



**People's Democratic Republic of Algeria
University of Jijel
Department of Economy**

Academic year: 2022/2023

29

The Monetary System

THE MEANING OF MONEY

Money is the set of assets in an economy that people regularly use to buy goods and services from other people.



The Functions of Money

- Money has three functions in the economy:
 - Medium of exchange
 - Unit of account
 - Store of value

The Functions of Money

- Medium of Exchange
 - A *medium of exchange* is an item that buyers give to sellers when they want to purchase goods and services.
 - A medium of exchange is anything that is readily acceptable as payment.

The Functions of Money

- Unit of Account
 - A *unit of account* is the yardstick people use to post prices and record debts.
- Store of Value
 - A *store of value* is an item that people can use to transfer purchasing power from the present to the future.

The Functions of Money

- *Liquidity* is the ease with which an asset can be converted into the economy's medium of exchange.

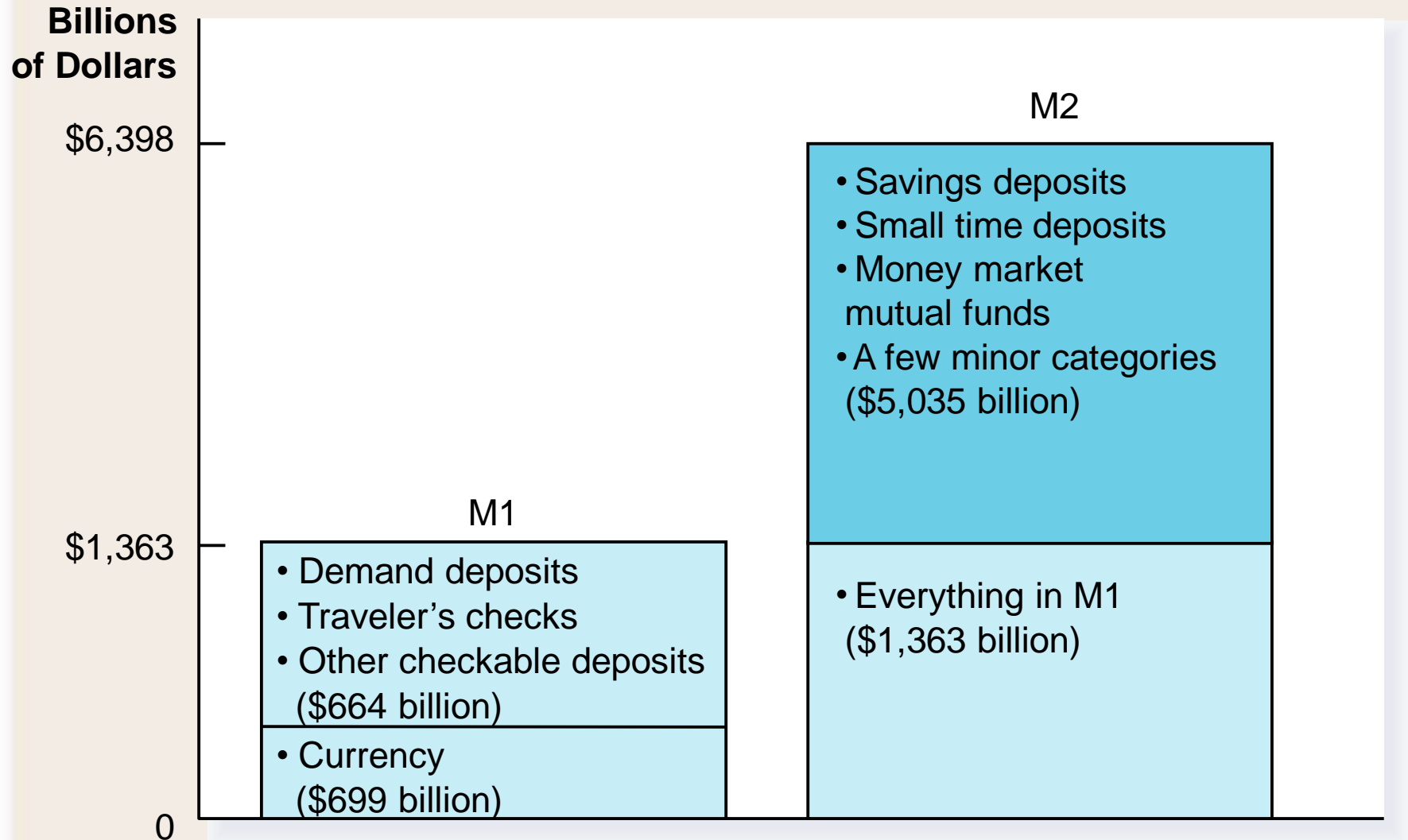
The Kinds of Money

- *Commodity money* takes the form of a commodity with intrinsic value.
 - Examples: Gold, silver, cigarettes.
- *Fiat money* is used as money because of government decree.
 - It does not have intrinsic value.
 - Examples: Coins, currency, check deposits.

Money in the U.S. Economy

- *Currency* is the paper bills and coins in the hands of the public.
- *Demand deposits* are balances in bank accounts that depositors can access on demand by writing a check.

