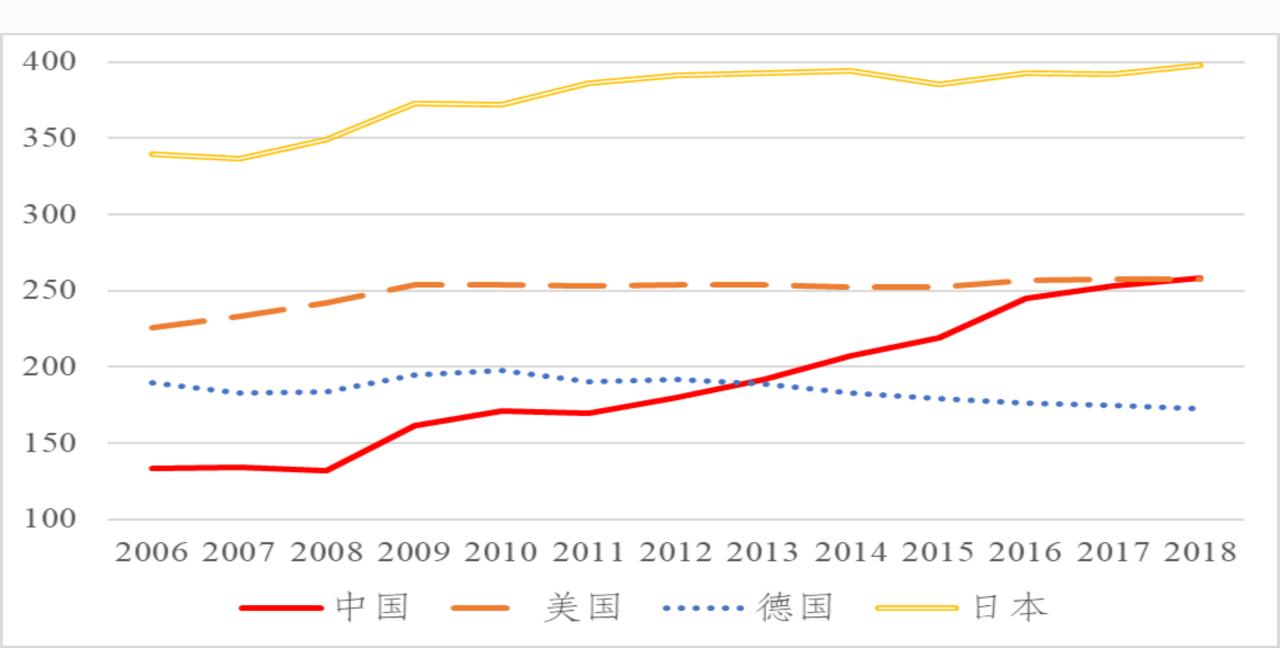
第五讲:债务问题

数据来源: IMF全球债务数据库



债的风险

- "固定回报"就是风险低么?
- 信贷突然收缩的风险
- 无法平滑调整,资产价格跳水
- 银行流动性风险
- 债务积压和通缩风险:债务-通缩-萧条
- 加剧不平等

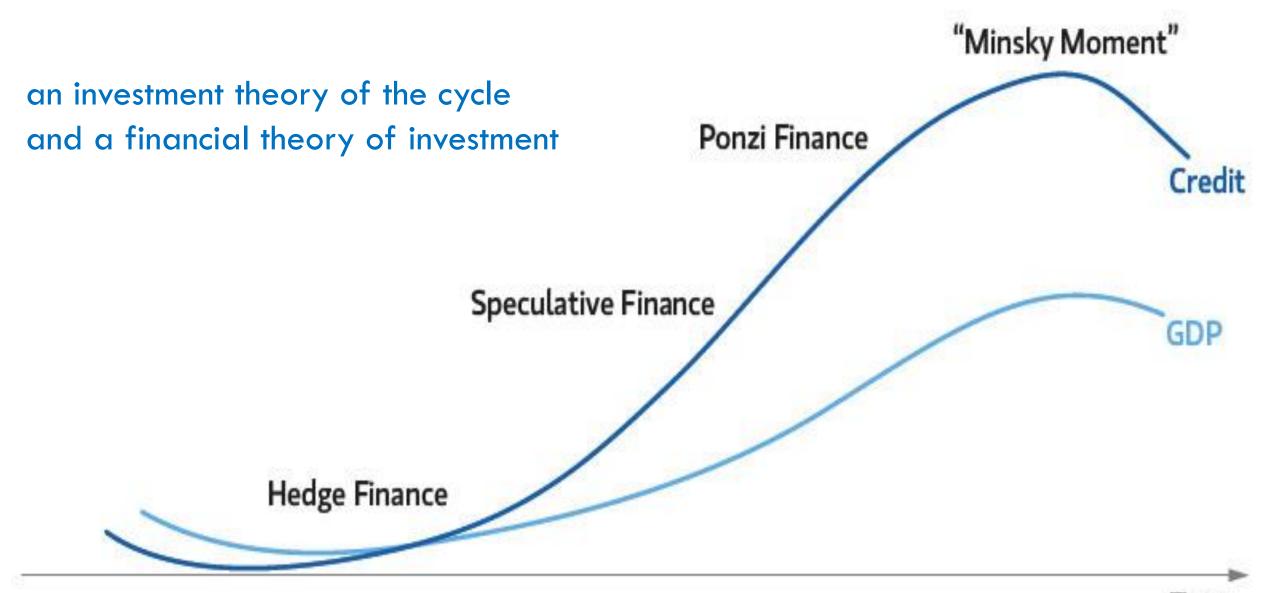
Households

Assets	Liabilities	_			
House	Household				
Financial assets	loans Net worth				
	Ba			nks	
			Assets	Liabilities	
Fir	ms	t	(Loans o households	Deposits	
Assets	Liabilities	I	Loans to firms	Equity	
Capital	Firms' loans				
	Equity				

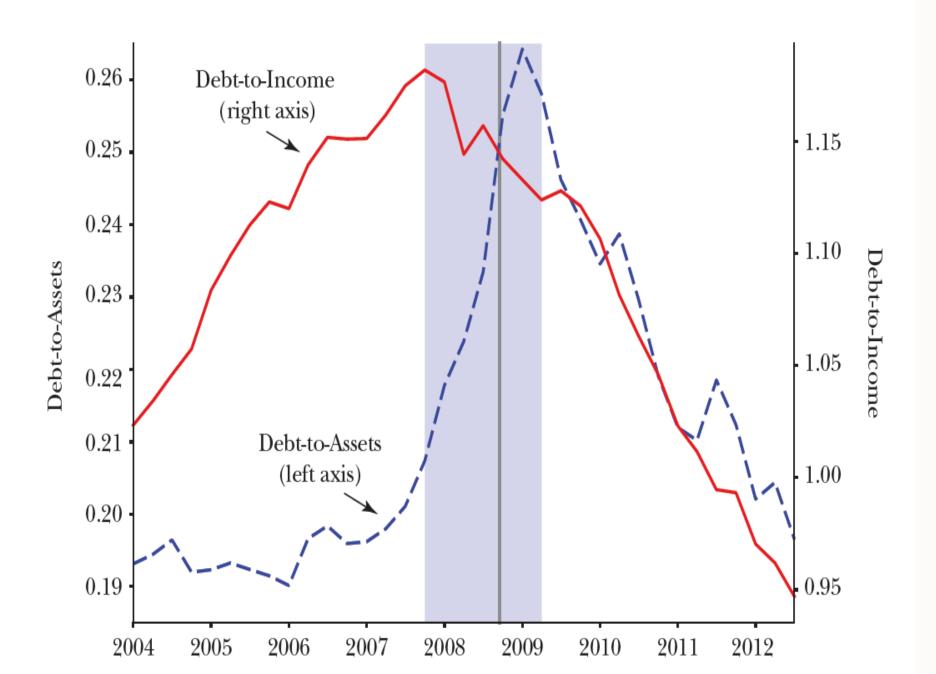
资产负债表衰退

Gertler & Gilchrist (2018)

Stylized "Minsky Cycle"

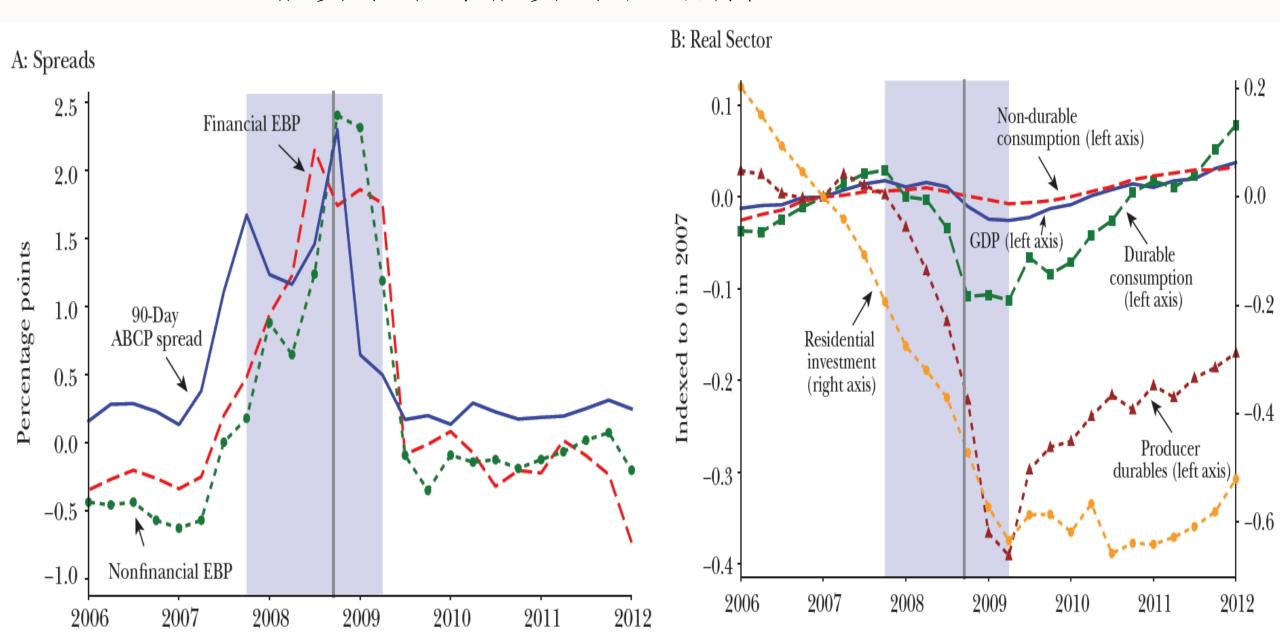


Debt/Income and Debt/Assets: Households



去杠杆

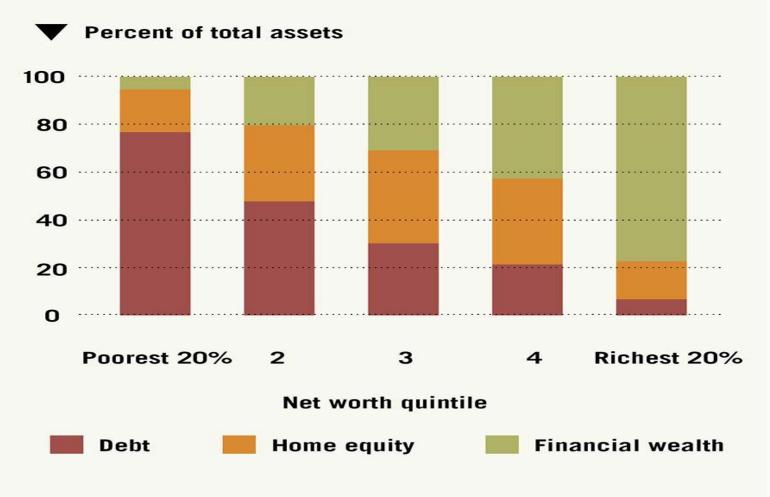
Gertler & Gilchrist (2018)



The rich were different

In 2007, the richest homeowners had less debt and more nonhousing assets, such as stocks.

