

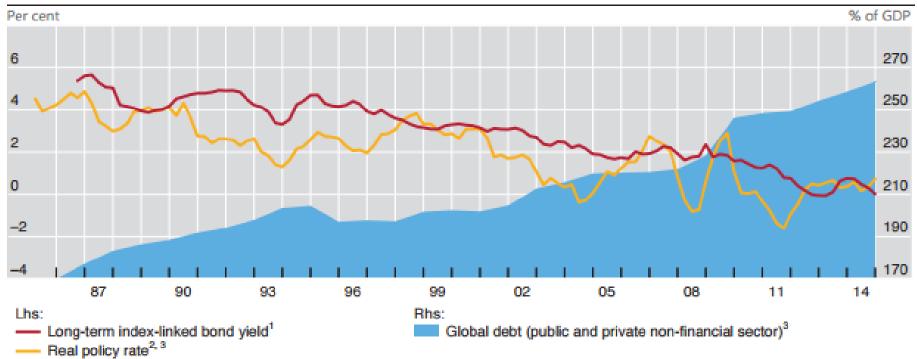
Mission (im)possible: connecting bank credit, money creation and economic imbalances

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Reassessing the role of credit (1)

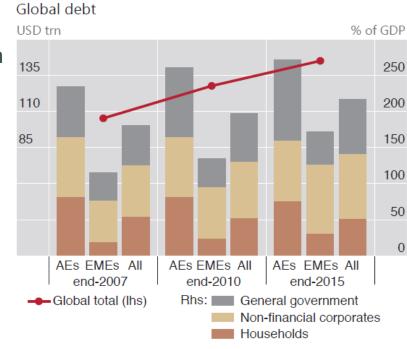


Source: BIS (2016).



Reassessing the role of credit (2)

- ► Traditional "intermediation of loanable funds" view: credit is just temporary reallocation of resources between savers and borrowers
- ► Financing through money creation view: "the key function of banks is the provision of financing, or the creation of new monetary purchasing power through loans" (Jakab and Kumhof, 2015).
- "Debt has been acting as a political and social substitute for income growth for far too long" (BIS, 2016)



Source: BIS (2016).



If FMC holds, economic implications are immense

- Bank credit is not predicated on savings
- Bank credit creates money (deposits) and purchasing power
- Bank credit directly adds to aggregate demand
- This is in stark contrast with traditional view of banks as financial intermediaries (saving → deposits → credit)
- ► Traditional view is still embraced in almost all mainstream models, including state-of-theart DSGE models used for monetary and macroprudential policy analysis



Non-bank lenders attract funds to lend them out

Non-bank lender

Assets Liabilities

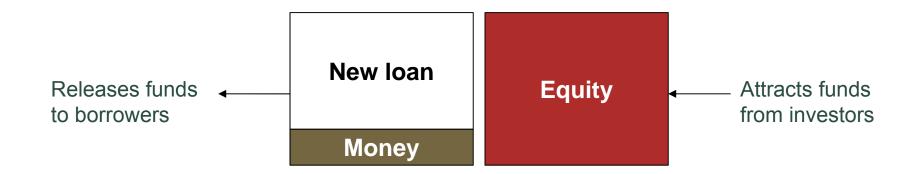
Money holdings Equity Attracts funds from investors



Non-bank lenders attract funds to lend them out

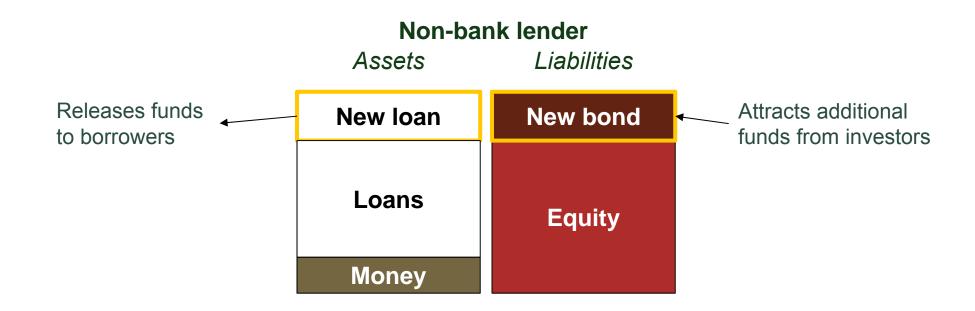
Non-bank lender

Assets Liabilities





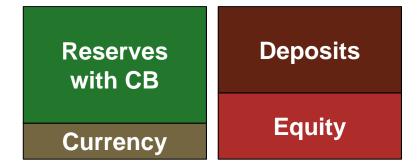
Non-bank lenders attract funds to lend them out





