



# Financial Analysis Fundamentals

# CFI Instructors

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Instructor  
Hong Kong





# Vertical and Horizontal Income Statement Analysis

# Session objectives

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Learn the key components of the income statement



Perform vertical and horizontal analysis



Benchmark against other companies in the industry

# Financial analysis

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There are many important steps, such as trend and ratio analysis, in preparing a financial analysis. The starting point is the financial statements:



**Income  
statement**



**Balance  
Sheet**

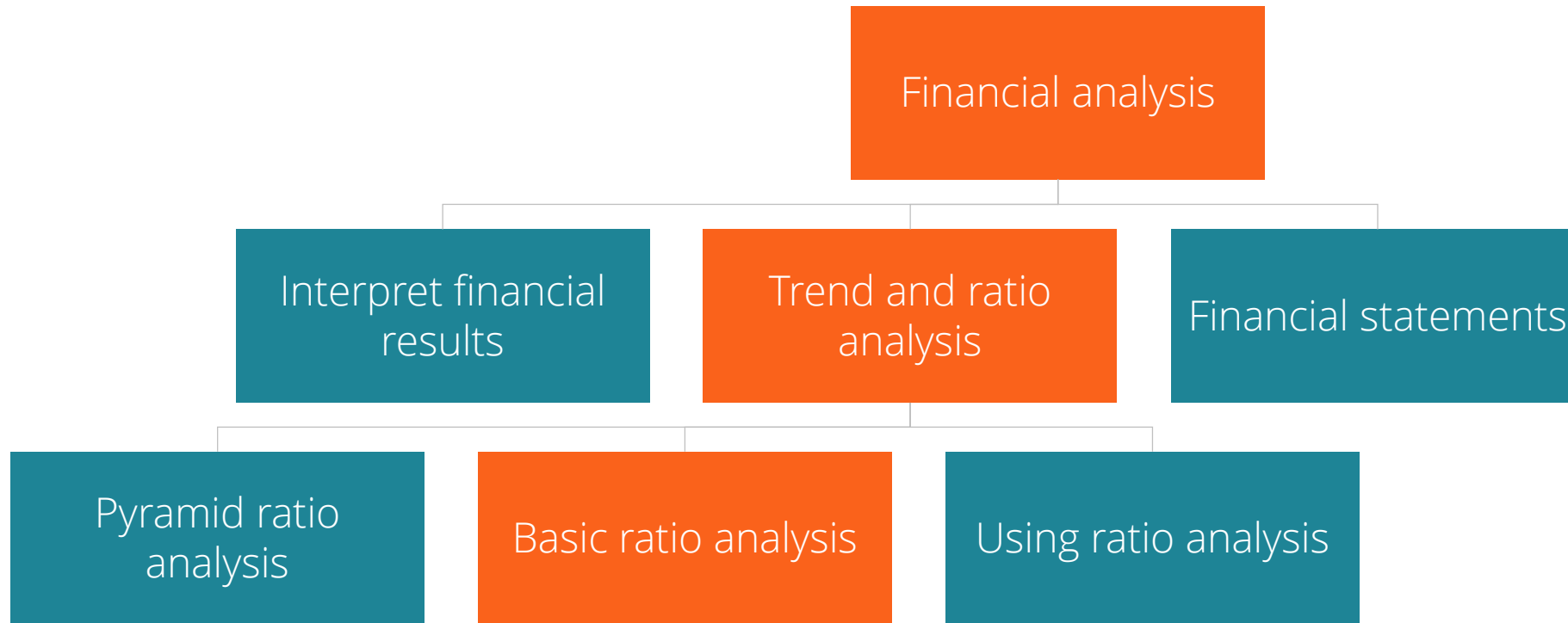


**Statement of  
Cash Flows**

# Financial analysis

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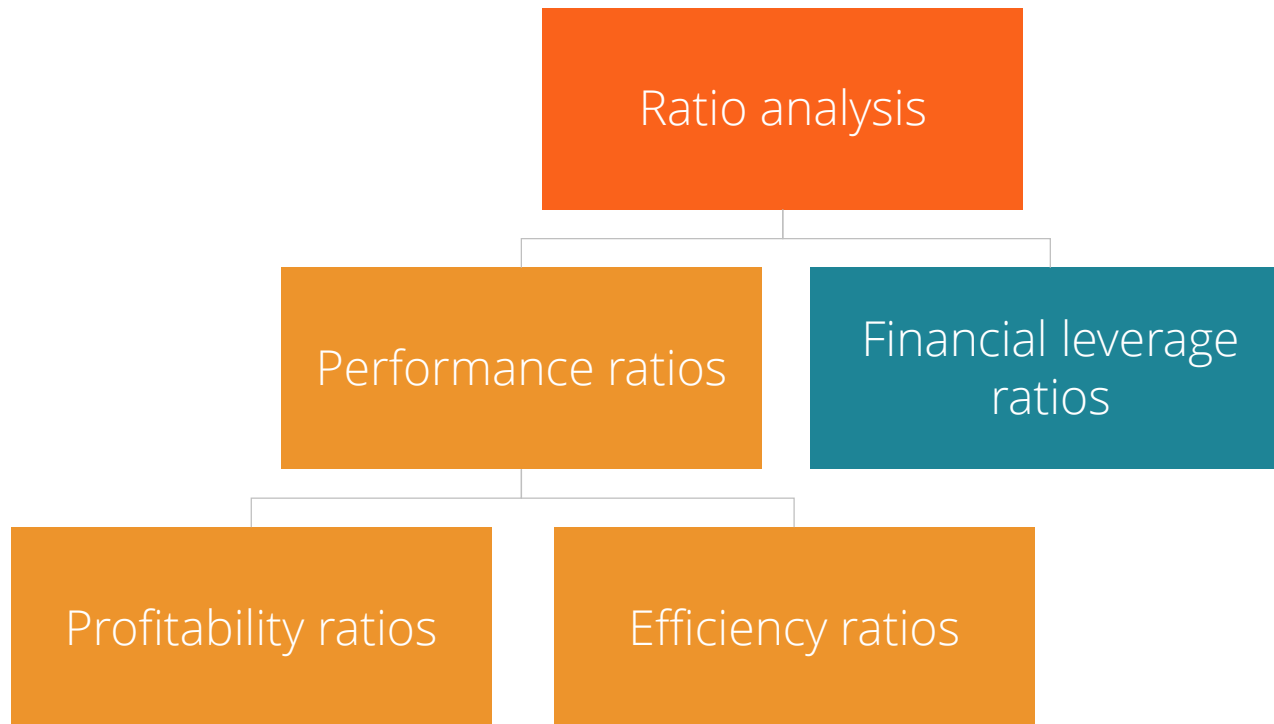
There are many important steps, such as trend and ratio analysis, in preparing a financial analysis. The starting point is the financial statements:



# Components of ratio analysis

**Ratio analysis covers two basic groups.**

When analysing the income statement, we use performance ratios – specifically those related to profitability.





# A breakdown of the income statement

Tensel					
<b>Income statement</b>					
\$ millions	<b>Year 1</b>	<b>Year 2</b>	<b>Year 3</b>	<b>Year 4</b>	
<b>Sales revenues</b>	<b>81,422</b>	<b>84,698</b>	<b>88,236</b>	<b>90,637</b>	<b>Sales revenues</b>
