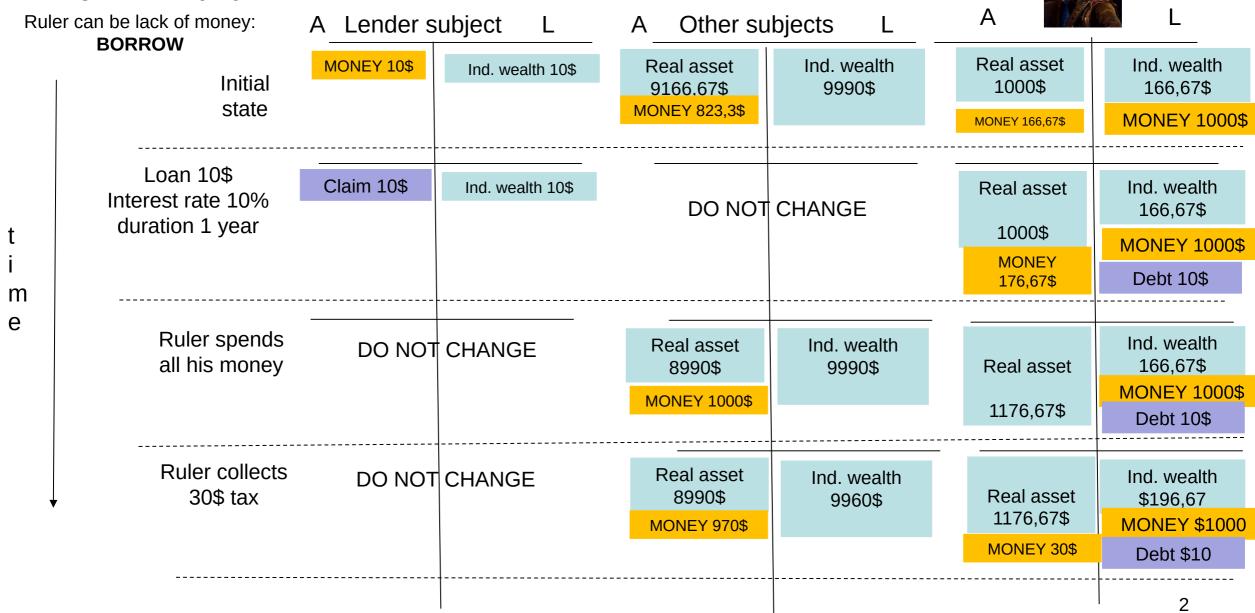
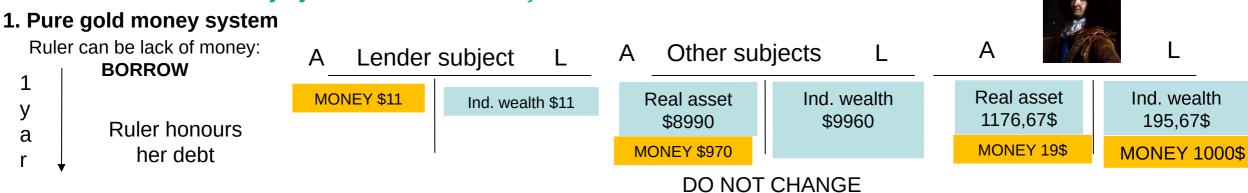
3.3.2 Evolution of monetary systems : economic analysis L. Pure gold money system – purchase created money

1. Pure gold money system – purchase created money by the seigneur (= state) Gold content 0,3gr/ 1\$ Α Subjects charge: 0,06gr gold / coin Real Asset Individual wealth Real asset 1000\$ Initial state 1000\$ 10000\$ Individual wealth out of which gold: 10000\$ 300g=833,3\$ Real Asset Individual wealth Real asset Individual wealth Gold handed over 1833,3\$ 1000\$ 9166,67\$ to the ruler for out of which gold 1000\$ EMISSION 10000\$ mintage Debt 833,3\$ 833,3\$ Claim 833,3\$ Cost of 1000\$: Real Asset Individual wealth 300gr gold = 833,3\$ Mintage 166.67\$ 1000\$ DO NOT CHANGE (gold is used up) Debt 833,3\$ Ruler constraints his own **MONEY 1000\$ MONEY 1000\$** money sovereignty, because of fixing the gold content of coins Real Asset Individual wealth Real asset Individual wealth 1000\$ Honour debt 9166,67\$ 166,67\$ 10000\$ **MONEY 1000\$** MONEY 833,3\$ MONEY 166,67\$ Ruler can be lack of money

