

Chapter 2

Financial Analysis as an

Approach to Decision-Making

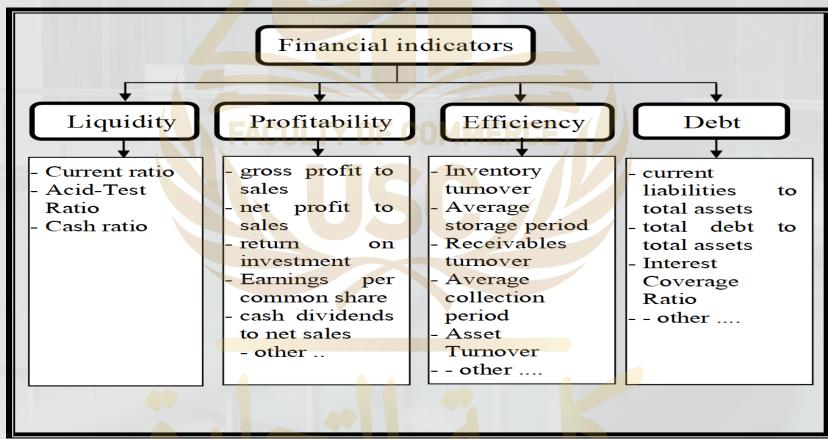
in Financial Institutions

The method of financial ratios is one of the most popular and widespread analytical tools used and known as "financial indicators or financial ratios". The primary purpose of which is to provide the users of financial reports or their financial analysts with a set of indicators that support future decisionmaking.

The most important of which are indicators In judging the current financial position of the project and its ability to pay its obligations in terms of the degree of liquidity and the capital structure.



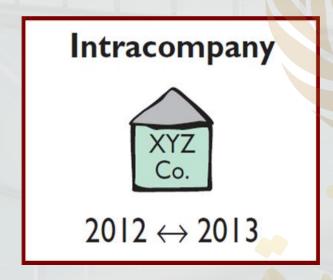
The financial indicators

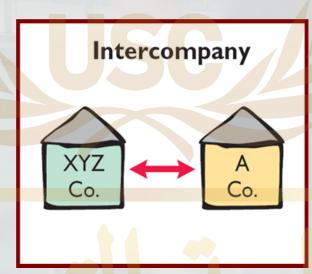


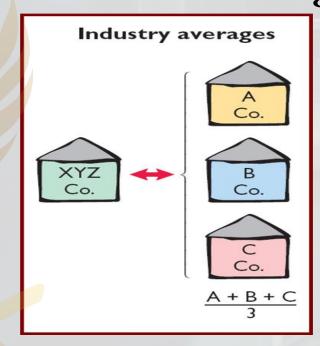
A single ratio by itself is not very meaningful.

The discussion of ratios will include the following

types of comparisons.







Liquidity ratios refer to a set of indicators that measure an entity's ability to meet short-term obligations (current liabilities) from its cash and other assets that can be converted into cash in a relatively short period of time (current assets). The importance of liquidity ratios is represented in the information that it provides to management, owners and creditors who provide the company with short-term credit. The following are the most important liquidity ratios:

1- Current Ratio: The current ratio mainly aims to measure the ability of current assets to cover short-term debt, and is determined by the following formula:

Current ratio = Current liabilities

It is worth noting that previous studies and expert opinions in financial analysis we find that the current ratio is a satisfactory ratio for many companies in the range 2: 1 as a standard / model ratio.

2- Acid-Test Ratio: There are some current assets that are difficult to convert fully into cash in short time to pay outstanding debts, such as prepaid expenses that cannot be converted into cash but are used instead in operations.

Also, the inventory to be converted into cash, part of it must be transferred to the accounts receivables and then converted to cash, and there is a possibility that it will be sold at a loss in the event of an urgent need for liquidity, but the company may not be able to sell it at all. So inventory and prepaid expenses excluded from the current ratio.

Acid-Test Ratio = Most liquid assets

Current liabilities

The high liquid assets represent the cash item in addition to the quick convertible assets into cash, such as temporary investments and debtors' accounts (net). As for the inventory and advance expenses, they represent slow-moving assets in converting them from current assets into liquid assets.

3- Cash Ratio: This ratio aims to measure the ability of cash and cash equivalents (securities) to cover short-term debt. Hence, cash assets include money in banks, whether they are term or demand deposits, or in the form of a checking account, and funds in the vault. this ratio is determined by the following formula:

Cash ratio = Cash + securities

Current liabilities

This ratio is compared from one year to another, that is, it does not have a standard rate. However, it must be emphasized that a decrease in this percentage less than 1, means that there is an inability to pay debts when They due, which may lead to stopping the activity, and vice versa.

Activity No. (1)

- **☐** Activity nature: Discussion.
- ☐ Activity Time: 10 minutes.
- ☐ Task: Discuss The concept of liquidity ratios and their most important indicators



5 minute break.....

Tea Break



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Profitability ratios provide indicators of the enterprise's ability to generate profits from sales or available assets, based on the calculation of revenue expressed with a value of income achieved as a percentage of the value of sales or investments used to achieve income.

