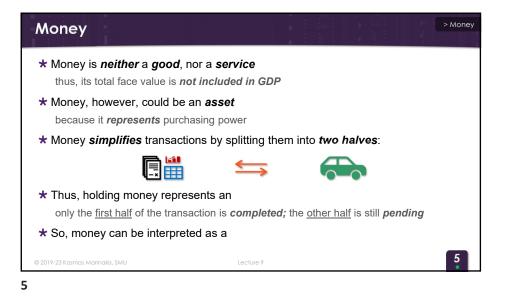


Previously in E&S... **★** Definition of growth exponential - catch-up - sustained growth * History of growth earlier societies - Malthusian cycles - Industrial Revolution ★ Inequality and poverty * The Solow growth model • production function – accumulation of capital – saving ★ Causes of prosperity climate, geography, culture, institutions, history and luck © 2019-23 Kosmas Marinakis, SMU







*The 3 roles of money:

1. Medium of exchange: an asset generally exchanged for goods and services
2. Store of value: an asset used to transfer purchasing power into the future
3. Unit of account: a universal standard used to measure value, price or cost.

* Various forms of money have existed throughout history
metals, animals, sea-shells, cigarettes, phonecards, computing power

* Anything can be used as money as long as it has the following properties:

• To be generally accepted as an objective value carrier

• To be controllable in quantity (not in abundance – not easy to counterfeit)

• To be portable and relatively durable

• To be non-destructively denominated.

There are 3 technologies of money:

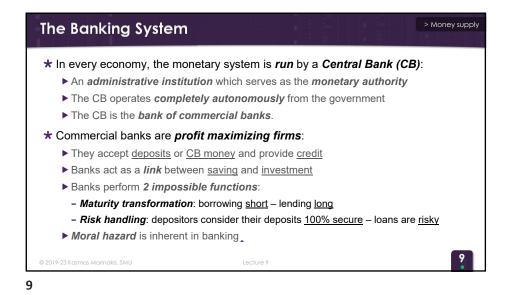
1. Commodity money: carries intrinsic value due to its nature or the value of the material it is made of

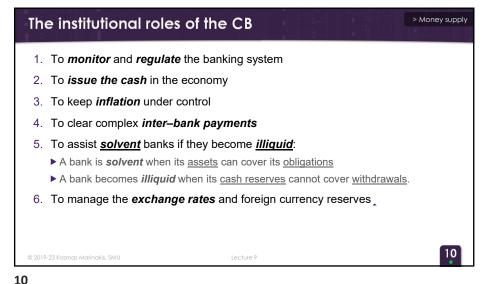
2. Commodity-backed money: carries no intrinsic value on itself but legally represents a fixed quantity of something else of intrinsic value invented around the 11th century in China

3. Fiat money: neither carries nor represents a fixed intrinsic value but is used as legal tender by government decree:
it is valuable only because everyone has agreed to accept it as money

* Today all economic systems have switched to using fiat money.







The money supply

* There are 2 main definitions of money supply:

| M1 = Cash held outside banks + checking accounts (checks, debit, contactless)
| M2 = M1 + saving accounts + money market accounts.

* M1 is more liquid (easier to be accepted for transactions) than M2 money in saving and money market accounts cannot be spent unless it is converted to M1 first

* In our analysis, we will mainly use the M1 money supply

* Cash reserves held by the Central Bank or commercial banks are NOT money because it is out of circulation.

* If a bank has \$100 in deposits:

It can reserve say \$10 in case some depositors decide to withdraw cash
It can loan out \$90 in credit to some customer.

If a bank has \$10 of its owner's money (own capitalization):

It can use it as reserves
It can loan out \$90 in credit to some customer.

