

The Chinese Property Market:

The Latest Developments and Outlook

Li-Gang Liu BBVA 7 May 2009 at HKGCC



Major Findings

- China's residential property market has a bright long-term investment potential, supported by fast income growth, rapid urbanization and a high depreciation of the housing stocks.
- However, near-term adjustments are unavoidable given the sharp economic downturn and the current oversupply in the high-end residential housing. Downward adjustments in prices of up to 20% in some first tier cities are possible in the near term.
- However, we view the probability that China's property market will experience a hard landing as very low. This is because China's urban demand for housing remains resilient given its high savings ratio, good growth prospects, and proactive government policies.
- We believe it would be important to consider additional policy measures to support the market.

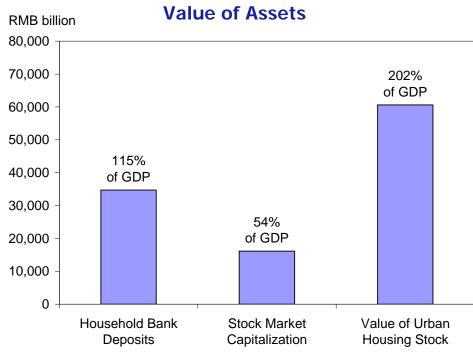


Part 1:

Latest Developments and Some Characteristics



Housing stock in households' portfolio



Sources: CEIC and BBVA estimates.

Real estate asset has become an important asset class for portfolio allocation of Chinese residents. We estimate that the nationwide urban real estate assets are at around RMB 60 trillion, already exceeding either the size of China's household banking deposits or the stock markets. Therefore, the health of the housing sector has an important impact on the real economic activity.



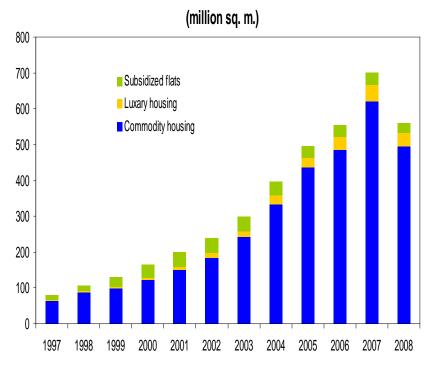
Housing area completed and sold

Subsidized flats Luxary housing Commodity housing

Housing areas completed

(million sq. m.)

Sources: CEIC and BBVA estimates.



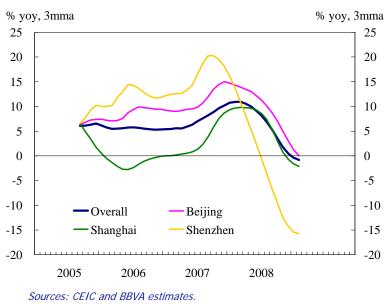
Transaction volumes

Supply and demand are roughly met until 2007. However, the transaction volumes fell sharply in 2008, leading to large unsold housing units, especially in the segment of commodity housing amounting to 206 million sq m.

Sources: CEIC and BBVA estimates.

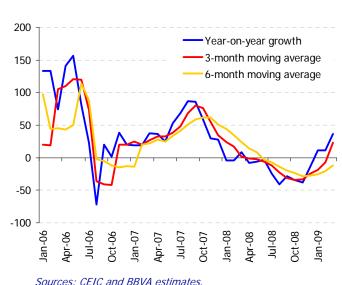
BBVA

Property prices fell, while transaction volumes rebounded



Property prices

Property transactions



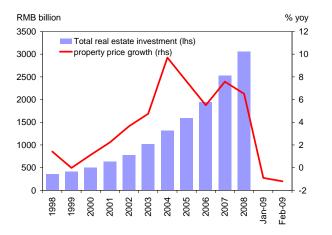
Nationwide

China's real estate market started to cool in the middle of 2008. From December 2008 onwards, the nationwide housing prices have started to fall for the first time in a decade. Shenzhen has seen its monthly housing prices drop by over 15% in recent months. As long as housing prices are flexible enough, demand is likely to adjust accordingly.