1- The ratio of net profit to total assets: This ratio is called the rate of return on investment (ROI), and this ratio is determined by the following formula:

□ Return on investment

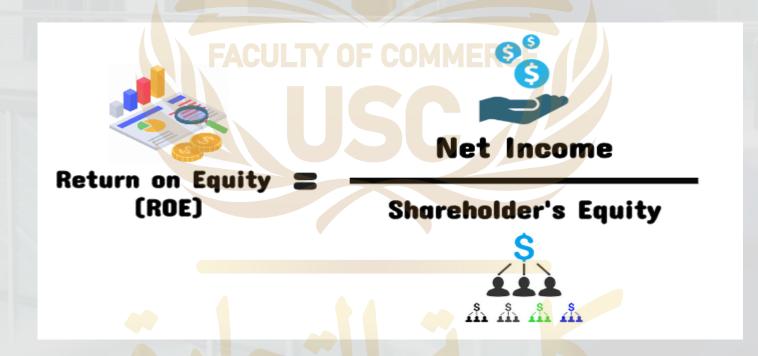
Net profit after tax + interest

Average total assets

2- Return on Equity: This rate refers to the value achieved on the owners 'investments, often called the return on equity rights or the ratio of net profits to equity rights. It aims to measure the profitability of the funds owned by the company, in other words, the amount of each equity dollar's contribution to profitability.

Return on equity = Net profit after tax

Equity rights



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3-Gross profit ratio to net sales: This percentage is calculated by dividing the total profit by the net sales, and this percentage is an indication of how efficient the management is dealing with the elements that shape the cost of sales. It is also used as a means of controlling the elements that are involved in creating this number. These items are purchases, sales, beginning inventory, and ending inventory. Therefore, the decreasing of this ratio from one year to another requires research into the reasons that led to this, which may be due to one of the following:

- ☐ The company incurs abnormal losses as a result of high wages, high prices of raw materials, industrial costs, or repeated recording of purchases.
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- Decrease in the selling prices of the product for conditions related to the products themselves, or as a result of strong competition, or the general economic situation, or as a result of neglecting to record some sales, or as a result of a mandatory government pricing for them.
- □ Changing the basis for estimating the remaining goods is a trend towards a more conservative policy.

4- Operating profit margin: This ratio is calculated by dividing the net operating profit by the net sales, and this ratio is more comprehensive than the previous percentage, as it does not only measure the extent of efficiency in dealing with the elements that reflect the cost of sales, but extends to include a measure of efficiency in dealing with all elements of costs that They are related to operations, and are determined by the following equation:

Net operating profit ☐ Operating profit margin Net sales

5- Return on sales: The Return on sales is calculated by dividing the net profit after tax on the net sales. This percentage shows the profit resulting from each dollar of sales, as well as the percentage by which the selling price of the unit can decrease before the company is exposed to actual losses. □ Return on sales Net profit after taxes

Net sales

Activity No. (2)

- ☐ Activity nature: Think.. Pair
- ☐ Activity Time: 10 minutes.
- Task: The concept of turnover ratios and their most important indicators



Ratios of activity efficiency measurement or indicators of financial efficiency analysis are concerned with stating the extent to which project management uses and monitors the available financial resources, and activity indicators aim mainly at each of:



- ☐ Measuring productive and administrative efficiency.
- ☐ Measuring the efficiency of investment in products.
- Measuring the efficiency of credit and collection operations.

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- ☐ Measuring the efficiency of working capital management.
- ☐ Measuring the efficiency of working investment management.

1- Current assets Turnover: This ratio reflects the relationship between sales and total current assets and shows how quickly the current assets are turned over, and is determined by the following formula:

☐ Current assets Turnover

net sales

Average current assets



2- Fixed assets Turnover: The fixed asset turnover is determined by the following formula:

☐ Fixed assets Turnover

net sales

Average fixed assets



3- Inventory turnover: The inventory turnover rate represents the relationship between the cost of sales and the average product stock. The importance of this rate or standard is represented in being the determinant of the amount of capital needed to invest in the inventory.

Inventory Turnover Ratio

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☐ Inventory turnover

Cost of goods sold
Average inventory



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Self-training....

The following is the income statement as well as the financial position statement for 2023 and 2024 for one of the industrial companies in Sadat City:

■ Required: Extract the most important financial indicators in 2024???



Self-training....

1- Income Statement:

Description.	2023	2024
Revenue.	37,500	45,000
(-) Sales cost.	22,000	25,000
Gross profit.	15,500	20,000
+ Other revenue.	19,500	16,800
(-) Other expenses.	15,000	13,400
Net income.	20,000	23,400

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2- Balance Sheet:

Description.	2023	2024
Fixed assets:		
Machines.	164,000	150,000
Cars.	136,000	145,000
Total fixed assets.	300,000	295,000
Current Assets:		
Debtors.	72,000	70,000
Bank. FACULTY OF COMMER	93,000	95,000
Total current assets.	165,000	165,000
Total assets	465,000	460,000
Liabilities:		
Notes payable.	58,000	55,000
Creditors	45,700	48,000
Loans	76,300	88,200
Total liabilities	180,000	191,200
Owners Equity.	285,000	268,800
Liabilities and equity	465,000	460,000

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The Next Lecture



Chapter 3

Analysis of Cash Flows for Investment

Projects "Statement of Cash Flows

Using the Six Blocks Approach"