

Financial Analysis Fundamentals



Learning Objectives



Undertake a comprehensive financial analysis using wide range of ratios



Use ratios to analyze the income statement and profitability.



Look at ratios to analyze operating assets and asset utilization.



Analyze capital structure with ratios.

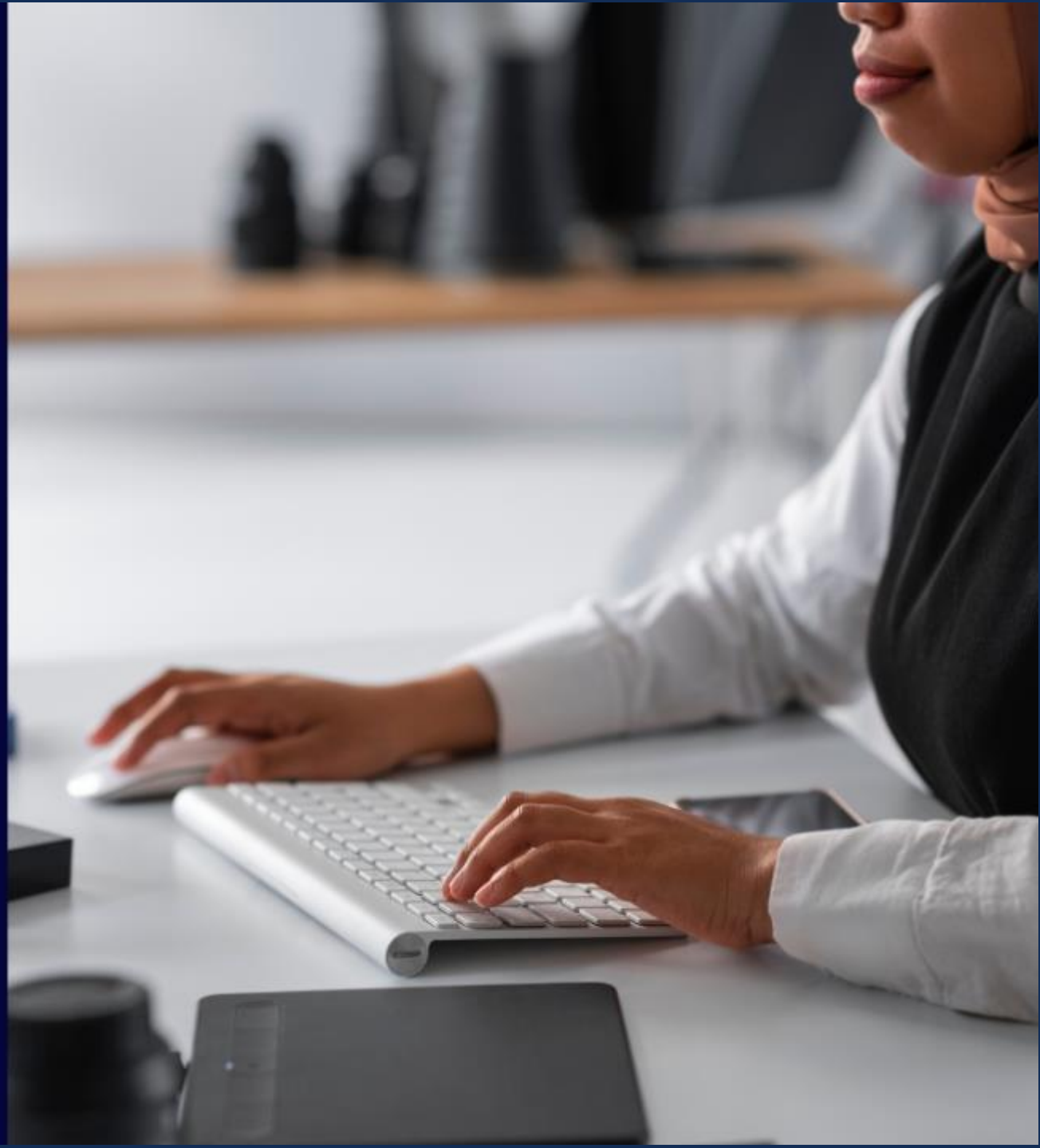


Recommend how a business can improve operations, capital structure, and asset utilization.