Banks are special: credit creates deposits (money)

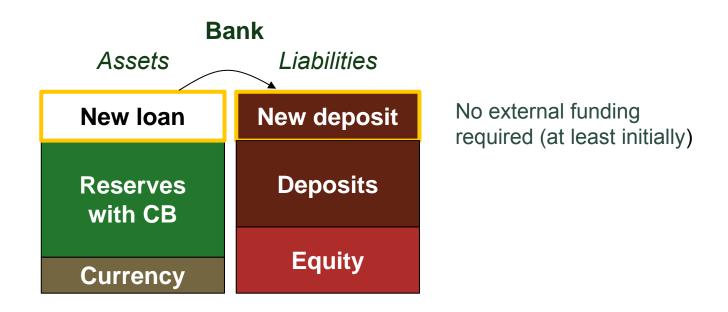




Source: adapted from McLeay, Radia and Thomas (2014).

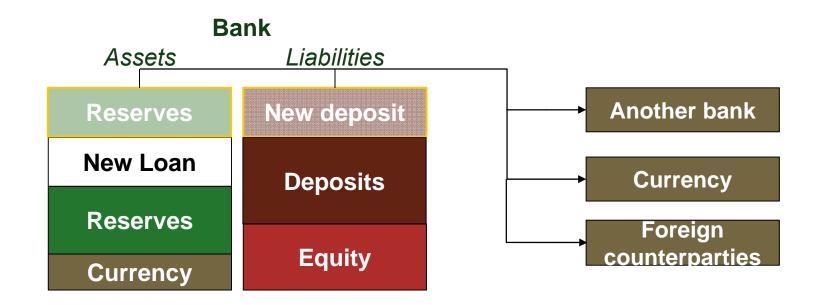


Banks are special: credit creates deposits (money)



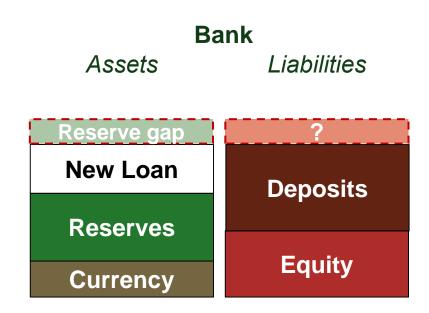


Credit is self-financing, unless deposits are redeemed



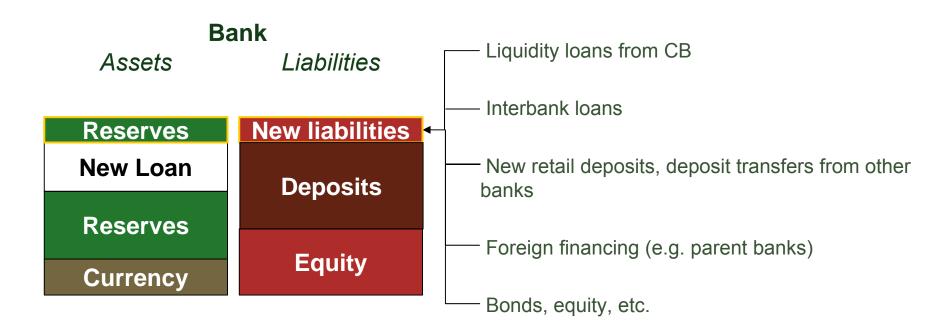
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In that case there is need for external financing to ensure sufficient liquidity





But CBs usually provide liquidity on demand

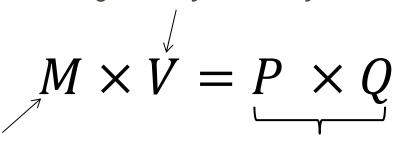




Credit in the context of "equation of exchange"

Non-bank lenders may contribute to rising **velocity of money**

Nominal GDP



Bank credit increases money stock and acts a strong stimulus on nominal GDP



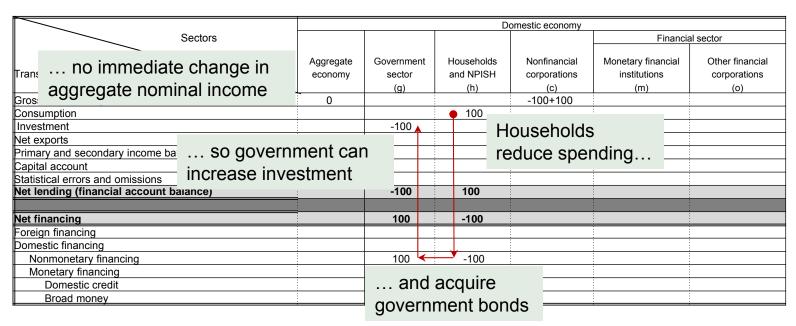
Integrated accounts (IA) analysis – a way forward?