Figure 1 Two Measures of the Money Stock for the U.S. Economy





THE FEDERAL RESERVE SYSTEM

- The *Federal Reserve (Fed)* serves as the nation's central bank.
 - It is designed to oversee the banking system.
 - It regulates the quantity of money in the economy.



THE FEDERAL RESERVE SYSTEM

- The Fed was created in 1913 after a series of bank failures convinced Congress that the United States needed a *central bank* to ensure the health of the nation's banking system.



THE FEDERAL RESERVE SYSTEM

- The primary elements in the Federal Reserve System are:
 - The Board of Governors
 - The Regional Federal Reserve Banks
 - The Federal Open Market Committee

The Fed's Organization

- The Fed is run by a Board of Governors, which has seven members appointed by the president and confirmed by the Senate.
- Among the seven members, the most important is the chairman.
 - The chairman directs the Fed staff, presides over board meetings, and testifies about Fed policy in front of Congressional Committees.

The Fed's Organization

- The Board of Governors
 - Serve staggered 14-year terms so that one comes vacant every two years.
 - President appoints a member as chairman to serve a four-year term.

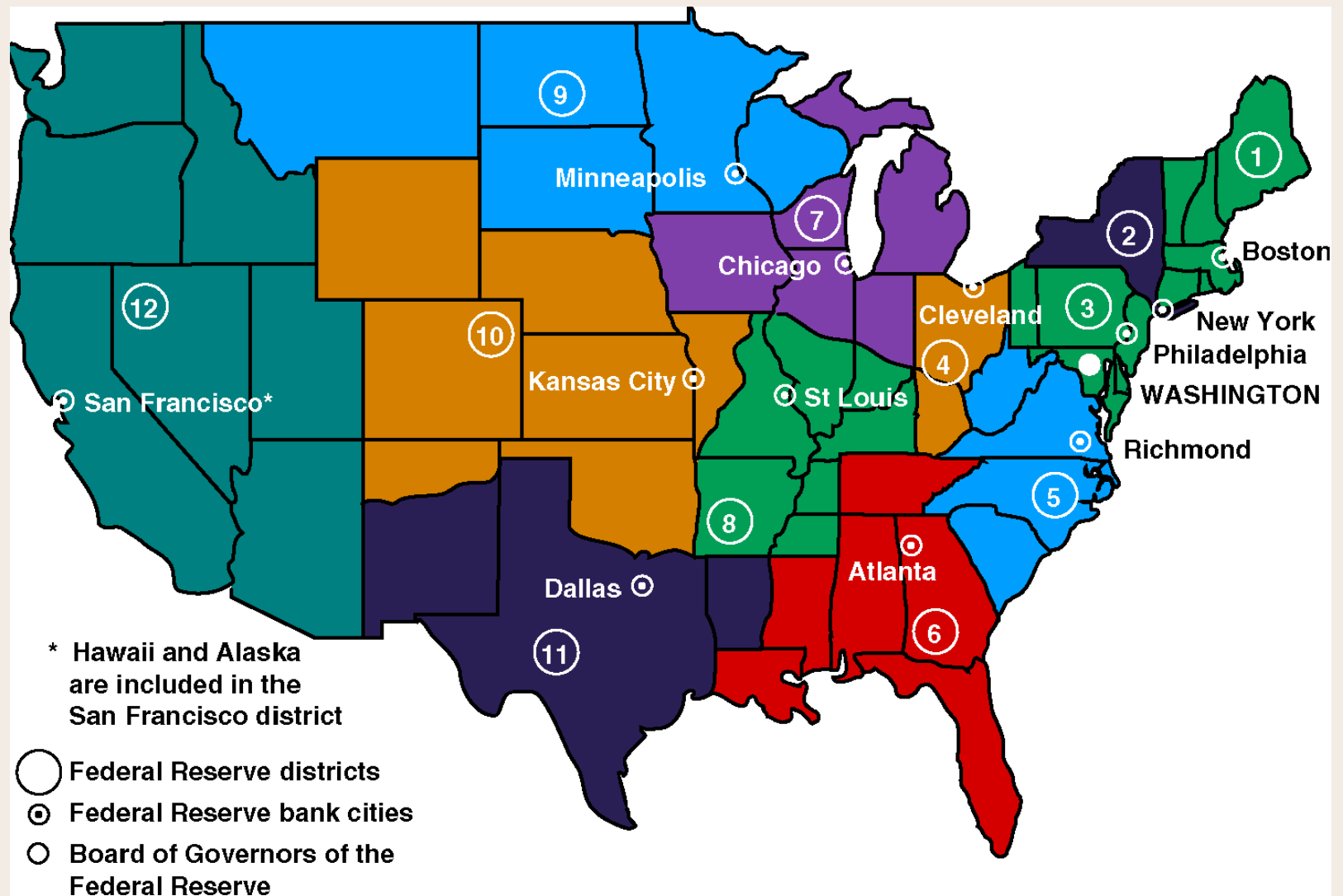
The Fed's Organization

- The Federal Reserve System is made up of the Federal Reserve Board in Washington, D.C., and twelve regional Federal Reserve Banks.

