The financial sector and the economy

SUMMARY

After reading this chapter you should be able to...

- Explain why the financial sector is central to almost all macroeconomic debates.
- Explain what money is .
- Enumerate the three functions of money.
- State the alternative measures of money and their primary components.
- Explain how banks create money.
- Claculate both the simple and the approximate real-world money multiplier.
- Explain how a financial panic can occur and the potential problem with government guarantees to prevent such panics.

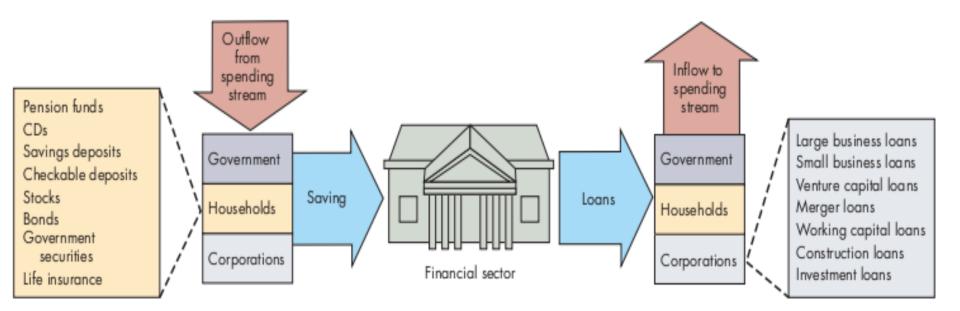
INTRODUCTION

The financial sector is central to almost all macroeconomic debates because behind every real transaction, there is a financial transaction that mirrors it.

WHY IS THE FINANCIAL SECTOR IMPORTANT TO MACRO?

Why is the financial sector important to macro?

The financial sector as a conduit for savings

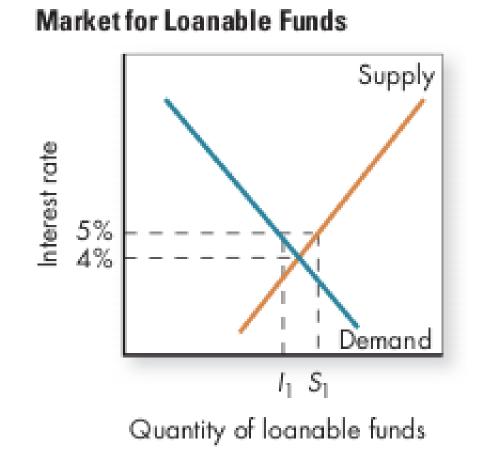


Why is the financial sector important to macro?

- <u>Financial assets</u>: Assets such as stocks or bonds, whose benefit to the owner depends on the issuer of the asset meeting certain obligations.
- <u>The interest rate</u> is the price paid for the use of a financial asset.
- <u>A Bond is</u> a promises to pay a certain amount plus interest in the future.

THE ROLE OF INTEREST RATES IN THE FINANCIAL SECTOR

The role of interest rates in the financial sector



THE DEFINITION AND FUNCTION OF MONEY

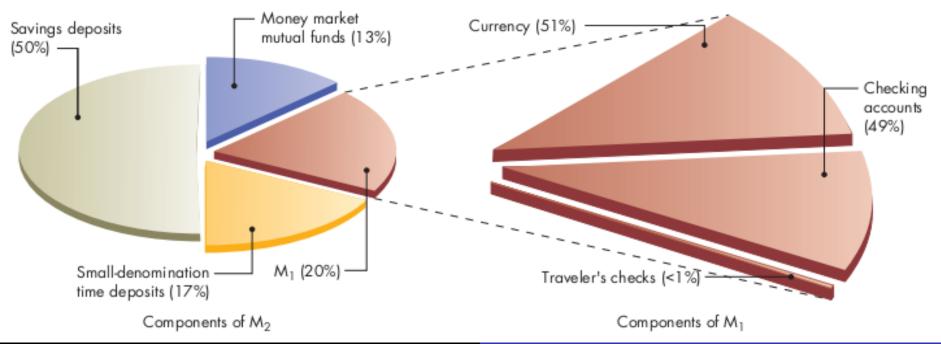
The definition and functions of money

- Money is a highly liquid financial asset that's generally accepted in exchange of other goods, is used as a reference in valuing other goods, and can be stored as wealth.
- Functions of Money:
 - It serves as a medium of exchange
 - It serves as a unit of account
 - It serves as a store of wealth

ALTERNATIVE MEASURES OF MONEY

Alternative measures of money

- <u>3 different measures of money:</u>
 - > M1: consists of currency in the hands of the public
 - M2: made up of M1 plus saving deposits, smll-denomination time deposits, and money market mutual fund shares.
 - > L: Includes (almost) all short-term assets.



BANKS AND THE CREATION OF MONEY

Banks and the creation of money

How banks create money?

- A bank is a financial institution whose primary function is holding money for, and lending money to, individuals and firms.
- Banks create money because a bank's liabilities are defined as money. So when a bank incurs liabilities it creates money.
- Banking is profitable.

