Credit Expansion and Credit Misallocation

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Motivation

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- Common aim: save the real economy from recession
- Outcomes (esp. emerging markets):
 - Economic stimulus with liquidity injections often ineffective
 - Meanwhile, booms in other sectors

Evidence

Evidence – China

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- Bank lending doubled over 2008-10

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Evidence – Aggregate Credit



Source: Cong, Ponticelli (2017)

Evidence – Housing Boom (Beijing)



Source: Fang, Gu, Xiong, Zhou (2015)

Evidence – Housing Boom (Shanghai)



Source: Fang, Gu, Xiong, Zhou (2015)

Evidence – Commodities Boom



Evidence – China

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Financial sector

- Real estate
- Commodities
- Stock market booms

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Real sector

- SMEs' difficulty in obtaining credit after stimulus
 - Borrowing rates rose to 30% in some regions in 2010
 - Left out of credit market altogether

Evidence - China experience not unique

Traditional and unconventional monetary policies globally

US: credit easing

- Europe and Japan: quantitative easing
- Emerging economies: credit expansion

Evidence – China experience not unique

Traditional and unconventional monetary policies globally

- US: credit easing
 - Crowding-out of credit to real economy Chakraborty, Goldstein, MacKinlay (2013)
 - Asymmetric effects on financial & real sectors
 Chakraborty, Goldstein, MacKinlay (2016)
- Europe and Japan: quantitative easing
- Emerging economies: credit expansion

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2. What is the effect of monetary policy on asset prices?

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Asset market boom

Excessive liquidity creates crowding-out, hurting the real economy

Liquidity supply











Intuition



Intuition



The Crowding-out Effect

Asset price responses are asymmetric across sectors



Liquidity and asset prices in reinforcing cycle



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Two-sector economy: two opposing and self-reinforcing cycles



Optimal liquidity injection Q*

Optimal liquidity injection $Q^* = Q' + Q''$



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Intuition: Liquidity in Sector $II \uparrow \longrightarrow$ Interest rate $\uparrow \longrightarrow$ Liquidity in Sector $I \downarrow \uparrow$

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- Excessive monetary policy distorts credit market curtailing economics stimulus
- Limits of 'blunt' market-based policy
- Understanding micro-foundation of (credit) market important for policy design