COGS/COS	(38,121)	(37,756)	(36,327)	(42,938)	<b>Direct costs</b>
<b>Gross profit</b>	<b>43,301</b>	<b>46,942</b>	<b>51,909</b>	<b>47,699</b>	<b>Gross profit</b>
Research and development	(5,884)	(6,421)	(7,893)	(6,812)	<b>Research &amp; development</b>
Marketing	(23,507)	(26,569)	(29,732)	(30,009)	<b>Marketing</b>
Sales	(1,764)	(1,931)	(2,530)	(2,563)	<b>Sales</b>
General and administration	(2,960)	(2,803)	(2,762)	(2,947)	<b>General &amp; administration</b>
<b>EBIT (operating profit)</b>	<b>9,186</b>	<b>9,218</b>	<b>8,992</b>	<b>5,368</b>	<b>Income from ops</b>
Interest	(1,073)	(1,102)	(1,147)	(1,182)	<b>Interest inc/exp</b>
Taxes	(2,761)	(2,429)	(2,193)	(1,764)	<b>Taxes</b>
<b>Net income</b>	<b>5,352</b>	<b>5,687</b>	<b>5,652</b>	<b>2,422</b>	<b>Net income</b>

**Sales revenues** are the most important components of the income statement and are used in several of the ratios seen throughout the module.

**Cost of good sold** relates to direct labor and raw materials needed to create the product or service that is being sold, as well as depreciation on manufacturing equipment used in production.

**Gross profit** tells us what the gross margin is before we take into account any other costs needed to keep the company running.

**Indirect expenses** are those required to keep the company going. The most common are: research & development, marketing, sales, and general & administration.

