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The Banking Activity

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What is a bank?
 What does a bank do?
 When does a bank fail?
 The last financial crisis
 The global banking scenario

1. What is a bank?



Credit Institutions

1. Official Credit Institute

2. Banks

3. Saving Banks and Spanish Confederation of Saving Banks

4. Credit Unions

5. Financial Credit Establishments

6. Electronic money institutions

1. What is a bank?

Banks and saving banks are classified within credit institutions. They receive and have in their custody deposits and grant loans or credits to others



Banking system

Set of banking entities (banks and savings banks) that operate within an economy



- 1) Banking intermediation
- 2) Payment processing
- 3) Creating money
- 4) Transmitting monetary policy

2. What does a bank do?



1) Banking intermediation matching up creditors and borrowers by taking in deposits & lending loans

- Fundraising or **liability operations** through <u>liability products</u> (current accounts, deposits...)

- Investment or **asset operations** through <u>asset products</u> (loans, credits, discount of effects ...)

2. What does a bank do?

2) Payment processing

Support customers in collections / receipts and payments

- ✓ from buyers to sellers
- ✓ from employers to employees
- ✓ from taxpayers to governments

Payment system - complex network

- Local, national, and international banks
- Government central banks
- Private clearing facilities that match up what banks owe each other

Transfers, checks, bills of exchange, international payment service, receipt management, payroll service, debit and credit cards... Insurance Pension plans Investment funds



3) Creating money

The banking system as a whole **creates bank money**

Deposits: are not requiered all at once



- A small percentage to reserves (in the government central banks): Minimum Reserve Ratio (MRR)
- The remainder for loans that return to the banking system as new deposits



2. What does a bank do?

How much bank money can you create with an initial € 100?

The **bank money multiplier** is equal to the inverse of the minimum reserve ratio (*MRR*)

Up to what limits can banks create bank money?

M = 1 d'in qué? Si OLM=21/ >> S21/ a reservas DEPOSITADO ----- EN GRAULACIÓN 100 - 0'98.100 = 78 0'98.100 - 0'982.100 = 76'04 0'992.100 - 0'983. 100 =94'12 0'983.100 -> 0'984.100 -92'24 Total linero = 100 + 0'98.100 + 0'98' .100 + + 0'983.100 + 0'984.100 + ... = 100 (1+0'98+0'98+0'98"+0'98"+0'98"+...) = Sucesión geométrica decreciente de razón r = 0'98 Switch de sub INFINITOD $S \neq \frac{q_1}{1-r} = \frac{1}{1-0'q_1} = \frac{1}{0'02}$ TÉRMINES $= 100 \times \frac{1}{0'02} = 100 \cdot \frac{1}{2} = 100 \cdot \frac{100}{2} = 100 \times \frac{$ M = 5000

2. What does a bank do?



- A loan passes into the circular flow and becomes deposits, generating new surplus reserves
- A maximum of surplus reserves can be lent
- The banking system, as a whole, increases bank money

The **ECB** implements EU economic & monetary policy

Aim: to keep prices stable (i.e. to safeguard the value of the euro) ➡ to support economic growth and job creation

The ECB controls money supply and inflation by setting the interest rates at which it lends to commercial banks in the <u>eurozone</u>

Eurosystem's instruments:

- open market operations
- standing facilities
- minimum reserve requirements for credit institutions (MRR)

Source: https://www.ecb.europa.eu/mopo/implement/html/index.en.html

When it is unable to repay the deposits (an obligation it has with its depositors)

A matter of confidence:

If depositors and other creditors / investors perceive right or wrongly- that the bank has problems, they can demand their deposits payment almost immediately

- \rightarrow "Run on deposits": fast withdraw of many funds
- \rightarrow Bank panic atmosphere



Main banking financial ratios

Banking Business Guarantees

Liquidity	Profitability	Solvency	Efficiency	Credit quality
 Be able to convert deposits into cash 	 Generate profits: looking at the return on equity (RoE) and the return on assets (RoA) 	• Have enough equity to absorb losses, regulated by <u>Basel III</u> and evaluated by stress tests	 Ratio of adminis- tration expenses to gross margin 	Non- performing loans (NPL) ratios, provisioning effort, cost of risk

Bank bankruptcy safeguards established by regulation

Deposit Guarantee Fund	Reserve requirements	Capital requirements	Risk control	Banking supervision
Confidence!	• Liquidity!	Solvency!	• <u>NPL</u> !	•Stress test • <u>EBA</u> Control!







Securitization

Assets (what the bank owns & what is owed to the bank)	Liabilities (what the bank owes)	
ash, central bank reserves, bonds etc (liquid assets) oans the bank has made to its customers (illiquid assets)	Customer deposits	
	Shareholder equity	





- Issuer: receives cash + reduces the RISK of its business
- Buyer: receives a profit (regular payments)
- Extended practice in USA (since 1985), later in Europe
- Supports the demand for mortgage loans in recent years
- Also effective for financing SMEs



Globalization

Process of integration of world markets

geographical and functional parries

→ free circulation of investors and international financial flows

Traditional banking OUTDATED!

- Increase in the size of markets and competitiveness
 possibility of cheaper financial products
- Increase in risk, cut in margins, greater debt...
- Linked to financial and banking crises

 almost permanent instability of financial markets
- Companies are obliged to improve their information systems
- Adaptation of banking strategies

Currently the banking sector is **highly regulated**, however, before the last financial crisis:

Regulation



DEREGULATION

Reduction, revision or partial elimination of legislation for the benefit of the markets

NO more **EXCLUSIVITY** of banks on certain products! No more traditional barriers. Greater flexibility

DISINTERMEDIATION

New competitors and the incursion of banks into businesses that were left out

Disintermediation

Process of loss of presence of traditional financial intermediaries between saving and investing economies





Examples of disintermediation











⊘ ∰

NEOBANK

⊘ ∰



Nano Finance





Blockchain & Digital transformation





