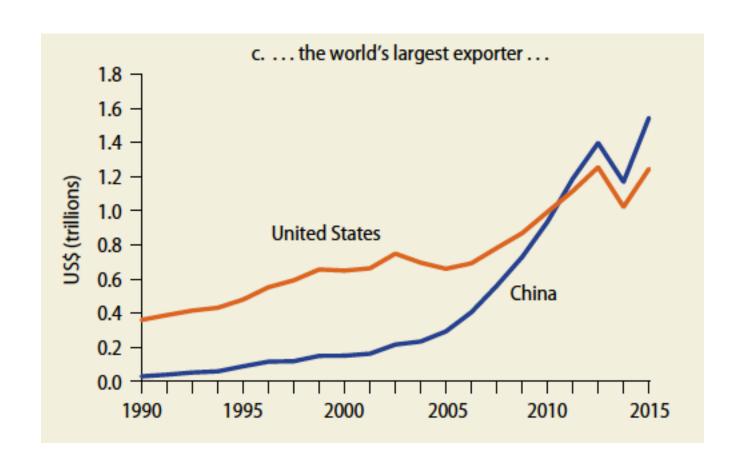
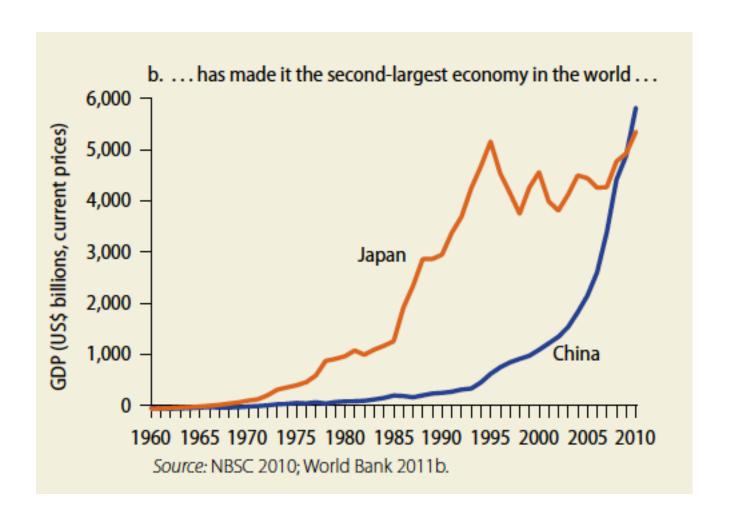
IMF 2013 Article IV Slides China 2030 Slides

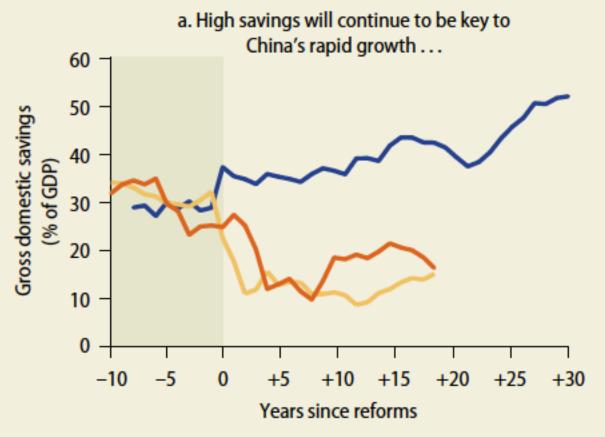
Economics 274
Winter 2014

Trade Data

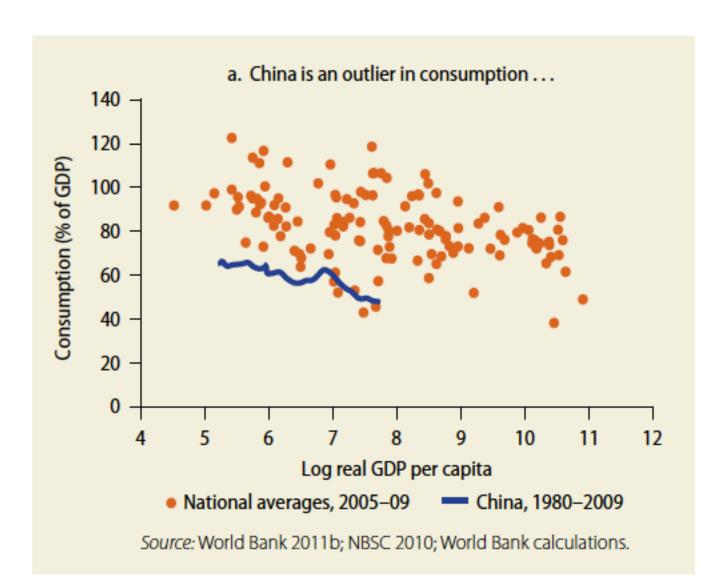
- not shown in class
 - growth as world trader
 - relative economic size
 - high domestic savings
 - low consumption
 - high investment

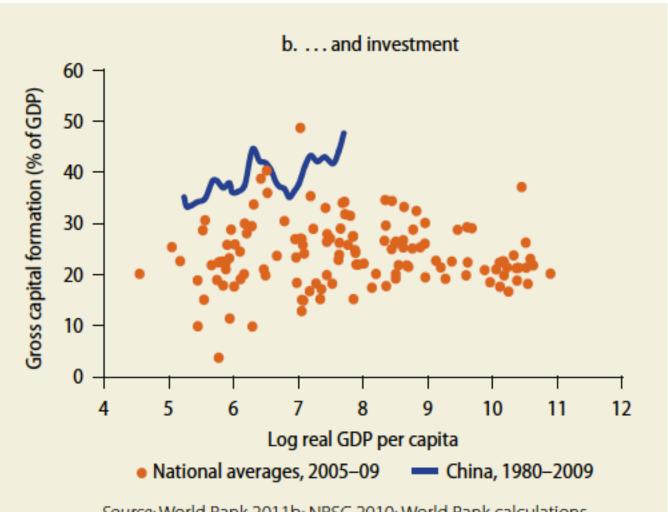






- China (year 0 = 1978)
- Former Soviet Union (year 0 = 1990)
- Eastern and Central Europe (developing) (year 0 = 1990)





Source: World Bank 2011b; NBSC 2010; World Bank calculations.

International Finance

- Not shown in class
 - p 370- intl trade finance from China 2030
 - developing countries large share today, were not significant 20 years ago
 - China a large market for developed country industrial exports
 - large bilateral surpluses and (Korea) deficits

FIGURE 5.2 Growing share of developing countries in global growth (five-year moving average)

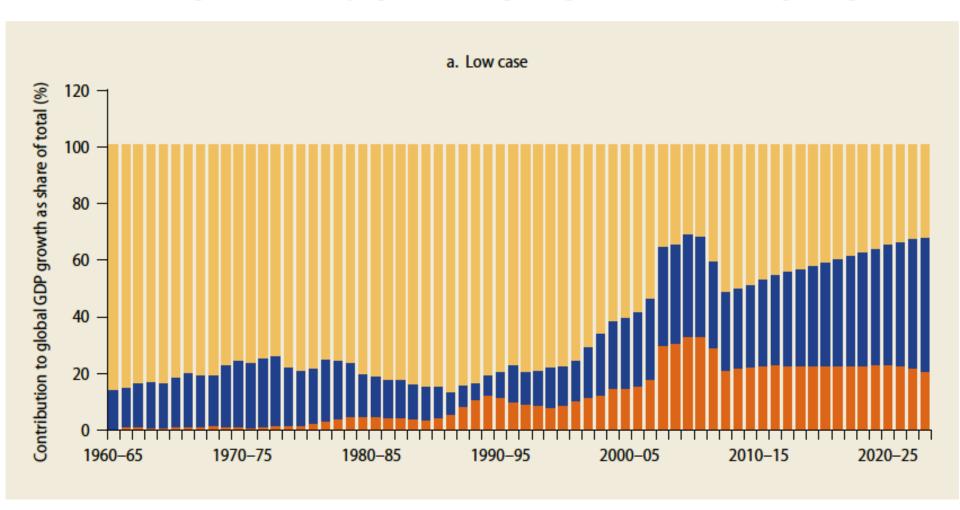


FIGURE 5.8 China's share in industrial imports of the world's 10 largest importers has increased