BBVA

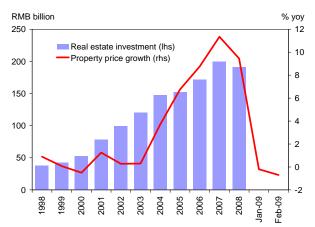
Property prices nationwide vs. Beijing and Shanghai

Nationwide



- Growth in national property prices peaked in 2004 and has since moderated.
- Growth in Beijing's property prices peaked in 2007 while that in Shanghai's peaked in 2003.

Beijing



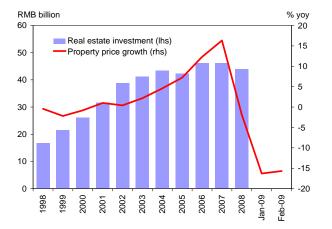
Shanghai



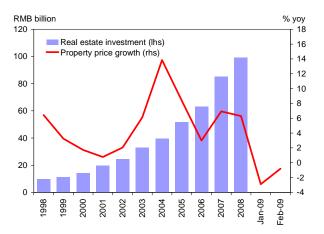


Property prices in other cities

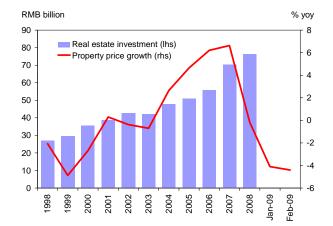
Shenzhen



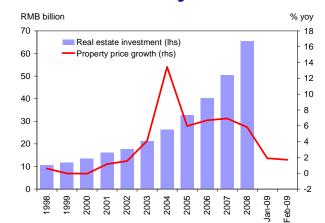
Chongqing



Guangzhou



Tianjin





Affordability: Some comparison within China

- In recent five years, China's growth in GDP per capita is twice as fast as that in property growth.
- Affordability is not a problem measured by the price to disposable income ratio, even by international standards.
- However, in certain cities, this ratio has much exceeded some international recognized threshold, particularly in Beijing, Shanghai, Guangzhou, and Shenzhen.

	GDP per capita (% yoy) (2002-2007)	Property Price (% yoy) (2002-2007)	Property price to per capita income (%) ^{1/} (2007)
Nation-wide	14.0	6.5	7.6
Beijing*	12.9	5.8	14.2
Shanghai	12.8	9.1	9.6
Chongqing	15.4	6.7	5.8
Chengdu	12.7	5.4	7.8
Tianjin	15.8	6.4	4.0
Wuhan	13.5	4.9	8.8
Qingdao	18.0	9.6	7.9
Guangzhou	8.3	2.7	10.4
Shenzhen	15.2	5.9	11.3
Nanning	7.9	5.0	7.1

Sources: CEIC, Wind and BBVA estimates.

Notes: * GDP per capita growth for Beijing is simple average of 2002-2008. 1/ Floor space per capita is roughly 27 squared meters.

Rental returns in some key cities

		Price (USD)		Yield (% p.a.)	Price per square meter (USD)		
		Total value	Monthly Rent		Value	Monthly Rent	
Beijing ¹	Apartments						
	60 sq.m	114,180	539	5.67	1,903	8.98	
	120 sq.m	261,960	1,122	5.14	2,183	9.35	
	200 sq.m	465,800	2,206	5.68	2,329	11.03	
Shanghai ²	Apartments						
0	, 60 sq.m	116,040	533	5.51	1,934	8.88	
	120 sq.m	323,640	1,176	4.36	2,697	9.80	
	200 sq.m	600,200	2,468	4.93	3,001	12.34	
Guangzhou ³	Apartments						
J	60 sq.m	67,440	305	5.43	1,124	5.08	
	120 sq.m	169,200	734	5.21	1,410	6.12	
	180 sq.m	345,960	1,298	4.50	1,922	7.21	
Shenzhen ⁴	Apartments						
	45 sq.m	66,150	314	5.70	1,470	6.98	
	75 sq.m	106.500	406	4.57	1,420	5.41	
	105 sq.m	123,165	457	4.45	1,173	4.35	
	Villas	-,			, -		
	120 sq.m	244,920	992	4.86	2,041	8.27	
	185 sq.m	573,315	1,650	3.45	3,099	8.92	
	255 sq.m	1,367,310	2,978	2.61	5,362	11.68	
	325 sq.m	2,017,925	3,926	2.33	6,209	12.08	
	450 sq.m	3,460,500	6,336	2.20	7,690	14.08	
Chengdu ⁵	Apartments						
-	60 sq.m	57,000	203	4.28	950	3.38	
	120 sq.m	110,760	395	4.28	923	3.29	
	180 sq.m	173,160	682	4.73	962	3.79	