Leverage ratio for homeowners, 2007, by net-worth quintile



债务与不平等:

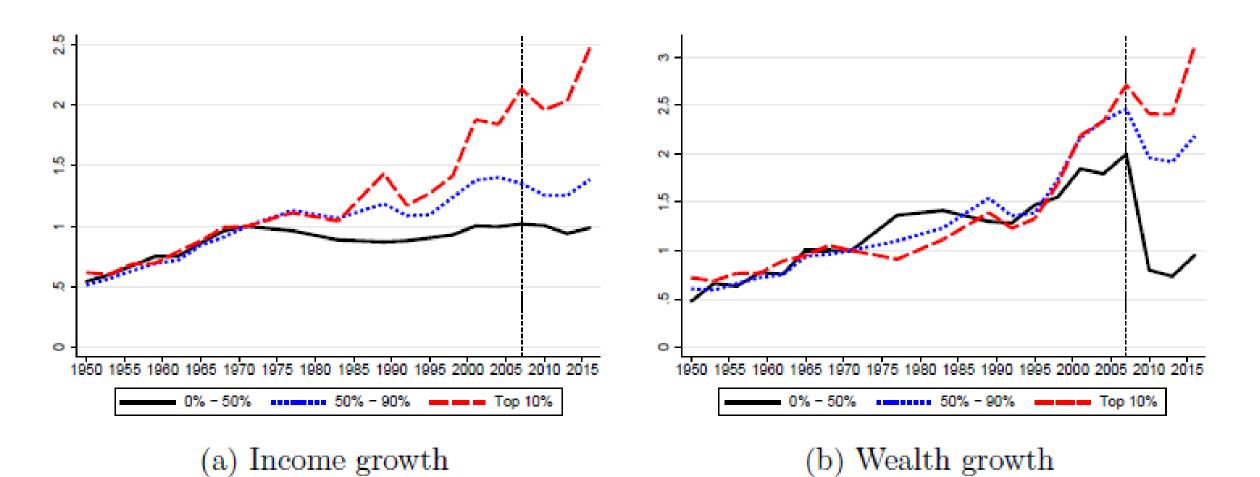
风险集中在债务人 (穷人

-)身上&对债权人(富人
-) 的优先保护

Mian & Sufi (2015)

Source: Mian and Sufi, 2014

Figure 12: Income and wealth growth along the wealth distribution



杠杆是怎么加上去的?

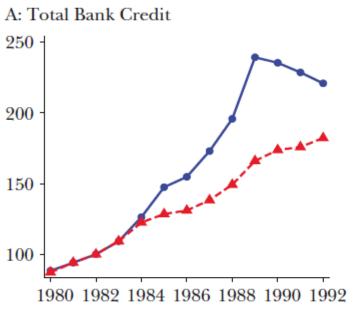
- 经济集聚与特定地区房地产供给不足的矛盾(第四讲)
- 金融放松管制,过度繁荣
- 长期实际利率下降促进投机行为与金融创新
- 实体企业投资需求不足
- 国内贫富差距
- 全球失衡
- 消失的通缩

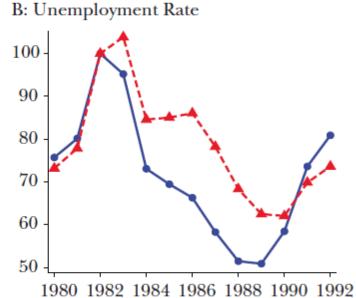
加杠杆I: 金融自由化

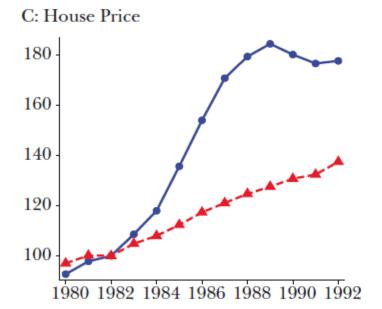
US Banking Deregulation Quasi-Experiment

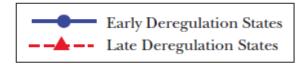
Mian & Sufi (2018)

(outcomes indexed to 100 in 1982)









全球银行危机频率						
1945-70	2					
1970-80	9					
1980-2010	153					

Reinhart & Rogoff (2009)

银行与信贷创造: 你从银行借10万

	4	银行					
资产	=	负	债				
贷款	10万	存款	10万				
		你					
		资产			负债		
		银行存款	10万	借款		10万	

限制银行无限扩张的因素:资本充足率,法定准备金率等

银行的炼金术与风险

- 杠杆率太高
- 短期负债与长期资产的错配
- 存款保险下的机构挤提
- 货币市场基金所带来的风险
- 大而不倒?
- 与提高生产率无关的过度信贷(比如房地产)
- 信贷的顺周期性

包商银行破产:资产负债规模5000多亿,2200多亿资不抵债

- 存款保险: 普通储户; 5000万以下机构; 5000万以上机构
- 耗尽存款保险基金,1000多亿
- 二级资本债65亿清零
- 同业负债高于一般储蓄

案例阅读:包商银行破产倒计时



Turner (2015)

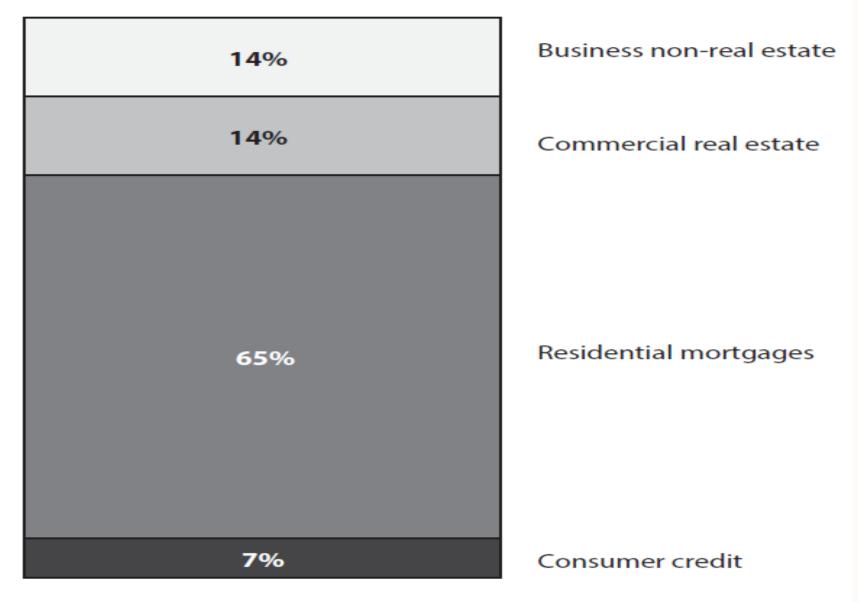
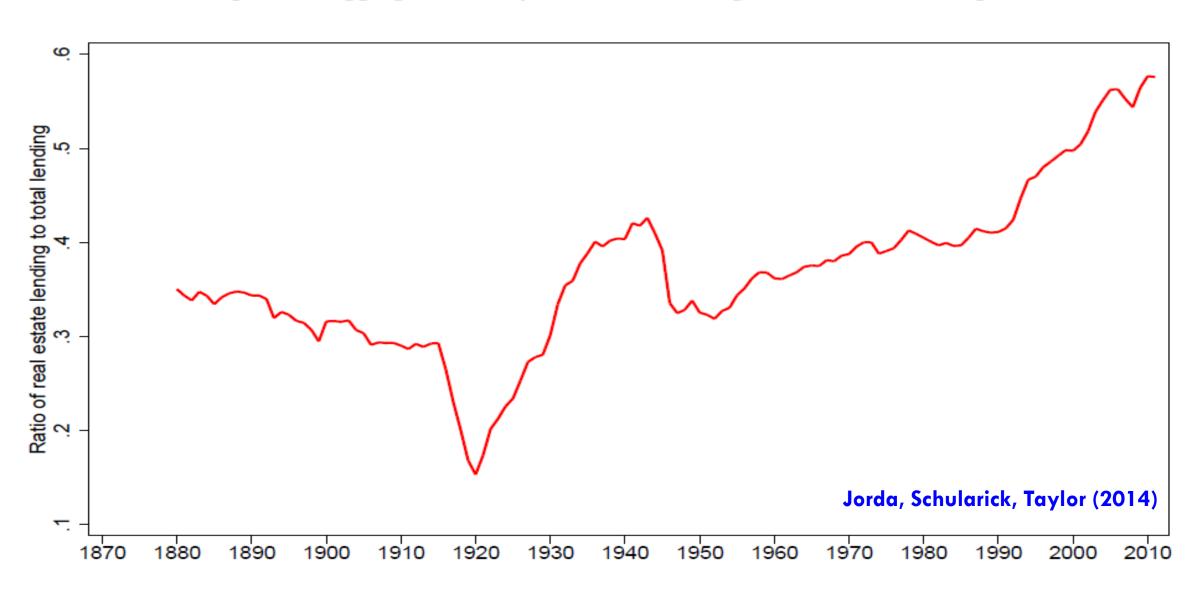


Figure 4.1. Categories of bank lending in the United Kingdom, 2012 Source: Bank of England.

Figure 4: Aggregate share of real estate lending in total bank lending



Notes: Share of real estate lending to total lending averaged across 17 countries. Before 1880 the sample size is too small for use. See text.

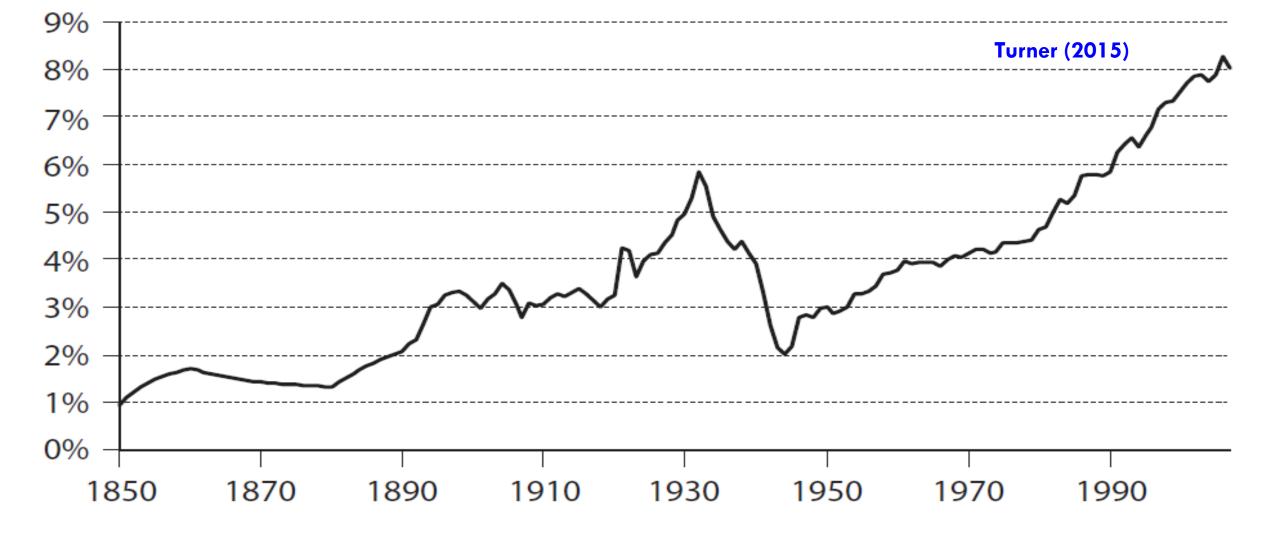


Figure 1.1. Share of the financial industry in U.S. GDP

Source: Philippon (2008) (as referenced by Haldane, Brennan, and Madouros 2010). Used with permission.

