

USE OF **LOAN-TO-VALUE RATIO** AS A MACROPRUDENTIAL TOOL IN THE MITIGATION OF RESIDENTIAL PROPERTY PRICE VOLATILITY

Authors:

Michelle Majid, Charissa Mooteeram, Darcelle Bowrin, Janelle Awai

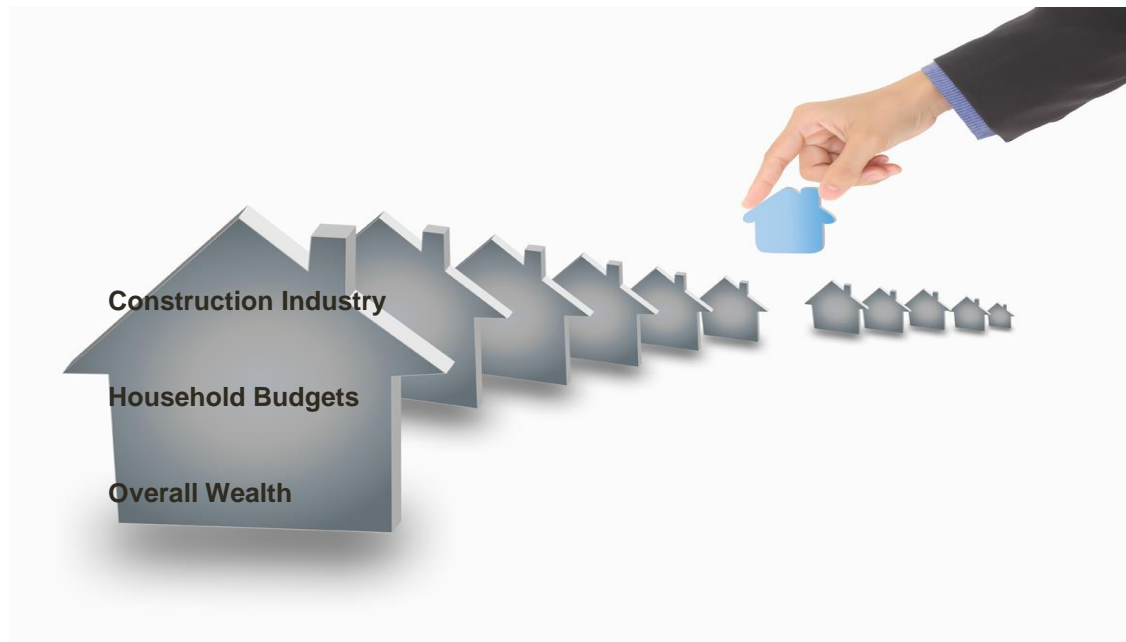
Outline

- The Housing Market and Financial Stability
- Use of Monetary & Fiscal policies
- Macroprudential policy & the use of LTV ratio
- Summary of country experiences
- Snapshot of T&T residential housing market
- Recommendations



The Housing Market and Financial Stability

Emerging trends indicate that central banks and financial regulators across the world have placed much more emphasis on housing market development given its far reaching implications for financial stability.



The Link between Bank Lending, Property Price Appreciation and Financial Crises

- Japanese Banking Crisis 1990
- Asian Crisis 1997-1998
- Global Financial Crisis 2007-2009





MIKE LICKWICH 9/12/7
 ATL-BUREAU JOURNAL-CONSTITUTION ©
 JSC.COM



Monetary Policy and Fiscal Tools

- *Can monetary policy tightening stop or contain a real estate boom?* History attests to monetary policy not always effective in tempering the boom-bust cycle in the real estate market.
- *Can transaction or property taxes work to correct disequilibrium in the system?* While in theory may dampen house price volatility, technical and political problems can complicate implementation.