Source: Global Property Guide

Notes: 1. Districts included: Chaoyang; Dongcheng; CBD area

2. Districts included: Jingan; Xuhui; Changning; Pudong

3. Districts included: Haizhu; Huangpu; Tianhe; Zengcheng

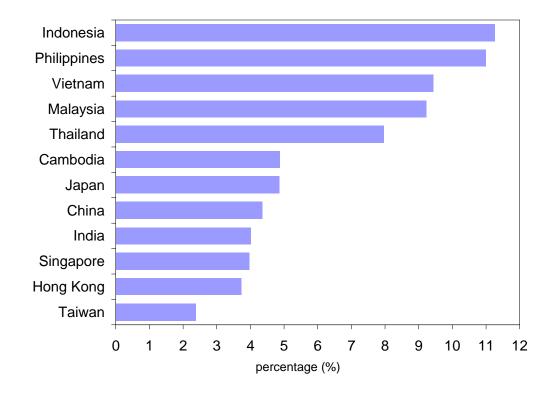
4. Districts included: Nanshan; Futian

5. Districts included: Wuhou; Jinjiang; Jinniu; Qingyang

Data as of 19 Feb, 2009.



Gross rental yields: International comparison

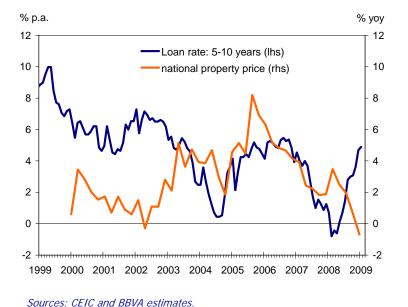


Source: Global Property Guide.

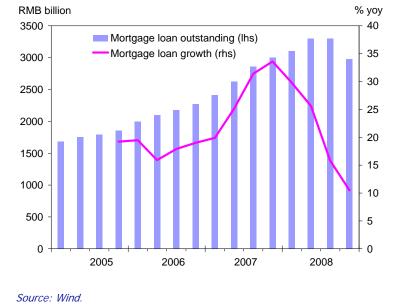
Comparing rental returns internationally, China's gross rental returns are higher than Hong Kong, Singapore and Taiwan but much lower than some developing ASEAN economies.



Real mortgage rates and mortgage loans



Real Interest Rates and Property Prices



Mortgage Loan Outstanding

Interest rate and property prices have a negative, though lagging relationship. China's mortgage outstanding, though growing fast, remains small as a share of total bank loans. It is at around 10% at the end of 2008.

May 2009



Another form of housing finance is housing provident fund

						Current Year Data		
	Accumulated funds,	Fund balance, bn	Participants, mn	Total Households obtaining loans, mn	Amount of Total Loans, bn	Contribution, bn		Loans Issued,
	bn	UII	Farticipants, nin	obtaining ioans, min	Loans, on	UII	bn	bn
2004	750.7	489.4	48.9		340.7	183.7	73.1	106.1
2005	976.0	626.0	62.6	5.2	459.9	235.9	99.3	119.5
2006	1268.4	787.1	69.2	7.0	636.4	292.8	131.6	176.5
2007	1623.0	960.5	71.9	8.3	856.6	354.3	180.9	220.2