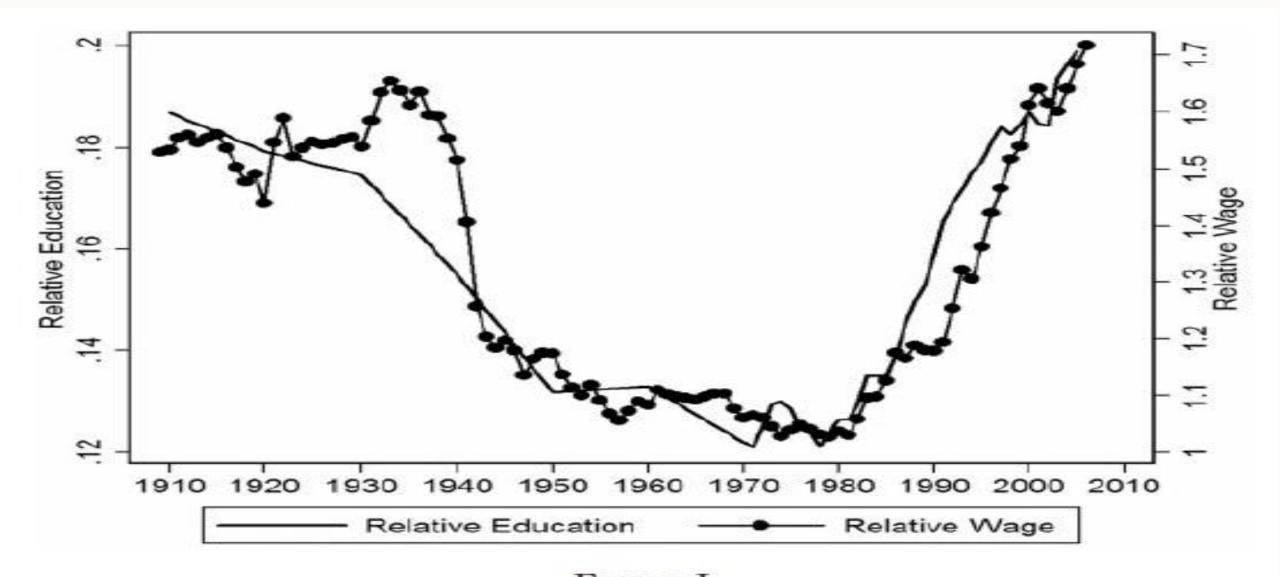


FIGURE I
Finance Relative Wage and Relative Education

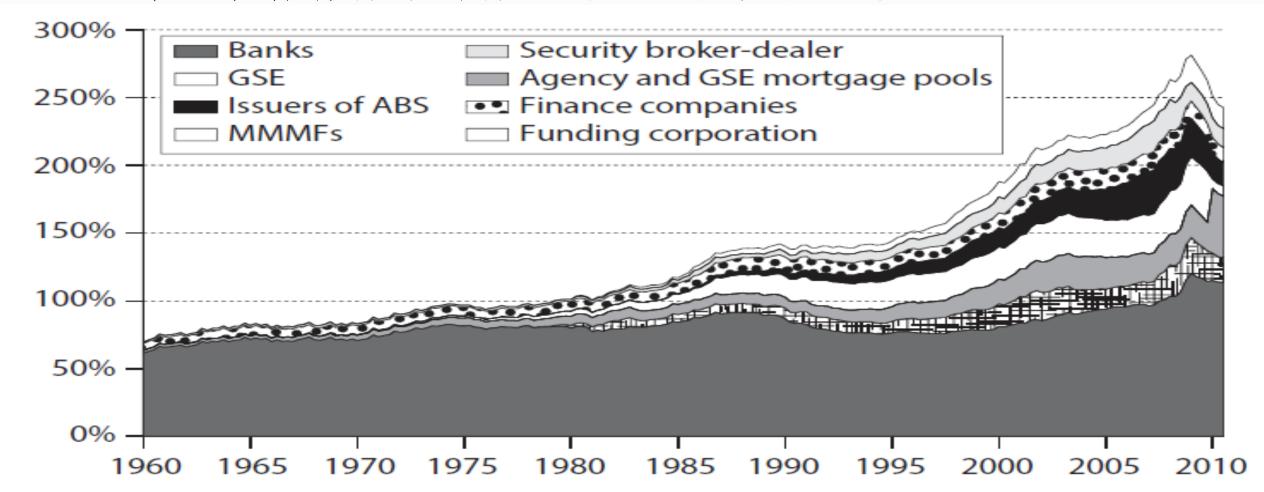


Figure 6.1. U.S. financial sector assets as percentage of GDP

Note: ABS, asset backed securities; GSE, government sponsored enterprise; MMMFs, money market mutual funds.

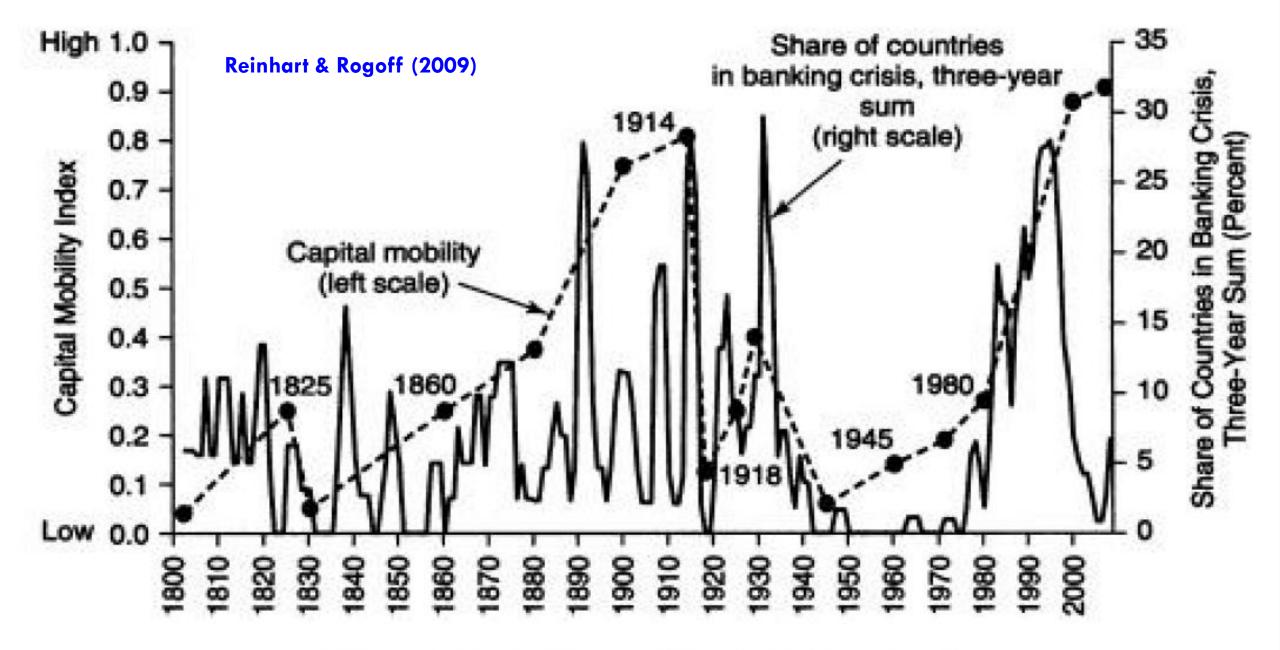
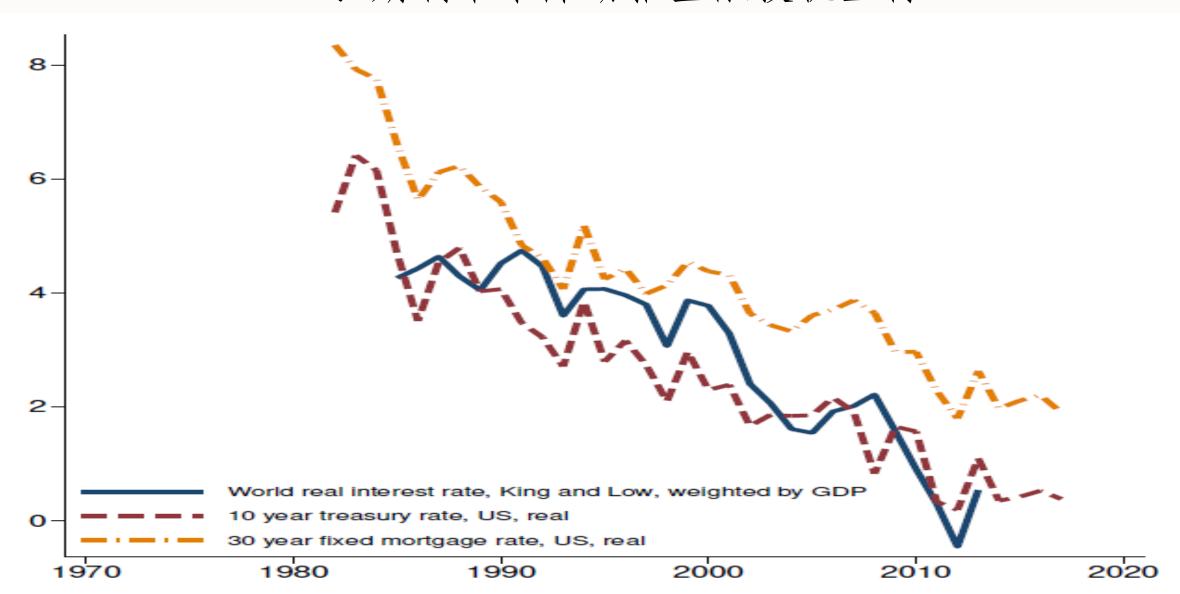


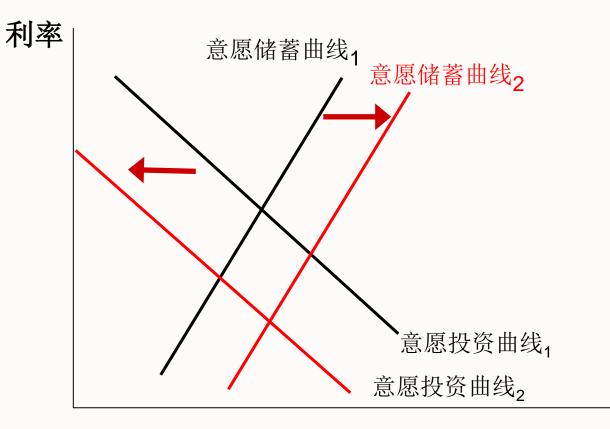
Figure 10.1. Capital mobility and the incidence of banking crises:
All countries, 1800-2008.

加杠杆II: 长期利率下降与金融投机

长期利率下降助推金融投机盛行 Mian, Straub, Sufi (2020a)



均衡利率下降

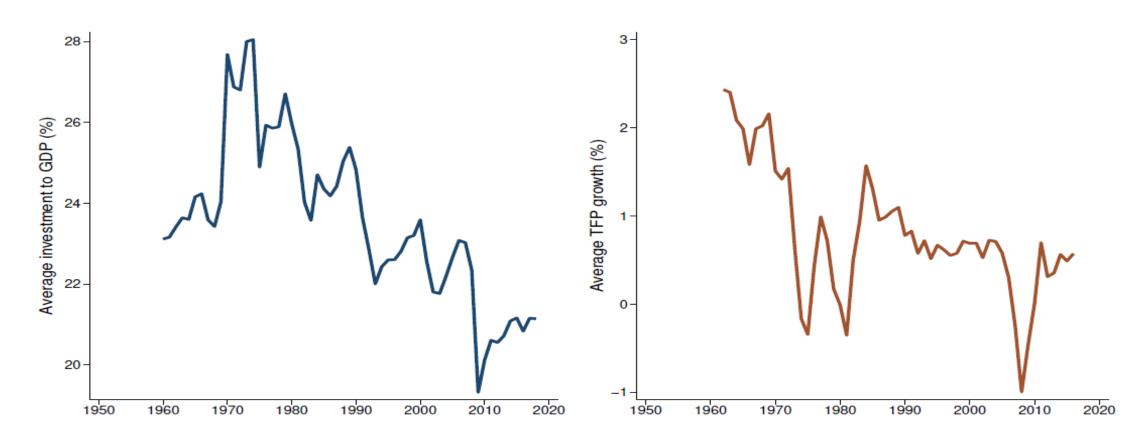


老龄化和贫富差距扩大推动储蓄曲线右移

私人部门投资量下降 (公司持有大量现金, 技术发展降低了设备 价格)

可贷资金

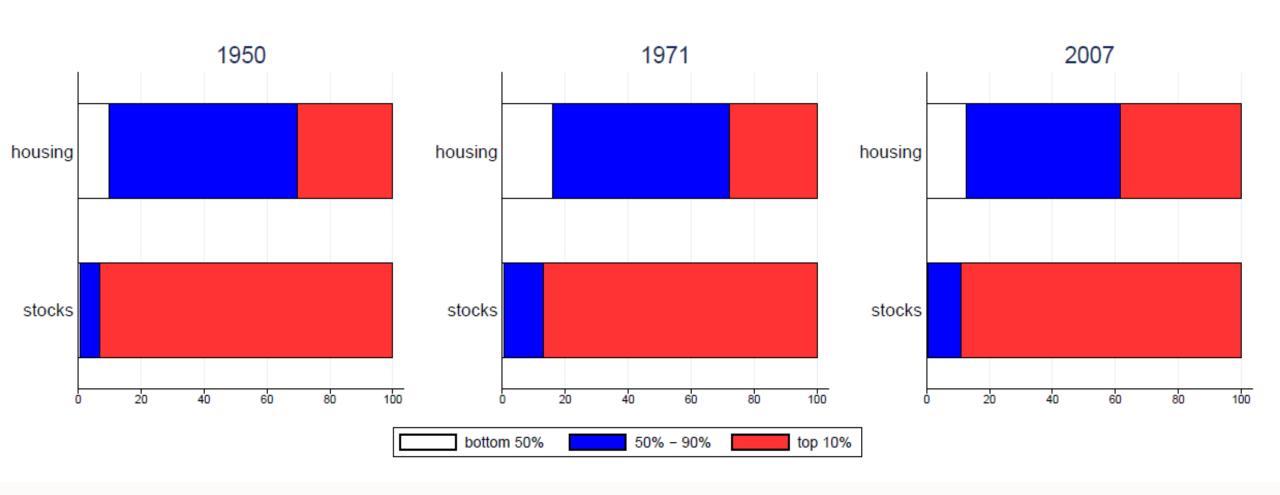
Figure 3: Secular decline of investment and TFP growth.



Left panel shows cross-country average gross capital formation as a percentage of GDP and the right panel shows cross-country average total factor productivity growth, where the averages are weighted by real GDP in 1970. The countries in the sample are Australia, Canada, Finland, France, Germany, Italy, Japan, New Zealand, Norway, Portugal, Spain, Sweden, United States and United Kingdom. Cross-country averages are constructed over 3-year moving averages at the country-level. Data come from the Penn World Tables and World Bank World Development Indicators.

