

Sterilized FX Interventions May Not Be So Sterilized

Shalva Mkhatrishvili

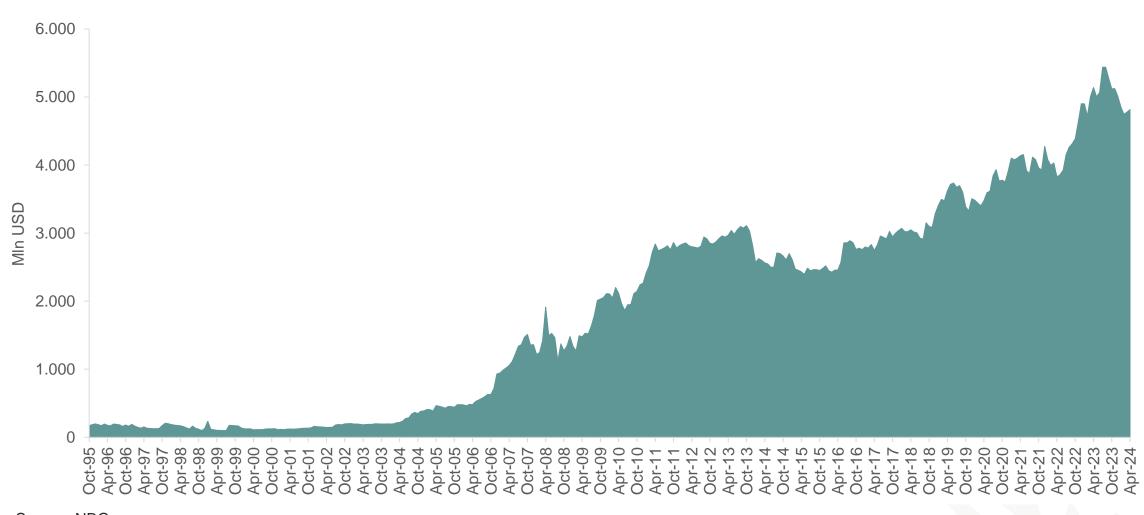
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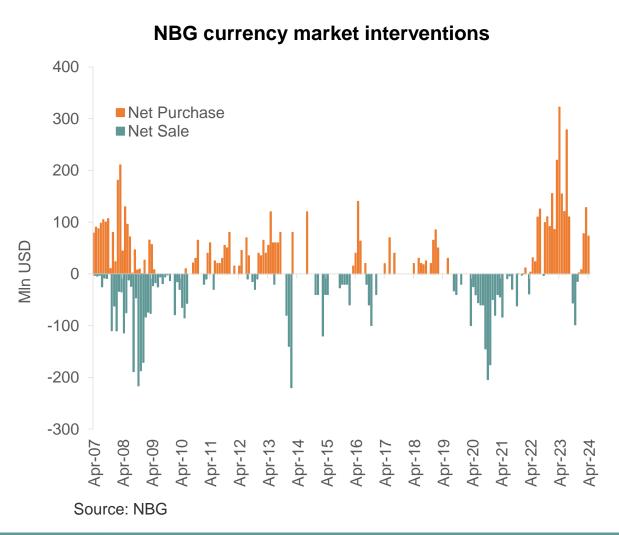
- Motivation
- Potential side effects of sterilized FX interventions
 - Affecting the size of unencumbered collateral and, hence, long-term rates
 - Affecting domestic currency broad money aggregates
- Comparison to "standard" QE
- Concluding remarks

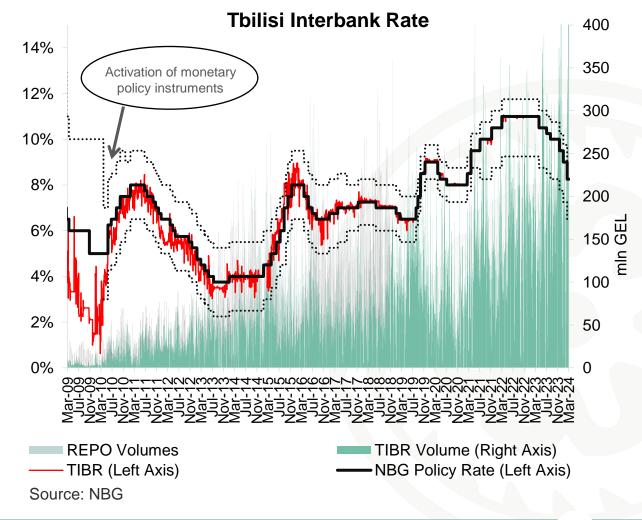
Backdrop: FX reserves of the NBG rising



Source: NBG

LOOK!.. It's STERILIZED!