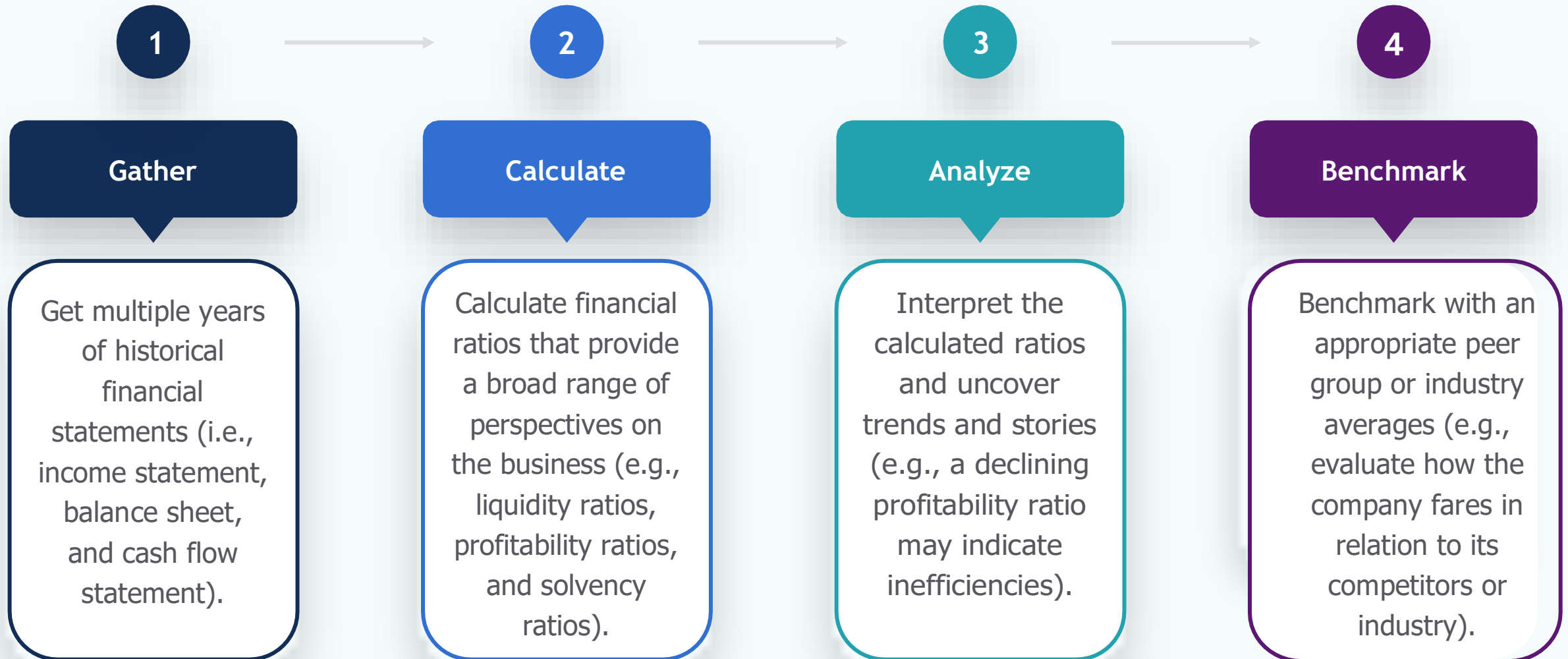


Use the DuPont Pyramid of ratios to get a more comprehensive view of a business.