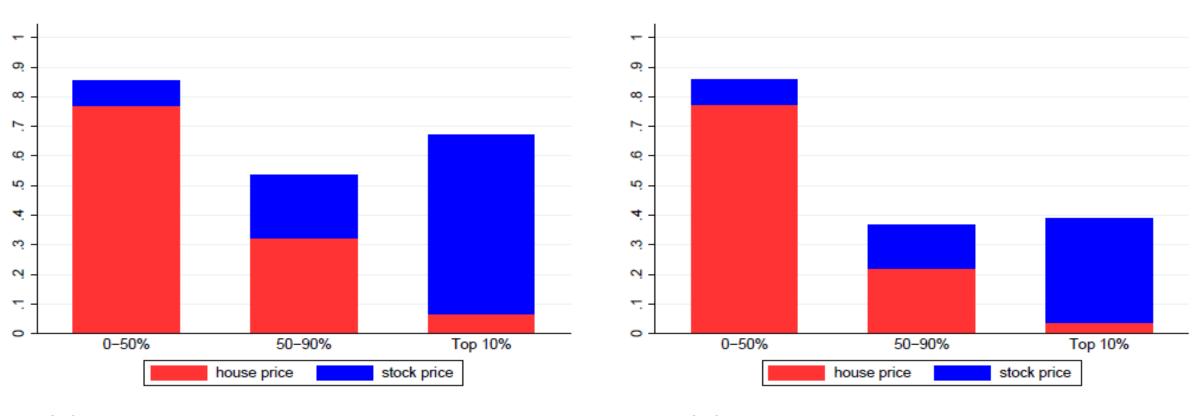
低利率推升资产价格,加大不平等 Kuhn, Schularick, Steins (2020)

Figure 15: Shares in total asset holdings by wealth group for selected years



低利率推升资产价格,加大不平等 Kuhn, Schularick, Steins (2020)

Figure 18: Wealth growth from asset price changes, 1971-2007

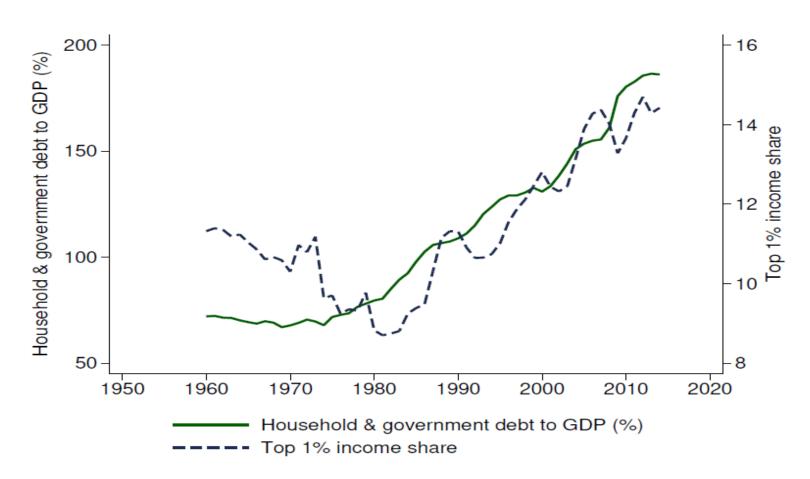


(a) Wealth growth from asset prices

(b) Share in total wealth growth

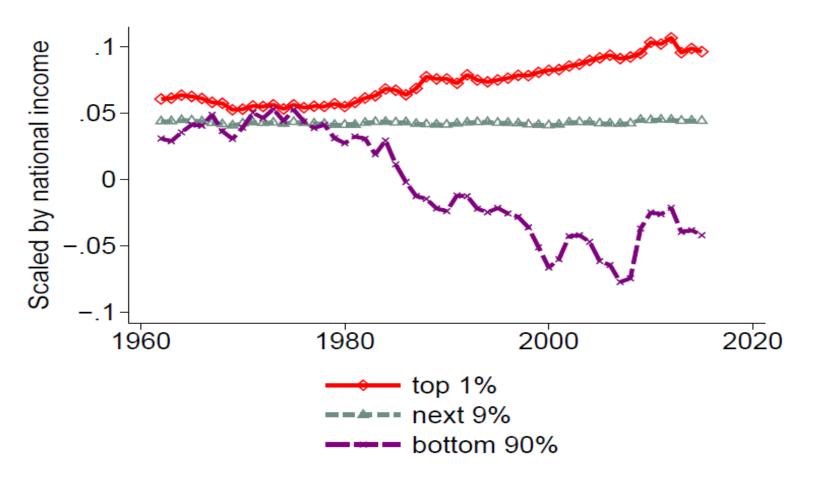
加杠杆III: 国内贫富差距

Figure 4: Rising inequality and rising debt.



Series are cross-country averages, weighted by real GDP in 1970. The countries in the sample are Australia, Canada, Finland, France, Germany, Italy, Japan, New Zealand, Norway, Portugal, Spain, Sweden, United States and United Kingdom. Data come from the World Inequality Database, IMF Global Debt Database, the Jorda-Schularick-Taylor Macrohistory Database and the New Zealand Treasury.

Figure 6: Saving Glut of the Rich and Saving of the non-Rich



The saving glut of the rich is defined to be the after-tax income of the top 1% of the income distribution minus personal consumption of the top 1% of the income distribution, scaled by national income. The savings of the other two groups is similarly defined.

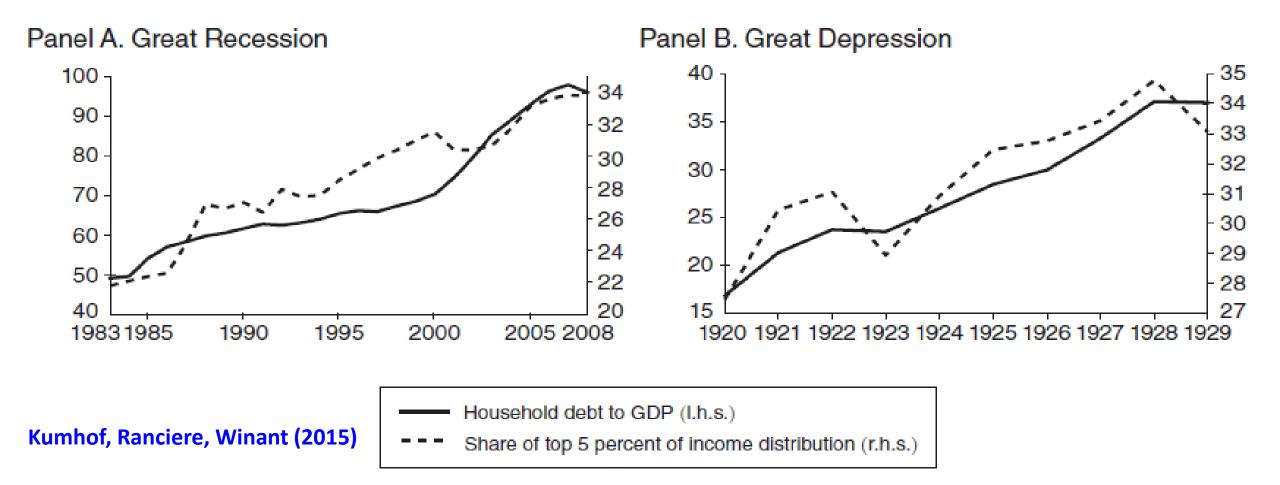
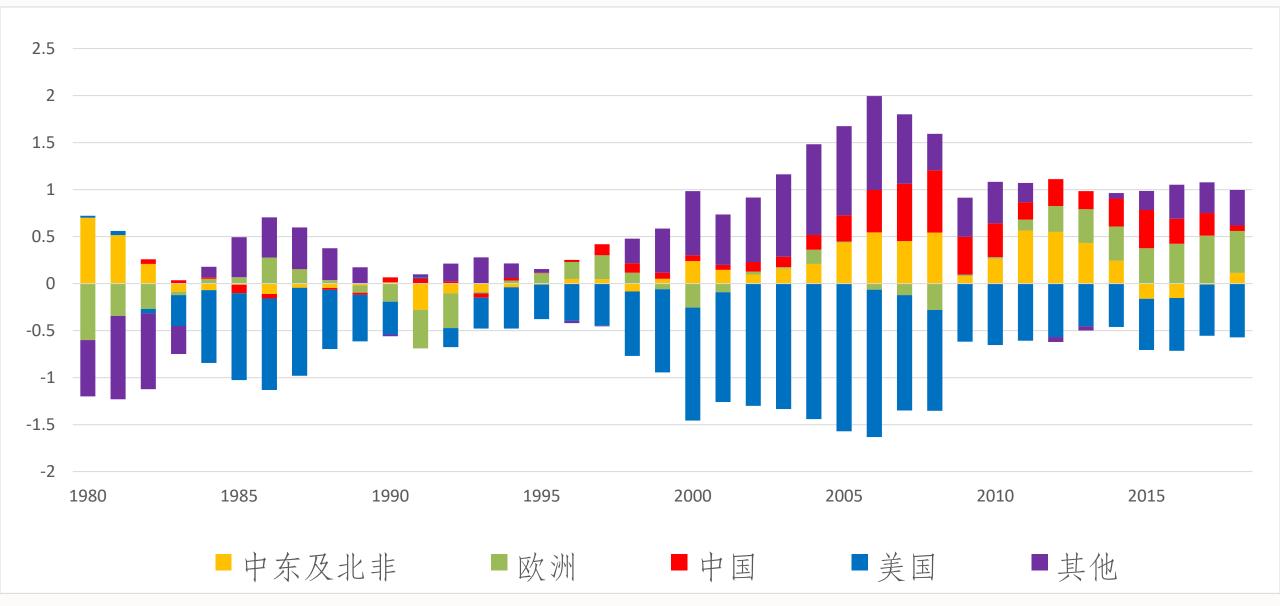


FIGURE 1. INCOME INEQUALITY AND HOUSEHOLD LEVERAGE

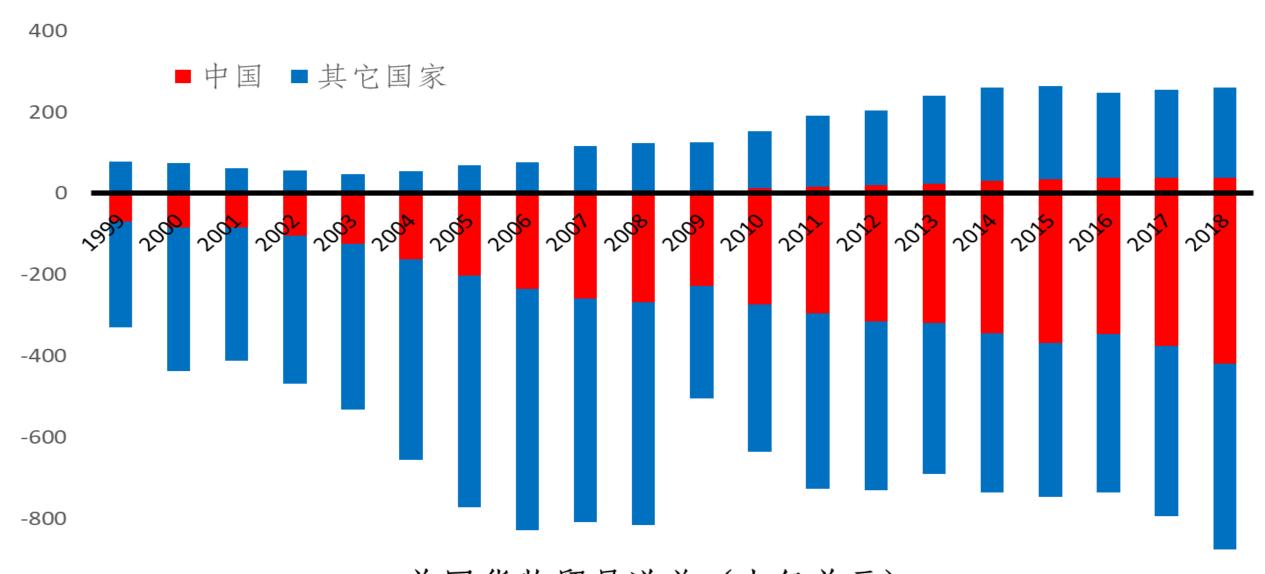
Sources: Panel A: Income shares from Piketty and Saez (2003, updated). Income excludes capital gains. Household debt-to-GDP ratios from Philippon (2013), based on Flows of Funds database and Bureau of Economic Analysis (BEA). Income shares from Piketty and Saez (2003, updated). Panel B: Income excludes capital gains. Household debt-to-GDP ratios from Philippon (2013), based on Historical Statistics of the United States (Millenial Edition) and Surveys of Current Business.