Sterilized FX interventions may not be so sterilized



No (direct) impact on short-term money market rates

← definition of sterilization



Potential direct impact on DC (long-term) lending interest rates

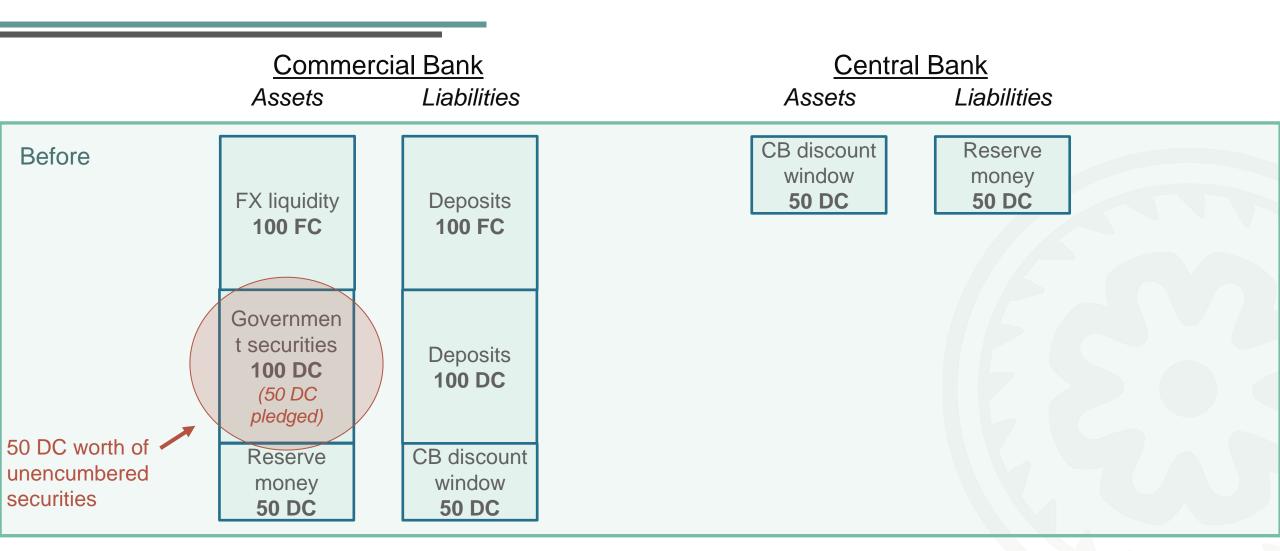
← depending on CB collateral policy



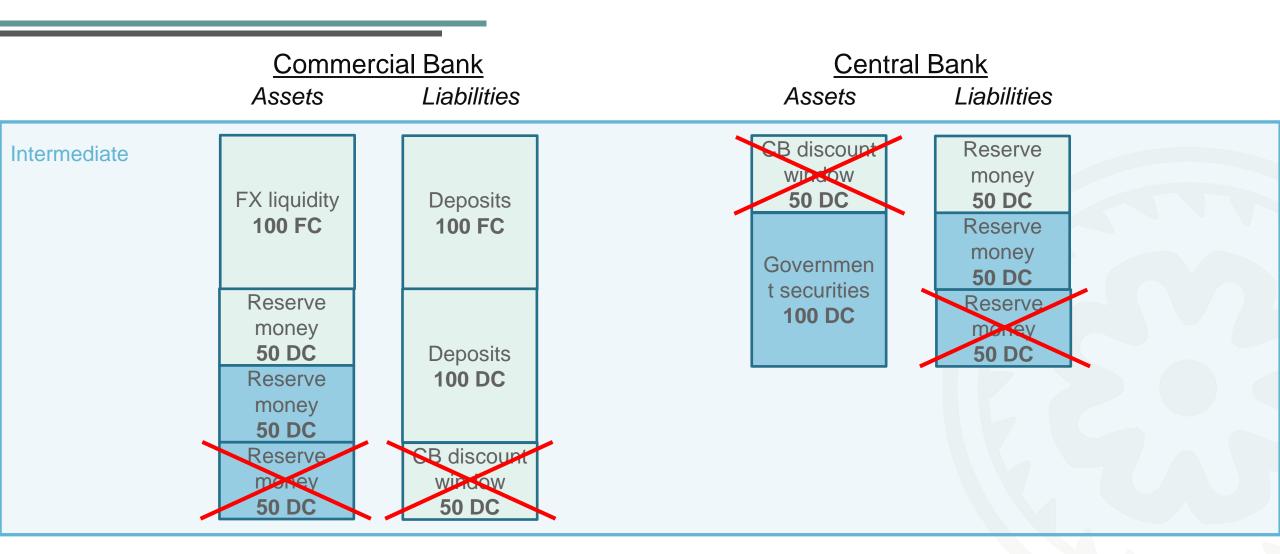
Potential direct impact on DC broad money aggregates