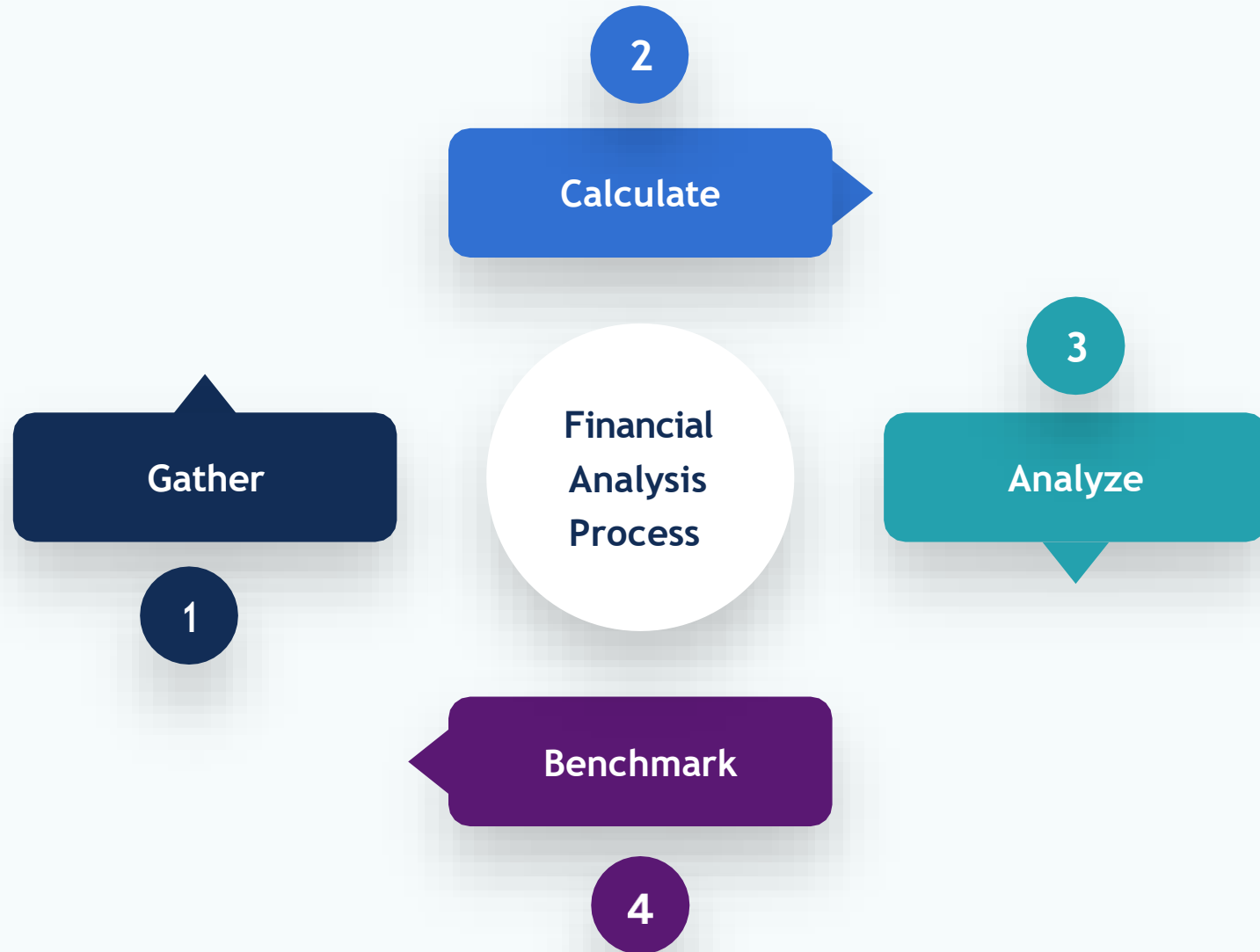
Trend (Horizontal) Analysis



What Is Best Practice Financial Analysis



What Is Best Practice Financial Analysis



Critical Tips for Effective Financial Analysis



- Gather a minimum of five years of historical financial performance to better identify trends over time.



Make your calculations in Excel transparent so that you can trace from financial statements to ratios.



Need to identify an appropriate peer group, which is broader in scope, as it is rare to find two companies that are exactly similar.