Ruler can purchas for 166,67\$ anyhing he whishes (seigniorage)

1. Pure gold money system





How to increase profits in a year?

2. End of pure gold money system: birth of private banks

Possibility of new lending

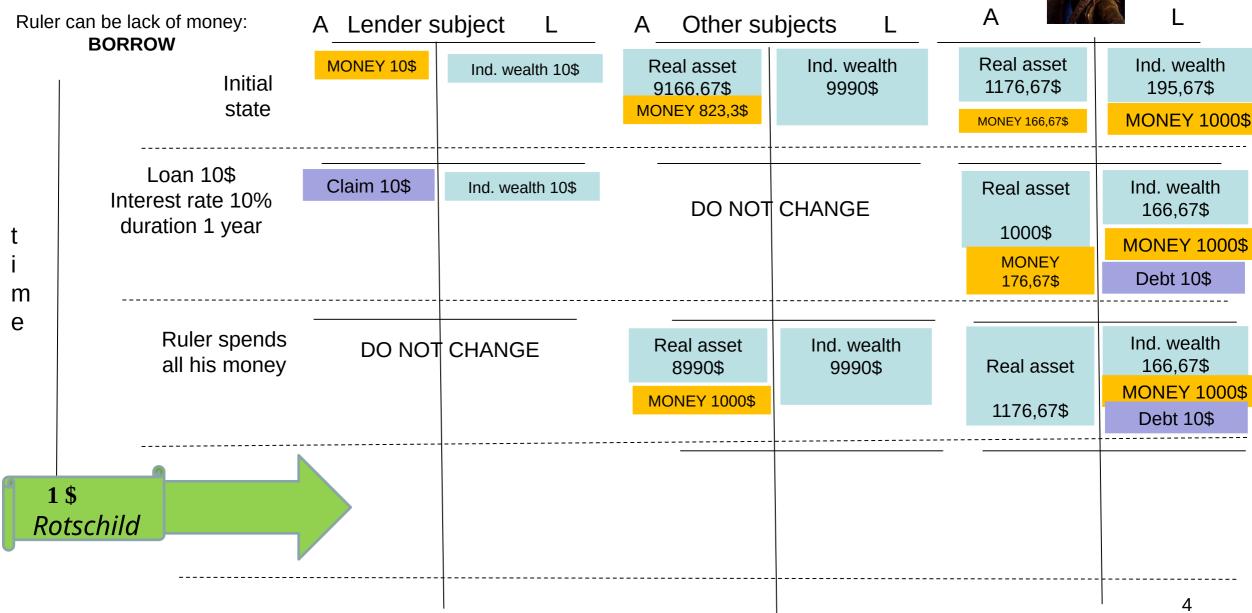
Use other's money!