加杠杆IV: 国际收支不平衡

全球经常账户余额占GDP比重

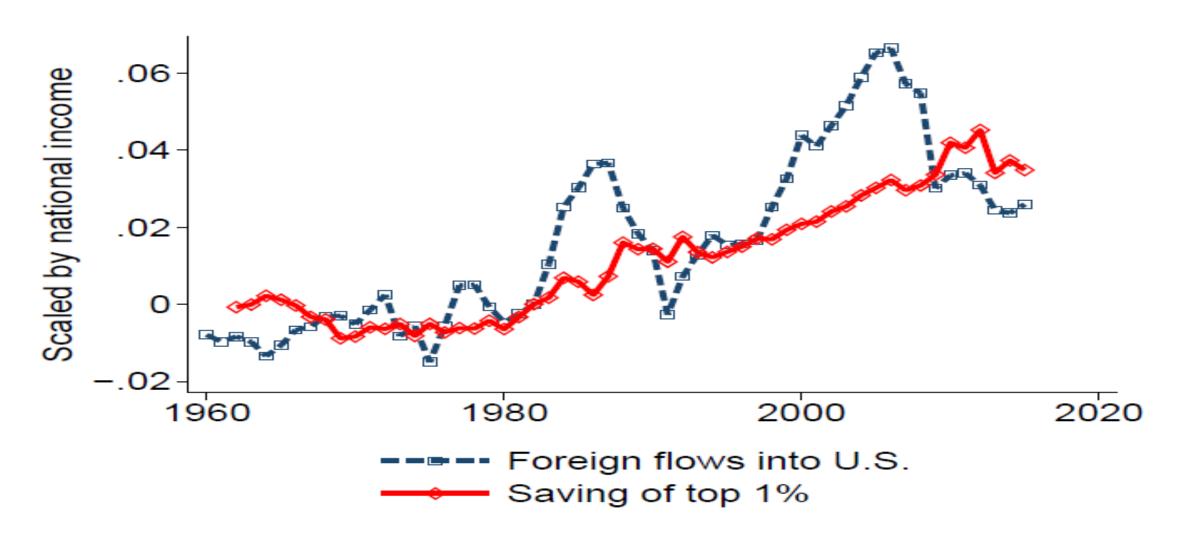


美国服务贸易顺差(十亿美元)



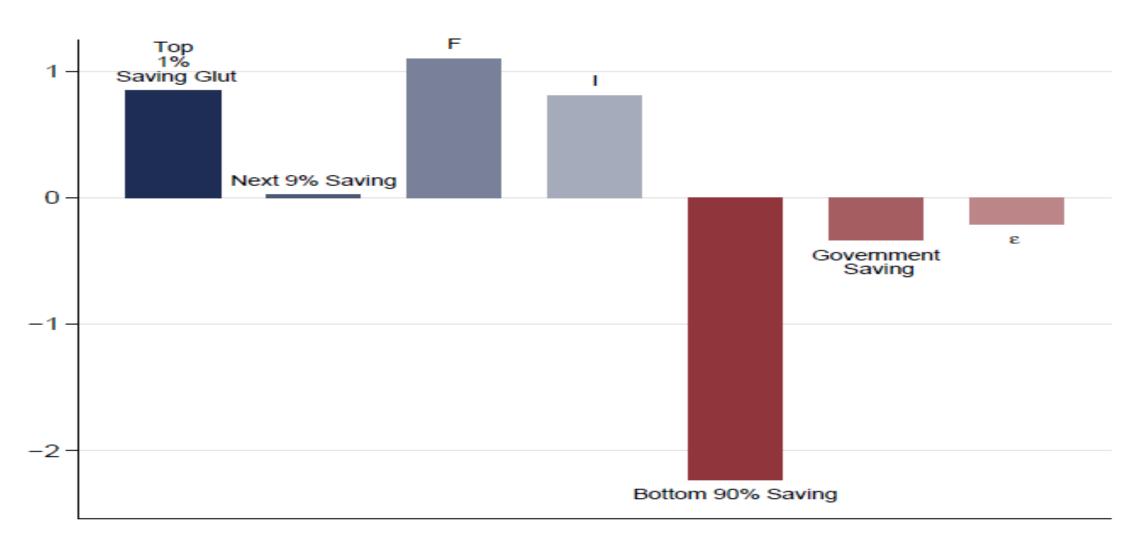
美国货物贸易逆差(十亿美元)

Figure 5: Saving Glut of the Rich and the Global Saving Glut



S(private)+S(government) = I + NCO

Figure 7: Absorption of the Accumulated Saving Glut of Rich



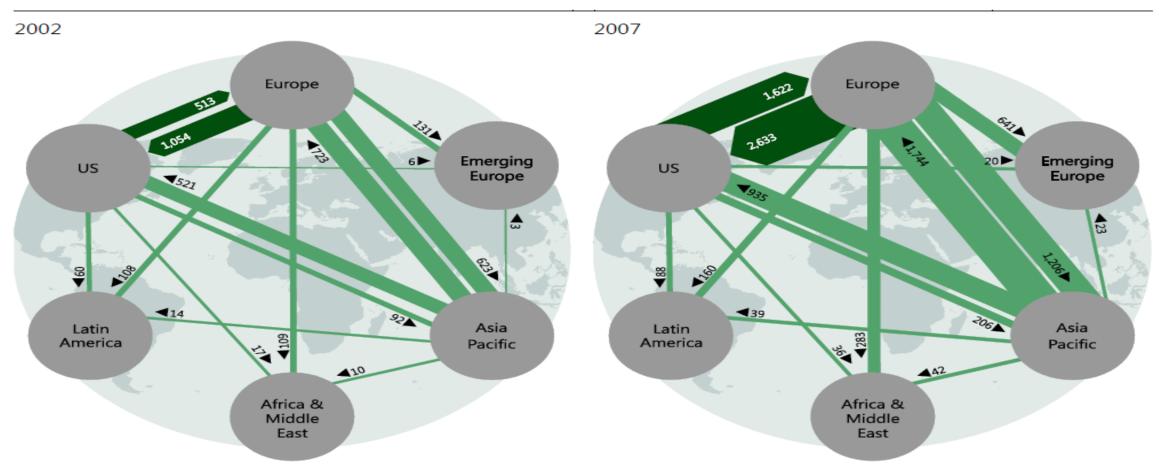
不能只看单向"净流量",还要看双向总量

Cross-border bank claims (denominated in all currencies)¹

In billions of USD

Avdjiev, McCauley, Shin (2015)

Graph 6

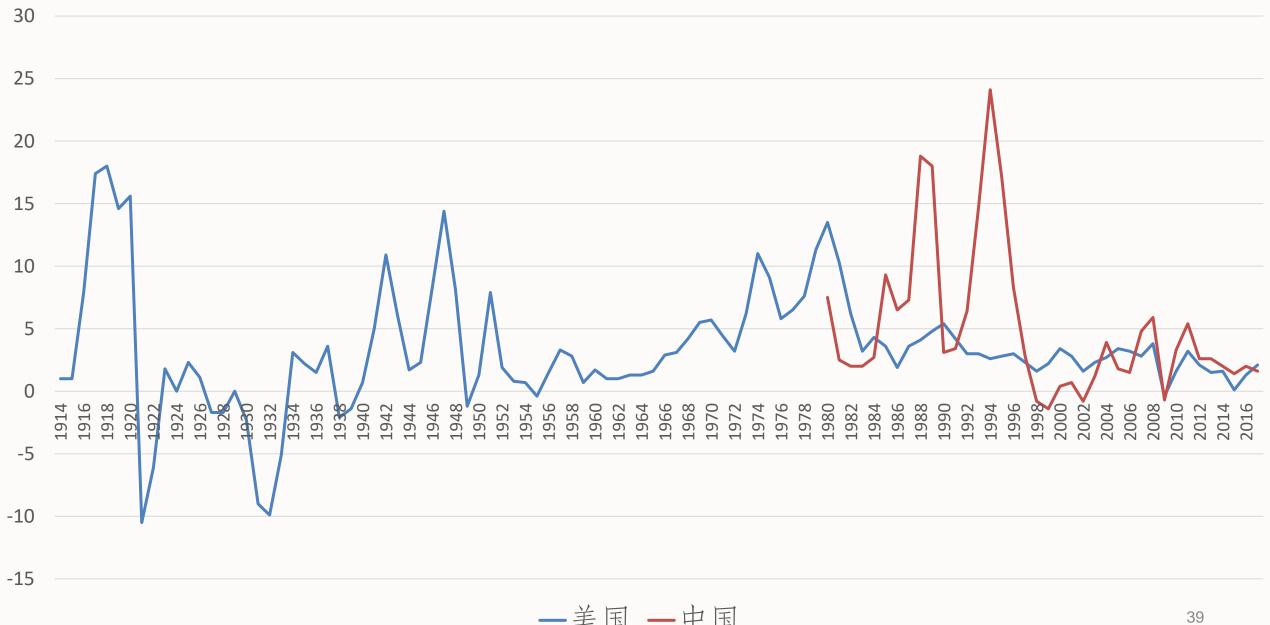


¹ The thickness of the arrows indicates the size of the outstanding stock of claims. The direction of the arrows indicates the direction of the claims: arrows directed from region A to region B indicate lending from banks located in region A to borrowers located in region B.

Source: BIS locational banking statistics.

加杠杆V: 通货紧缩消失

消失的通缩: CPI历史数据



中国的情况

宏观杠杆率

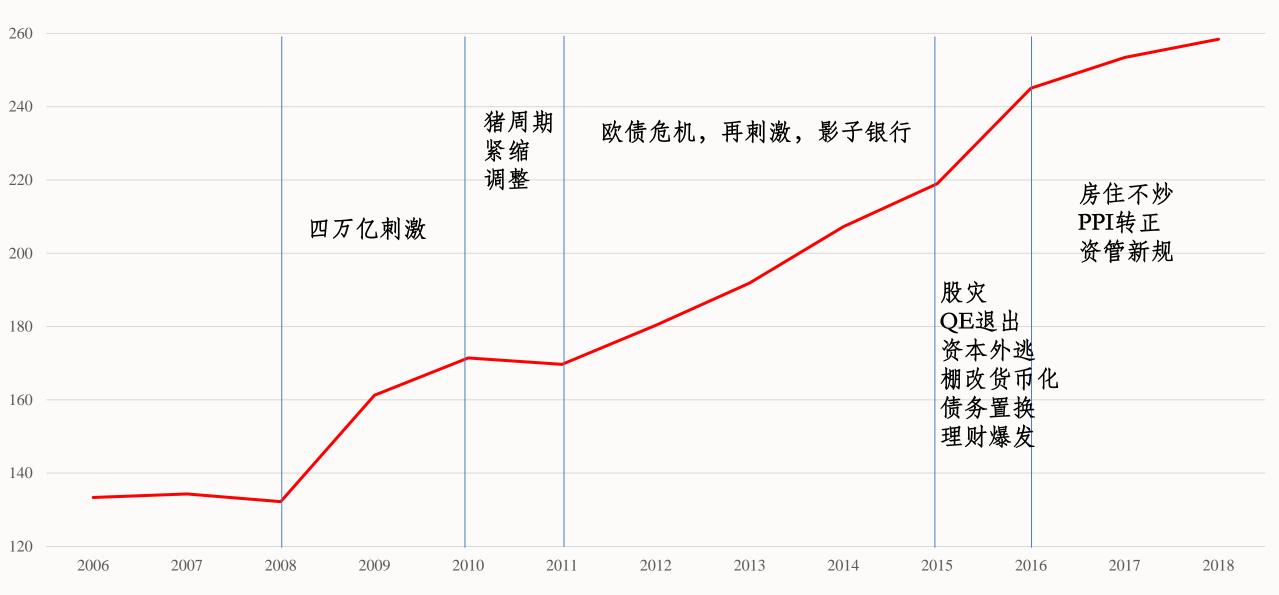
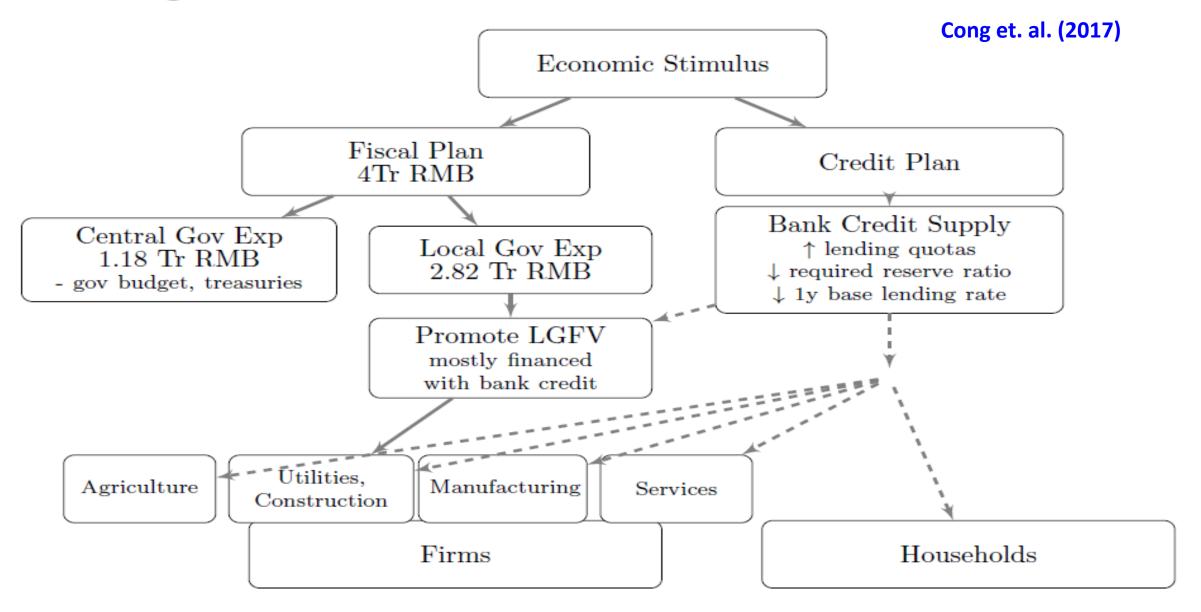