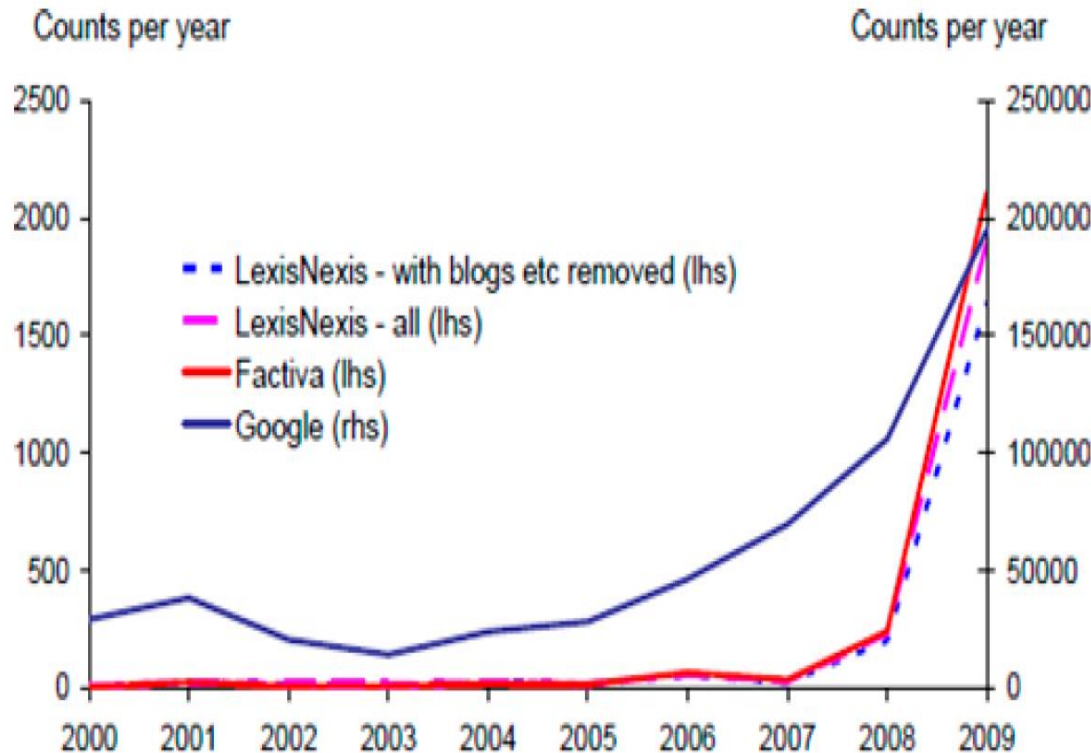
How we saw the world before the financial crisis



How we see the world now



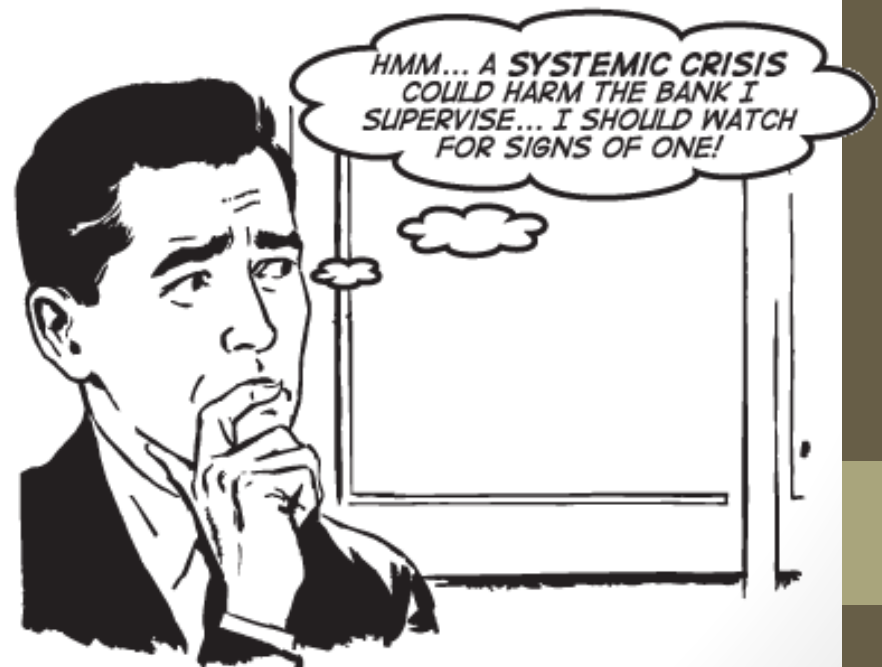
Macroprudential Policy



Source: Galati and Mossner 2011

Macroprudential policy has been defined as the use of primarily prudential tools to limit systemic risk – the risk of disruptions to the provision of financial services that is caused by an impairment of all or parts of the financial system, and can cause serious negative consequences for the real economy (IMF, 2013).

Micro vs. Macro?



