## A New Era of Monetary Policy: The Case of Israel

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## Israel & Czech Republic: General Comparison

	Israel	<b>Czech Republic</b>	
Population (millions)	8	10.5	
GDP (\$US billion, 2013)	290	200	
GDP per Capita (PPP, 2013)	32,700	27,350	
Annual Growth (2004-2014)	4.1%	2.3%	
Unemployment (25-64)	5.1% (2014)	6.2% (2013)	
Inflation (12 months)	-1.0%	0.1%	
Government Expenditure (2014, % of GDP)	39.4%	<b>42.5</b> %	
Tax Burden (% of GDP)	31% (2014)	34.1% (2013)	
Government Gross Debt (% of GDP)	67.8%	44.4%	



## Since the Crisis, Monetary Policy Has Changed - Worldwide and in Israel



## **Central Banks' Objectives**

#### **Before the financial crisis**

"One target, one instrument simplicity"

#### Since the financial crisis

"Multiple instruments should increase the extent to which multiple objectives can simultaneously be pursued" One major objective: Maintaining price stability, and supporting economic activity. Using one monetary tool: Interest rate.

#### Multiple objectives:

- Maintaining price stability, and supporting economic activity.
- Ensuring financial stability
- Using multiple policy tools:
- Interest rate (incl. negative level)
- Quantitative easing.
- Capital flow management measures.
- Foreign exchange intervention.
- Macroprudential measures.
- Forward guidance.

Source: IMF, "Monetary policy targets after the crisis", April 2013.

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## **Monetary Policy Dilemmas and Considerations of SOEs Since the GFC**

- ☐ Monetary policy under inflation targeting: Set interest rate to target inflation and output gap.
- During a recession at the "economic core" addressed by monetary easing, a small open economy may experience exchange rate appreciation and lower demand for its exports.
- □ Global monetary easing may directly and/or indirectly, via monetary policy reaction, affect **asset prices** and raise domestic **financial stability concerns.**
- Balancing growth, inflation and financial stability calls for macroprudential policy and the use of multiple tools

## Unconventional Monetary Tools Since The Global Financial Crisis

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	Forex Intervention	Forward Guidance	QE	Negative Interest Rate	MAP
USA		+	+		
Euro		+	+	+	
England		+	+		+
Japan	+	+	+		
Denmark	+			+	
Switzerland	+		+	+	+
Sweden		+	+	+	
Canada		+			+
New Zealand	+				
Poland	+				+
Israel	+		+		+
Czech Republic	+	+			
	<ul><li>Exchange rate floor</li><li>Fixed exchange rate</li></ul>	*Not all MAP measures were implemented by the central bank; some were by other entities.			

Source: IMF and Bloomberg.

#### Macroprudential

'Quite simple to describe but quite difficult to implement..."

## The number of macroprudential policies in the housing market used by OECD countries has increased



## "The broad goal of these policies (MAP) is to limit the risk of financial system disruptions"

Source: BIS, "Operationalizing the selection and application of macroprudential instruments", December 2012.

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- > Maintain price stability, as the central goal.
- Support for economic policy, primarily growth, employment and reducing social gaps.
- Support the stability and orderly activity of the financial system.







### **Nominal Effective Exchange Rate**



2007-2015, Index 01/2007=100





\*Deviation (in %) of actual GDP from potential GDP. Potential GDP is based on production function approach.

### **Home Prices and Residential Loans**

#### 2007-2014, monthly, 01/2008=100



## **The Policy Challenges In Israel**

- 1. Expansionary global monetary policy causes appreciation and affects exports.
- 2. Appreciation pressures intensified by natural gas finding.
- 3. Conventional monetary policy- reducing interest rates which led to: (i) lower cost of credit; (ii) reduced interest rate differentials; and (iii) diminished appreciation pressures on NIS.
- 4. However, lower interest rates affect asset prices, and in particular housing prices, and volume of mortgages.
- 5. Therefore: Macroprudential measures to reduce risk and reduce transmission of interest rate policy to asset markets.
- 6. Therefore: FX intervention from macroprudential considerations to economize on interest rate changes.

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## Macroprudential Measures: Main Steps in Mortgage Market



- \* Limiting variable-interest-rate component:
  - to 1/3 of the total loan, (for variable IR which changes within 5 years) (May 2011);
  - to 2/3 (for all variable IR) (August 2013).
- Limiting LTV ratio : up to 75% for first-home buyers, up to 50% for investors, up to 70% for those upgrading their homes (November 2012).
- **Limiting PTI ratio**: up to 50% (August 2013).
- Limiting maximum term: 30 years (August 2013).
- \* Higher capital requirements:
  - for housing loans with LTV exceeding 45% (March 2013);
  - for housing loans with 40%<PTI<50 (August 2013).
- **Supplemental reserve** for housing loans (March 2013).
- **Capital buffer:** requiring banks to increase their Common Equity (September 2014).



# Some Tentative Lessons for CBs in SOEs

- □ The burden on CBs has increased dramatically since the GFC
- Monetary policy in major central banks affect SOEs via the exchange rate & asset prices, thus affecting inflation, growth and financial stability.
- □ There is more CBs can do, even when they reach an interest rate of zero.
- Using MAP measures allows focusing monetary policy on its main objectives: inflation and growth



# Some Tentative Lessons for CBs in SOEs (continued)

- Using a combination of policy instruments allows using each at lower dosage; this "buys time".
- Using various MAP measures reduces diminishing return of each, and reduces incentives for circumventing.
- Each of the unconventional measures has risks that need to be recognized and managed.



# Thank you