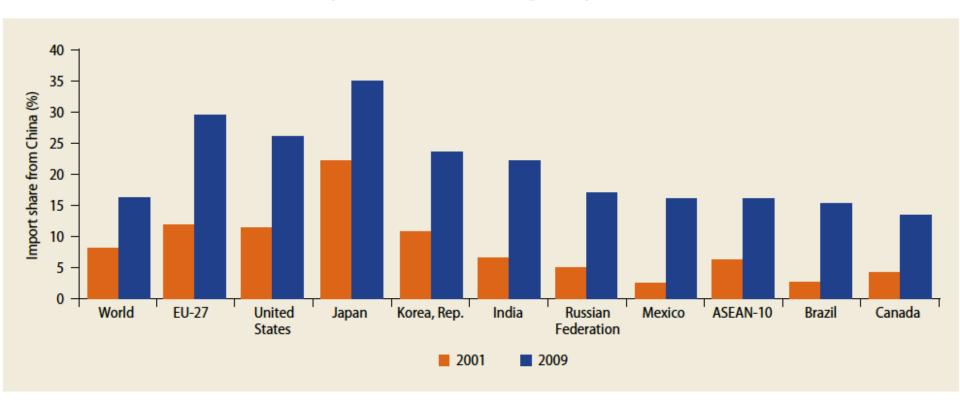
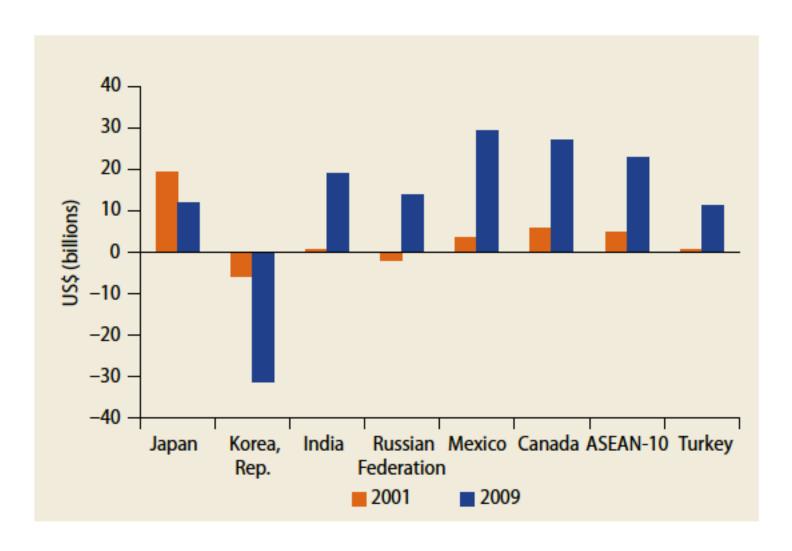


FIGURE 5.10b China has a large trade surplus in industrial goods with major trading partners

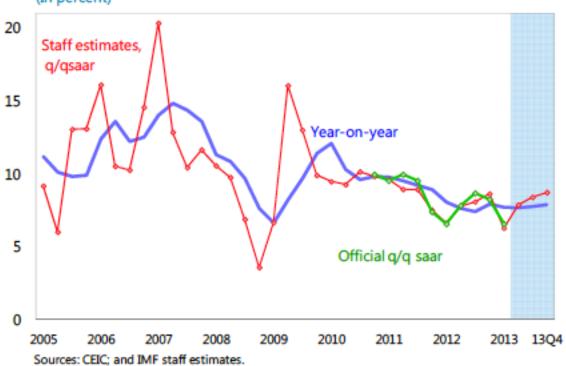


Macro Issues

- Source is 2013 IMF Article IV review of China
 - available annually for most countries
 - a good go-to for a quick overview of short-run issues
 - emphasis is short-run macro and intl finance
 - we thus need to keep in mind the long-term macro issues that we've emphasized this term, fertility and demographic dividends
- big downturn in 2009 with global crisis
 - but quick recovery: <u>WHY?</u>

China: Real GDP Growth

(In percent)

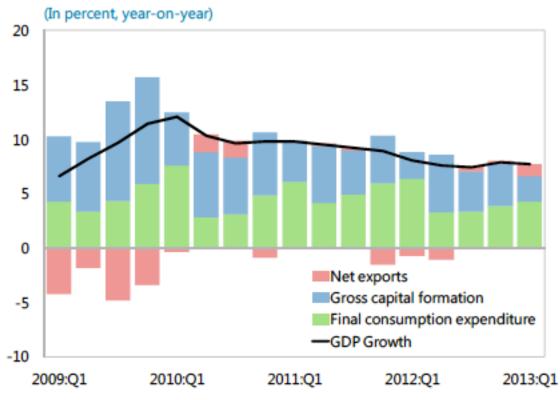


Links to rest of world

- Intl Capital controls and financial institutions are overwhelmingly domestic
 - so no financial spillover
- rather trade: exports collapsed
 - and not by a little: slowed growth by 5 percentage points, a huge hit [the US doesn't grow 5%....!]
- but GDP growth back over 10% before start of CY2010
 - while EU, US were mired deep in recession

Growth in the first quarter was sluggish, with a strong contribution from consumption and weak capital formation...

Contribution to GDP Growth



Answer?

- We'd use monetary policy
 - but financial system still "shallow"
 - business investment uses direct finance
 - (borrowing from friends, retained earnings)
 - not financial intermediaries [= banks]
 - -so monetary policy doesn't reach
 - can't make borrowing cheaper if businesses don't borrow from banks!!

How about fiscal policy?

- But we've seen the short reach of Beijing on issue after issue
- Meanwhile
 - Local governments have no revenue sources
 - Fiscal transfers big but ... not used here
- So how work?

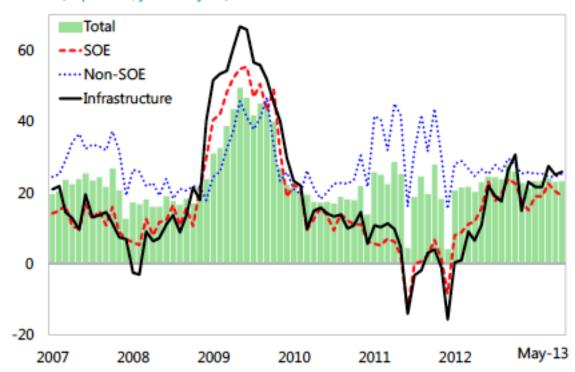
LGFVs

- Local government financial vehicles
 - investment funds tied to local government
 - in normal times land sales to finance concrete investments [pun intended]
- had access to financial institutions
 - so in 2008-9 could and did borrow
 - leading to the investment boom
 - and via the multiplier, overall macroeconomic growth: $Y\uparrow\uparrow$ [a lot]
- See data below

...while fixed asset investment (FAI), buoyed by infrastructure spending, has continued to grow at over 20 percent...

