Márton Nagy | Deputy Governor Barnabás Virág | Executive Director



Columbia University | 6 June 2019

# THE ROLE OF BALANCE SHEETS IN THE NEW NORMAL



# THE ROLE OF BALANCE SHEETS IN THE NEW NORMAL



### BRIEF HISTORY OF CENTRAL BANKING



Inflation targeting has spread across the world from the '90s

#### COUNTRIES PURSUING INFLATION-TARGETING POLICIES ACCOUNT FOR 70 PER CENT OF THE GLOBAL ECONOMY





## IN THE PAST DECADES CENTRAL BANKS WERE SUCCESSFUL AT BRINGING INFLATION DOWN, BUT...



Inflation in advanced economies (G7 countries) Source | OECD

## ...IN THE MEANTIME SIGNIFICANT AMOUNT OF DEBT ACCUMULATED AND FINANCIAL IMBALANCES EMERGED



Indebtedness by sectors in advanced and developing economies Source | BIS

MONEY CREATION



### Who creates money?



### **Central banks and/or commercial banks?**

#### NOWADAYS AROUND 90 PERCENT OF MONEY IS ALREADY IN DIGITAL FORM GLOBALLY







#### THERE ARE TWO DIFFERENT VIEWS:



#### AT THE OUTBREAK OF THE CRISIS TOO BIG TO FAIL ISSUES HAVE AROSE: BAILOUT OR BANKRUPTCY?









#### AFTER REACHING THE EFFECTIVE LOWER BOUND CENTRAL BANKS TURNED TO UNCONVENTIONAL POLICY TOOLS





Balance sheet policies (quantitative easing, qualitative easing, targeted asset purchases)

Forward guidance (in order to shape longerterm expectations)



The way of financing differs considerably among advanced economies:



#### AS A RESULT OF UNCONVENTIONAL POLICIES THE SIZE OF CENTRAL BANK BALANCE SHEETS HAS MULTIPLIED



Balance sheets of the major central banks Source | ECB, Fed, BoJ

#### ALTHOUGH BALANCE SHEETS HAVE INCREASED SIGNIFICANTLY, RECOVERY WAS SLOW AFTER THE CRISIS







#### Euro Area



Actual and trend GDP in the USA and in the euro area Source | OECD, MNB

### HOWEVER, THE PRICE INCREASE OF SOME FINANCIAL ASSETS WAS REMARKABLE



#### ADDRESSING "TOO BIG TO FAIL" ISSUES



#### **BOOM AND BUST – SHOULD MONETARY POLICY REACT?** IF YES, WHEN AND WHERE?





*#panic #chrashes #fire sale #liquidity shortage #deleveraging #lender of last resort #NPL #cherrypicking #creditcrunch* 



## AFTER THE CRISIS, A MACRO-FOCUSED APPROACH TO FINANCIAL STABILITY RISKS HAS GAINED ATTENTION



Source | JVI

#### HUNGARIAN CASE STUDY: WIDE RANGE OF MACROPRUDENTIAL INSTRUMENTS

Other assets



Other liabilities

regulation: MFAR

PTI, LTV

regulation: MFAR

#### LESSONS LEARNED FROM THE CRISIS







Uncontrolled money creation of the banking sector created asset bubbles instead of financing productive investments

#### A SMALL OPEN ECONOMY IN THE HEART OF EUROPE





Source | WDI, HCSO, MNB

#### A SMALL OPEN ECONOMY IN THE HEART OF EUROPE





#### HIGHER AVERAGE GROWTH THAN IN WESTERN EUROPE OR IN MOST NEIGHBOURING COUNTRIES





### **GROWTH MAP**

OF THE MEMBER STATES OF THE EUROPEAN UNION (2013-2019)

Source | Eurostat

#### FAVOURABLE ECONOMIC DEVELOPMENTS WERE REFLECTED BY IMPROVING DEBT RATINGS BACK INTO INVESTMENT GRADE



DEVELOPMENTS IN HUNGARY'S DEBT RATING Source | Bloomberg

#### MNB HAS MET ITS INFLATION TARGET, FOCUS SHIFTED TO ITS MAINTAINANCE



DEVELOPMENTS IN INFLATION Source | HCSO, MNB

#### THE FX RATIO OF PUBLIC DEBT DECREASED SIGNIFICANTLY AS A RESULT OF THE SELF-FINANCING PROGRAMME



# MNB USED CONVENTIONAL AND UNCONVENTIONAL TOOLS AT THE SAME TIME



HUNGARIAN BASE RATE AND TIMING OF UNCONVENTIONAL INSTRUMENTS

Note: \*Monetary policy interest rate swap (IRS) faciliy and the Morgage Bond Purchase Programme