Banknote emission

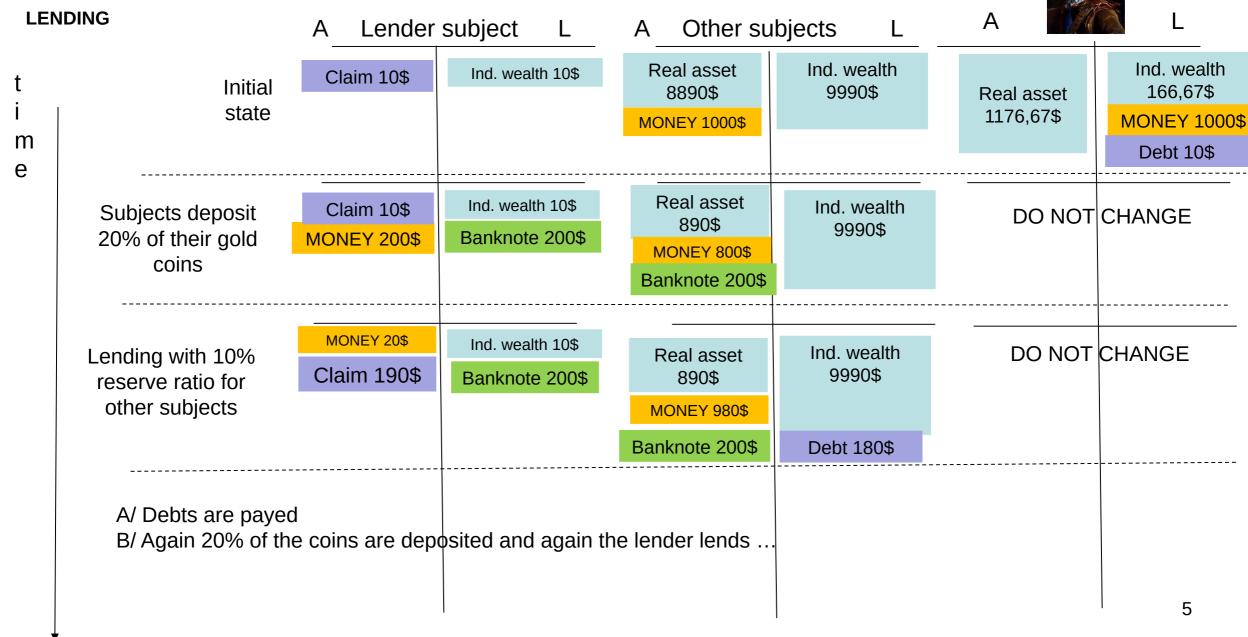


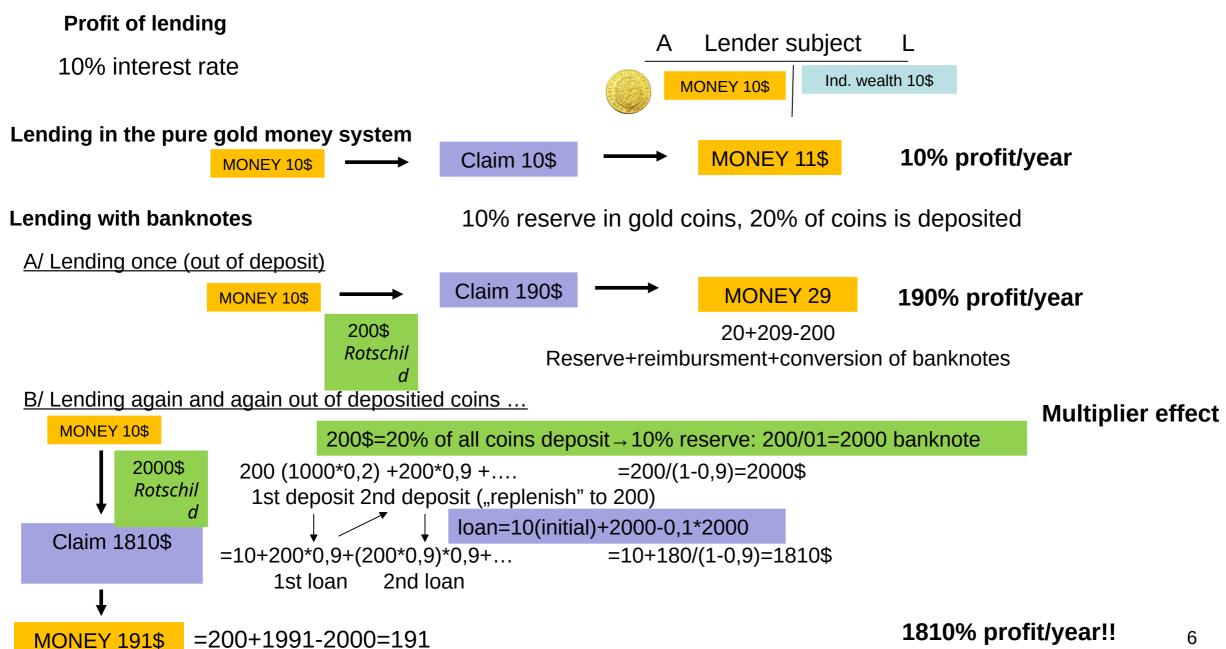
This banknote is a **debt!**

2. End of pure gold money system: birth of private banks

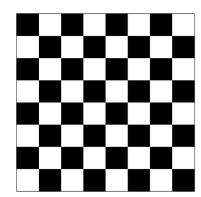


2. End of pure gold money system, birth of private banks





Profit of lending



If "only" doubles her money (100% profit rate)

- Place one grain of wheat on the first square, two on the second, four on the third and so on, double the number of grains on each subsequent square told Sissa and the wheat placed on the board is my reward.
- This is a modest request. the king smiled.

Price of the chess=1+2+2²+...+2⁶³

If the lender just doubles his 1\$ over 63 years : 2^{63} = 9 223 372 036 854 775 808 =9,2*10¹⁸

In evidence, this is impossible; however illustrates the strong wealth concentration effect of lending.

End of pure gold money system, birth of private banks: banknote and lending

PROPOSITION

If the State is indebted toward private agents, then banknotes (bank's debt enforcable in terms of high powered money) issued by these private agents necessarily become money; the state *de facto* looses its money power.

Because ...

Pyre gold money system

Ruler (state) high powered money

Lender private debt → private money

Fractional reserve – often bankrupcies







Solution:

SOCIAL PROBLEM

PRIVATE PROBLEM

bank is insolvent = bank's debt disappears = money disappears → monetary economy stops well-functioning

B. SOLUTION IN THE INTEREST OF PRIVATE BANKERS: Gold standard monetary system

3. Gold standard monetary system

The private bank of privat banks disguised as national bank

1694-: Bank of England

1791-1811: First Bank of the United States;

1816-1836: Second Bank of the United States:

1913-: Federal Reserve System

Right to issue paper money backed by gold







main lender of the government

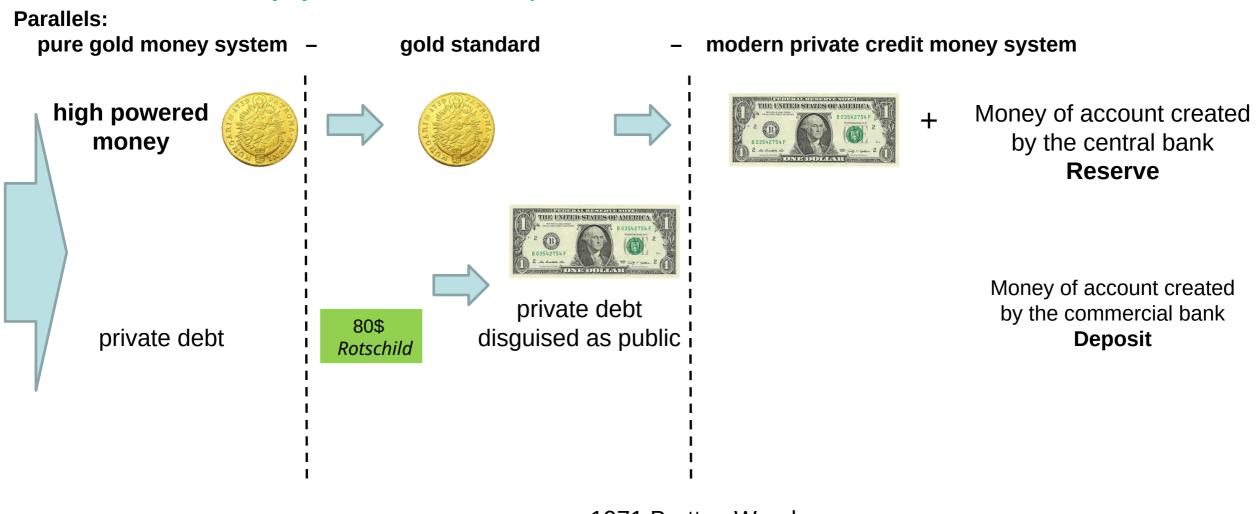
4. Two tier banking system Central Bank

As they exist today, the role of central banks is to maintain the "financial stability" of the private banking system.

exclusive right to issue paper money

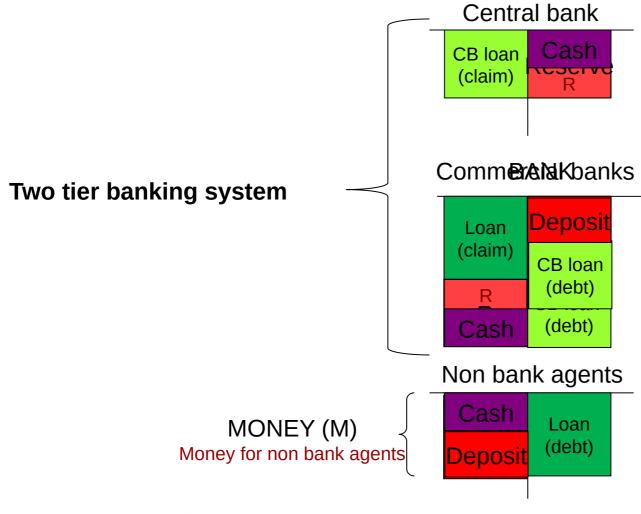
1971 Bretton Woods: \$ is not linked to gold anymore

Not allowed to lend to the government (as a main rule)



1971 Bretton Woods -

4. Modern credit money system



Monetary base / High powered money Money for all economic agents



4. Modern credit money system (without cash): government loan

Is the central bank able to restrict the money creation of private banks by refusing lending to them?

For that eventuality central bank should not accept government bonds.

 \rightarrow NO

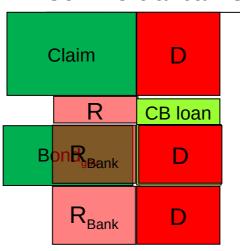
Access to extra reserves

Central bank

CB loan R_{Bank}

Bond_{gov}

Commercial banks



Non bank private agents



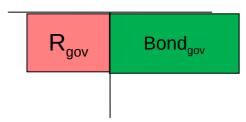
Tousend billion HUF

HUNGARY

Government bonds held by commercial banks_{2024jan}= 11,9

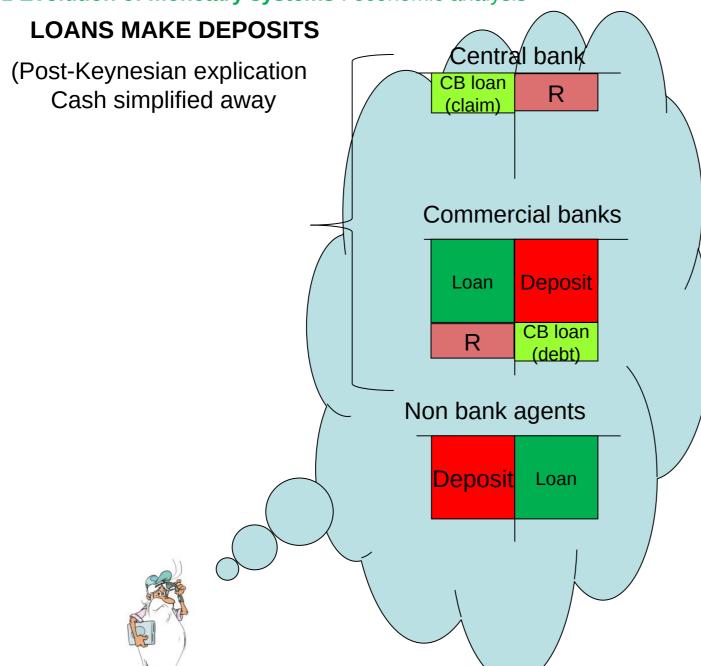
Thus, the quantity of (potential) reserves is enough for 1,8 times as much money stock