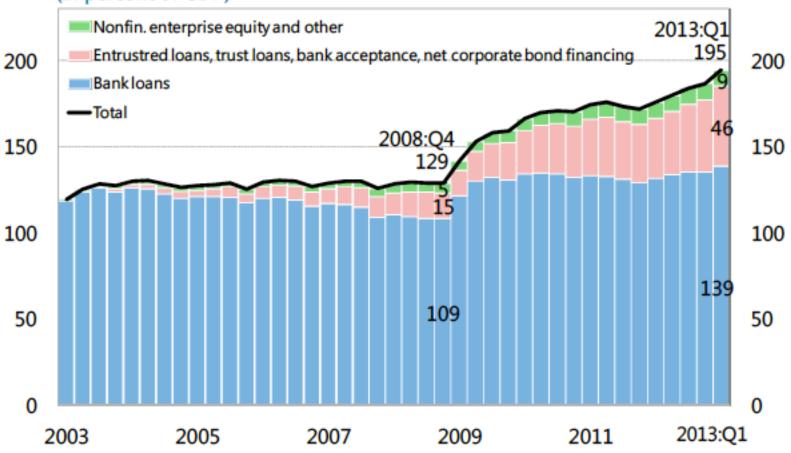
Real Fixed Asset Investment

(In percent, year-on-year)



China: Social Financing Stock

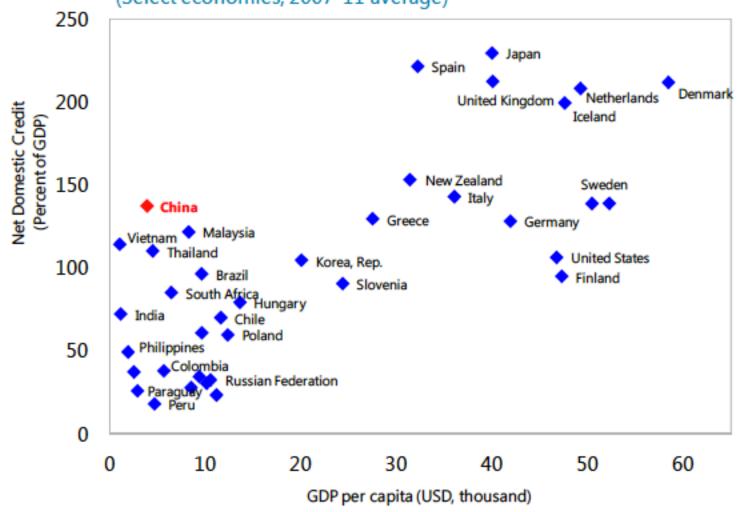
(In percent of GDP)1



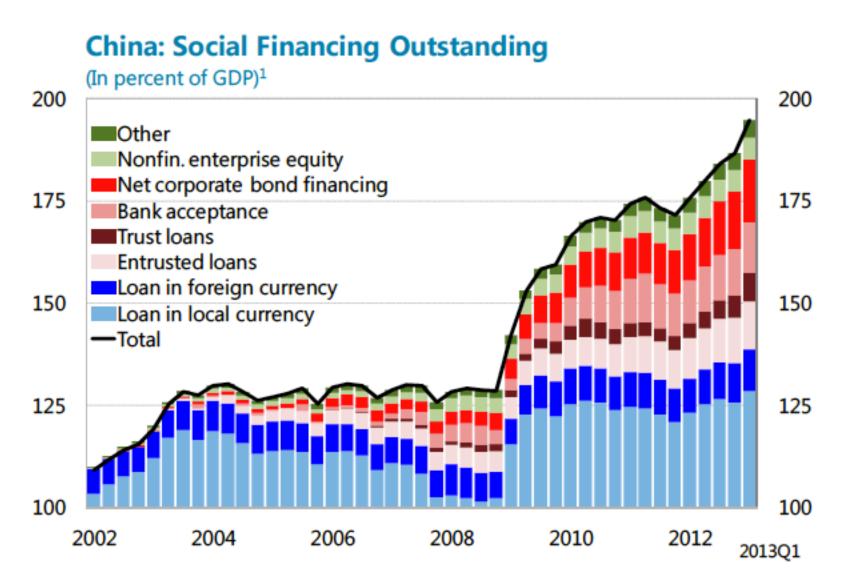
China's stock of credit is among the highest in the world at its level of income...

Net Domestic Credit and GDP per Capita

(Select economies, 2007-11 average)



..and is growing fast.

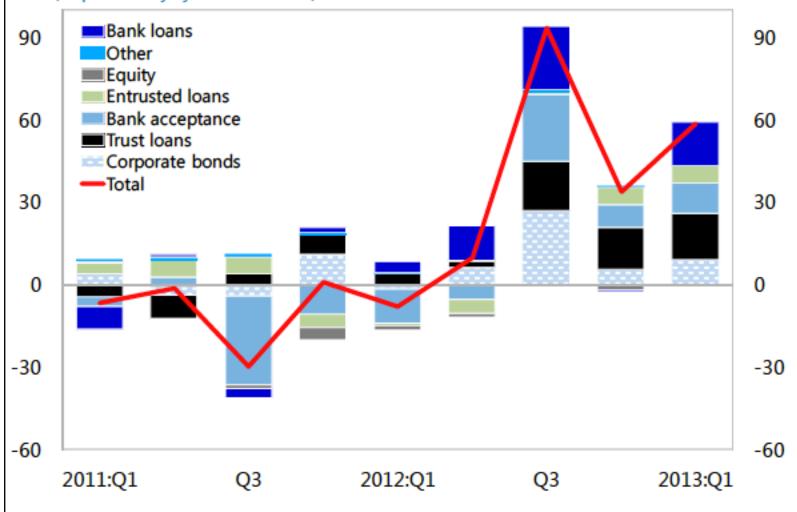


¹ In percent of 4Q rolling sum of quarterly GDP.

Nonbank intermediation has grown particularly rapidly, albeit from a small base...

Growth in Social Financing Flows

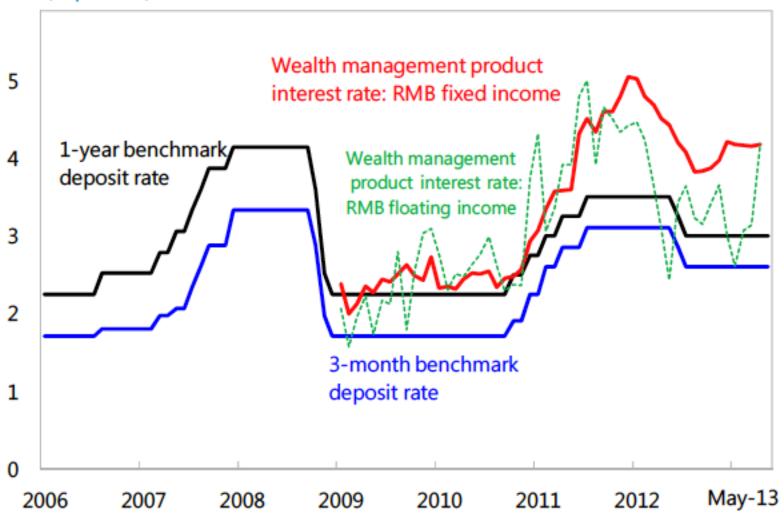
(In percent, yoy contribution)



...as alternative investment products offer more attractive yields, compared to traditional bank deposits.