Macropprudential Tools

caps on the debt-to-income (DTI) ratio

financial stability

systemic risk

caps on the loan-to-value (LTV) ratio

bank leverage

housing price volatility

real estate booms

credit growth

over-leveraging

counter-cyclical or time-varying capital requirements

limits on foreign currency lending

limits on funding gaps

mandatory insurance for riskier loans

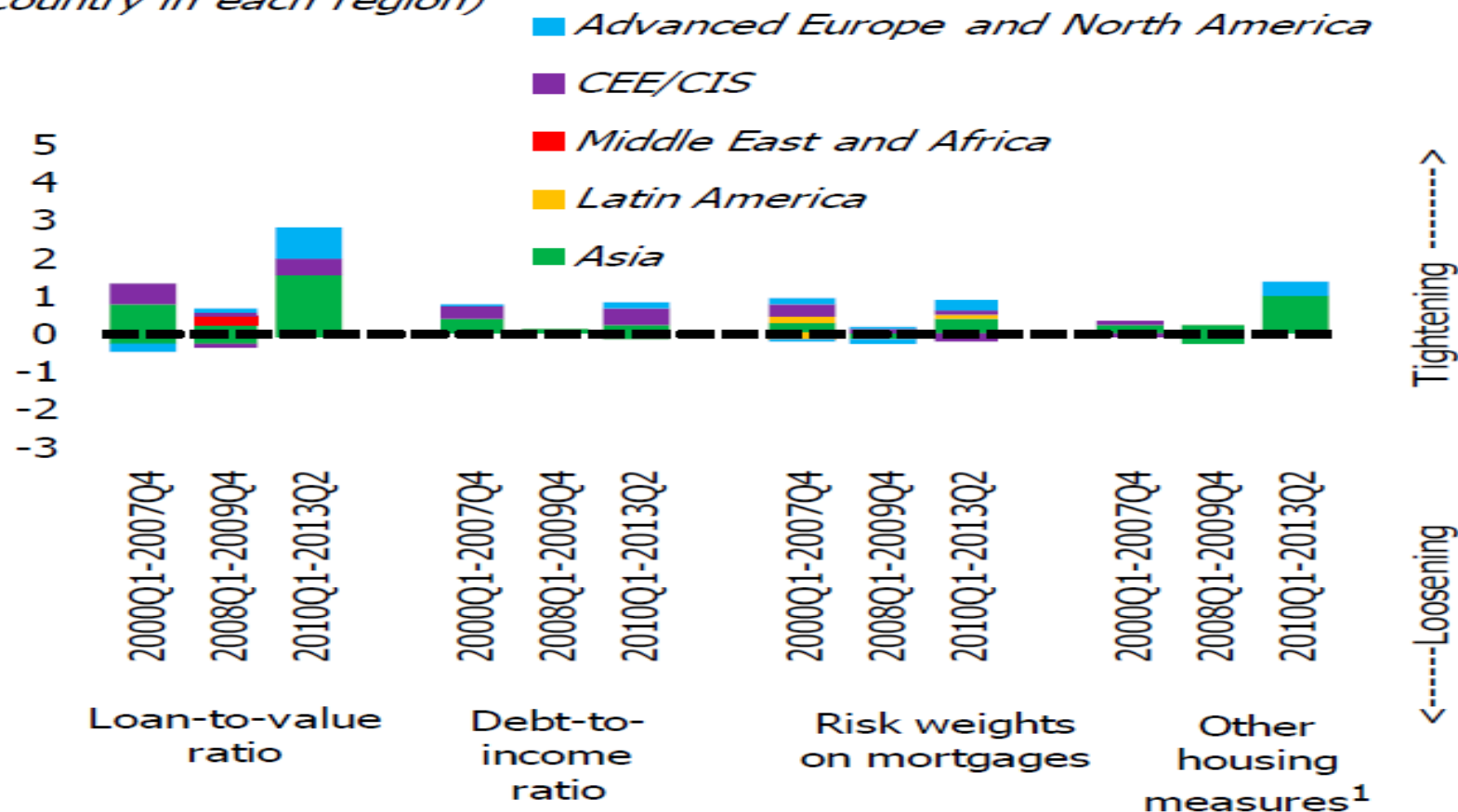
prudential stability levies/taxes

core funding requirements

The Macroprudential Toolkit: Housing

Housing Related Measures

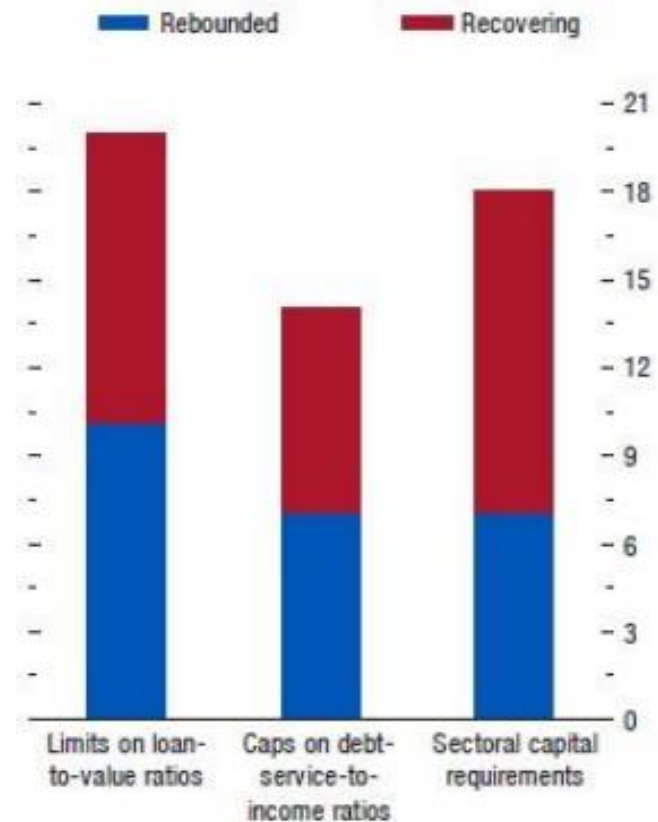
(Average number of tightening and loosening actions by country in each region)



¹ Include provisions on housing loan requirements, housing/land related taxation, and limits on adjustable rates component of mortgages.