In both cases, the bank has created \$90 that did not exist before in the economy the \$90 of new credit will seize existing when the loan is paid back

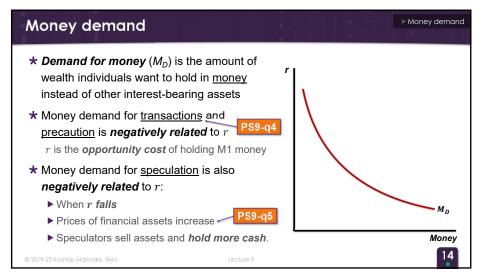
Money creation is an accounting process that does not generate wealth:

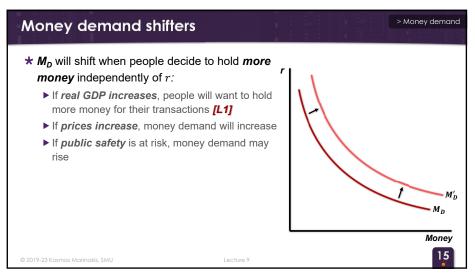
The bank registers a \$90 asset (the loan) together with a \$90 liability (the credit)

Converts a "promise for repayment" and "guarantee for liquidity" to M1 money.

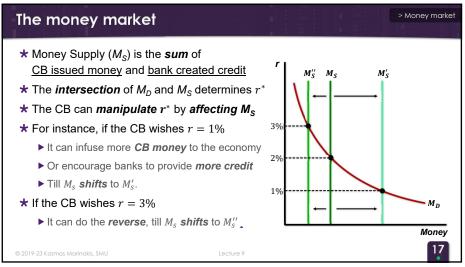
Lecture 9





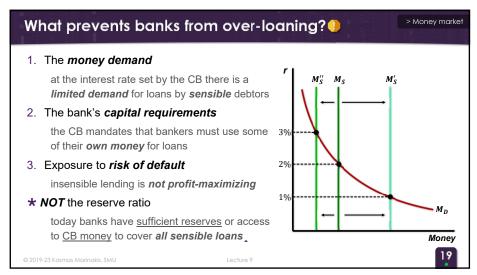






> Money market How can the CB affect M_s * If banks have ample reserves: $M_{\rm S}$ will adjust **on its own** to r^* because banks M_S' will provide more (M'_s) or less (M''_s) *credit* * If banks have scarce reserves or PS9-a3 M_S needs to change **substantially**: ▶ CB increases M_s by selling government securities to the public collecting cash 2% and taking it out of circulation (OMS) ▶ CB decreases M_c by buying securities from the public injecting cash to the economy. (OMP) Money ▶ These actions are known as *OMOs* or *QE* 18 © 2019-23 Kosmas Marinakis, SMU

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* Assume that the CB has set r^* * Then, some shock causes M_D to shift to M'_D * If reserves were scarce:

• r^* will tend to increase to r'• The CB can prevent r^* from changing by conducting OMPs that will shift M_S to M'_S .

* If reserves were ample:

• Banks already have reserves to provide loans at r^* till M_S becomes M'_S .

* Money

Money

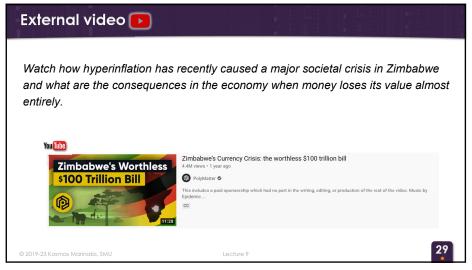


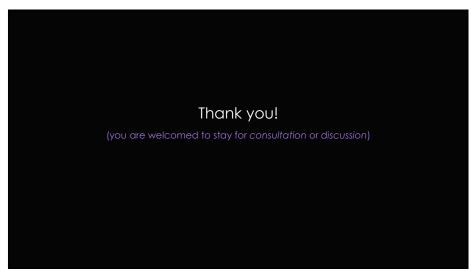
In this video I explain why inflation is bad. There are several different reasons that come from all sides of economics: distortion of the income distribution, worsening of the economic environment, distortion of credit relations, distortion of competition, inefficiencies from anti-inflationary policies and more.

| Volumb | Economics | Kosmos Marinakis, Ph.D. | E&S Video 9 - Why is Inflation Bad? | So views - 2 months ago | So vi

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WARNING!

The slides in this handout are created with the intention to serve a visual aid for the audience during the live presentation of the material in the lecture. As such, they are not designed to be standalone reading material and should be used strictly as reference, side by side with notes taken in the lecture. Studying solely from the slides is not recommended and might in some cases mislead those who have not attended the relevant lecture. Less than 20% of tasks in test and exam can be answered solely from the slides.