Figure 1: Structure of China Economic Stimulus Plan

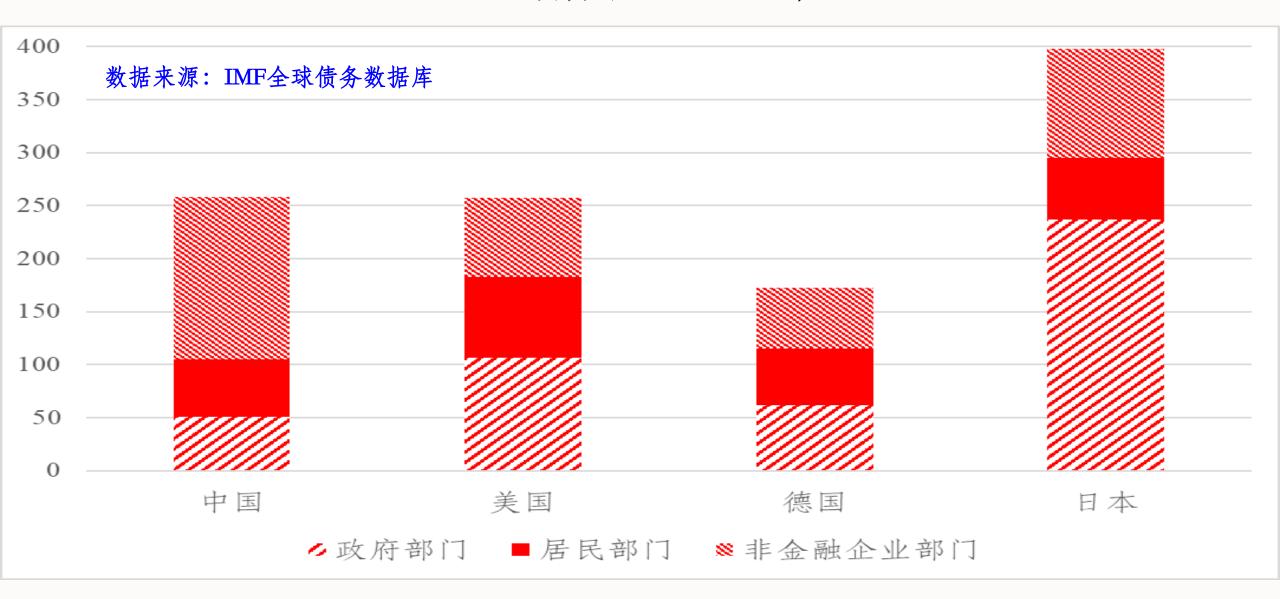


中国的债务风险

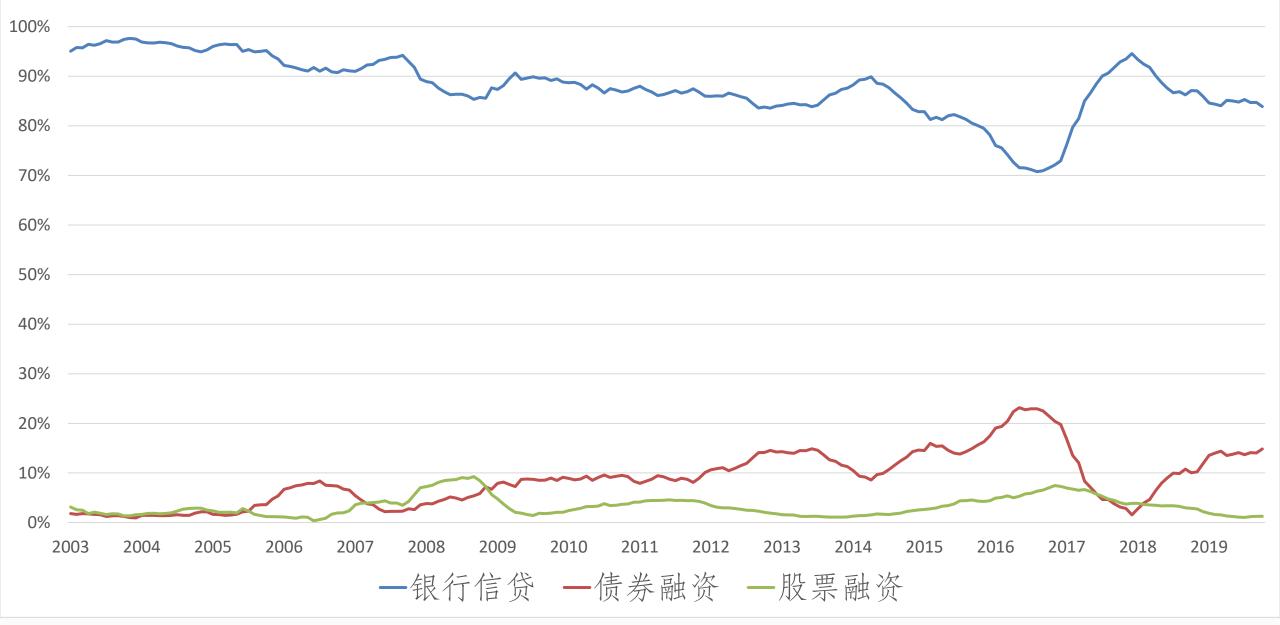
- 居民户: 房子和消费贷的风险 (第四讲)
- 地方政府: 地方债和地价的风险 (第三讲)

- 企业风险
- 银行风险

企业债务占GDP比重,2018



社会融资规模中各种融资方式占比



企业风险I: 资本 使用效率下降

地方政府融资平台的资产回报率

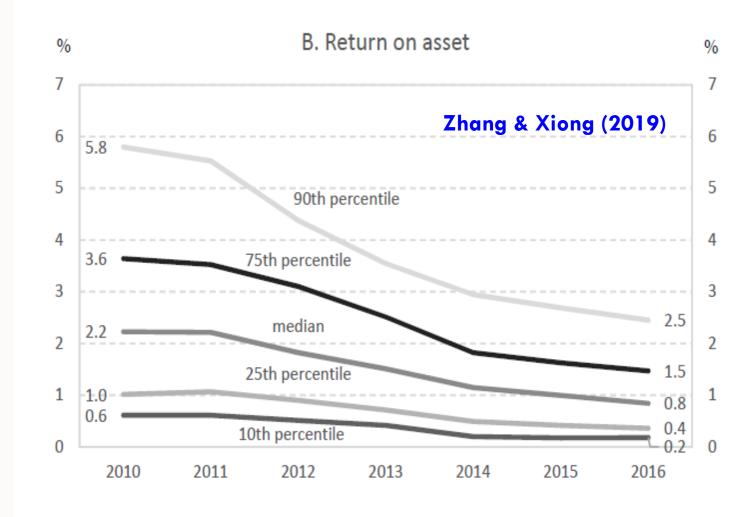


Figure 5 LGFV debt-to-asset ratio and return on asset

Source: Author's calculations, WIND. Based on a balanced panel of 1109 LGFVs.

数据来源:中国财政年鉴

企业风险Ⅱ: "国进民退"?

2008-2017

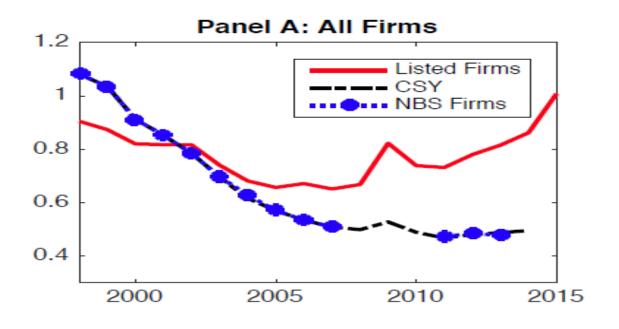
国企资产总额: 4.4倍 (1998-2007: 1.6倍)

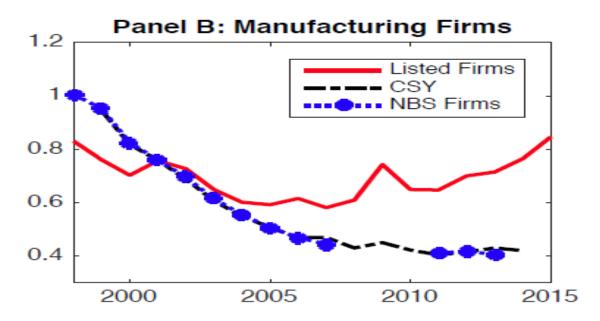
国企负债/GDP (含企业间负债): 78%-144%

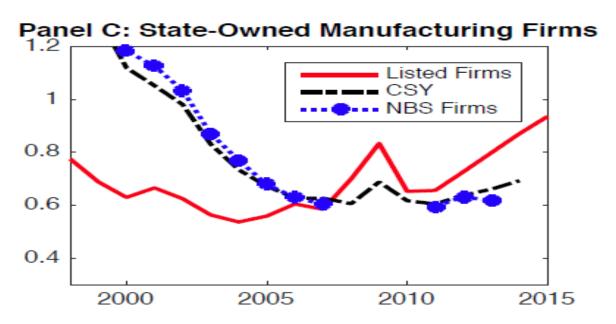
国企营收/GDP: 72% - 65%

国企利润/GDP: 4.2% - 3.9%

- 关于国企数据的说明: 财政部 vs. 国资委
- "僵尸企业"/破产重组







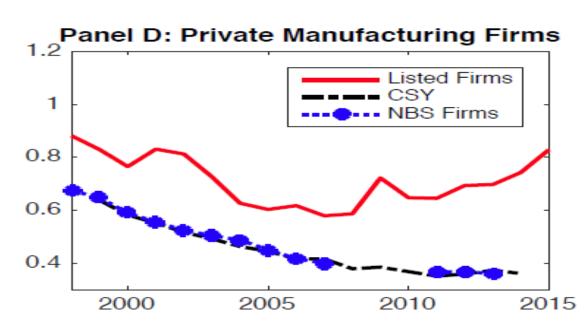


Figure 12: Dispersion in Average Product of Capital

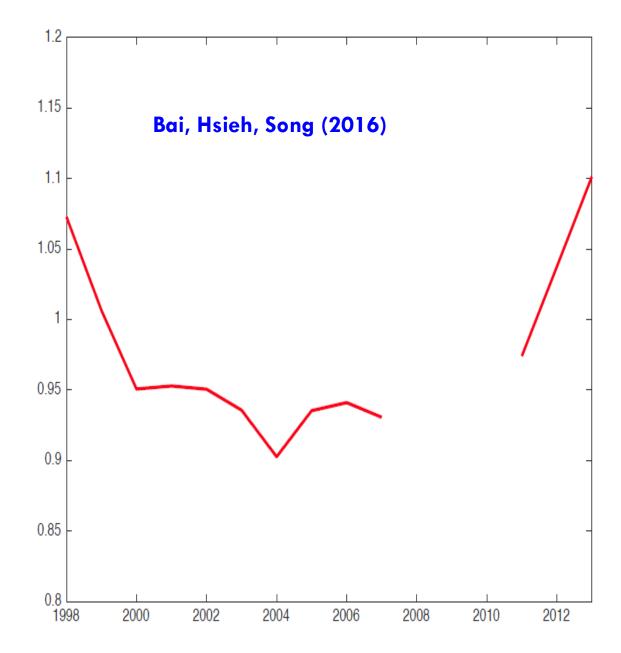
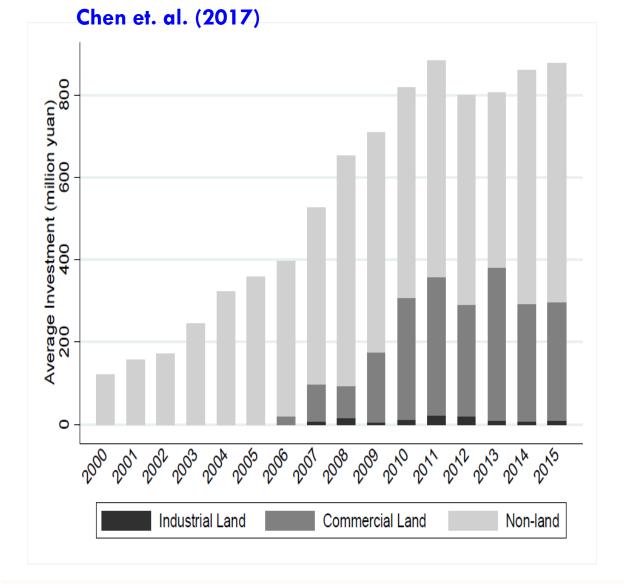