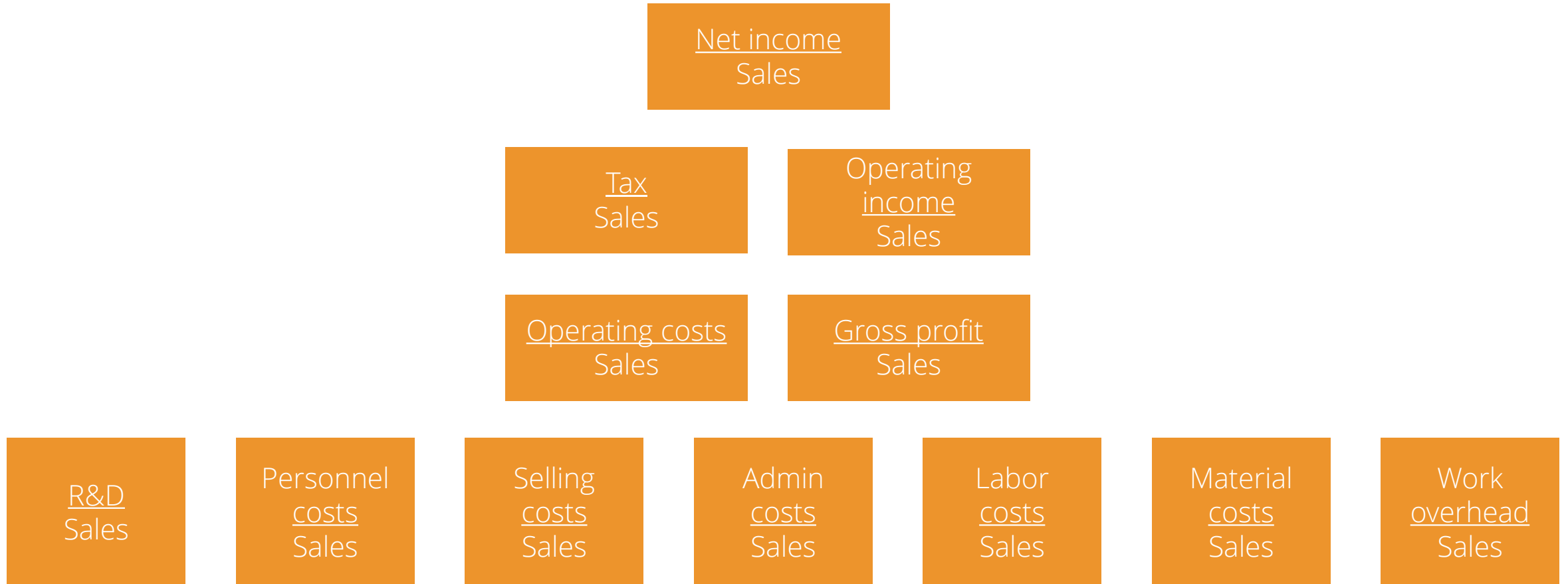
**Operating income** is used to pay the government, creditors, and ultimately the shareholders.

**Net income** is the final part of the income statement and represents what is remaining to be paid to the shareholders.



# Vertical analysis

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# Gross profit margin

There are three key profitability ratios:



$\frac{\text{Gross profit}}{\text{Sales}}$

= **Gross profit margin** %



# Operating profit margin



= Operating profit margin %



# Net profit margin



= Net profit margin %





# Efficiency ratio

The tax ratio is the efficiency ratio that demonstrates how well managing tax.



= Tax  
ratio



# Solvency ratio

The interest coverage ratio tells us whether the company will be able to cover what it owes in interest to its creditors.