Interest Rates

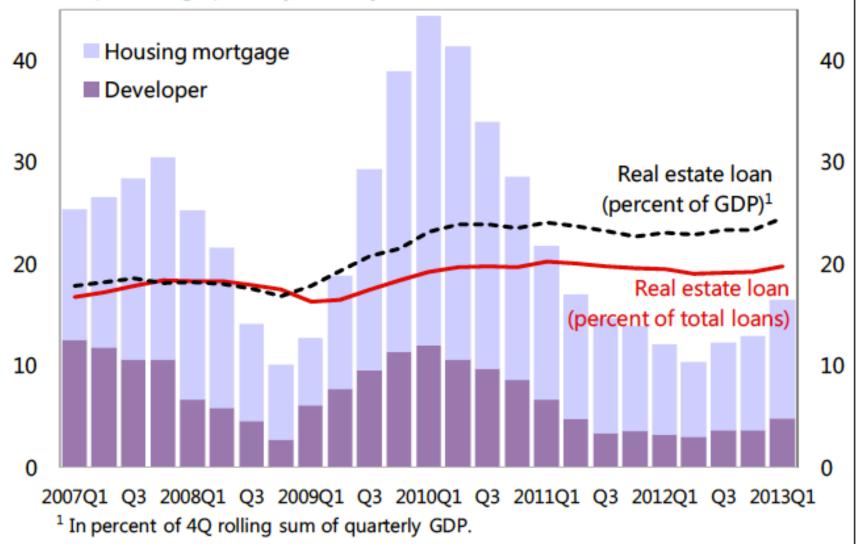
(In percent)



Lending to real estate is primarily for household mortgages and has slowed recently.

Contribution to Real Estate Loan Growth

(In percentage points, year-on-year)



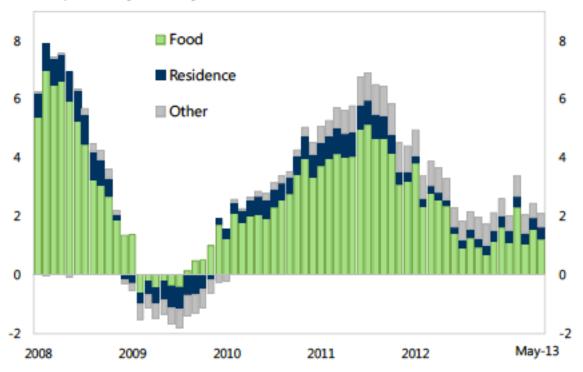
Other macro issues

- Inflation moderate, didn't undermine
- but tendency to be higher than in US
 - agriculture
 - and food matters more in a poor country
 - service sector prices
 - productivity growth slow
 - but wages reflect overall economy
 - so when wages rise, so do service prices
 - : Balassa-Baumol effect
- issue common across developing economies

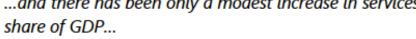
Inflation is moderate, while volatility has been driven primarily by agricultural supply shocks effecting food prices.

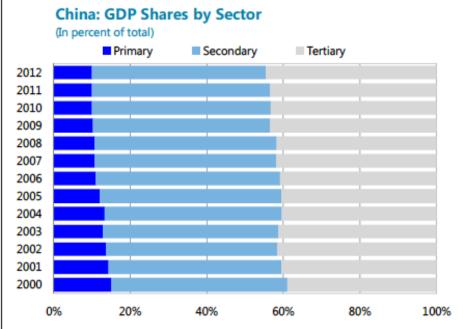
Contribution to Inflation

(In percent, year-on-year)



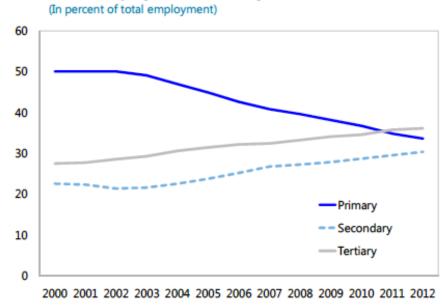
...and there has been only a modest increase in services





...although the tertiary share of employment has now inched up past the primary.

China: Employment Shares by Sector



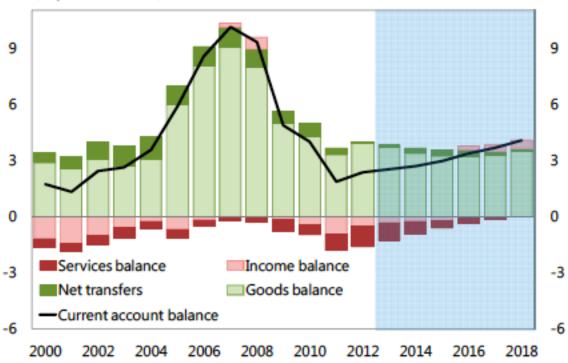
short-run data

- trade surplus inching up
 - helped by piecemeal recovery in US
- so is the household savings rate
 - remember (S-I) + (T-G) = (X-M)
- house prices are rising steeply
 - end of finance boom hasn't affected
 - a bubble?

The current account surplus edged-up last year and staff forecast a gradual rise over the medium term.

Current Account and Components

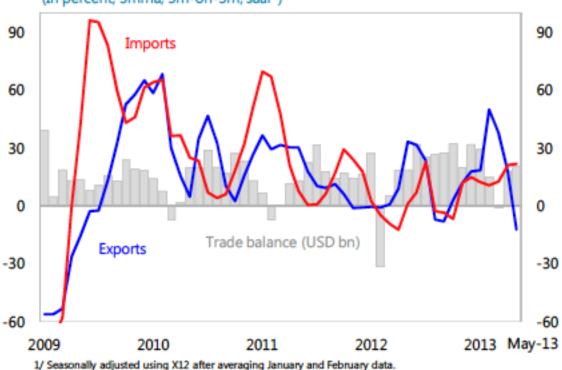
(In percent of GDP)



Exports had accelerated strongly, raising questions about whether this is capturing hidden capital inflows.

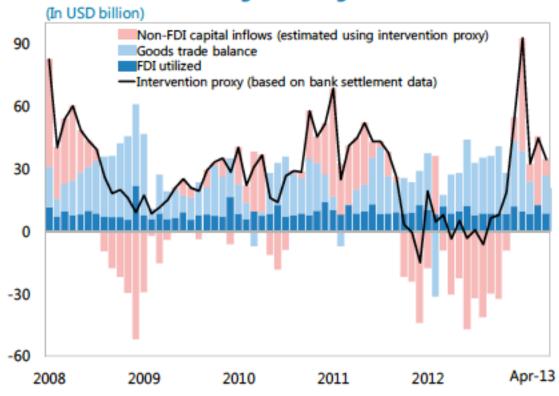
Trade Balance

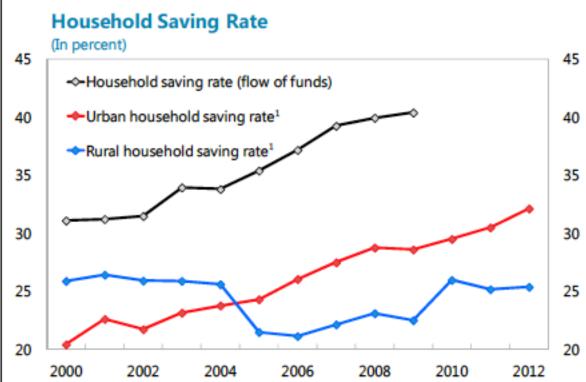
(In percent, 3mma, 3m-on-3m, saar1)



As non-FDI capital inflows have resumed recently, after registering net capital outflows last year...