Source | MNB

# MNB'S MEASURES PUSHED DOWN SHORT-TERM INTEREST RATES WITHIN THE INTEREST RATE CORRIDOR





DEVELOPMENTS IN SHORT-TERM MONEY MARKET YIELDS WITHIN THE INTEREST RATE CORRIDOR

### UNLIKE ADVANCED COUNTRIES' CENTRAL BANKS, THE MNB REACTED TO THE CHALLENGES IN A TARGETED WAY





#### BALANCE SHEET POLICY IN HUNGARY WAS DIFFERENT





MNB

**On-balance sheet policy** 

Fed,

ECB,

BoJ

Increasing the size of the balance sheet (e.g. asset purchases)

Affects liquidity by increasing the balance sheet

**Off-balance sheet policy** 

Changing the structure of the balance sheet (e.g. IRS, FX swaps)

Affects liquidity <u>without</u> increasing the balance sheet

# FUNDING FOR GROWTH SCHEME WAS A TARGETED PROGRAMME WITH A MAIN FOCUS ON THE SME SECTOR







#### SIZE AND COMPOSITION OF THE HUNGARIAN MORTGAGE BOND MARKET

Purchase programme targets residential mortgage backed fixed-rate bond

- MNB purchased only fixed-rated mortgage bonds
- Secondary market presence lowered yields and spreads
- Focus on the primary market to support fixed-rated mortgage lending
- Total purchases reached 316 bn HUF (~1 bn EUR)
  - Primary: 191 bn HUF (60 pct)
  - Secondary 125 bn EUR (40 pct)
- Net issuances of fixed-rate mortgage bonds rose to 400 bn HUF (~1.2 bn EUR)

#### MNB WILL LAUNCH ITS BOND FUNDING FOR GROWTH SCHEME IN JULY 2019

- In order to improve the efficiency of the monetary transmission mechanism
- To promote the diversification of financing
- To strengthen financial stability and increase the liquidity of the corporate bond market
- In case of crisis, the possibility of fast and efficient central bank intervention

Total amount	HUF 300 bn (0.7 percent of GDP)
Start of the purchase	1 July 2019
Issuers of the bonds to be purchased	domestic non-financial corporations
Credit rating of the bonds to be purchased	at least B+
Denomination of the bonds to be purchased	HUF
Original maturity of the bonds to be purchased	Min. 3 years, Max.10 years
Proportion of MNB's purchase per bond series	max. 70 percent
Maximum exposure of the MNB per corporate group	HUF 20 bn
Minimum volume per issuance	HUF 1 bn
Sterilisation of the excess liquidity arising from the purchases	by the preferential deposit facility

#### REAL INTEREST RATES ARE LIKELY TO REMAIN BELOW THEIR HISTORICAL AVERAGE



Real interest rates in the G7 economies (equal weighting)

# NOT JUST CYCLICAL BUT ALSO STRUCTURAL FACTORS ARE INFLUENCING GROWTH, INFLATION AND INTEREST RATES





#### EFFECT OF DIGITAL TECHNOLOGICAL PROGRESS ON INFLATION DEVELOPMENTS



**Most important inflationary channels of the Internet and digitalisation** Source | Riksbank (2015)





HIGH DEBT BURDENS POSE A CONSIDERABLE CHALLENGE FOR CENTRAL BANKS AS WELL





Is it possible for central banks to increase interest rates significantly or unwind their balance sheets if needed under these circumstances?





#### BELIEF IN MONEY IS FAR MORE IMPORTANT THAN THE PHYSICAL FORM OF IT





#### ADJUSTED TO NEEDS, MONEY HAS TAKEN NUMEROUS FORMS IN THE COURSE OF HISTORY

46







### Who creates money?



#### CENTRAL BANKS ARE ALREADY FOCUSING ON THE FUTURE OF MONEY AND ITS POTENTIAL IMPLICATIONS





### **E-money**

### Central bank digital currency (CBDC)







#### Searching for new solutions that are...





#### COMPLEX, LONG-TERM EFFECTS MUST BE CONSIDERED







# THANK YOU FOR YOUR ATTENTION!