= Interest  
coverage  
ratio



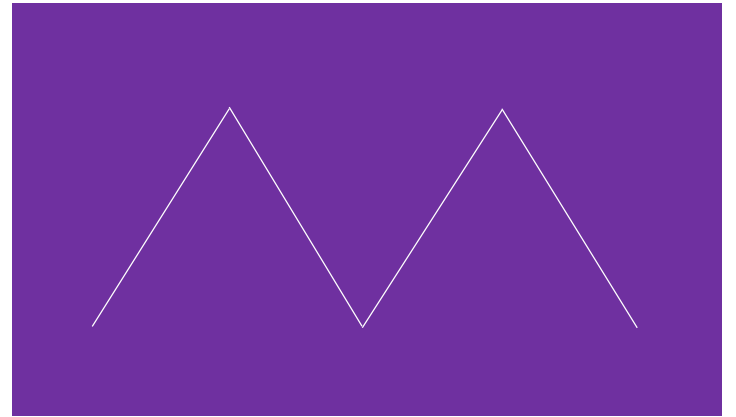
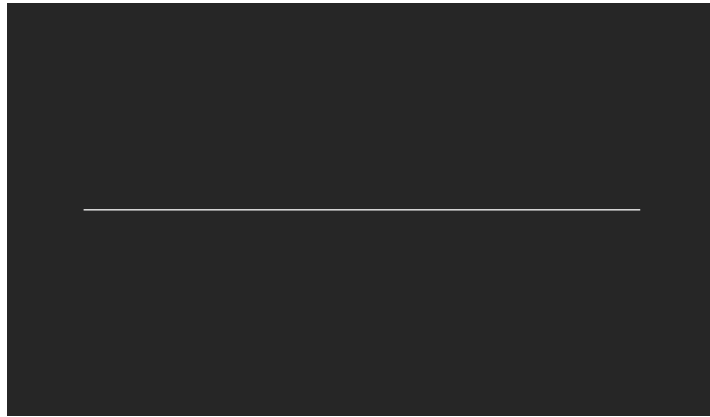
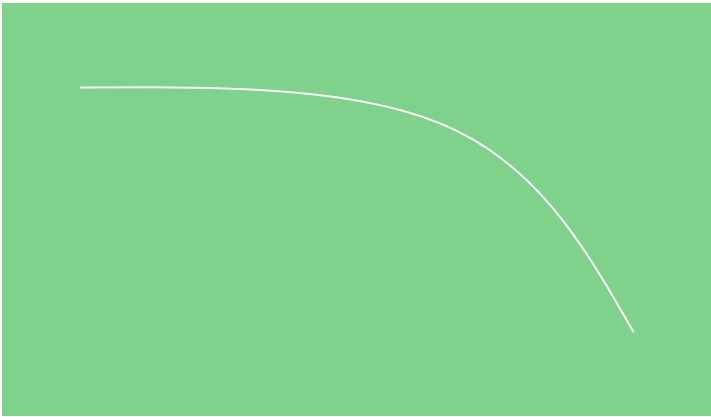
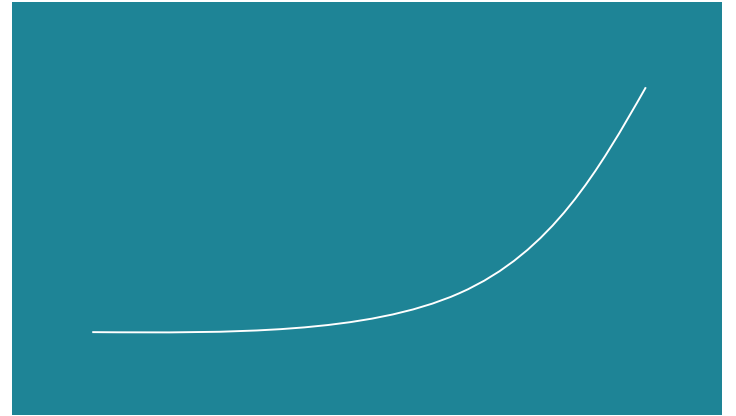
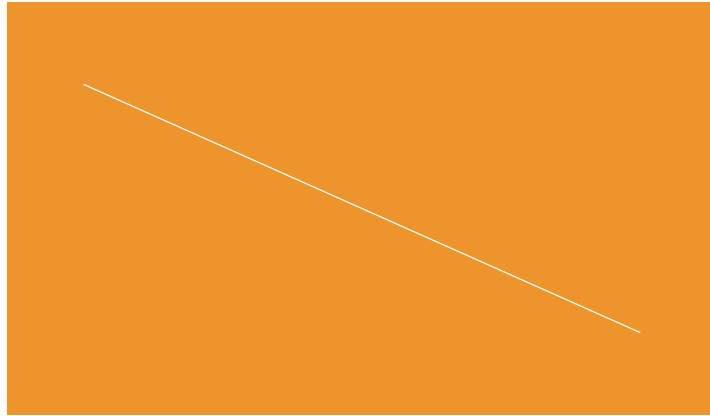
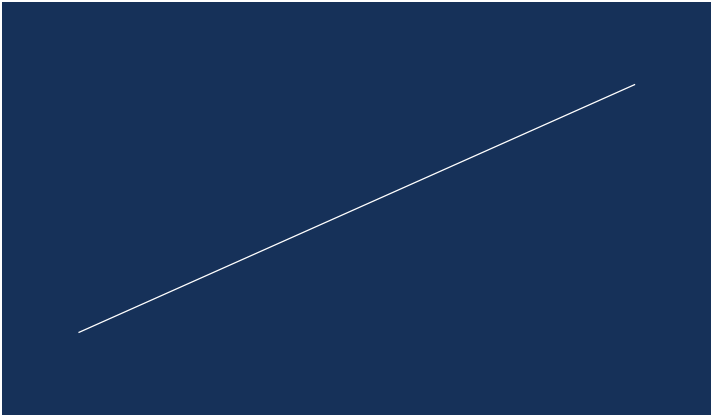
# Horizontal analysis

Tensel					
Income statement					
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Use calculations from the past five years to perform trend analysis and predict future performance

# Horizontal analysis

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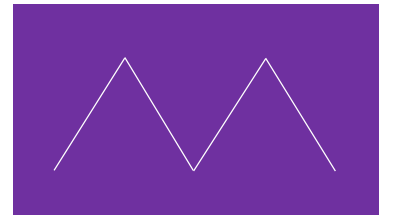
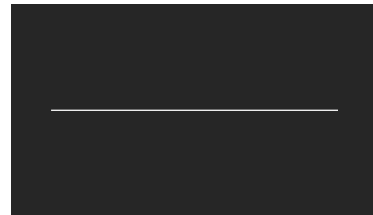
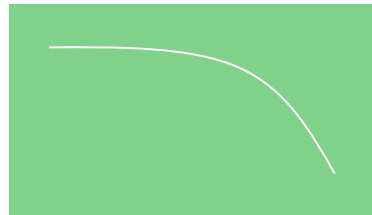
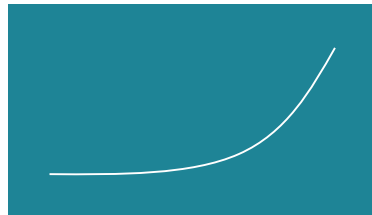
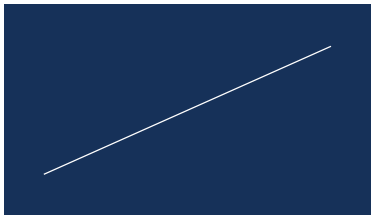




# Benefits of horizontal analysis



Are margins rising or falling?  
Is performance improving or declining?  
What is causing margins to fall?  
Are margins impacted by indirect costs?