National HPF Accumulation and Usage

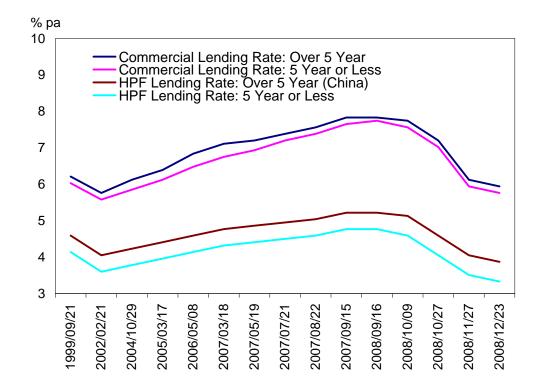
Source: Ministry of Housing and Urban-Rural Development

Housing provident fund is a unique form of housing finance institution in China: It is a fund contributed by both employees and employers. Employees contributes 5% to 20% of their salary to the fund with equal amount of contribution from their employers. The benefits are low interest rate and accumulated large down payment for housing.



HPF enjoys relatively low interest rates

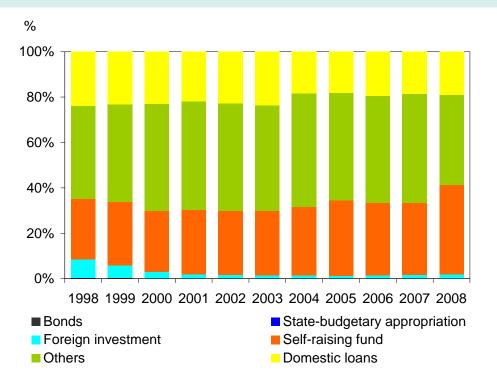
Interest Rate Comparison between Commercial Loan and HPF loan



Source: Wind Economic Data.



Real estate funding sources



Sources: Wind and BBVA estimates.

Foreign participation in China's real estate development remains limited.



Government revenues from the real estate sector

		2002	2003	2004	2005	2006	2007	2008
Total value of land purchased	RMB bn	146	205	257	290	378	487	579
Local government revenue	RMB bn	852	985	1,189	1,510	1,830	2,357	2,864
(% share to local gov't revenue)	%	17.1	20.8	21.6	19.2	20.7	20.6	20.2

Source: Wind.

Real estate related activities have become an important source of revenue for local governments. In certain locales, the dependence for land sales and other real estate activities could be much higher than the average numbers presented here.

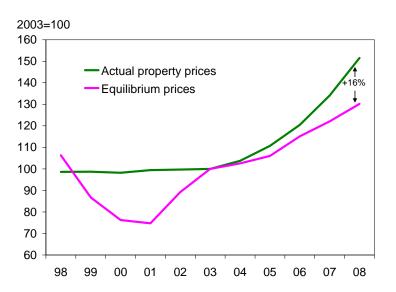


Part 2: Valuation Issues and Outlook



How much overvaluation? Beijing

	Beijing
Population size ('000)	12,133
Per capita income (RMB, 2007)	58,204
Average growth from 1998-2008	11.6
Average temperature year round (°C)	11.8
Number of universities	84
Service industry ratio	73.2
Key manufacturing industries	IT, Auto, Petrochemical, Pharmaceutical, etc.



Source: BBVA estimates.

Our model estimates suggest there are at least 16% of overvaluation in Beijing's housing prices on average.



How much overvaluation? Shanghai

	Shanghai
Population size ('000)	13,789
Per capita income (RMB, 2007)	66,367
Average growth from 1998-2008	11.6
Average temperature year round (°C)	17.8
Number of universities	61
Service industry ratio	37.9
Key manufacturing industries	Auto, IT, Equipment, etc.



Source: BBVA estimates.

Shanghai's overvaluation is at least 18% on average.



How much overvaluation? Shenzhen

	Shenzhen
Population size ('000)	2,124
Per capita income (RMB, 2007)	79,645
Average growth from 1998-2008	15.2
Average temperature year round (°C)	22.3
Number of universities	10
Service industry ratio	53.7
Key manufacturing industries	Electronic, IT, Communications, etc.



Source: BBVA estimates.

Shenzhen's overvaluation is at least 20% on average.



How much overvaluation? Guangzhou

	Guangzhou
Population size ('000)	7,735
Per capita income (RMB, 2007)	71,808
Average growth from 1998-2008	13.7
Average temperature year round (°C)	21.8
Number of universities	29
Service industry ratio	41.0
Key manufacturing industries	Eletronic, Auto, Pharmaceutical, etc.



