Money and Banking

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Lecture 2 What is Money

Meaning of Money

• Function of Money

• Evolution of the Payments System

Meaning of Money

Money: ANYTHING that is generally accepted in payment for goods or services or in the repayment of debts. (also referred to as the money supply):

- currency (dollar bills and coins)
- checking account depositsavings deposit

Wealth: the *total* collection of pieces of property that serve to store value

DIFFERENT

Income: flow of earnings per
unit of time
(a flow concept)

Functions of Money

- Medium of Exchange (*lubricant* of the economy):
 - Eliminates the trouble of finding a double coincidence of needs (reduces transaction costs)
 - Promotes specialization
- A medium of exchange must
 - be easily standardized (no ambiguity on its value)
 - be widely accepted
 - be divisible
 - be easy to carry
 - not deteriorate quickly

Functions of Money, Cont'd

• Unit of Account:

- used to measure value (or price) in the economy
- reduces transaction costs (by reducing the # of prices being used in exchange)

Example: In a moneyless economy, how many prices are used for exchange if there are 10 goods? What about in an economy with money? (Hint: use the *combinations*)

• Store of Value:

- used to save purchasing power over time.
- other assets also serve this function (securities, real estates, arts, jewelries, etc.)
- money is the most *liquid* of all assets but loses value during inflation

Evolution of the Payment System

Commodity Money: metals and other valuable commodities

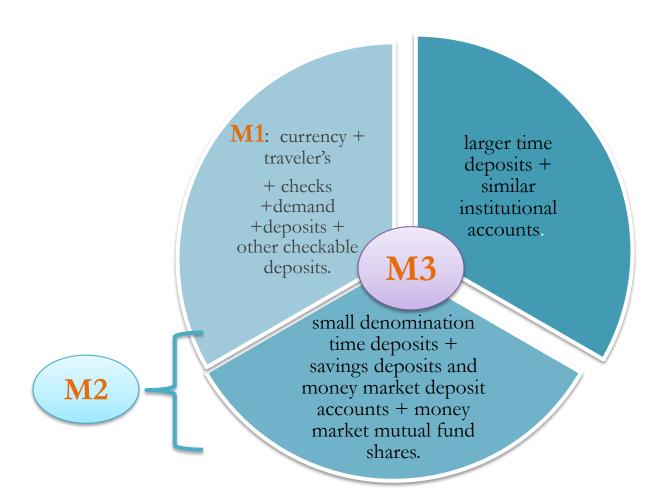
Fiat Money: paper currency (convertible to non-convertible, gold standard, Bretton Woods system)

Checks: *pros*: reduces transportation cost, can be written in any amount, help to prevent theft; *cons*: less liquidity, processing cost

Electronic Payment: online payments

E-money: Debit card, Stored-value card(smart card), E-cash(Paypal, alipay)

Measuring Money

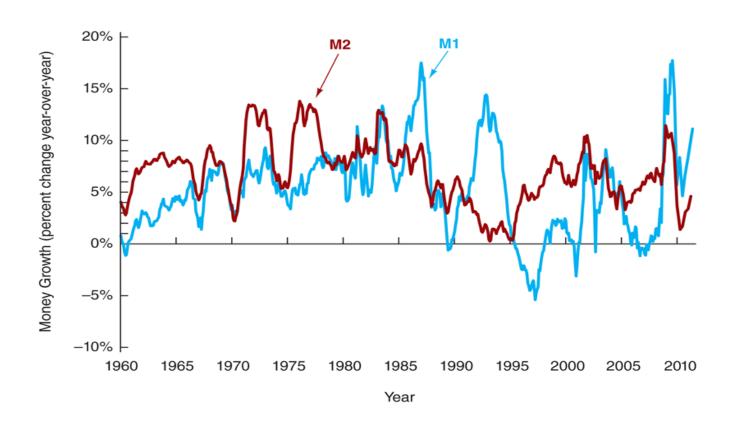


M0(base money)=currency+ deposits in the central bank

Table 1 Measuring Money in the US

Measures of the Monetary Aggregates	
	Value as of May 16, 2011 (\$ billions)
M1 = Currency	958.8
+ Traveler's checks	4.6
+ Demand deposits	573.1
+ Other checkable deposits	399.0
Total M1	1,935.5
M2 = M1	
+ Small-denomination time deposits	848.3
+ Savings deposits and money market deposit accounts	5,530.4
+ Money market mutual fund shares (retail)	688.4
Total M2	9,002.6
Source: www.federalreserve.gov/releases/h6/hist.	

Figure 1 US M1 and M2 Growth Rate



M1 and M2 can move in opposite directions, thus suggesting the importance of choosing appropriate monetary measure for policy makers.

Table 1 Money Supply of China (2013)

货币供应量统计表

2013年09月

单位:亿元人民币

	余额	余额比同期%
货币和准货币(M2)	1106509.15	13.59
货币(M1)	337260.63	9.26
流通中货币(M0)	58558.31	7.13
单位活期存款	278702.31	9.72
准货币	769248.52	15.59
单位 定期存款	232718.63	18.77
个人存款	467030.51	13.53
其他存款	69499.38	19.45

注:货币供应量已包括住房公积金中心存款和非存款类金融机构 在存款类金融机构的存款

The exact means of measuring money differ across countries.

Figure 1 US M1 and M2 Growth Rate



Data source: National Bureau of Statistics of China

For China, the M1 and M2 growth rate can be quite difference as well.