← given banks have closed FX position

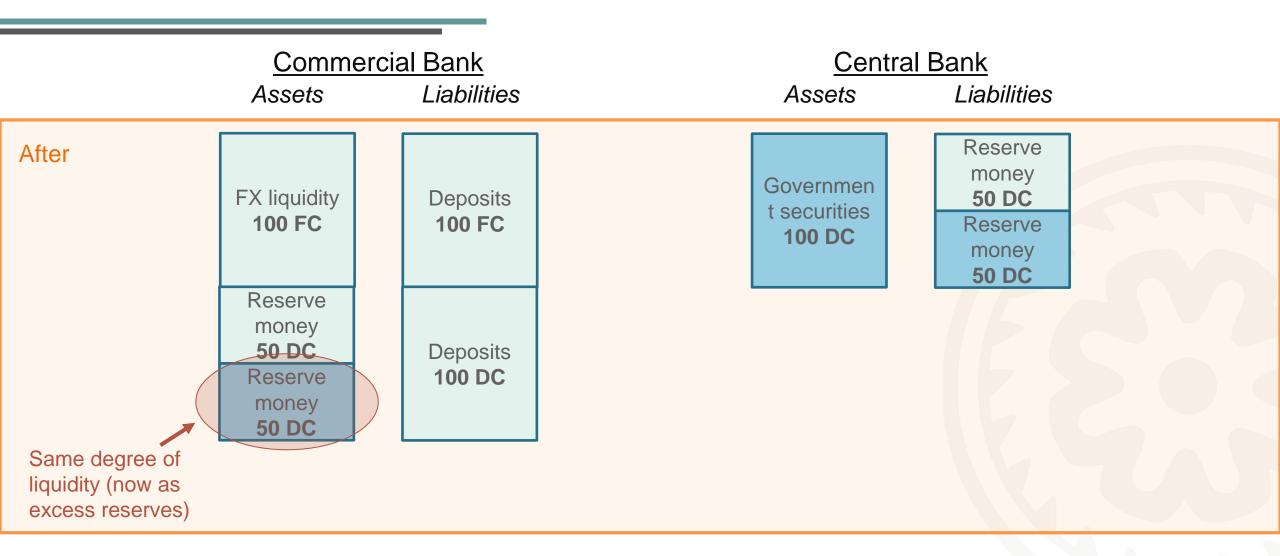
Standard QE for comparison: initial balance sheets



Standard QE for comparison: operations



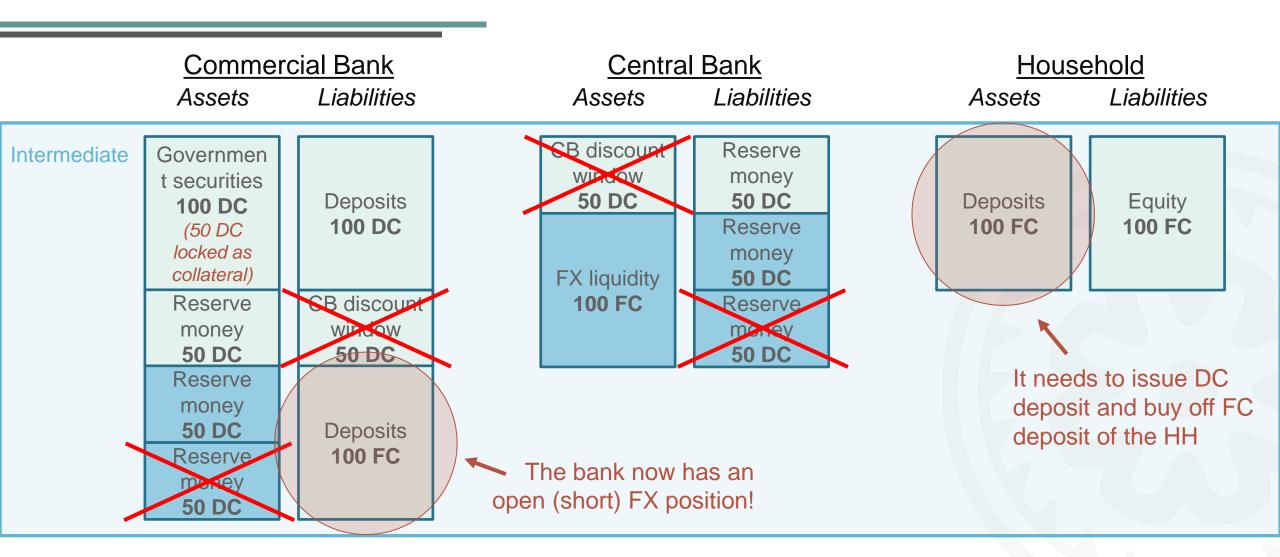
Standard QE for comparison: after the QE