		Domestic economy					
Sectors					Financial sector]
Transactions	Aggregate economy	Government sector (g)	Households and NPISH (h)	Nonfinancial corporations (c)	Monetary financial institutions (m)	Other financial corporations (o)	Rest of the world
Gross national disposable income							
Consumption							
Investment			<u> </u>		:		
Net exports		Economic accounts record economic transactions among sectors					
Primary and secondary income balance							
Capital account							
Statistical errors and omissions							
Net lending (financial account balance)							
Net financing							
Foreign financing							
Domestic financing		Financial accounts record corresponding financial transactions					
Nonmonetary financing							
Monetary financing							
Domestic credit							
Broad money							

Source: adapted from IMF (2013) and Ramanauskas, Matkenaite and Rutkauskas (2016a,b).



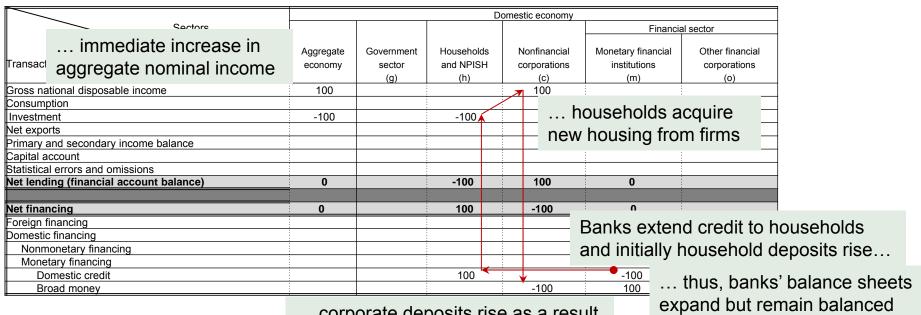
Example 1. Savings-led spending – no immediate impact on aggregate demand and activity



Note on sign convention: rise in income "+", rise in spending "-", rise in net financial liabilities "+".



Example 2. Bank credit -led spending – immediate impact on aggregate demand and activity



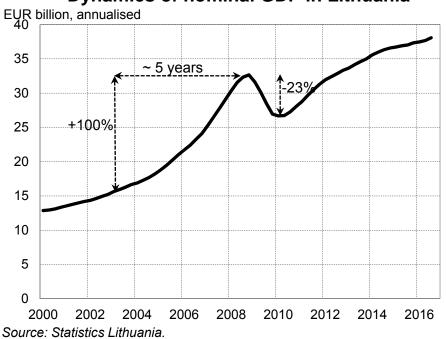
... corporate deposits rise as a result (corporates look like "savers")

Note on sign convention: rise in income "+", rise in spending "-", rise in net financial liabilities "+".



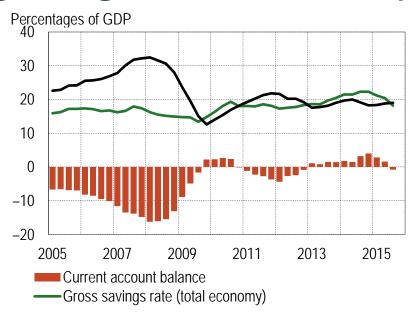
We have experienced a remarkable boom-and-bust economic cycle supercharged by credit

Dynamics of nominal GDP in Lithuania





During boom, investment vastly exceeded saving, resulting in large current account (CA) deficits

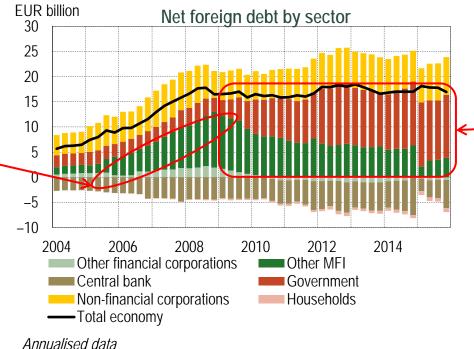


Note: 4 quarter moving sums. Sources: Statistics Lithuania and Bank of Lithuania.