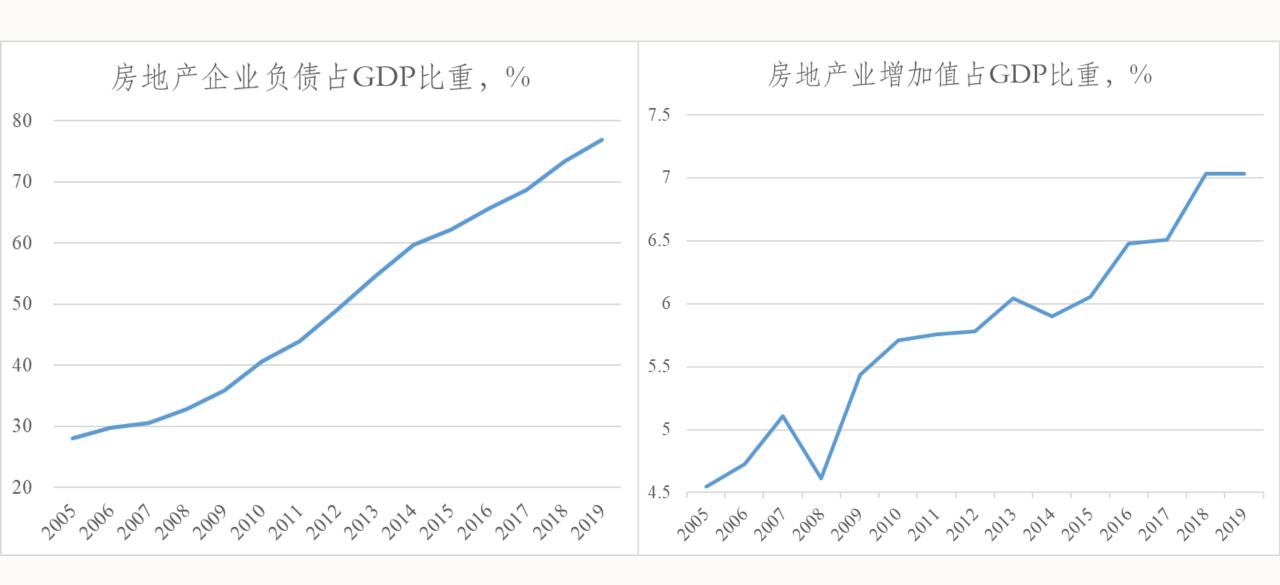
Figure 3. Firm Investment, 2000-2015

This figure depicts the average quantity of firm investment, divided into three components: non-land, commercial land, industrial land, for all publicly listed firms in our sample from 2000 to 2015.



企业风险III: 房地产企业

资料来源:统计年鉴

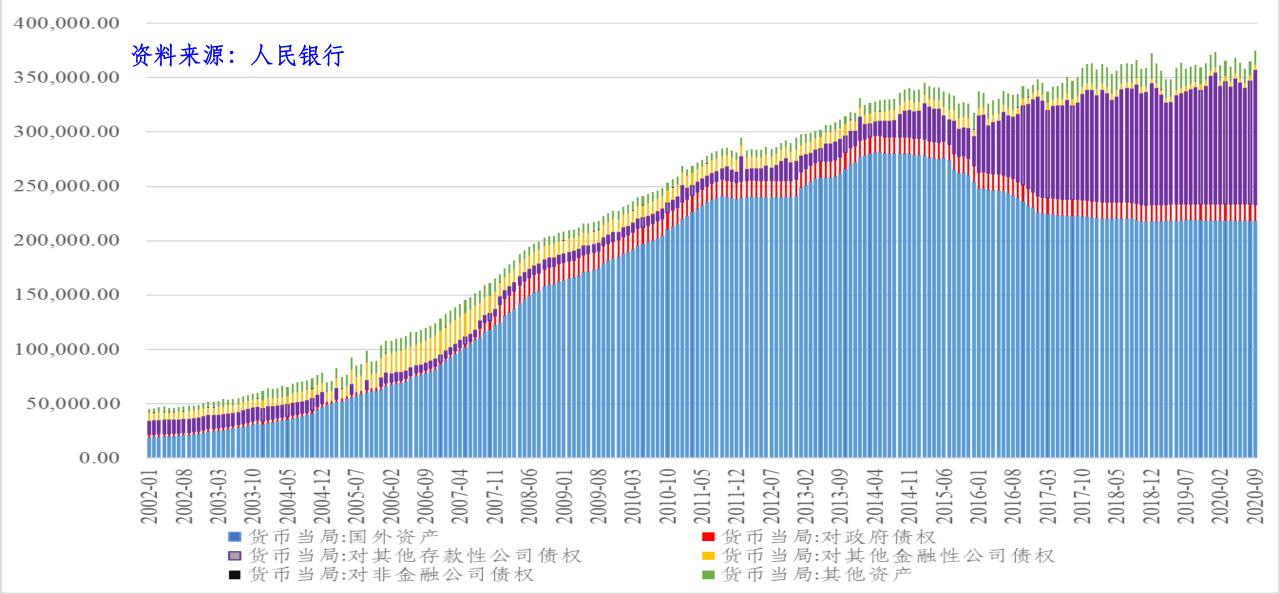


案例阅读: 房企降杠杆开始; 房企境外发债为何收紧

银行风险

中国,从"宽货币,紧信用"到"紧货币,宽信用"到再回来

人民银行总资产, 亿元



金融机构总资产比GDP

资料来源:人民银行

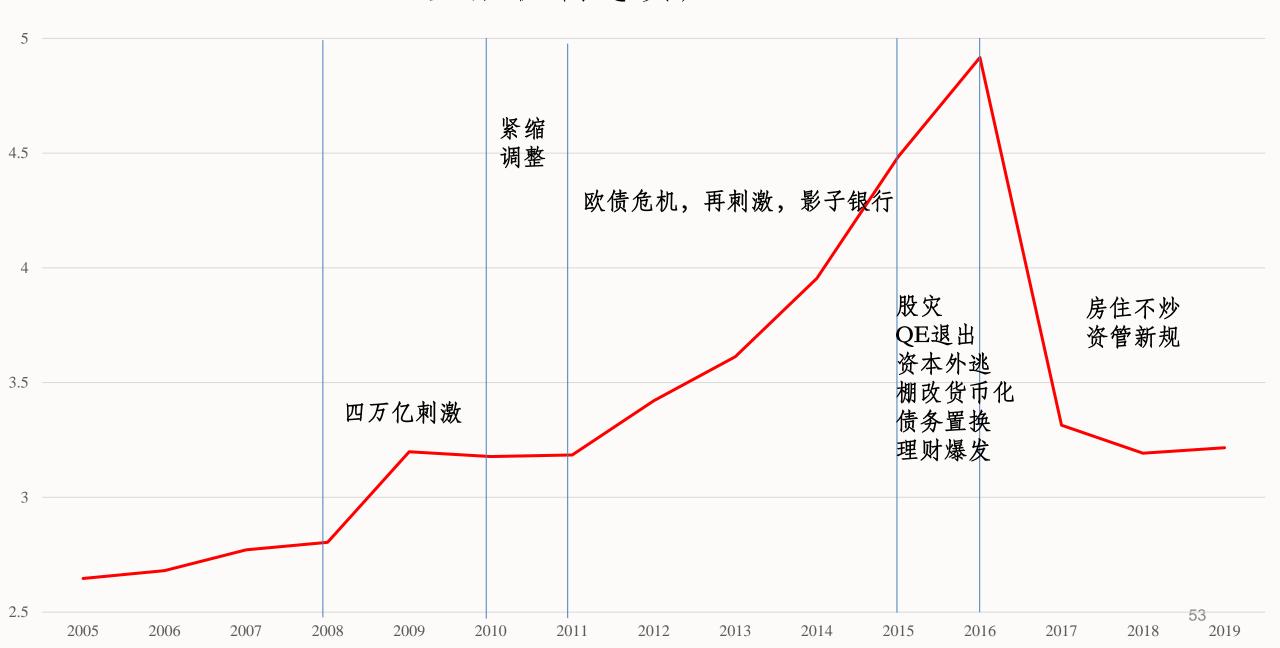
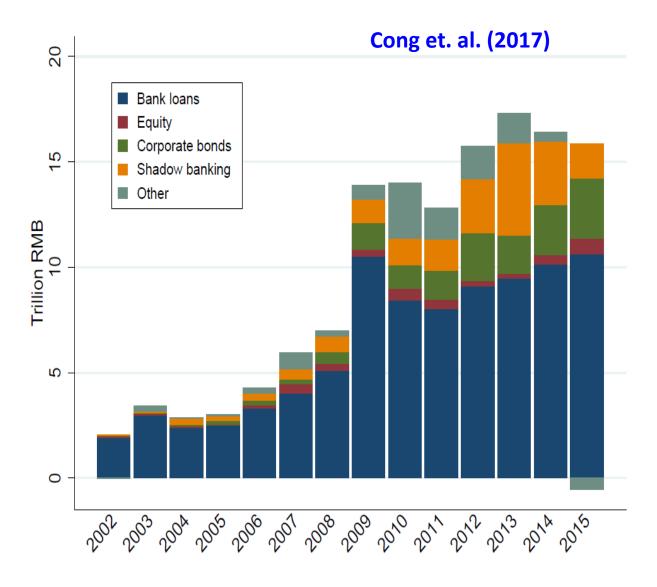
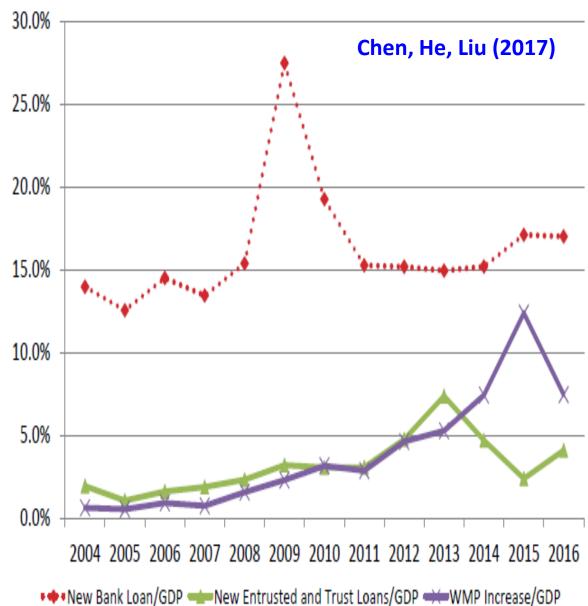


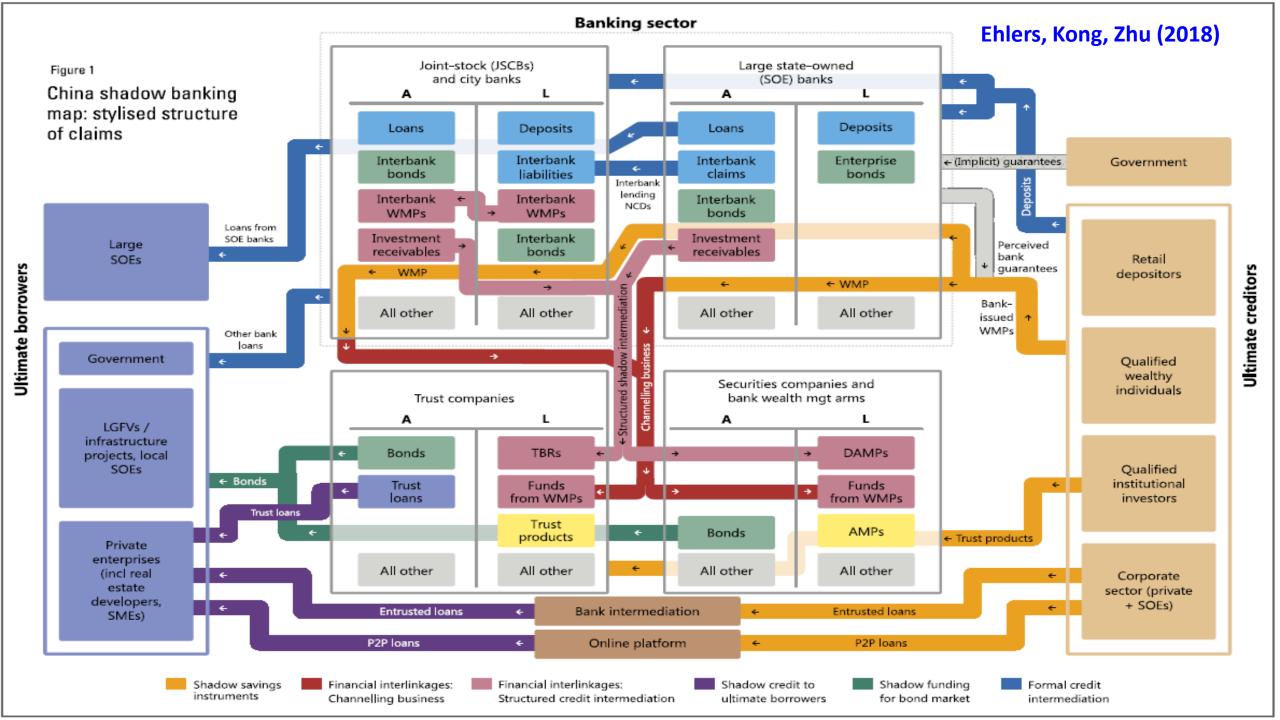
Figure 2: Aggregate Financing to the Real Economy



Notes: Source: Total Social Financing Dataset (TSF) of the People Bank of China. The category "shadow banking" includes loans by trust companies (trust loans) and entrusted firm-to-firm loans (entrusted loans). The category "other" includes bankers' acceptances and credit operations categorized under "other" in the TSF data.