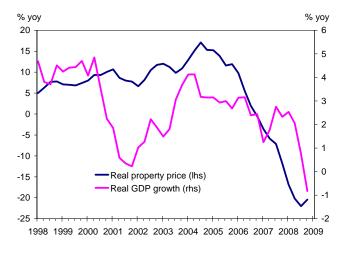
Source: BBVA estimates.

There is little overvaluation in Guangzhou.



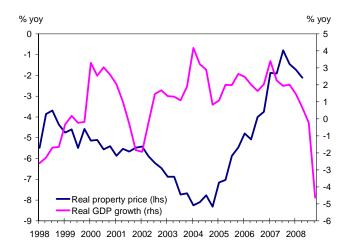
Short-term outlook: International experience

US Real Estate and Business Cycle



Sources: Datastream and BBVA estimates.

Japan Real Estate and Business Cycle



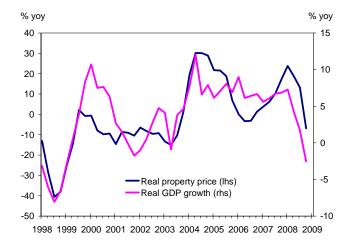
Sources: Datastream and BBVA estimates.

- In the US, there did not appear to be a relationship between property prices and real GDP growth before 2004. The collapse of the real estate bubble in the US has been weighing on real GDP growth since then.
- The burst of real estate bubble led to Japan's lost decades. The damage to the bank's balance sheet has been large. As a result, economic growth has been anemic.



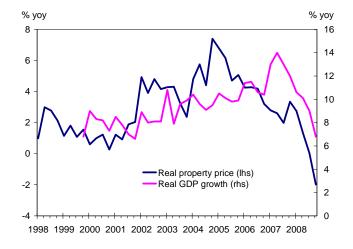
Short-term outlook

Hong Kong Real Estate and Business Cycle



Sources: CEIC and BBVA estimates.

China Real Estate and Business Cycle



Sources: CEIC and BBVA estimates.

The relationship between real estate prices and real GDP growth has been quite close in both Hong Kong and China.



Short-term outlook

Expected Time to Sell out the Existing Stock of Floor Space

Assumption on selling speed	Date of Sell out
Same as in 2008	Nov 2012
Same as in 2009 Q1	Mar 2012
Average of previous 10 years	Oct 2014
80% of 2008 transaction	Oct 2013

Sources: Wind and BBVA estimates.

A downward price adjustment appears to be inevitable in the coming economic downturn. Given there is not much over valuation at the national level, our forecasts for the national level was about 5-10%.

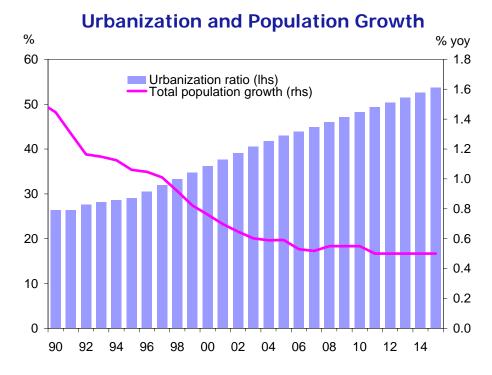


Hard-landing can be avoided

We believe it would be important to consider additional measures to support the market. Here are some proposals

- Local policy initiatives to reform residency registration system is key to stimulate demand.
- More government-provided low-price housing for low-income and middleincome population without stringent income test at this juncture may create wrong incentives, as experienced in Hong Kong in 1998.
- Accelerated urban renewal program will help create demand through fast depreciation of old housing stocks whose quality is already in need of rapid upgrade.
- Continued adoption of well-tested and low-risk mortgage backed securities will make housing finance inexpensive and help reduce risk concentration in commercial banks. In addition, REITs could also be a useful means for real estate developers.

Bright long-term outlook



Sources: United Nation Database and CEIC

Favorable structural factors such as fast income growth, rapid urbanization, high population density, and high depreciation rate in housing stocks all bode well for great long-term investment potentials.



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