



Empirical study of the local government deficit, land finance and real estate markets in China[☆]



Jiun-Nan PAN^a, Jr-Tsung HUANG^{b,*}, Tsun-Feng CHIANG^c

^a General Education Center, Kainan University, No. 1 Kainan Road, Luzhu Shiang, Taoyuan, Taiwan

^b Department of Public Finance, National Chengchi University, No. 64, ZhiNan Road Sec. 2, Taipei 116, Taiwan

^c School of Economics, Henan University, Jin Ming Avenue, Kaifeng 475004, China

ARTICLE INFO

Article history:

Received 29 May 2013

Received in revised form 3 November 2014

Accepted 4 November 2014

Available online 12 November 2014

JEL classification:

C24

H71

H72

R31

Keywords:

Local government deficit

Land finance

Real estate

China

Panel smooth transition regression model

ABSTRACT

The purpose of this study is to explore an important issue concerning the relationship among the local government deficit, land finance and real estate markets in China. This study uses a panel data of 30 provinces in China during 1999–2010 to estimate the panel smooth transition regression model. Since the estimated transition threshold value is 14.62, provinces with the ratio of fiscal deficits to GDP of greater than 14.62% are categorized as in the high fiscal difficulty (HFD) regime. Otherwise they are in the low fiscal difficulty (LFD) regime. The primary finding of this study is that the land leasing fee has a significantly positive influence on the total value of commodity buildings sold in the LFD regime. In addition, the local fiscal deficit has a significantly positive impact on the real estate market in the LFD regime, but this impact turns to be negative in the HFD regime.

© 2014 Elsevier Inc. All rights reserved.

1. Introduction

With the rapid economic growth, China has attracted many foreign investors into the real estate market, and real estate has become the most popular industry (Jiang, Chen, & Isaac, 1998; Fung, Huang, Liu, & Shen, 2006). In fact, China's real estate development has become one of the major factors promoting economic growth in the country. Unlike the mature real estate markets in most western countries, the real estate market is an outcome of urban land reform in China.¹ Over the past decade, the transaction of real estate

[☆] The authors acknowledge the financial support provided for this research by the Ministry of Science and Technology, Taiwan (NSC 101-2410-H-004-206). The authors would like to thank Dr. An-Pang Kao (President of Kainan University, Taiwan), Dr. Yung-Ho Chiu (Professor of Economics at Soochow University, Taiwan), Dr. Yi-Cheng Ho (Professor of Public Finance at National Chengchi University, Taiwan), and Dr. Vance Kuang-Ta Lo (Associate Professor of Public Finance at National Chengchi University, Taiwan), and also all the participants in the seminar that took place in the Department of Public Finance of the National Chengchi University, Taiwan, on July 17, 2012, for their helpful and constructive comments. The authors also deeply appreciate two anonymous reviewers' contributions to this article. All views and errors are solely those of the authors.

* Corresponding author. Tel.: +886 2 22349884; fax: +886 2 29387574.

E-mail address: jthuang@nccu.edu.tw (J.-T. Huang).

¹ Since the housing market reform from 1998 to 1999, commodity housing has come to China's property market, replacing and mainstreaming state-provided housing.

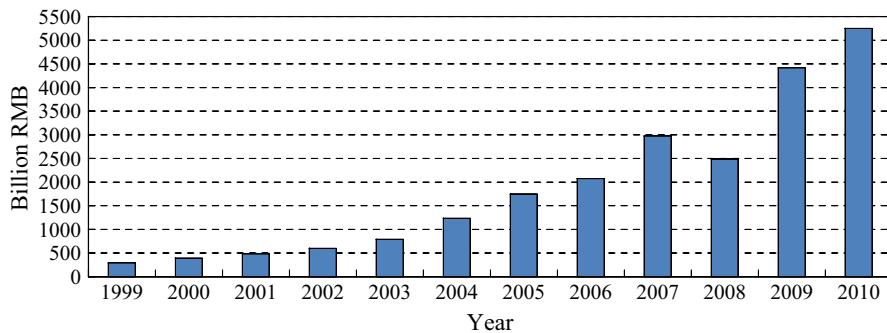


Fig. 1. The total value of commodity building sold in China, 1999–2010 (billion RMB).
Data source: CEIC China Premium Database.