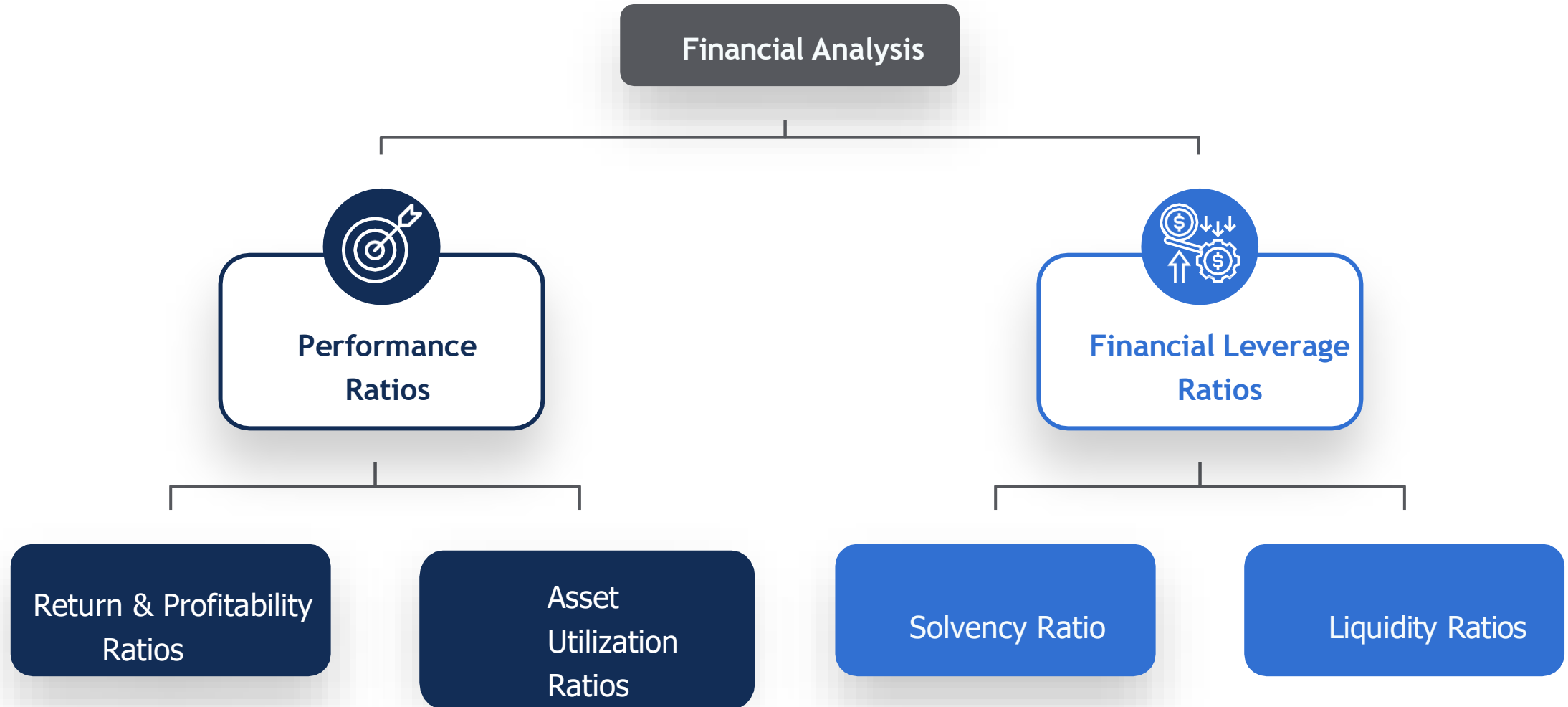


Keep adjustments of ratios to a minimum, as there is more room for error to creep in.



Averages are typically more academically sound, but in practice, virtually everyone uses closing balances.

Financial Analysis Ratio Categories



Quick Recap of the Three Financial Statements

Let's do a quick Recap of the three financial statements.