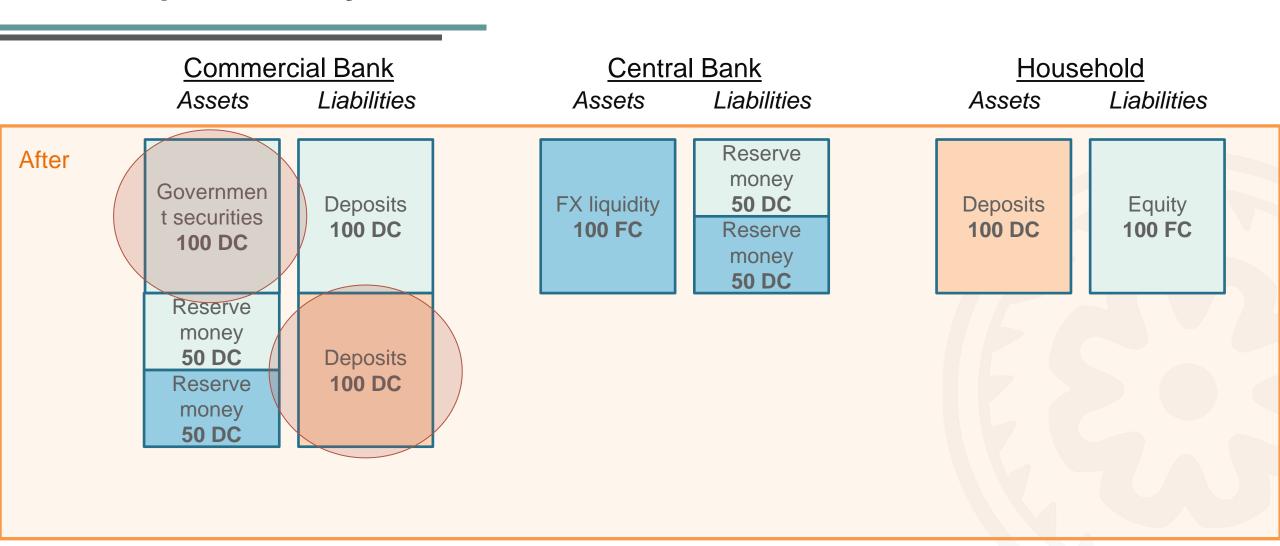
FX purchase by a central bank: initial balance sheets

			_				
	Commercial Bank Assets Liabilities		<u>Centr</u> Assets	Central Bank Assets Liabilities		<u>Household</u> Assets Liabilities	
Before	Governmen t securities 100 DC (50 DC pledged as collateral) Reserve money 50 DC FX liquidity 100 FC	Deposits 100 DC CB discount window 50 DC Deposits 100 FC	CB discount window 50 DC	Reserve money 50 DC	Deposits 100 FC	Equity 100 FC	