# Benchmarking

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## There are different ways to benchmark:

- Compare your company to two or more competing companies
- Compare your company's ratios to the industry average



Your competitor/  
Industry average

VS



Your company

# Sources of benchmarking information

## Where can you find a competitor's statements?

- Three key online sites including EDGAR, SEDAR and RNS
- Competitors' investor relations websites

Historical ratios for companies can be found on MSN Money and Google Finance, but allow very little control over the information and provide little insights on the calculation of ratios.

Professional sources such as Bloomberg, Capital IQ, and equity research reports provide detailed information but are more costly.



# Conclusion



Understand past performance, to predict future success



Income statement analysis is just the first step to the overall analysis



Use vertical and horizontal analysis, as well as benchmarking, to maximize your company's performance



Make better investment and credit decisions from outside the company





# Balance Sheet and Leverage Ratios

# Session objectives



Determine the financial strength of a company by analyzing the balance sheet



Use the balance sheet to determine how efficiently a company is being run



# Financial analysis

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There are many important steps, such as trend and ratio analysis, in preparing a financial analysis. The starting point is the financial statements:



**Income  
statement**



**Balance  
Sheet**

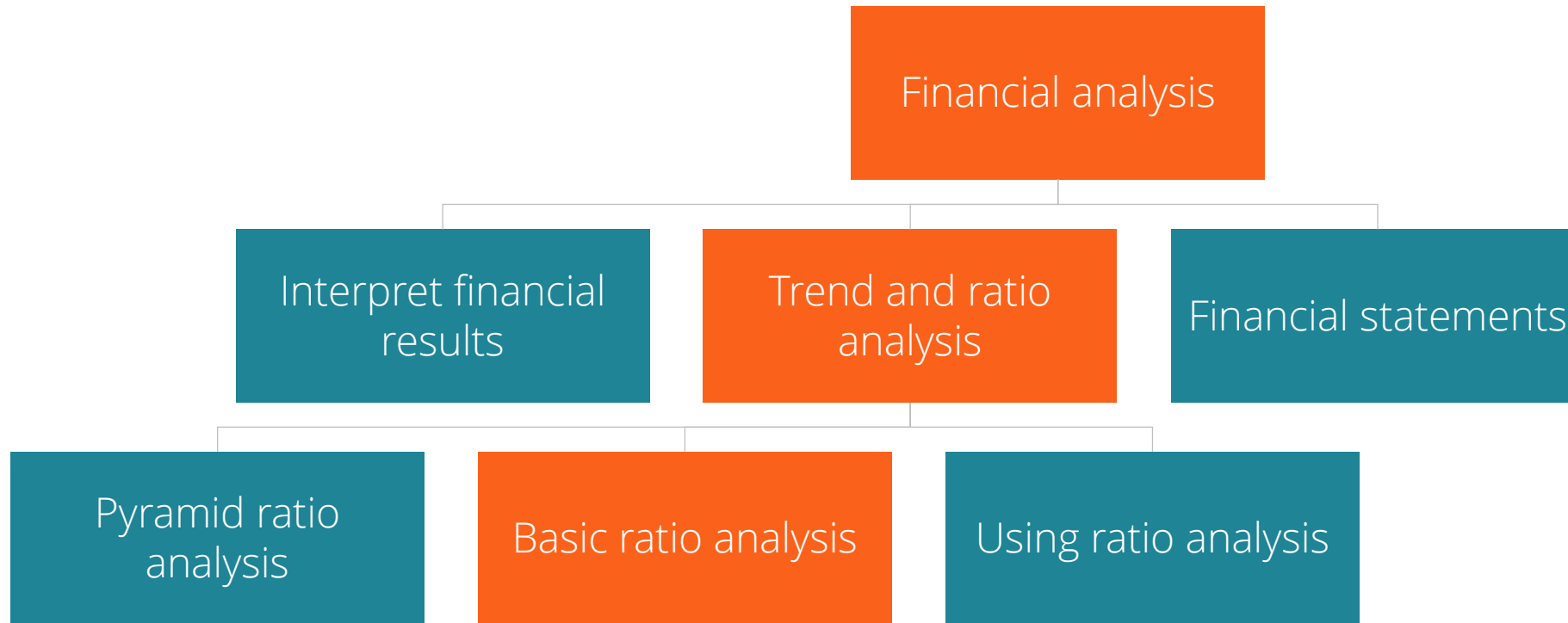


**Statement of  
Cash Flows**

# Financial analysis

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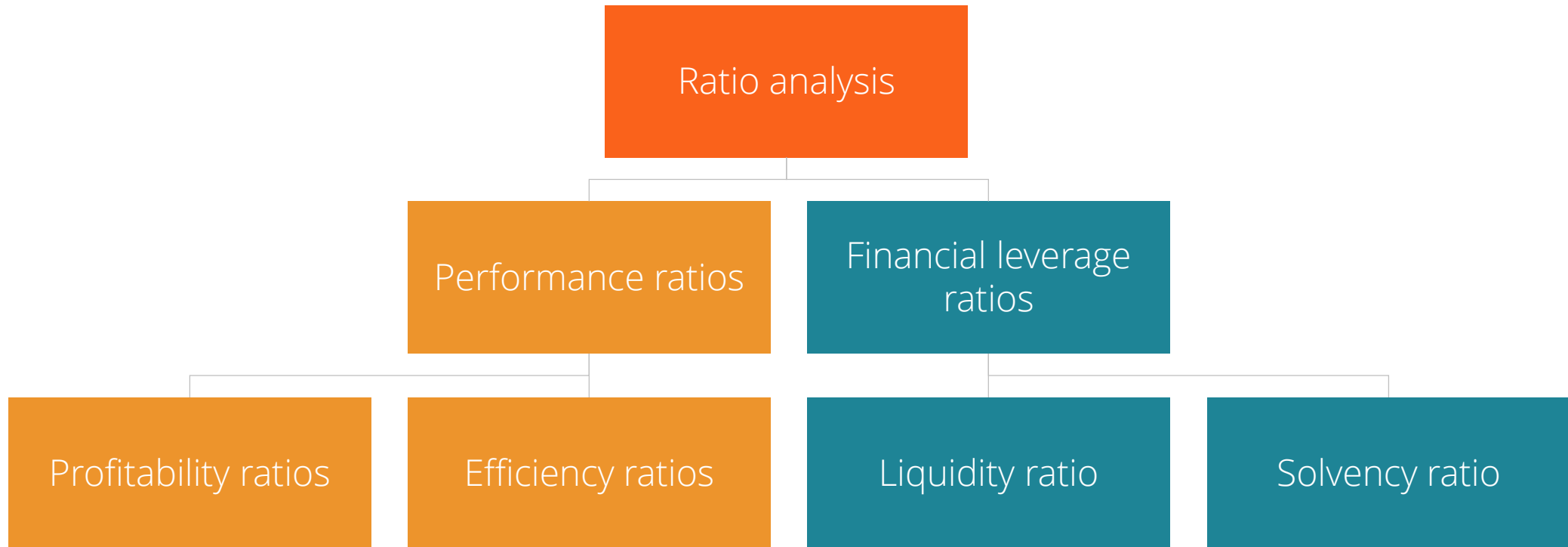