The most popular: LTV

The LTV ratio introduces a **cap** on the size of a mortgage loan **relative to the value** of a property, thereby imposing a **minimum downpayment** (IMF, 2013).



Source: IMF staff calculations.

Note: Rebounded = Australia, Austria, Brazil, Canada, China, Colombia, Hong Kong SAR, Israel, Malaysia, New Zealand, Norway, Singapore, Sweden, Switzerland. Recovering = Bulgaria, Croatia, Estonia, Finland, Hungary, India, Indonesia, Ireland, Korea, Latvia, Mexico, Netherlands, Poland, Russia, Slovak Republic, Spain, Thailand, United Kingdom, United States.

Literature Review on Use of LTV caps

- Crowe et al. (2011) – positive correlation between LTV at origination and house price appreciation
- Wong et al. (2011) – low LTVs have the potential to reduce delinquencies from economic downturns and real estate busts.
- Ahuja and Nabar (2011) – found that LTV limits slowed property price growth.
- Kuttner and Shim (2014) – showed that housing credit growth is significantly affected by changes to housing related measures, inter alia LTV caps.

Case Studies



Country Experiences...

- Korea
- Hong Kong
- Singapore
- Sweden
- Canada
- New Zealand
- England



Korea

Date	Specification
September 2002	Introduction of the LTV Ratio cap of 60 per cent but a differentiated cap depending upon the maturity of the loan, housing price and location.
June 2003	The LTV ratio was lowered from 60 per cent to 50 per cent for loans with a maturity of 3 years or less and backed by real properties located in speculated areas
October 2003	LTV Ratio further reduced from 50 per cent to 40 per cent for loans with maturity of 10 years or less and backed by apartment units in speculative areas
March 2004	The LTV Ratio was raised from 60 per cent to 70 per cent for mortgage loans not generally used for speculative purposes: those with a maturity of 10 years or more and less than one year of interest only payments
June 2005	LTV Ratio for apartment units priced just about US\$600,000 in speculative areas was lowered from 60 to 40 per cent
September 2006	LTV ratio for all mortgage borrower seeking an apartment unit priced more than USD\$600,000 was set at 40 per cent
July 2009	LTV Ratio was lowered from 60 to 50 per cent for: <ul style="list-style-type: none"> (i) Apartment units with mortgage maturities of less than 10 years. (ii) Apartment units with mortgage maturities of more than 10 years but with a collateral value over USD\$600,000. (iii) Non-apartment, detached units with mortgage maturities of less than 3 years. In the Seoul Metropolitan area
October 2009	LTV Regulations were expanded to all financial institutions for the metropolitan area



Hong Kong

- Hong Kong has made use of the LTV ratio for almost 20 years.
- In 1995 – implemented a 70 percent LTV ratio
- Since then tighter caps have been placed on:
 - Luxury properties
 - Investment properties
- Changes in the LTV ratio saw a reduction in transaction volumes and slowed house price inflation.