Panel A: New Entrusted/Trust Loans and Increase in WMP

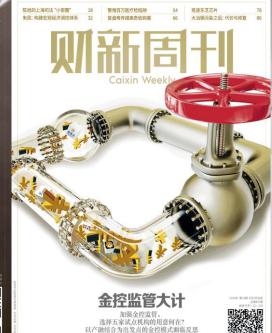








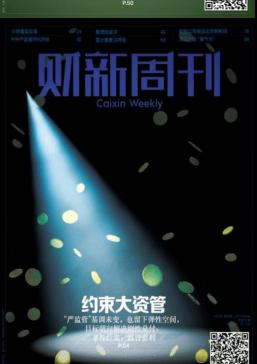




P.38



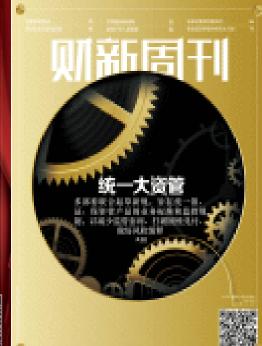








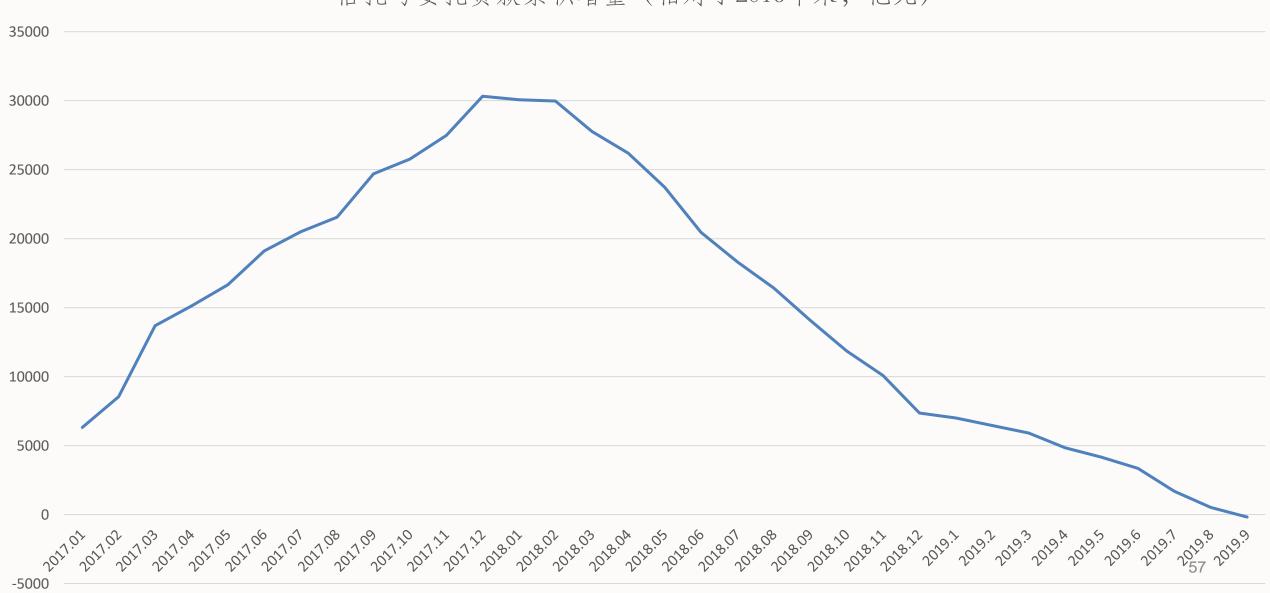




资管新规卡死影子银行

资料来源: Wind

信托与委托贷款累积增量(相对于2016年末,亿元)





政府担保与三重"预算软约束"

- 地方政府
- 国有企业
- 国有银行体系

价格机制和风险机制配置资源的效率降低

金融黄金十年谢幕

资料来源:统计年鉴



偿还已有债务&遏制新增债务

偿还已有债务: 四种降杠杆的痛苦方式

- 勒紧裤腰带,压缩支出,变卖资产
- "印钱"和通胀
- 债务违约和重组
- 财富从富人到穷人的再分配

案例阅读:地方启动去杠杆

"印钱"

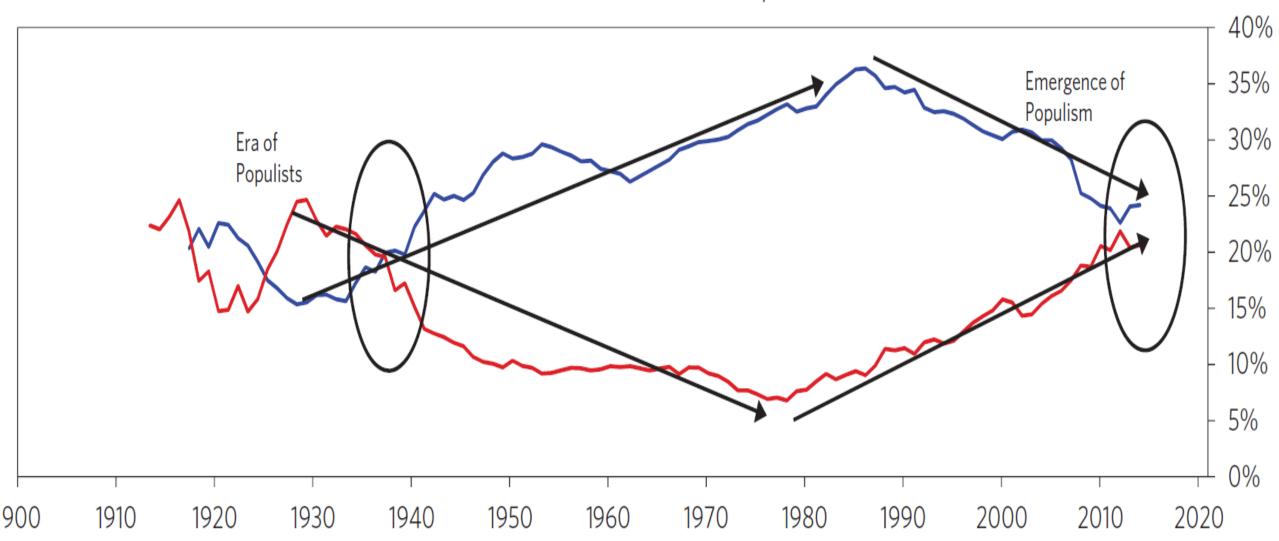
• 传统货币政策

• "量化宽松"与通胀

• 赤字货币化与"现代货币理论"的争议

US Net Wealth Shares

—— Bottom 90% —— Top 0.1%



"You know what I am? I'm a nationalist, O.K.? I'm a nationalist. Nationalist!
Use that word! Use that word!"



遏制新增债务

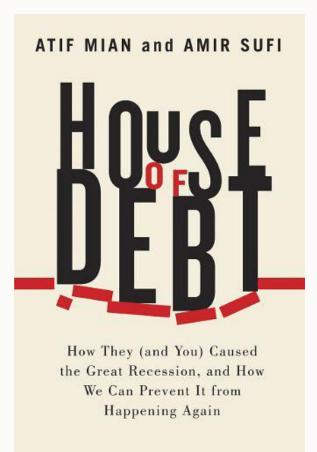
- "土地财政"和"土地金融"模式的反思
- · 供给侧结构性改革: 严控房价上涨、资管新规、限制土地融资、债务置换、反腐、推进国企混改.....

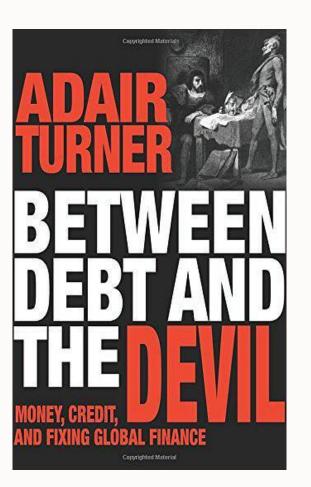
- 资本市场改革迟缓的根本原因
- 原则: 融资体系与投资体系(主体和风险)适应

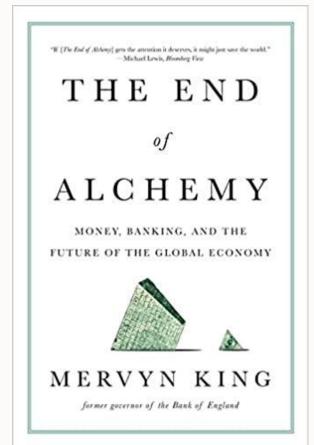
西方式金融危机 vs. 中国式效率损失?

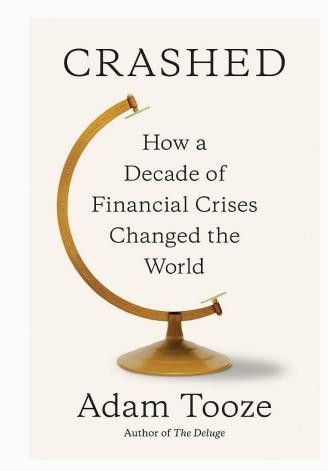
案例阅读: US Debt Crisis and Adjustment

拓展阅读

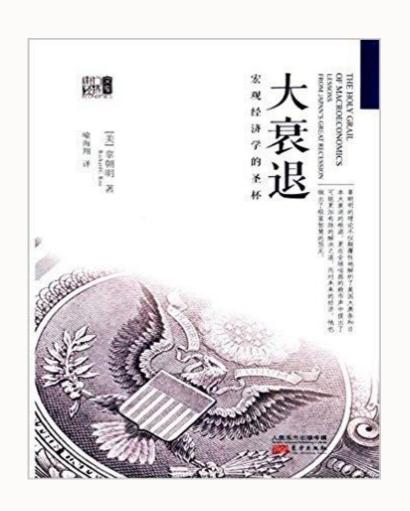


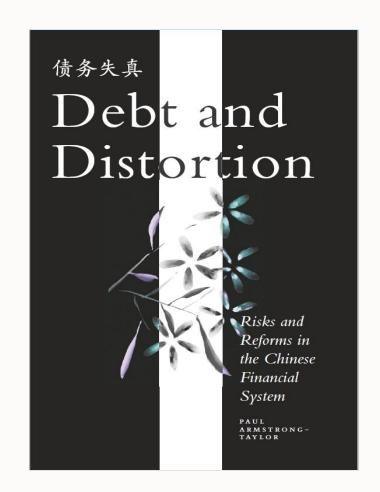


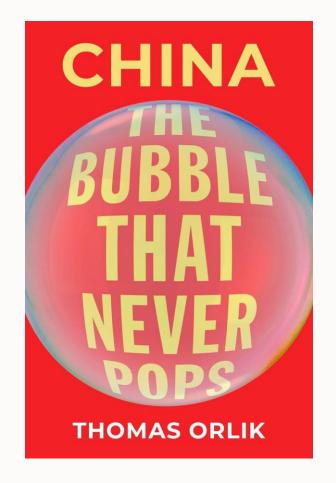




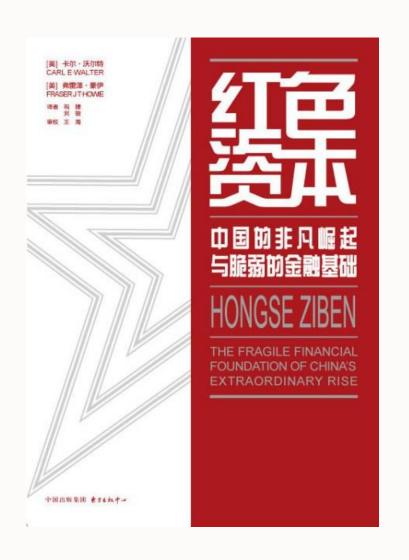
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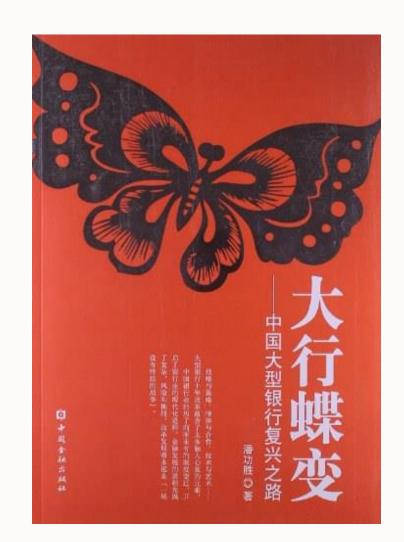


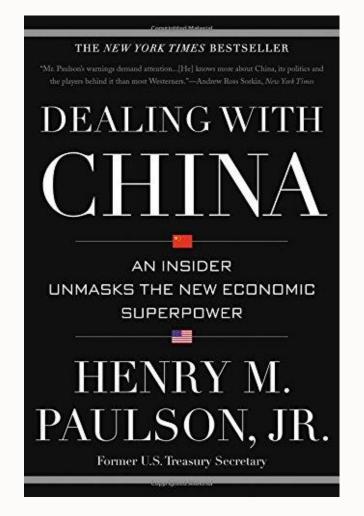




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