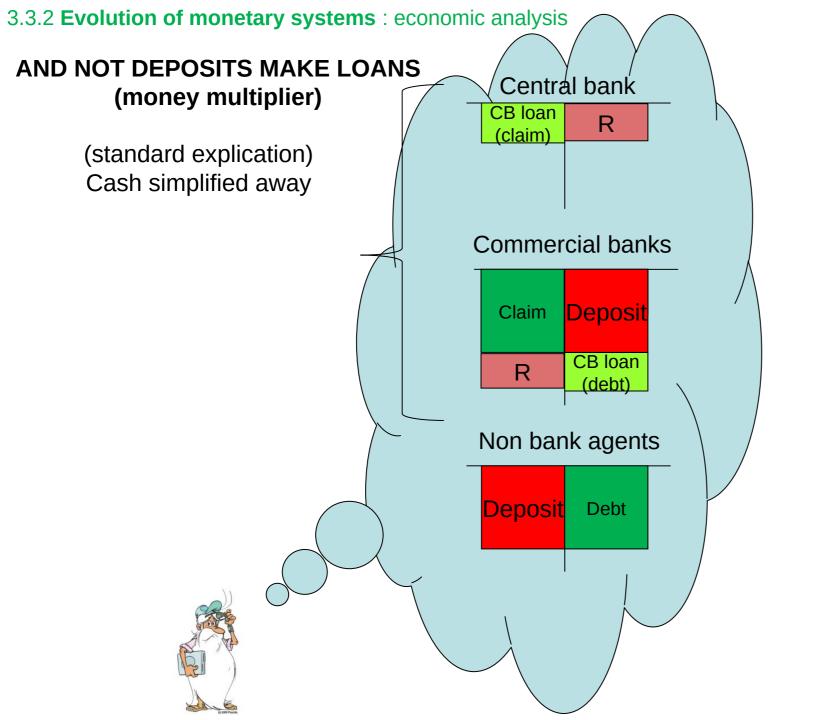
Government



money via purchase = treasury
has no right to take loans directly
from the central bank

States have no right to create





BECAUSE

BECAUSE (1)

Clearing (settlement of mutual debts) is Agent (B) takes a loan Central bank possible in principle without reserves and transfers 100 \$ to agent (A). among commercial banks! Afterwards, agent (A) transfers 100\$ to agent (B'). NO NEED FOR RESERVES **BEFORHAND TO CREATE MONEY** Commercial bank (A) Commercial bank (B) claim on Bank (B) Debt to Bank (B) D claim bt to bank (A) Claim on bank (A) D Non-bank agent (B') Non-bank agent (A) Non-bank agent (B) D D debt

BECAUSE (2)

Out of \$200 in coins, the lender can only lend \$180, while the reserve in coins is 10%?? What is the reserve ratio for the first loan?

In this example, the loan is in coins only. Banks now lend only in cash?

1000\$ coins, 10% reserve in gold coins, 20% of coins is deposited

B/ Lending again and again out of depositied coins ...

MONEY 10\$ 200\$=20% of all coins deposit → 10% reserve: 200/01=2000 banknote 2000\$ 200 (1000*0,2) +200*0,9 +... =200/(1-0,9)=2000\$ Rotschil 1st deposit 2nd deposit ("replenish" to 200) loan=10(initial)+2000-0,1*2000 Claim 1810\$ =10-200*0,9+(200*0,9)*0,9+... =10+180/(1-0,9)=1810\$ 2nd loan 1st loan

Multiplier effect

1810% profit/year!!