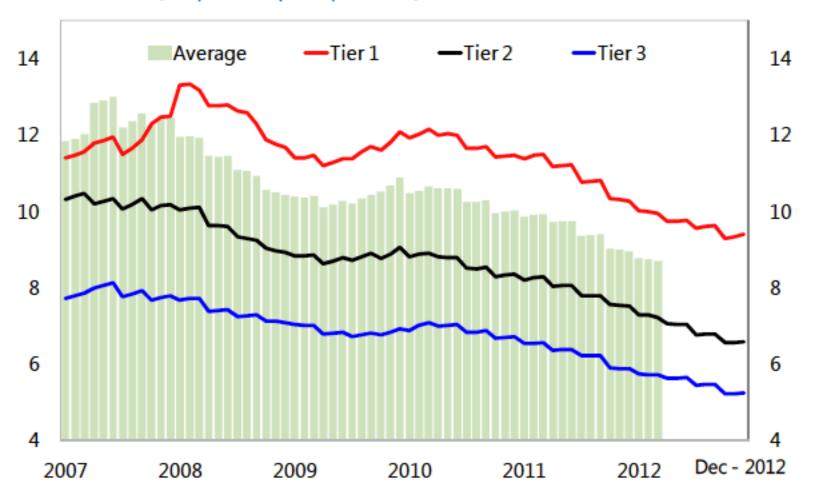


¹ Rural household saving rate = (net income - living expenditure)/net income, percent; urban household saving rate = (disposable income-consumption)/disposable income, percent; household survey.



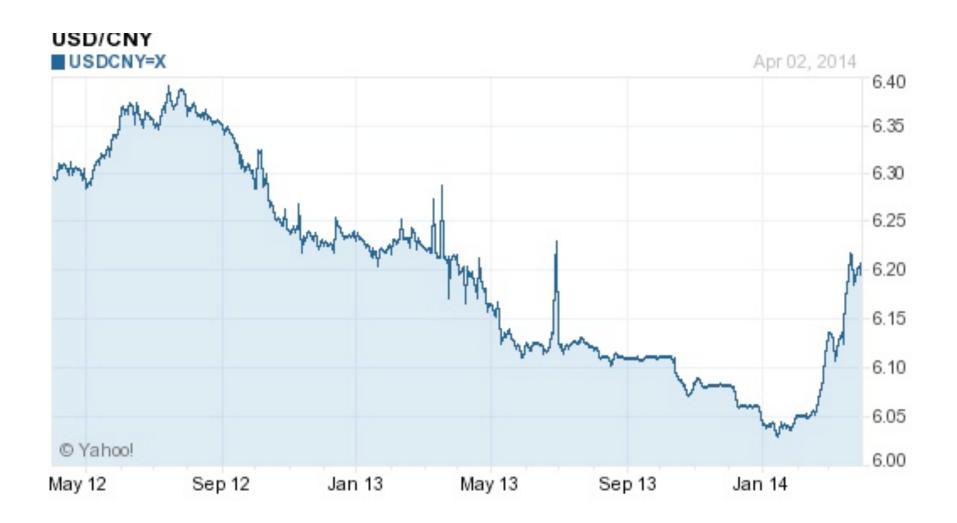
Residential Property Price to Household Disposable

Income (SA, per 90 Sq. m. apartment)

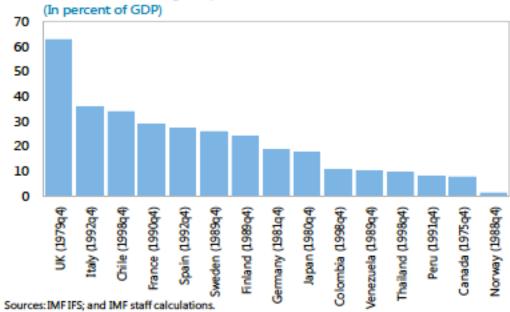


RMB appreciating lately

- .15/6.0 so about 2%
- in background are capital outflows under financial liberalization



Increase in Gross International Assets During Five Years Following Capital Account Liberalization¹



¹Data for the United Kingdom available only for year after capital account liberalization.

Predicted Change in Porfolio Investment

(Percent of GDP)

	Assets	Liabilities	Net Assets
Ohnsorge (2013)	15.4–24.9	1.7-9.9	10.7-18.1
He and others (2012)	21	16	5
Sedik and Sun (2011) ¹	3.25	2	1.25

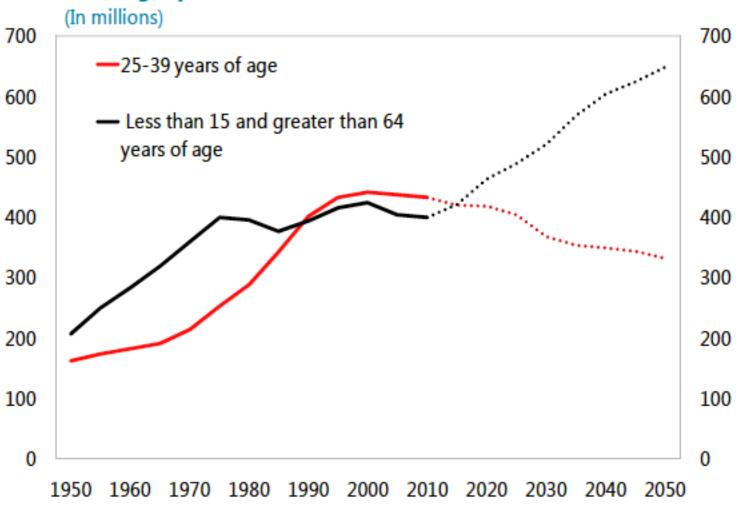
Sources: Bayoumi and Ohnsorge (forthcoming), "Capital Account Liberalization in China" IMF Working Paper; He, Cheung, and Zhang, and Wu (2012), "How Would Capital Account Liberalization Affect China's Capital Flows and the Renminbi Real Exchange Rate?" HKIMR Working Paper No. 09/2012; Sedik and Sun (2012), "Effects of Capital Flow Liberalization—What is the Evidence from Recent Experiences of Emerging Market Economies?" IMF Working Paper No. 12/275.

¹Estimate applies to the aggregate of FDI, portfolio, and other investment flows.