Income Statement

Revenues

Expenses

Profit Or loss



Balance Sheet

Assets

Liabilities

Equity



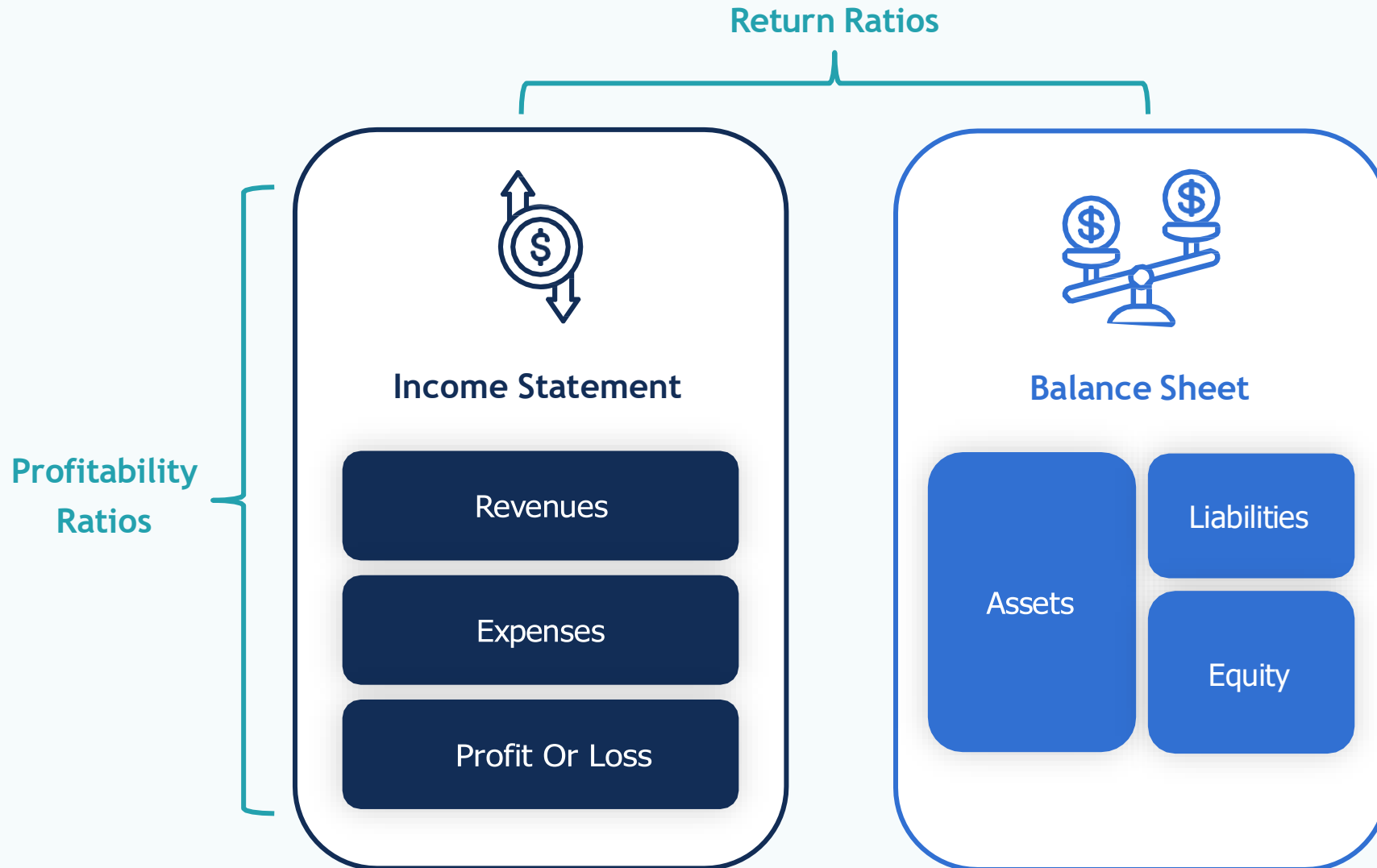
Statement of Cash Flows

Operating

Investing

Financing

Quick Recap of the Three Financial Statements



What Is Trend Analysis

Trend analysis is **crucial component** of our financial analysis.



Trend analysis (horizontal analysis) involves **comparing results across different periods**, such as months, quarters, or years.