# Financial analysis

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# Components of ratio analysis

Ratio analysis covers two basic groups:





# Short term liquidity ratios

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1  
Current  
ratio

2  
Quick  
ratio

# Current ratio

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Accounts receivable      Inventory      Cash      Prepaid expenses



$$\frac{\text{Current assets}}{\text{Current liabilities}}$$

Generic rule of thumb is 2:1

# Quick ratio or acid test ratio

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$$\frac{\text{Current assets} - \text{Inventory}}{\text{Current liabilities}}$$

Generic rule of thumb is 1:1

# Asset turnover ratio

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$$\frac{\text{Sales Revenue}}{\text{Total (or net) Assets}}$$

## Tells us:

How efficient is the company in using assets to generate revenue?

For every 1 dollar of assets, how many dollars of revenue the company generates?

# Conclusion

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## Always use trend analysis to determine:

- What are the ratios doing?
- Are they improving or deteriorating?

Short term liquidity ratios are an early warning signal to cash flow issues.



# Working capital overview

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## Working capital

**Current Asset – Current Liabilities**



# Working capital overview

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## Working capital

Inventory

Receivables

Payables

Operating activities

# Working capital overview

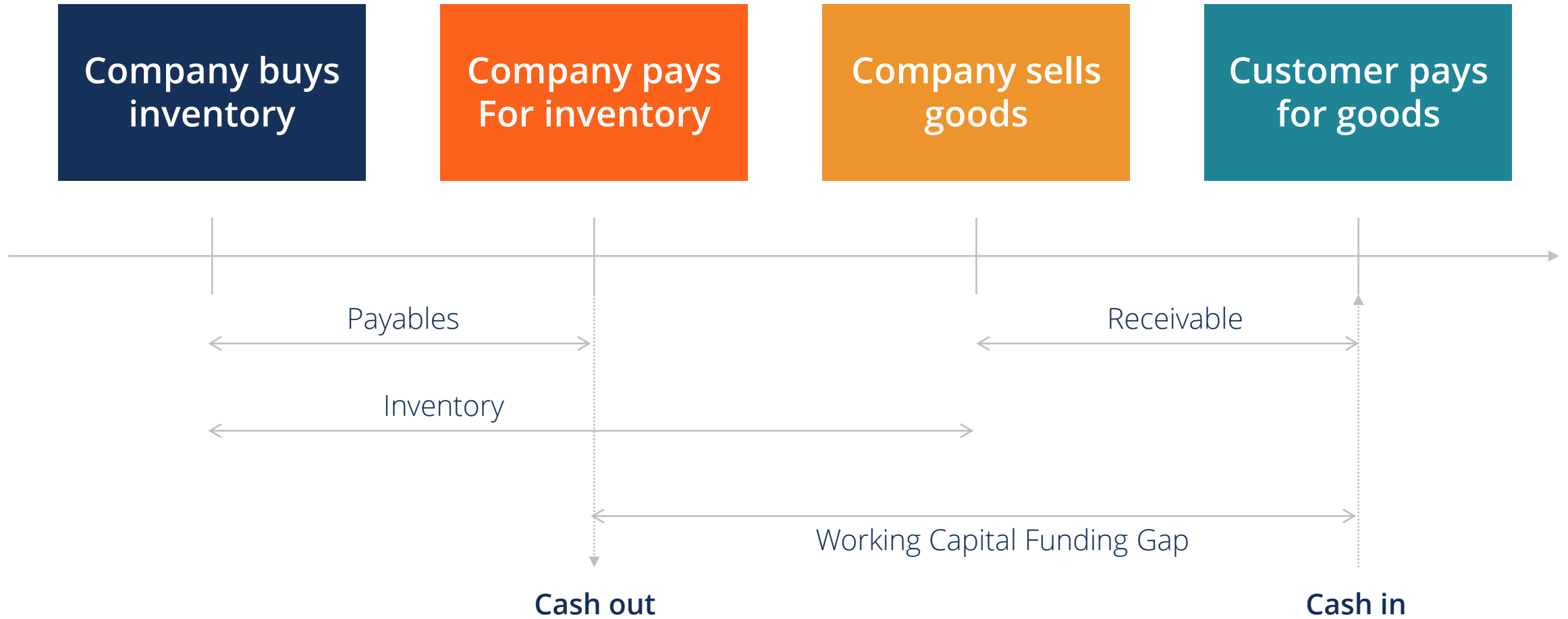
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## Working capital