LR issues

- As noted, China currently benefits from demographic dividends
 - but will then face a rapidly aging population
- fiscal system reforms needed
 - land sales large, unsustainable as remaining land less desirable with urban sprawl
 - but debt large and not transparent
- how clean up? reflects antirecession policies
 - inevitable Beijing must buy a lot of it

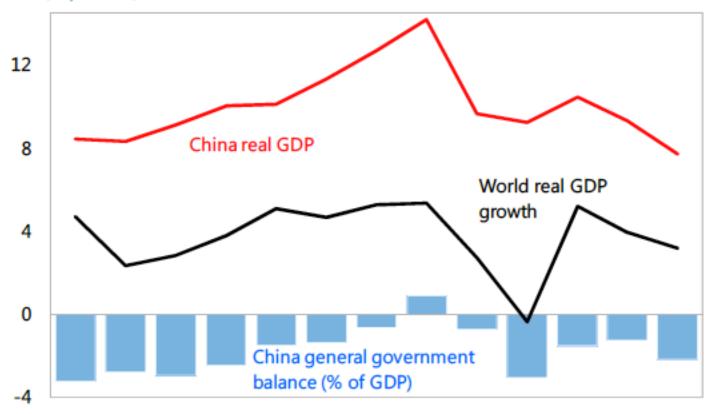
Demographic Pressures



zhang 1

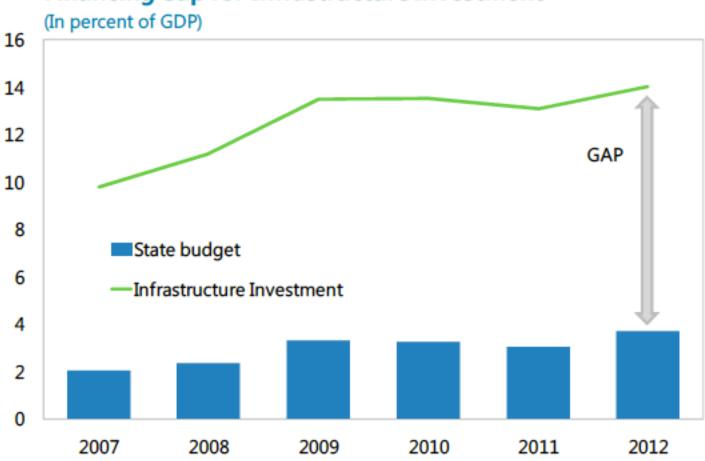
Real GDP Growth and General Government Balance

(In percent)

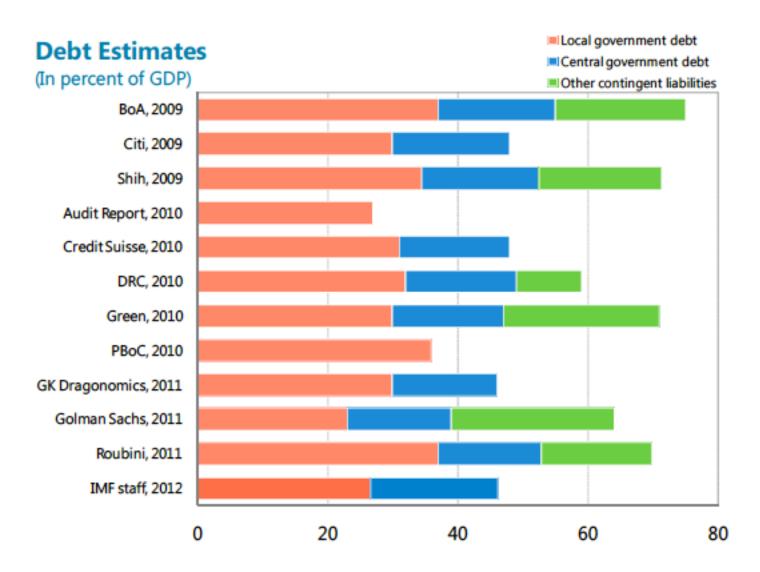


2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 Sources: IMF, World Economic Outlook; and IMF staff estimates.

Financing Gap for Infrastructure Investment

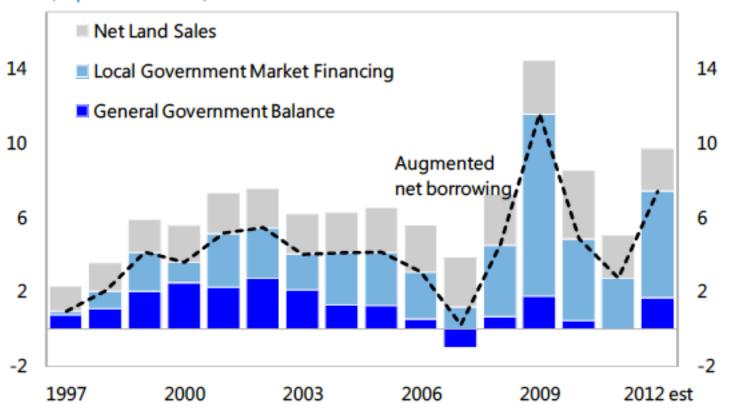


Source: CEIC; and IMF staff estimates.



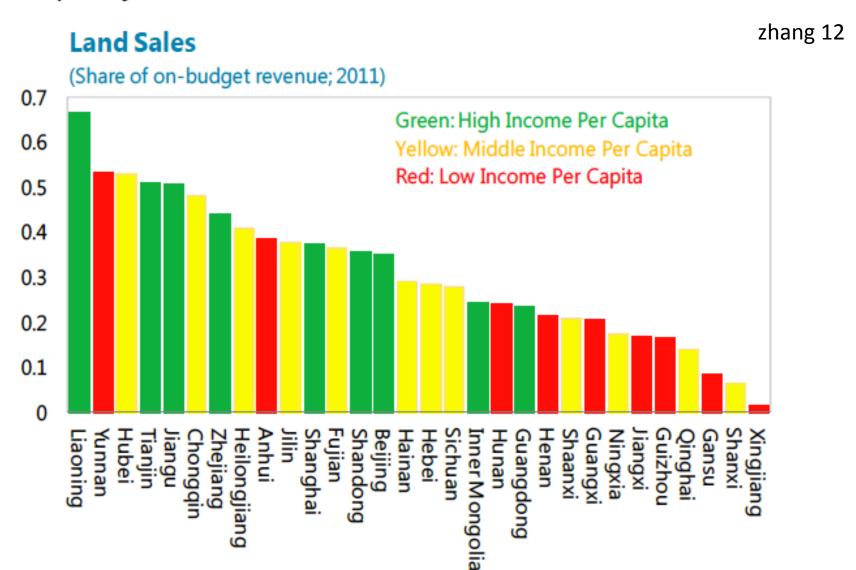
Augmented Net Borrowing and Fiscal Deficit

(In percent of GDP)



Sources: CEIC, Chinabond, EUROSTAT, China Citic Press, China Trustee Association, NAO, and the Ministry of Finance; and IMF staff estimates.

Land sales have been relatively more important for higher income provinces, which may have exacerbated regional inequality.

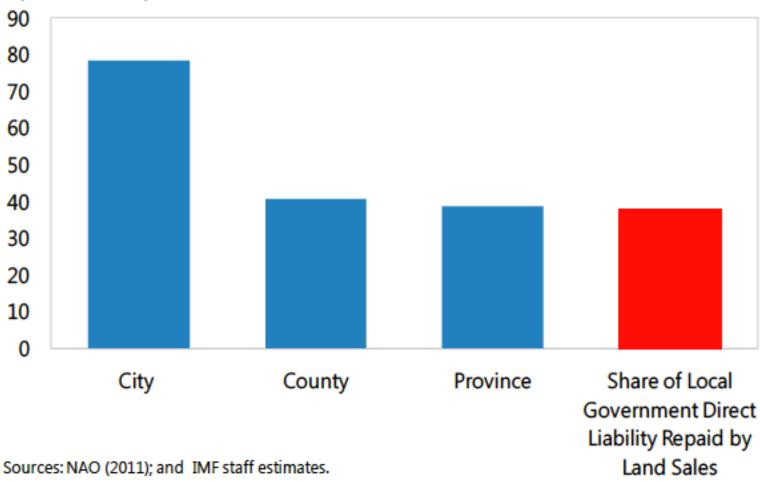


Sources: Soufun; CEIC; and IMF staff estimates.