The Fed's Organization

- The Federal Reserve Banks
 - Twelve district banks
 - Nine directors
 - Three appointed by the Board of Governors.
 - Six are elected by the commercial banks in the district.
- The directors appoint the district president, which is approved by the Board of Governors.
- The New York Fed implements some of the Fed's most important policy decisions.

The Federal Reserve System



The Fed's Organization

- Three Primary Functions of the Fed
 - Regulates banks to ensure they follow federal laws intended to promote safe and sound banking practices.
 - Acts as a banker's bank, making loans to banks and as a lender of last resort.
 - Conducts monetary policy by controlling the money supply.

The Federal Open Market Committee (FOMC)

- Serves as the main policy-making organ of the Federal Reserve System.
- Meets approximately every six weeks to review the economy.

The Federal Open Market Committee (FOMC)

- The Federal Open Market Committee (FOMC) is made up of the following voting members:
 - The chairman and the other six members of the Board of Governors.
 - The president of the Federal Reserve Bank of New York.
 - The presidents of the other regional Federal Reserve banks (four vote on a yearly rotating basis).

The Federal Open Market Committee (FOMC)

- Monetary policy is conducted by the Federal Open Market Committee.
 - The *money supply* refers to the quantity of money available in the economy.
 - *Monetary policy* is the setting of the money supply by policymakers in the central bank.

The Federal Open Market Committee

- Open-Market Operations
 - The money supply is the quantity of money available in the economy.
 - The primary way in which the Fed changes the money supply is through open-market operations.
 - The Fed purchases and sells U.S. government bonds.

The Federal Open Market Committee

- Open-Market Operations
 - To increase the money supply, the Fed buys government bonds from the public.
 - To decrease the money supply, the Fed sells government bonds to the public.



BANKS AND THE MONEY SUPPLY

- Banks can influence the quantity of demand deposits in the economy and the money supply.





BANKS AND THE MONEY SUPPLY

- *Reserves* are deposits that banks have received but have not loaned out.
- In a *fractional-reserve banking* system, banks hold a fraction of the money deposited as reserves and lend out the rest.

BANKS AND THE MONEY SUPPLY

- The *reserve ratio* is the fraction of deposits that banks hold as reserves.



Money Creation with Fractional-Reserve Banking

- When a bank makes a loan from its reserves, the money supply increases.
- The money supply is affected by the amount deposited in banks and the amount that banks loan.
 - Deposits into a bank are recorded as both assets and liabilities.
 - The fraction of total deposits that a bank has to keep as reserves is called the reserve ratio.
 - Loans become an asset to the bank.

Money Creation with Fractional-Reserve Banking

- When one bank loans money, that money is generally deposited into another bank.
- This creates more deposits and more reserves to be lent out.
- When a bank makes a loan from its reserves, the money supply increases.

The Money Multiplier

- How much money is eventually created by the new deposit in this economy?



The Money Multiplier

- The *money multiplier* is the amount of money the banking system generates with each dollar of reserves.

The Fed's Tools of Monetary Control

- The Fed has three tools in its monetary toolbox:
 - Open-market operations
 - Changing the reserve requirement
 - Changing the discount rate

The Fed's Tools of Monetary Control

- Open-Market Operations
 - The Fed conducts *open-market operations* when it buys government bonds from or sells government bonds to the public:
 - When the Fed sells government bonds, the money supply decreases.
 - When the Fed buys government bonds, the money supply increases.

The Fed's Tools of Monetary Control

- Reserve Requirements
 - The Fed also influences the money supply with *reserve requirements*.
 - Reserve requirements are regulations on the minimum amount of reserves that banks must hold against deposits.

The Fed's Tools of Monetary Control

- Changing the Reserve Requirement
 - The reserve requirement is the amount (%) of a bank's total reserves that may not be loaned out.
 - Increasing the reserve requirement decreases the money supply.
 - Decreasing the reserve requirement increases the money supply.

The Fed's Tools of Monetary Control

- Changing the Discount Rate
 - The *discount rate* is the interest rate the Fed charges banks for loans.
 - Increasing the discount rate decreases the money supply.
 - Decreasing the discount rate increases the money supply.

Problems in Controlling the Money Supply

- The Fed's control of the money supply is not precise.
- The Fed must wrestle with two problems that arise due to fractional-reserve banking.
 - The Fed does not control the amount of money that households choose to hold as deposits in banks.
 - The Fed does not control the amount of money that bankers choose to lend.

Summary

- The term money refers to assets that people regularly use to buy goods and services.
- Money serves three functions in an economy: as a medium of exchange, a unit of account, and a store of value.
- Commodity money is money that has intrinsic value.
- Fiat money is money without intrinsic value.

Summary

- The Federal Reserve, the central bank of the United States, regulates the U.S. monetary system.
- It controls the money supply through open-market operations or by changing reserve requirements or the discount rate.

Summary

- When banks loan out their deposits, they increase the quantity of money in the economy.
- Because the Fed cannot control the amount bankers choose to lend or the amount households choose to deposit in banks, the Fed's control of the money supply is imperfect.