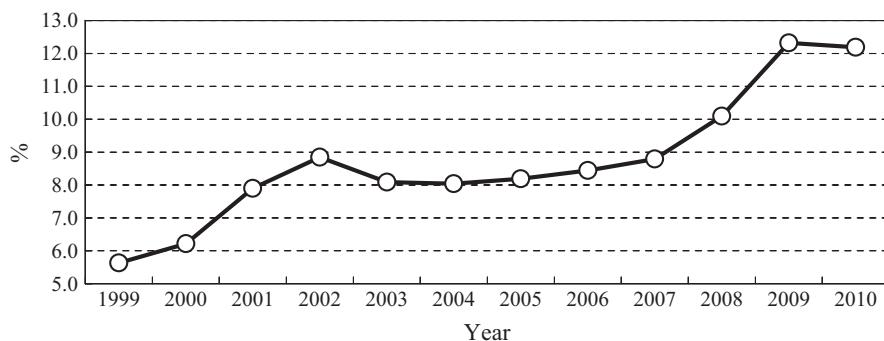


Fig. 2. The ratio of local deficits to GDP in China.
Data source: CEIC China Premium Database.

in China increased rapidly, and the growth in housing prices has outpaced the growth in income,² thereby exacerbating the affordability problem proposed by Fung, Jeng, and Liu (2010),³ inequality and low consumption as suggested by Yan and Zhu (2013), potential local government debt crisis indicated by Fan and Lv (2012), and lack of entrepreneurship pointed out by Li and Wu (2014).

According to the above description, a high housing price is the signal of an over-booming real estate market. Observing the total value of commodity buildings sold is a simple way to understand the situation of real estate markets. Fig. 1 illustrates that the total value of commodity buildings sold increased from 300 billion RMB in 1999 to 5.2 trillion RMB in 2010, except that real estate market downturn due to a tightening policy of the real estate market implemented in 2008. This implies that China's real estate market will grow very fast if there are no interventions from the central government.

The overwhelming development of real estate markets, causing a high housing price, due to that real estate is a special type of asset that represents a dual role of consumption and investing goods (Glindro, Subhanij, Szeto, & Zhu, 2011). Therefore, the demand for real estate, particularly a house, increases over time once China's economic growth remains at a high level. This increasing demand for real estate provides local governments a chance to mitigate their fiscal deficits by selling the land-use right, the most important input of real estate output. This strategy is often referred to as land finance. More precisely speaking, land finance usually refers to the practice of some local governments who sustain their fiscal expenditure by selling the land-use right. Land finance suddenly becomes a panacea for local governments to cure their severe illness of fiscal deficits. The severe situation of the local government fiscal deficit is shown in Fig. 2. Fig. 2 shows the ratio of local fiscal deficits to GDP of China from 1999 to 2010. This ratio was greater than 8% in 2008, then showed a U-shaped pattern, and further reached a highest value in 2009 during this period. It is found that the problem of fiscal deficits has been very serious since the recent years.

After the land-use right is transferred, local governments can receive revenue of the land leasing fee from real estate developers. The land finance strategy can stimulate real estate markets, further pushing up the house price (Cao, Feng, & Tao, 2008; Fang & Zi, 2012; Lu & Liu, 2012). In order to finance more and more budget deficits, local governments put lots of efforts to supply land to real estate markets. According to Cao et al. (2008), land finance has existed for many years, meaning that local governments play a leading role in the process of "acquiring land, leasing land, imposing taxes, mortgage and then acquiring land again," and local

² Almost all studies found that China's real estate price can be pushed up by different factors, such as economic growth, acceleration of urbanization, commodity housing reform, high saving rate, limited investment vehicle, and speculative investment demand (Ahuja, Cheung, Han, Porter, & Zhang, 2010).

³ According to Fung et al. (2010), the ratio of housing price to household income went up from 9.79 in 1997 to 11 in 2006, suggesting that residents were actually becoming less able to afford housing.

دريافت فوري

متن كامل مقاله



- ✓ امكان دانلود نسخه تمام مقالات انگلیسي
- ✓ امكان دانلود نسخه ترجمه شده مقالات
- ✓ پذيرش سفارش ترجمه تخصصي
- ✓ امكان جستجو در آرشيو جامعى از صدها موضوع و هزاران مقاله
- ✓ امكان دانلود رايگان ۲ صفحه اول هر مقاله
- ✓ امكان پرداخت اينترنتى با کليه کارت های عضو شتاب
- ✓ دانلود فوري مقاله پس از پرداخت آنلاين
- ✓ پشتيباني كامل خريد با بهره مندي از سيسitem هوشمند رهگيری سفارشات