CA deficits were mainly financed by "hot" capital inflows through the banking sector

Banks rapidly accumulated net foreign debt from parent banks

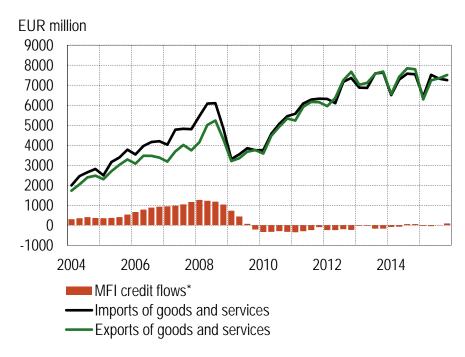


Foreign financing flowed from the banking sector; outflows were almost exactly offset by stepped up government borrowing

Source: Financial accounts of Lithuania.



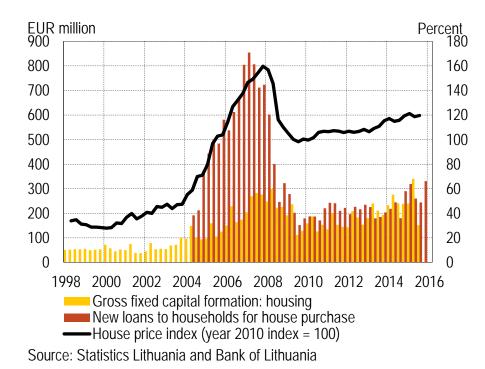
Trade deficits were closely linked to excessive credit



* 4 quarter moving average Source: Financial accounts of Lithuania.

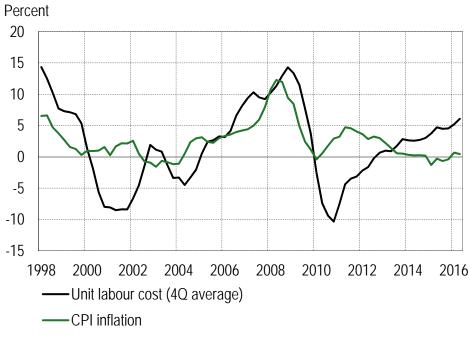


Credit-fuelled demand for housing and sluggish supply → explosive house price developments





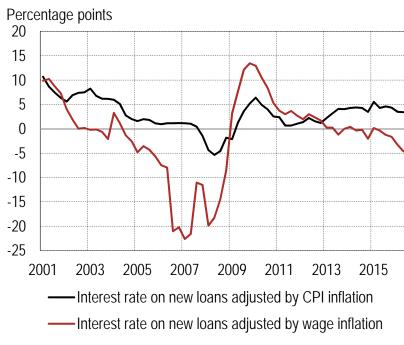
Credit-driven domestic demand resulted in wage and price pressures...



Sources: Statistics Lithuania and authors' calculations.



...which in turn lowered real rates. And who wouldn't borrow at such rates?



Source: Statistics Lithuania and Bank of Lithuania.



What we've learned from the full boom-bust cycle

- Bank credit is a powerful demand-side stimulus but is also often a source of economic and financial imbalances and risks
- Low indebtedness represents some sort of "national resource", or untapped growth potential, and must be dealt with wisely by policy makers
- Credit shouldn't create wasteful spending and excessive purchasing power
 - Macropru policies come to the fore in the low interest rate environment
 - In LT we tend to be on the restrictive side
 - Borrower based measures since 2011: LTV 85%; DSTI 40%; Maturity 30y.



References

- BIS (Bank for International Settlements) 2016: 86th Annual Report.
- Jakab Z., Kumhof M. 2015: *Banks Are Not Intermediaries of Loanable Funds And Why this Matters*. Bank of England, Working Paper No. 529.
- IMF (International Monetary Fund) 2013: Financial Programming and Policies.
- McLeay M., Radia A., Thomas R. 2014: Money creation in the modern economy. Bank of England Quarterly Bulletin 54(1), 14–27.
- Ramanauskas T., Matkėnaitė S., Rutkauskas V. 2016a: *Credit and money creation from the integrated accounts perspective.* Monetary Studies (1), 5–29.
- Ramanauskas T., Matkėnaitė S., Rutkauskas V. 2016b: Application of the integrated accounts framework for empirical investigation of the economic and financial cycle in Lithuania. Monetary Studies (1), 61–79.