Banks and the creation of money

• <u>The money multiplier</u>

> How many demand deposits will be created

Amount of demand deposits = $\frac{1}{r}$ \$100 = \$1,000 *r* is the reserve ratio

> Calculating the money multiplier

$$\frac{1}{r} = \frac{1}{0.10} = 10$$

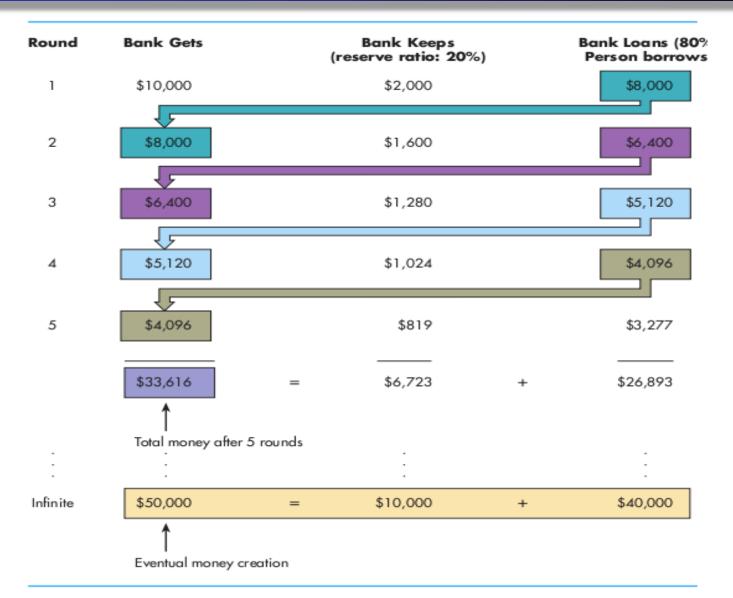
> Real-world money multiplier

Real – World Money multiplier = $\frac{1+c}{r+c}$

c is the ratio of money people hold in currency to the money they hold as deposits

EXAMPLE

- Reserve ratio: 20%
- John Finder finds \$10,000 in currency, which he deposits in the bank. Thus, he has \$10,000 in his checking account and the bank has \$8,000 to lend out. Once it lends that money to Fred Baker, there is \$8,000 of additional money in the economy. Fred Baker uses the money to buy a new oven from Mary Builder, who, in turn, deposits the money back into the banking system. Big Bank lends out \$6,400.



Th. Warin

 After 5 rounds we reach a point where total demand deposits are \$33,616, and the bank has \$6,723 in reserves. This is approaching the \$50,000 we'd arrive at using the money multiplier:

$$\frac{1}{r}(\$10,000) = \frac{1}{.2}(\$10,000) = 5\,(\$10,000) = \$50,000$$

 If we carried it out for more rounds, we'd actually reach what the formula predicted.

When people hold currency, the money multiplier is

Real – World Money multiplier = $\frac{1+c}{r+c}$

 Say the bank keep 10% in reserve and the ratio of individuals' currency holdings to their deposits is 25%,

Real – World Money multiplier = $\frac{1+0.25}{0.1+0.25} = \frac{1.25}{0.35} = 3.43$

The more cash people hold, the smaller the money multiplier.

REGULATION OF BANKS AND THE FINANCIAL SECTOR

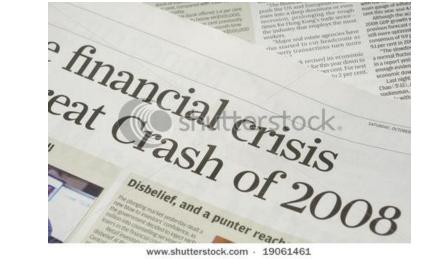
Regulation of banks and the financial sector

• Financial panics

- Bad loans
- > Government role
- > Bank risks
- 1997 Asian financial crisis

The 2008 financial crisis

		HEAT	22 10 222	22 11-	COMPANY THE
1000	10- 1000	THEOLOGY.	1000	1 dates	Q IO THITY
25 25 75	215 - 275	RIS	1000	1050	020 US
155 360 B	10- Day	SRIARI	284 25	A CONTRACTOR OF	201 20100
85 2 (65- 0.6	TRAF	631 636	0.006-	DID OPURE
414 480 4	IN- Dis	UBC		1.00	P DAIDO
11 1110	110 010	ACL	382 30	1. 30.2-	OSO HTC
6.75 6.00 6	100- 1000	AEONTS	12 1950		W7 KSL
605 620 6	10- 100	AITCO	DO-LO INSTRUM	Course in a	650 LST
310 315 3	1051 105	HOL	100 10	1.144	IS INCLUE.
155 157 1	66- 10	ASP	222 22	C 224-	CHS MFO
665 610 8	55- 065	BC .		100	IHSTO DB
545 585 5	35- 025	ILS	10110	1 1 1 1 1 1 1 1 1	120 P2
8550 46	66- 150	CHG COLOR	1.1	1000	VER PORPUL
操卵 紀市 老	85- BR	LINS.		1050	LEO PR
10000 10000 10	10 100	CIERC	1 10	1000	10.00 SMP.
0.56 0.90 0	291 2006	KESTE	7 6	19-	IN SINCHA
5 1005 MILE	06- 10	1001		1 1994	IATS SPP
89.60 90.89	1980- 1980	KX .		10000	175 SORKON
建设 建油	18- 118		-	STREE-	5800 89C
- MA	9- 6 8	and the second second		67-	LODE TC
200 300 3		1 1 a ton	Contraction of the	1 A A	150 11
480 460 4	50- 085	1000 26	1 1 1 1 1 1		11PC0
and and a	10- 001	1 - 10.1	A Start		GIR TUP
5 150 52 51	SQ- 6	1	-	- 10-	THE TWO
1650 1650 16	50. (210	Stan / All		- P-	A P TWPP
1999 6650		ALC: NOTE	1	-	ADS MHC
8 10 830 8	ea- 000	3		Se 198-	CISE 2011
100 100 1	au- <u>ass</u>		and the second se		2 150 111
			and the second se		12 / St. 10 - C H041



19061461