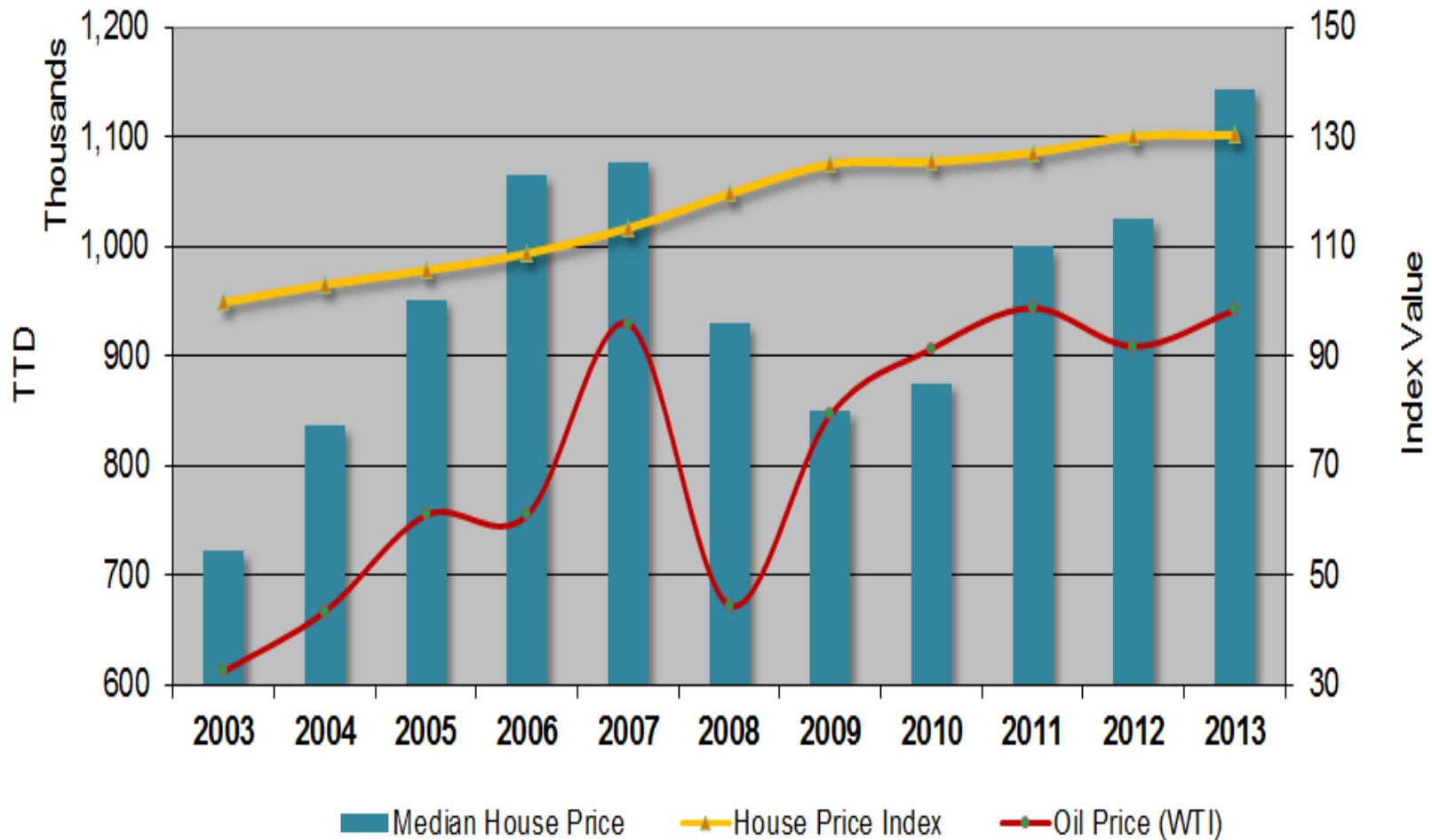
Singapore



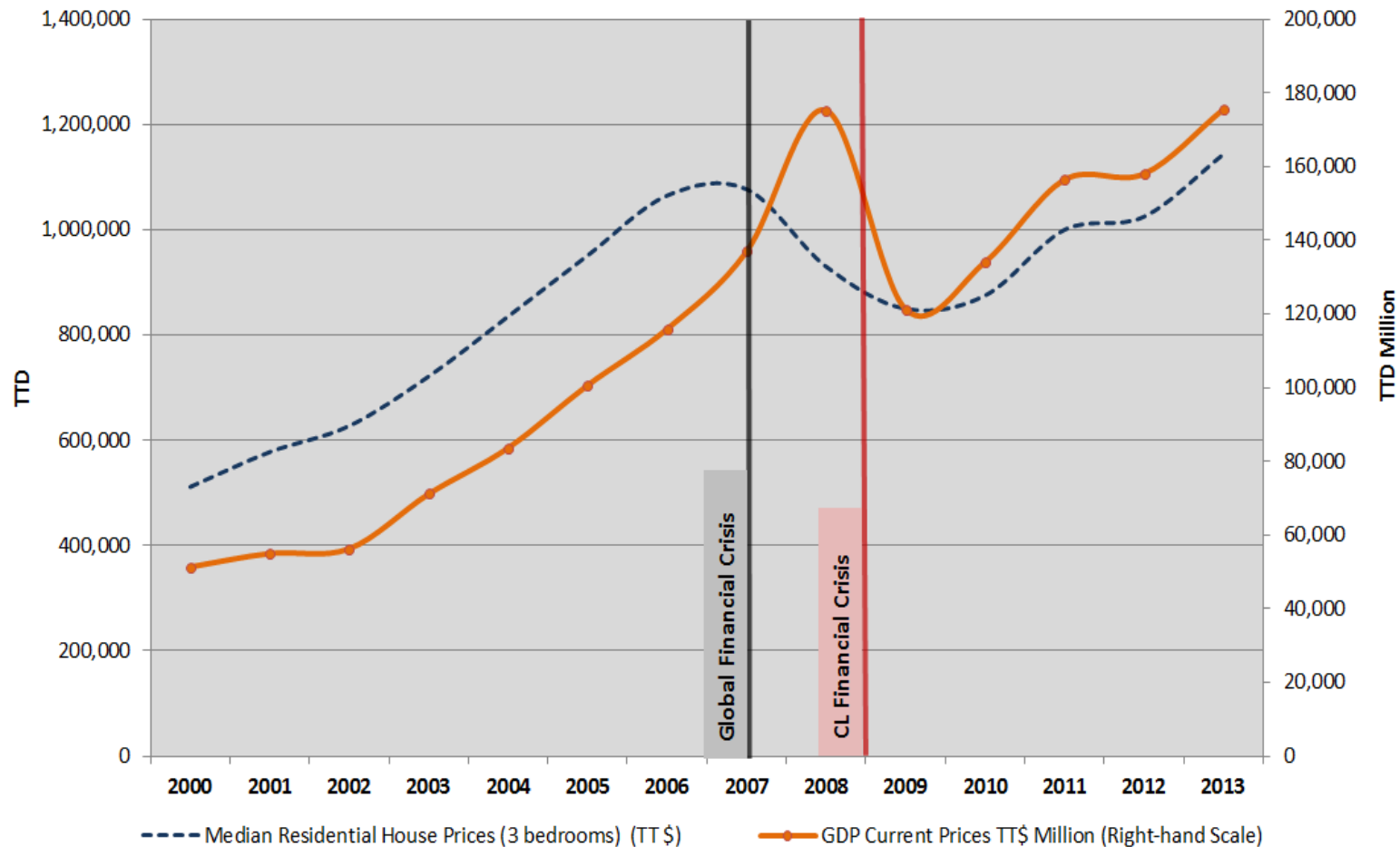
- The use of macroprudential policies has been centered around the housing market and its use has been increased significantly especially after 2009.
- Evidence suggest that the LTV ratio 'cooled' the overheated housing market.
- In 2010, LTV caps were reduced from 90 per cent to 80 per cent for all borrowers and reduced to 70 per cent and later to 60 per cent for borrowers with one or more outstanding housing loans.
- Results indicated that the share of borrowers with single mortgages increased and speculative transactions decreased.

Trinidad and Tobago's Housing Market

Median House Price vs. House Price Index in Trinidad and Tobago vs. Oil Price (WTI)



