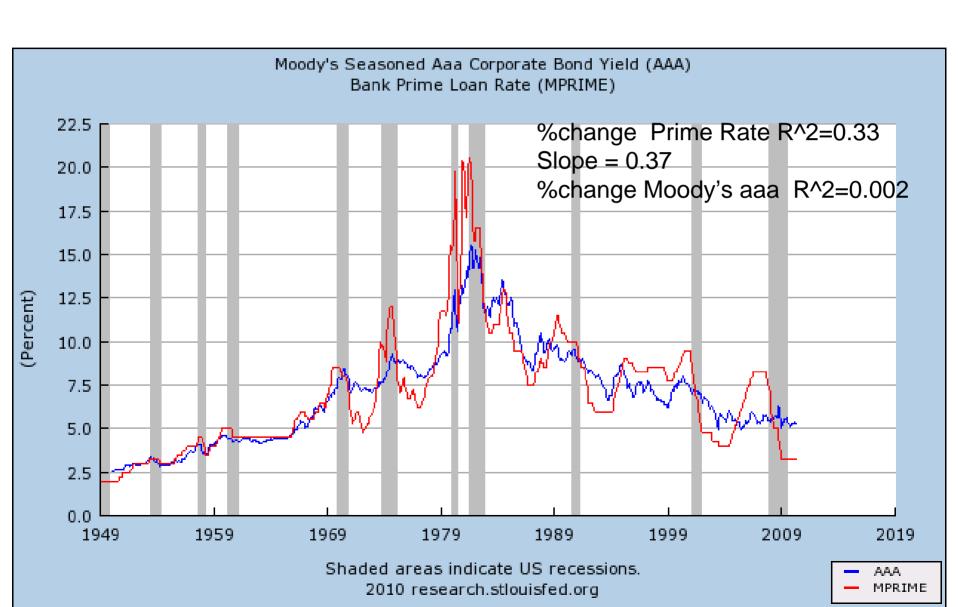




Steel Casting Production in the U.S. million tons



Interest Rates



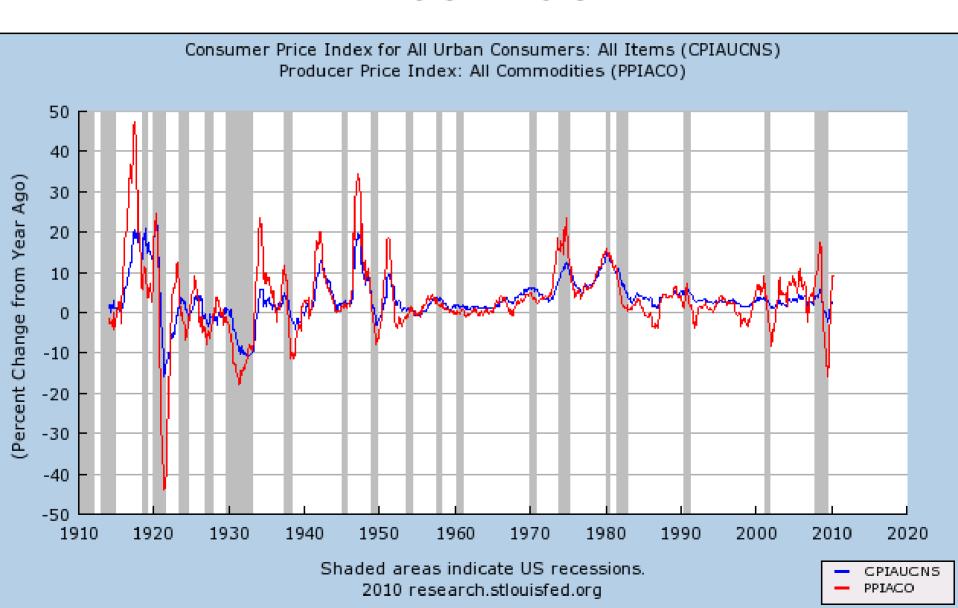
Economic Trends in US

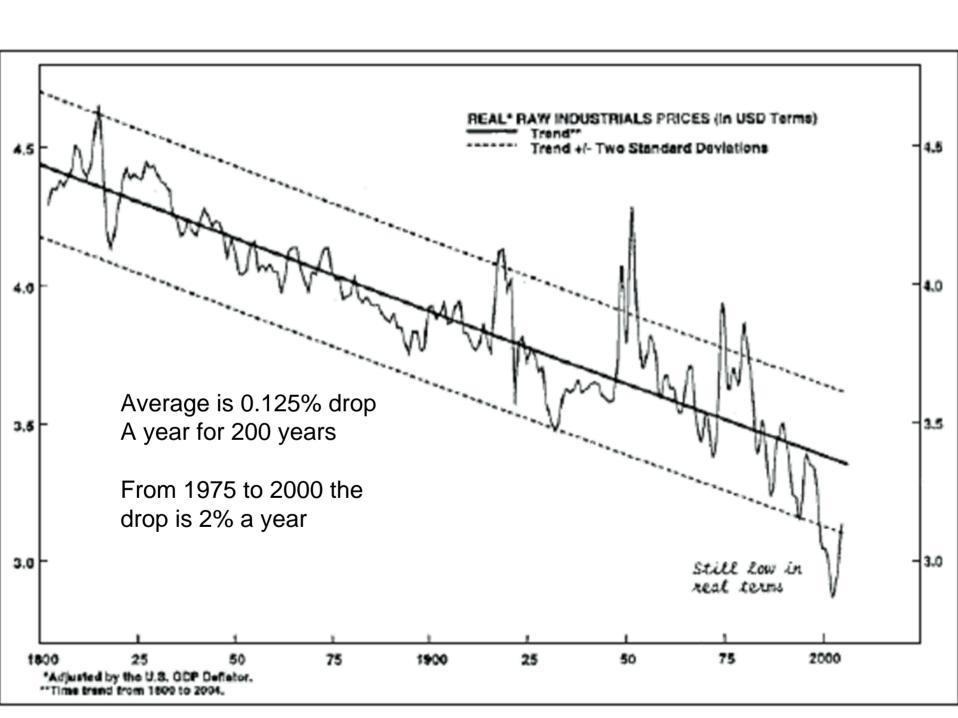
Capital Equipment Investment 15 to 40 years

- Excess Capacity
 - Prices stable or decline
 - Cost cutting required
 - Reduce inventory
 - Minimum staff
 - Low profitability
 - Liquidation of capacity
 - Low interest rates, inflation, inventories, lead times
 - Fewer captive operations

- Limited Supply
 - Prices increase
 - Production required
 - Inventory asset
 - Staff required
 - New products and processes
 - Increases in capacity
 - Increases in interest rates, inventory, inflation, lead times
 - New captive operations

Price Index





Thanks! Questions?

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