...and land sales are an important source of revenue for servicing debt for many local governments.

Counties and Provinces Promising to Rapay Local Government Liability by Land Sales

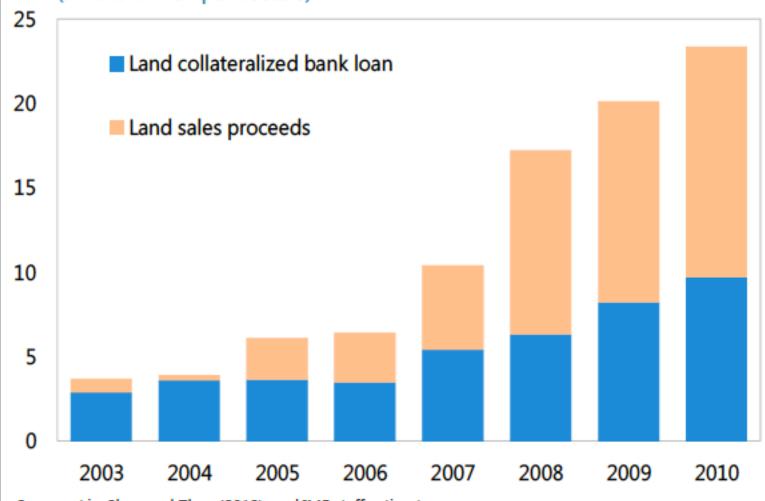
(Share ofcities)



Land values have risen considerably over time...

Land Value

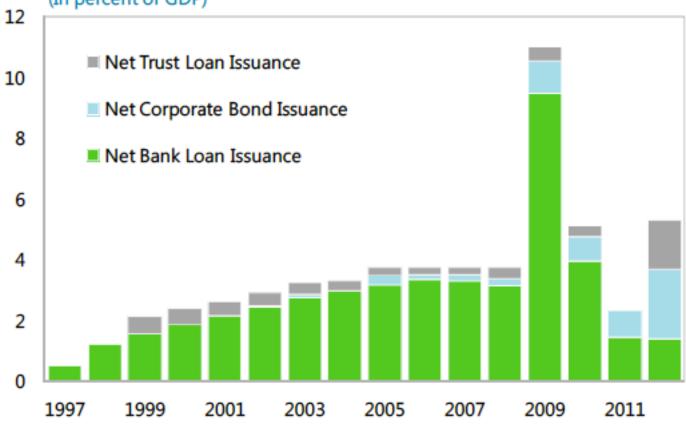
(In RMB million per hectare)



Sources: Liu, Shao and Zhou (2012); and IMF staff estimates.

Local Government Market Financing

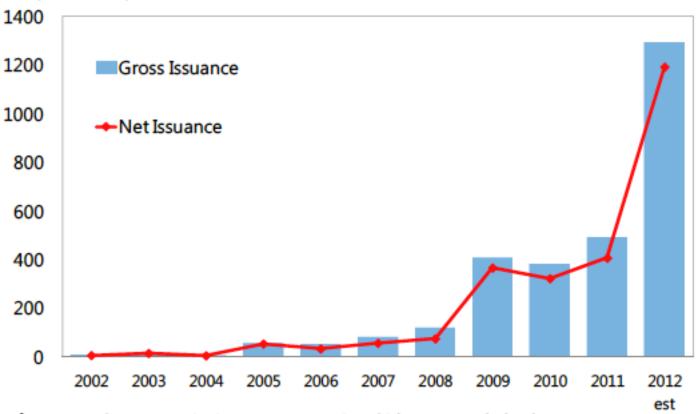
(In percent of GDP)



Sources: CEIC, Chinabond, EUROSTAT, China Citic Press, China Trustee Association, NAO, and the Ministry of Finance; and

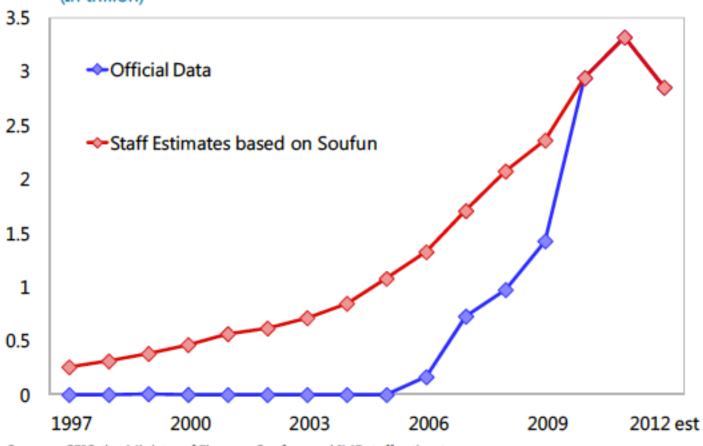
zhang 14

Gross Issuance and Amortization of Corporate Bond by LGFVs¹ (In RMB bn)



¹LGFVs are urban construction investment companies, which were set up by local governments to finance their infrastructure and public entities projects. Source: Wind; and MF staff estimates.

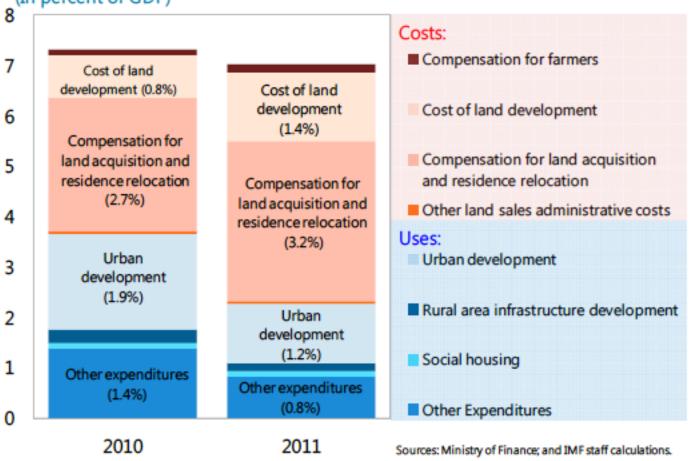
Official and Staff Estimates of Land Sales Revenue (In trillion)



Sources: CEIC; the Ministry of Finance; Soufun; and IMF staff estimates.

Decomposition of Gross Land Sales Proceeds: Costs and Uses

(In percent of GDP)

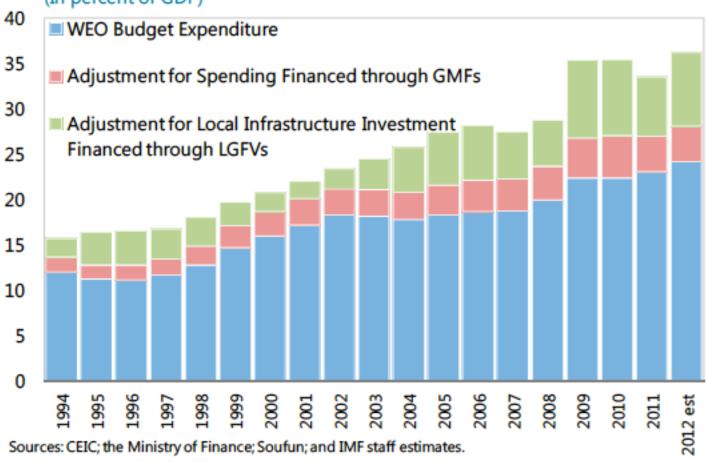


So how measure fiscal position?