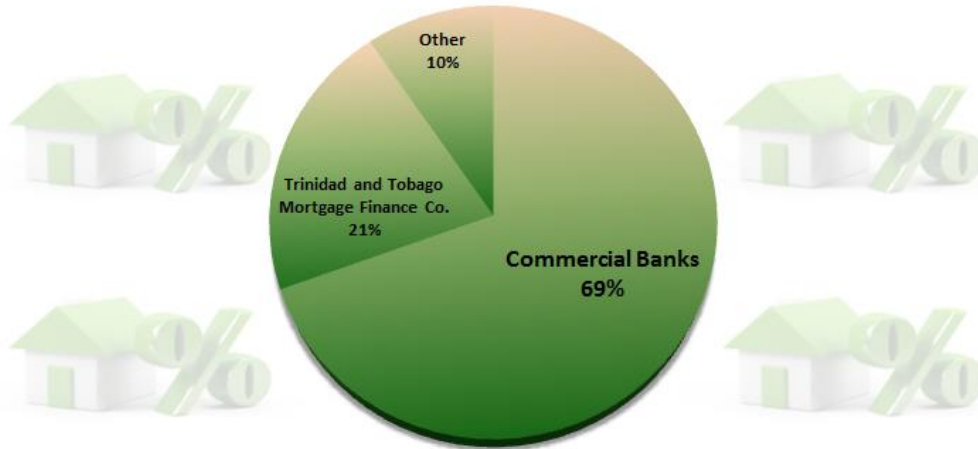
Housing Prices vs GDP



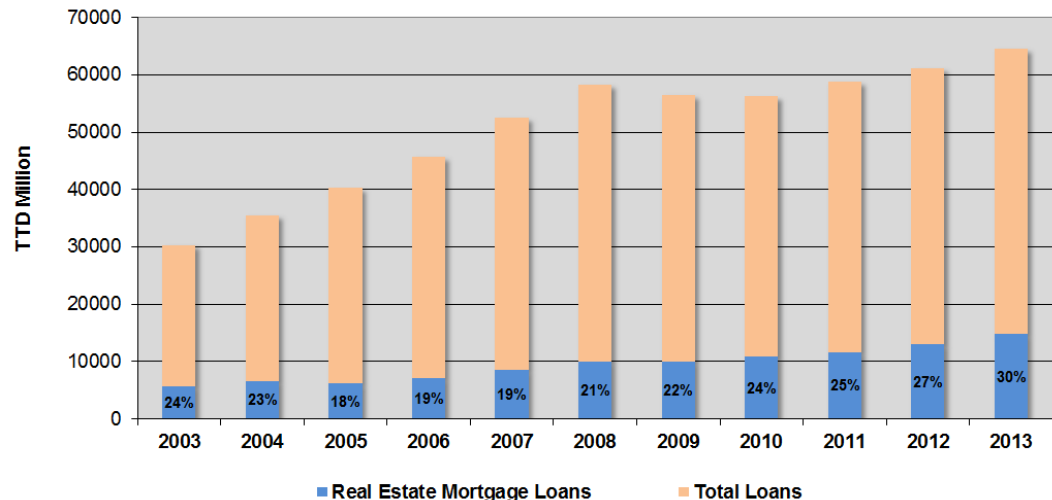
Source: Central Bank of Trinidad and Tobago

Mortgage Loans in Trinidad and Tobago

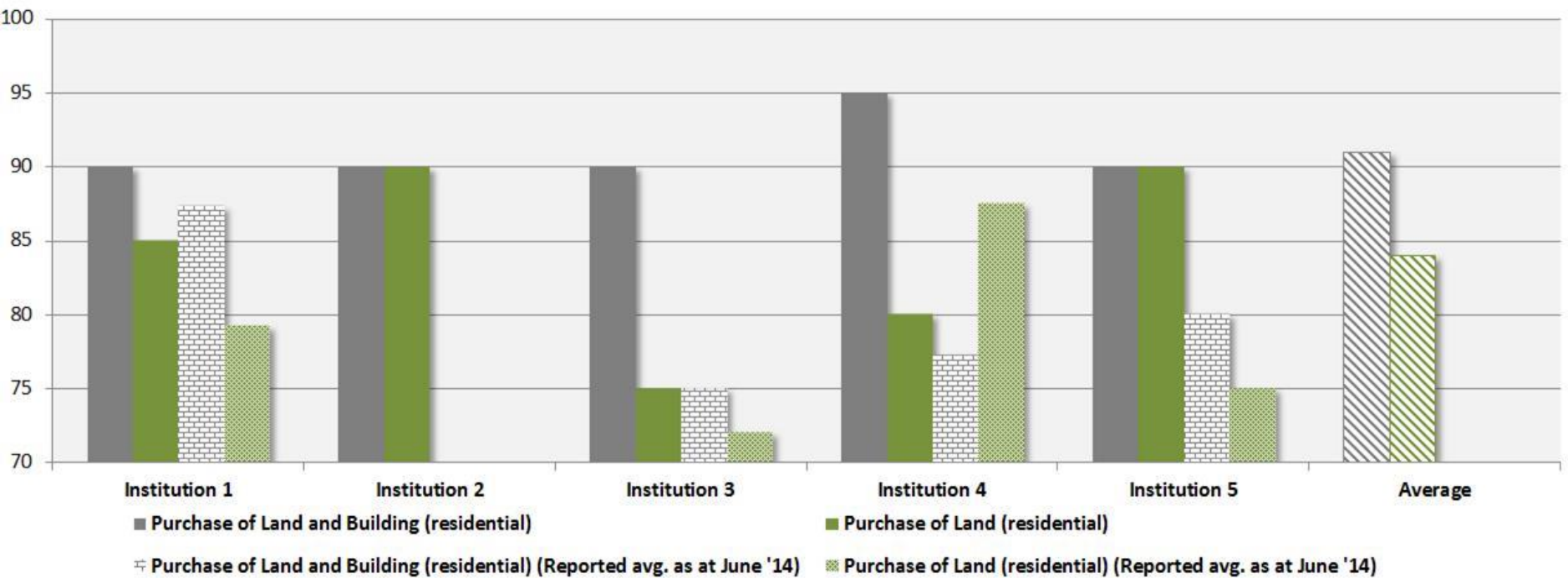
Mortgage Loans by Institution: September 2014