Conducting analyses over multiple years allows trends to emerge, providing valuable **insight for forecasting and future projections.**

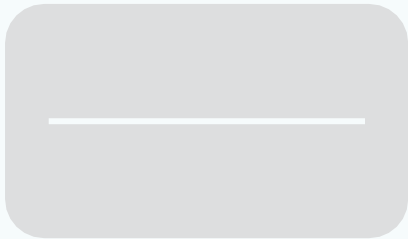


Through the examination of historical trends, we gain a better understanding of **how to project future performance.**

What Is Trend Analysis



What Is Trend Analysis

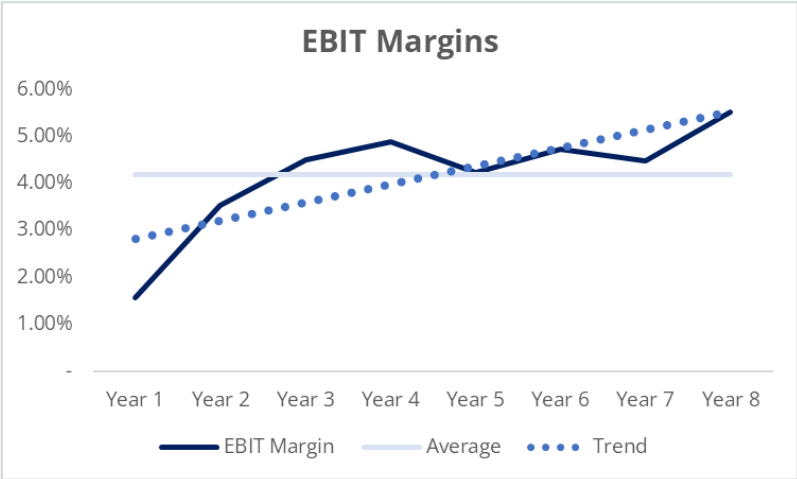
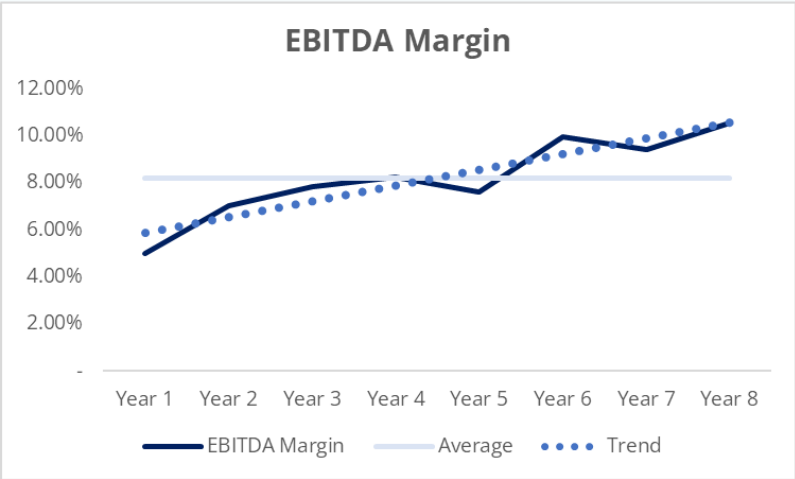
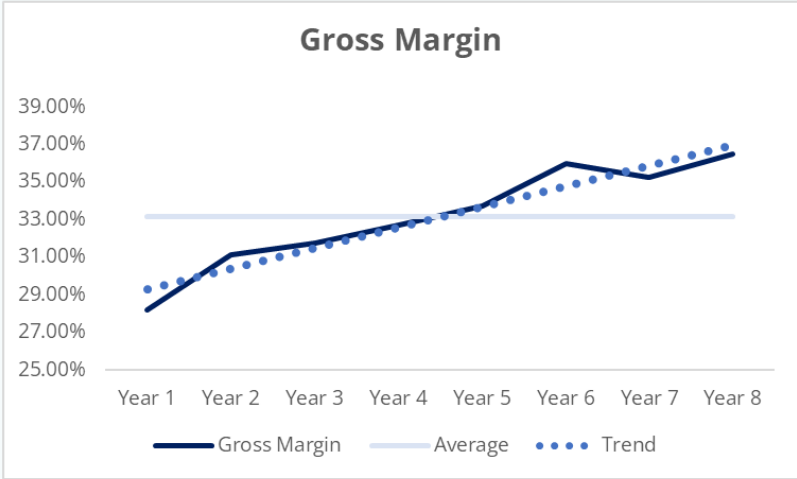
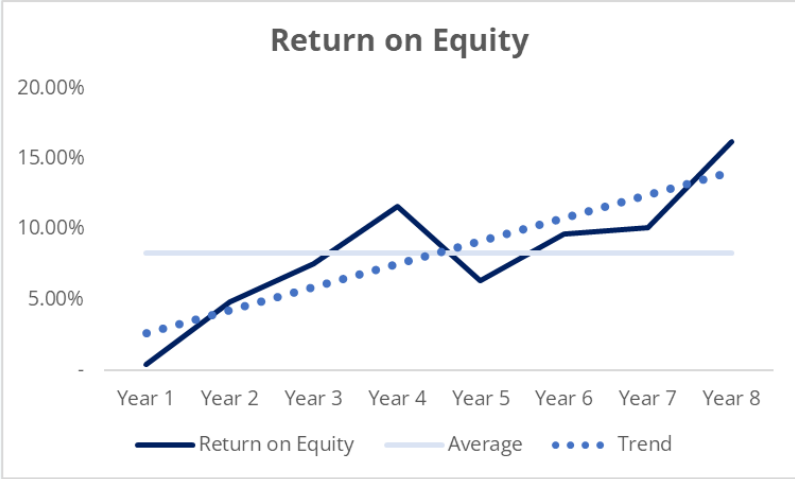