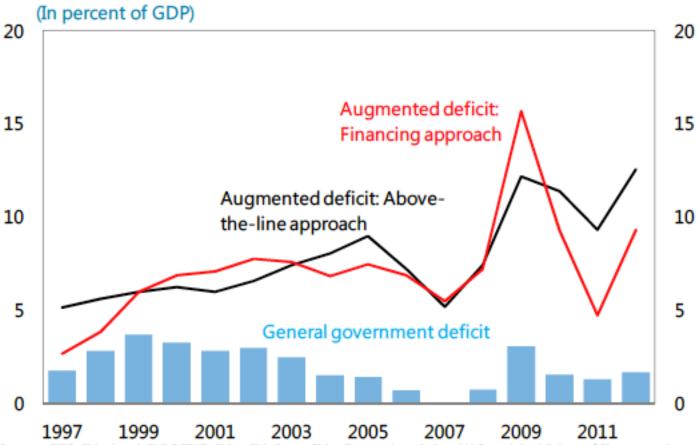
- Well, here are a few attempts
 - 30% level is hardly a burden in a rapidly growing economy
 - most LGFV debt not short-term
 - but only about 3 years' breathing space
- meanwhile in LR need to
 - increase revenue to cover aging of Mao's children
 - construct tax system to fund local government
 - deepen financial markets

Augmented Expenditure

(In percent of GDP)



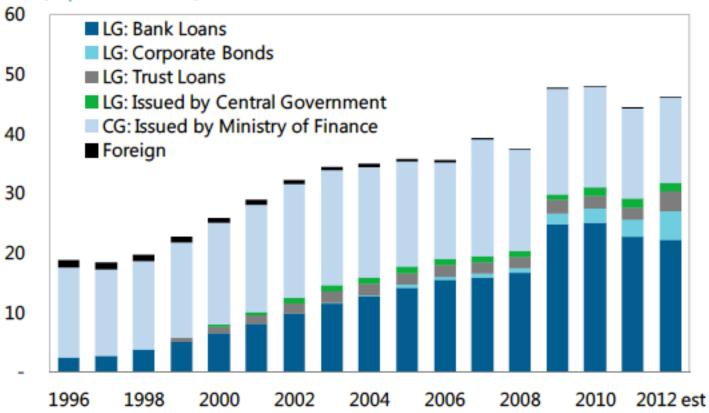
Augmented Fiscal Deficit



Sources: CEIC; Chinabond; EUROSTAT; China Citic Press; China Trustee Association; NAO; and the Ministry of Finance; and IMF staff estimates.

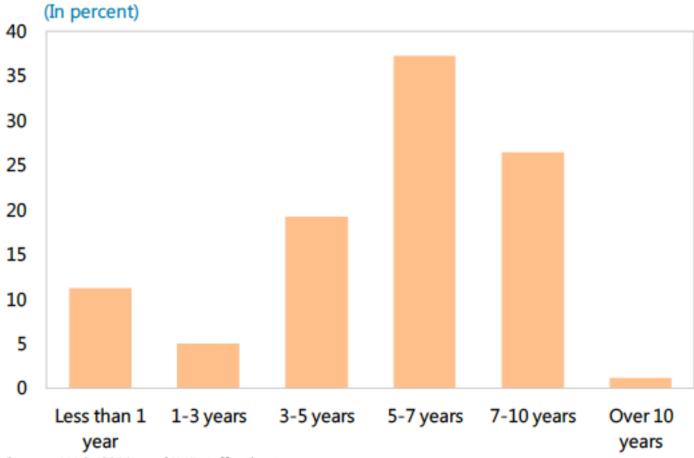
Augmented Public Debt Level

(In percent of GDP)



Sources: CEIC, Chinabond, EUROSTAT, China Citic Press, China Trustee Association, NAO, and the Ministry of Finance; and IMF staff estimates.

Maturity Structure of Corporate Bonds Issued to LGFVs



Source: NAO (2011); and IMF staff estimates.

Table 2. Profitability of LGVs by Levels of Government

Level of government	Operating Profit/Total Profit (A)	Government Subsidy/total Profit (B)	Share of LGFVs with A>B
Township	-2.57	100.17	21.15
City	-0.77	97.33	14.89
Capital city	3.76	84.9	30.56
Provinces	66.92	21.29	60
Municipalities	24.14	47.11	42.86
Total	4.12	89.19	22.31

Source: Ma (2012).

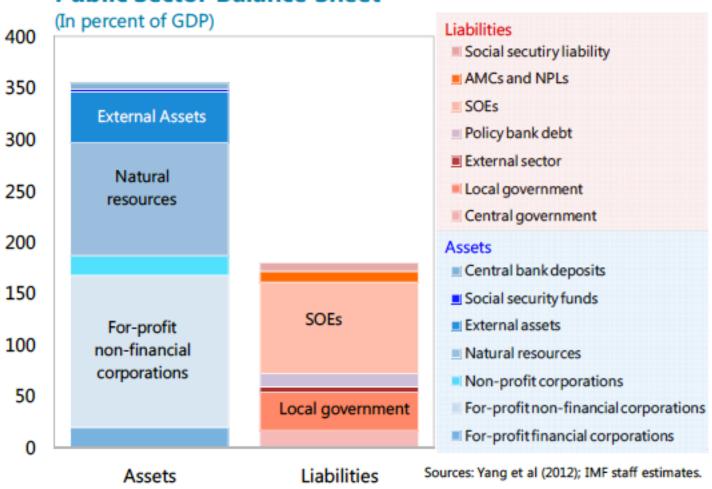
Table 3. Commercial Banks' Holding of LGFV Loans

	LGFV Loans (CYN billion)	LGFV/Total Loans (In percent)	NPL (In percent)
China Development Bank	5,500	66.7	0.25
Industrial Commercial Bank of China	931	8.7	1.09
Agriculture Bank of China	530.1	10.23	0.17
Bank of China	531.5	8.55	1.1
China Construction Bank	580	9.44	0.19
Bank of Communications	308.3	12.67	0
China Minsheng Banking Group	172.1	15.06	
Shenzhen Development Bank	66	14.72	0.57
China Everbright Bank	94.9	11.5	0
Shanghai Pudong Development Bank	105	8.84	
China Citic Bank	170		
China Merchants Bank	124.6	8.6	

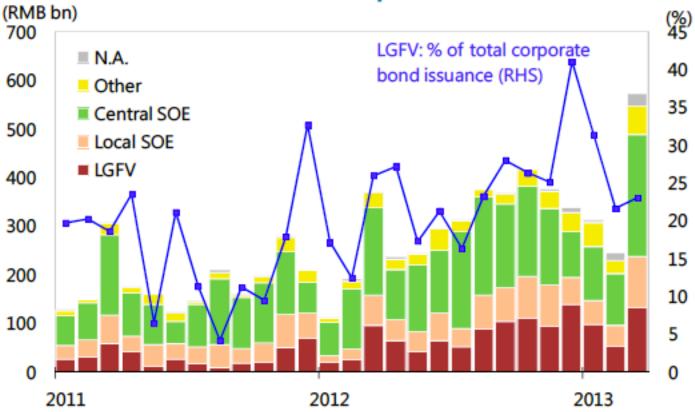
Source: Ma (2012).

Note: Amount by the second quarter of 2011.

Public Sector Balance Sheet



China: LGFV and Other Corporate Bond Issuance¹



1/ Includes bonds, medium-term notes, short-term commercial paper, and convertible bonds issued by enterprises and listed companies.

Sources: Wind; and IMF staff calculations.