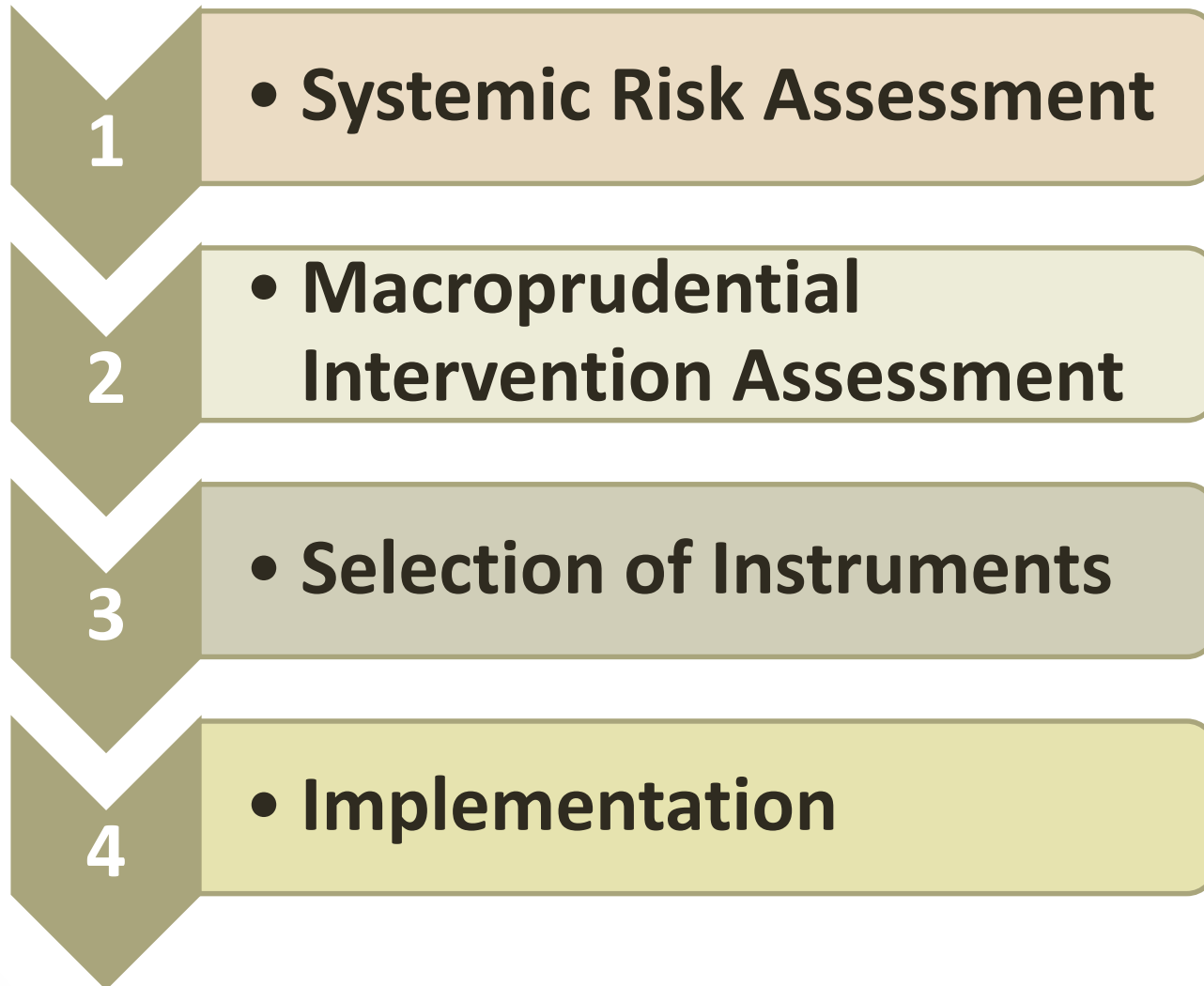
Real Estate Mortgage Loans/ Total Loans in Trinidad & Tobago



LTV Ratio applied on Residential Property by Institution in Trinidad & Tobago



Steps in adopting any MP tool



Considerations for the use of the LTV

Stand-alone tool or as a set of instruments

- Phased (Korea, Norway)
- Combination (New Zealand)

Static or dynamic

- Adjusting across housing cycle? (Hong Kong)

Transparency & Accountability

- Calibration can be a challenge
- Changes should be well articulated

Considerations for the use of the LTV

Issue of Effectiveness

- Popularity soared post crisis

Issue of Efficiency

- May screen out 'good borrowers'

Gaming of the System

- Real estate appraisers

Broad based or targeted

- Broad based cap or targeted based on borrower and property type

Closing Remarks

Main Risks from real estate cycles:

- Increased leverage in the real sector (particularly, households)
- Build up of risks in the financial system with respect to residential mortgages

Main Policy Objectives:

- Prevention of the overheating in the housing market, increased leverage by households
- Increased resilience of the financial system in the event of a real estate bust

Closing Remarks

- Local real estate residential exposures are on the rise.
- Major lending institutions are adhering to their respective credit policies for residential mortgages and are also stringent in the underwriting of new mortgages.
- There may not be an immediate need to implement an LTV cap as a mandatory policy tool at this time.
- Central Bank is on the verge of rolling out revised prudential rules (Basel II & III) – therefore focus can be placed (in the first instance) on appropriate risk weights to reflect mortgage risks.

Thank you!