here is **to assess trends over several years** and use them to make projections about future performance.



forward-looking analysis is essential for gaining insights into the company's prospects.

The Benefit of Graphing Trends



Growth Ratios

With growth ratios, the financial analyst should look at revenue, profitability, and asset growth.



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With growth ratios, the financial analyst should look at revenue, profitability, and asset growth.



Analyzing Growth Ratios

Scenario 1:

Assets are growing faster than revenues and

Interpretation:

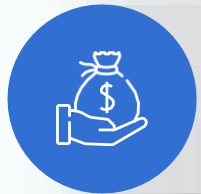
Asset utilization, or the ability to generate revenues, is declining.

Growth Ratios

With growth ratios, the financial analyst should look at revenue, profitability, and asset growth.



Asset
Growth



Revenue
Growth



Profitability
Growth



Analyzing Growth Ratios

Scenario 2:

Revenue growth is greater than profitability growth..

Interpretation:

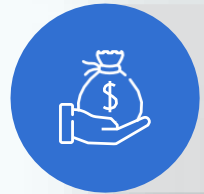
There may be a problem with the management of expenses.

Growth Ratios

With growth ratios, the financial analyst should look at revenue, profitability, and asset growth.



Asset
Growth



Revenue
Growth



Profitability
Growth



Analyzing Growth Ratios

Scenario 3:

Asset growth leads to greater revenue growth, which leads to even higher profitability growth.

Interpretation:

Ideal scenario indicating good financial management.

Growth and Degree of Leverage

$$\text{Degree of Total Leverage} = \text{Degree of Operating Leverage} \times \text{Degree of Financial Leverage}$$

Shows fixed costs
versus variable
costs.

Operating Leverage

% Change in
EBIT

% Change in
Revenue

Financial Leverage

% Change in
Net Income

% Change in
EBIT

Shows how much debt
financing is being
utilized.

Growth and Degree of Leverage

$$\text{Degree of Total Leverage} = \text{Degree of Operating Leverage} \times \text{Degree of Financial Leverage}$$

Operating Leverage

% Change in EBIT

% Change in
Revenue

Financial Leverage

% Change in Net
Income

% Change in
EBIT



Total Leverage

% Change in Net
Income

% Change in
Revenue

Operating Leverage and Growth



Variable Costs

Costs that **change** depending on the company's production volume

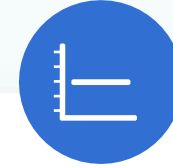
Revenue

Increases

Decreases



If all costs are variable, then operating profit can only grow at the rate of revenue growth.



Fixed Costs

Costs that **do not change** in relation to production

Revenue

Increases

Decreases



If we by turning some of these variable costs into fixed costs, we introduce operating leverage.

Financial Leverage and Growth

How can we magnify net profit growth through leverage?



Financial Leverage:

Shows how much debt financing is being utilized.

Debt Utilization:

- Debt comes with interest expense, which **reduces profit**.
- Debt also has a **tax advantage** as interest expense can be deducted for tax purposes.