FX purchase by a central bank: operations



FX purchase by a central bank: after the FXI



QE versus FXI: central bank

After QE

After FXI

Central Bank

Assets

Liabilities

Governmen t securities 100 DC

Reserve
money
50 DC
Reserve
money
50 DC

Central Bank

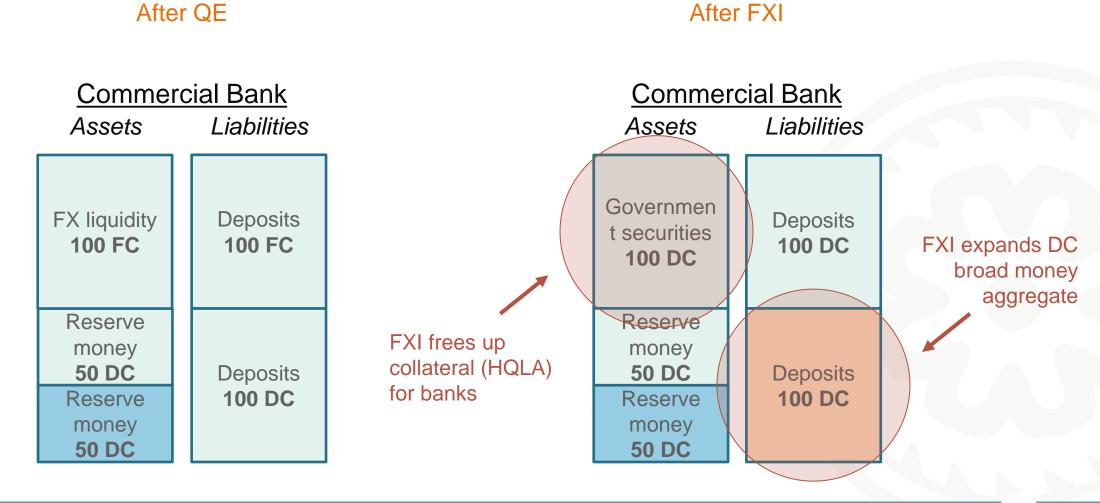
Assets

Liabilities

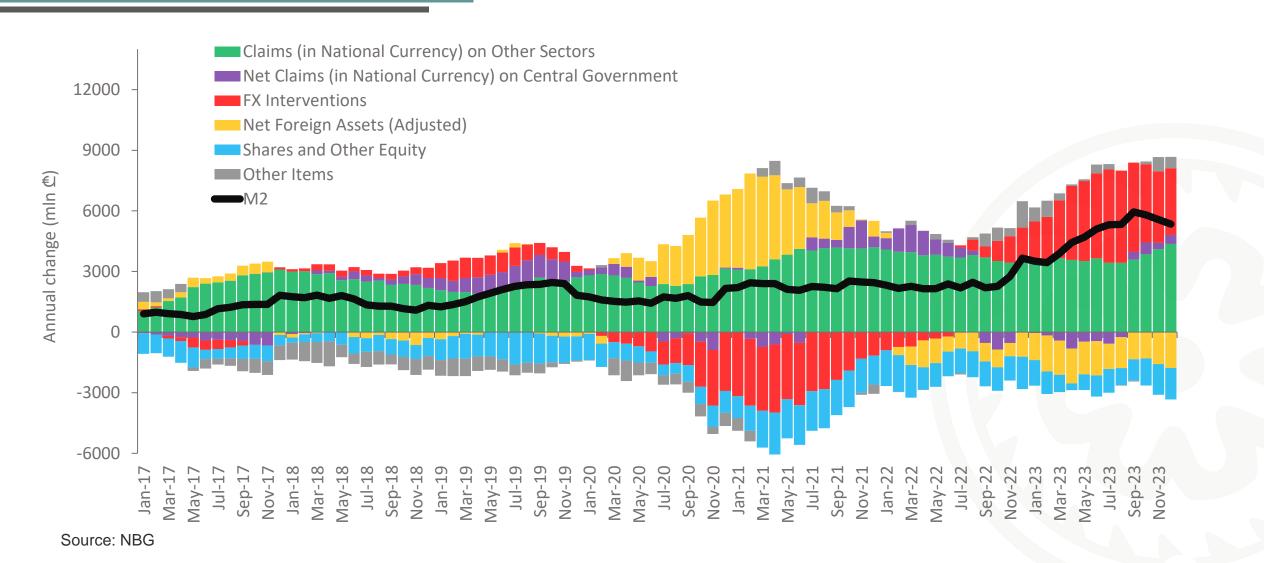
FX liquidity
100 FC

Reserve money 50 DC Reserve money 50 DC

QE versus FXI: commercial bank



Bank lending creates broad money, but so does FXI



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Potential side effects of sterilized FXI



No (direct) impact on short-term money market rates

← definition of sterilization



Potential direct impact on DC (long-term) lending interest rates

← depending on CB collateral policy



Potential direct impact on DC broad money aggregates

← given banks have closed FX position

Thank you!

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Link to the paper:



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