Operating activities

# Working capital funding gap



# Working capital funding gap

What would happen to the working capital funding gap?

Company buys inventory

Customer pays for goods

Increase

Decrease

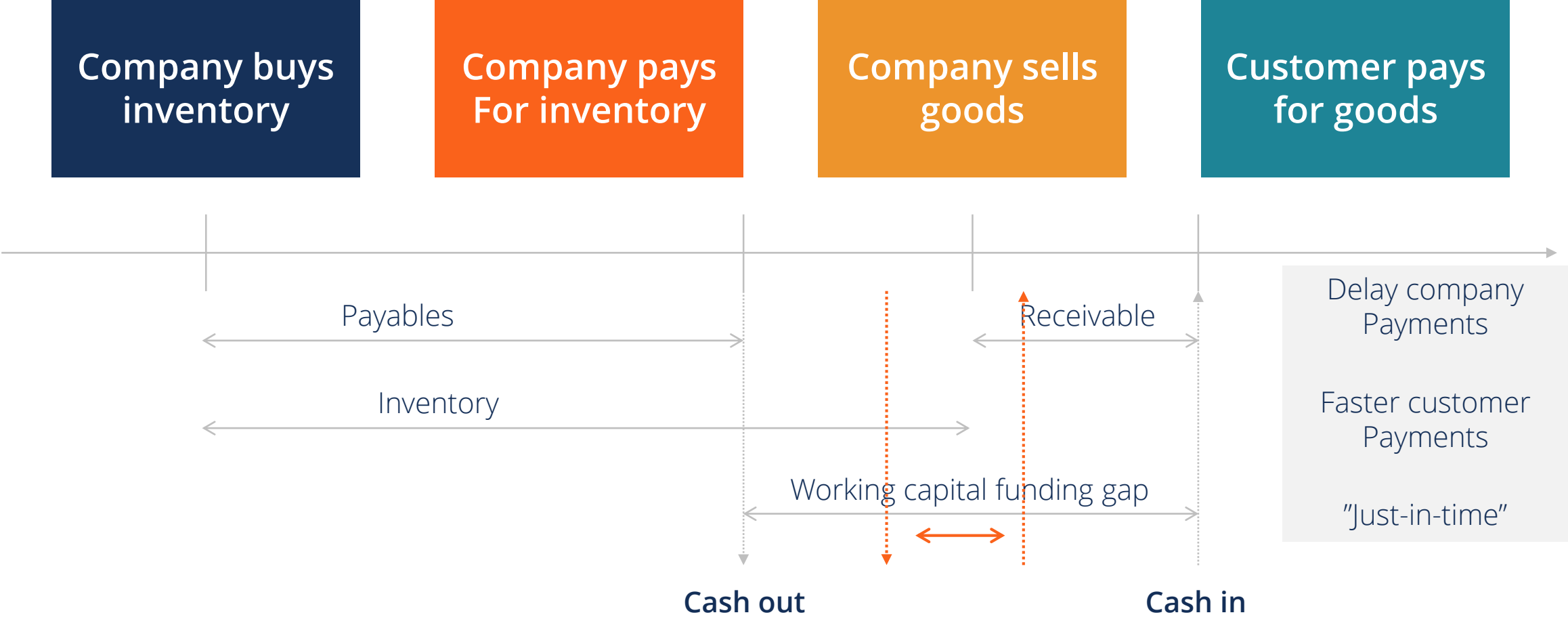
Inventory

Working capital funding gap

Cash out

Cash in

# Working capital funding gap



# The working capital efficiency ratios

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2

**Ratios for each**

Inventory, Accounts  
receivable, Accounts payable

+

Working capital  
efficiency ratio



# Inventory

## Inventory efficiency ratios

$$\frac{\text{Cost of sales}}{\text{Inventory}}$$

Inventory  
turnover ratio

$$\frac{\text{Inventory} \times 365}{\text{Cost of sales}}$$

Inventory  
days ratio



# Accounts receivable

## Accounts receivable efficiency ratios



$$\frac{\text{Sales}}{\text{Accounts rec.}}$$

Receivable  
turnover ratio

$$\frac{\text{Accounts rec.} \times 365}{\text{Sales}}$$

Receivable  
days ratio

# Accounts payable

## Accounts payable efficiency ratios


$$\frac{\text{Cost of sales}}{\text{Accounts pay.}}$$

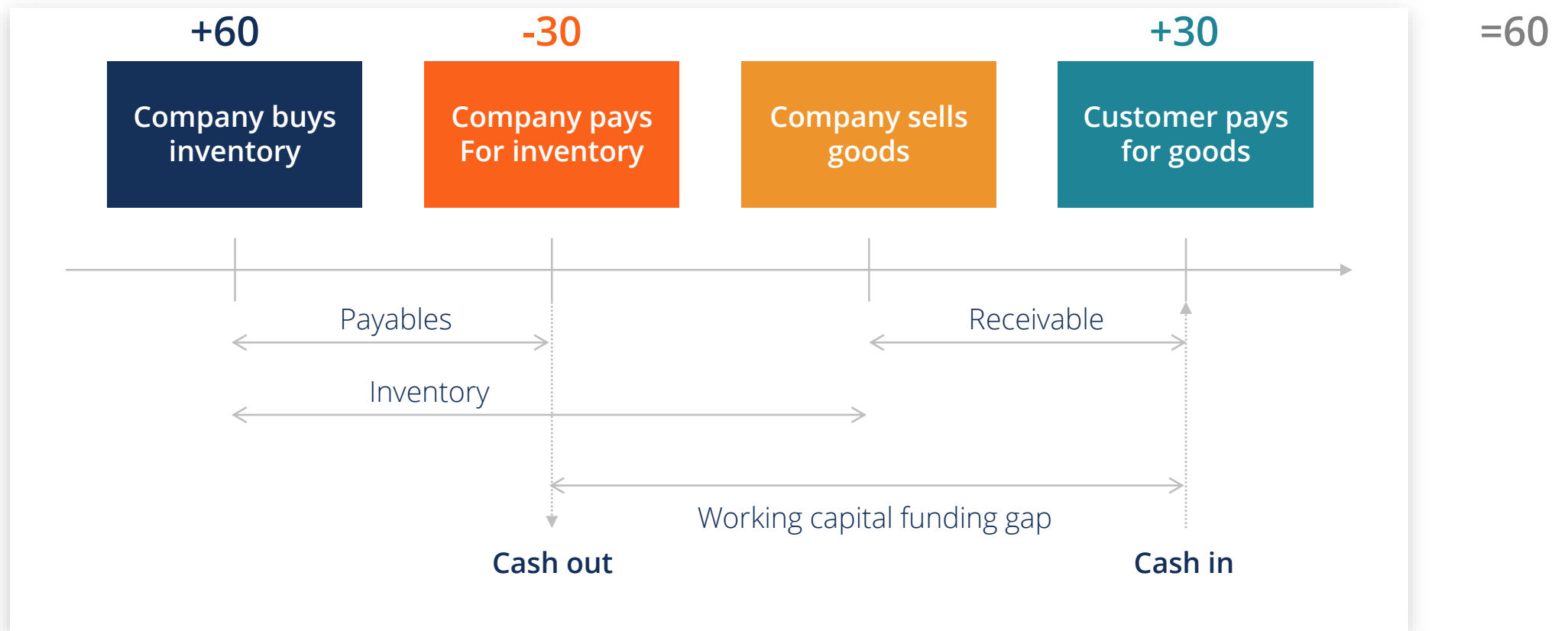
Payable  
turnover ratio

$$\frac{\text{Accounts pay.} \times 365}{\text{Cost sales}}$$

Payable  
days ratio

# The funding gap

Inventory days plus accounts receivable days minus accounts payable days will leave you with the working capital funding gap expressed as days.



# PP&E efficiency ratio

Property, plant and equipment ratio



**PP&E**  
**= turnover**  
**ratio**



If the ratio is comparatively low, it means either sales are low or you have invested too much in PP&E.



# Conclusion



Financial analysis is important in understanding a company's financial condition and performance



Use in conjunction with information from the income statement to gain valuable company insights



With ratio and trend analysis you can build expectations of future performance



Performance can be improved to increase operational efficiencies





# Cash Flow Statement and Ratios

# Session objectives

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Understand the inflows and outflows of cash throughout the year



Calculate solvency and leverage ratios



Examine funding options for an organization looking to grow



# Financial analysis

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**Income  
statement**



**Balance  
Sheet**



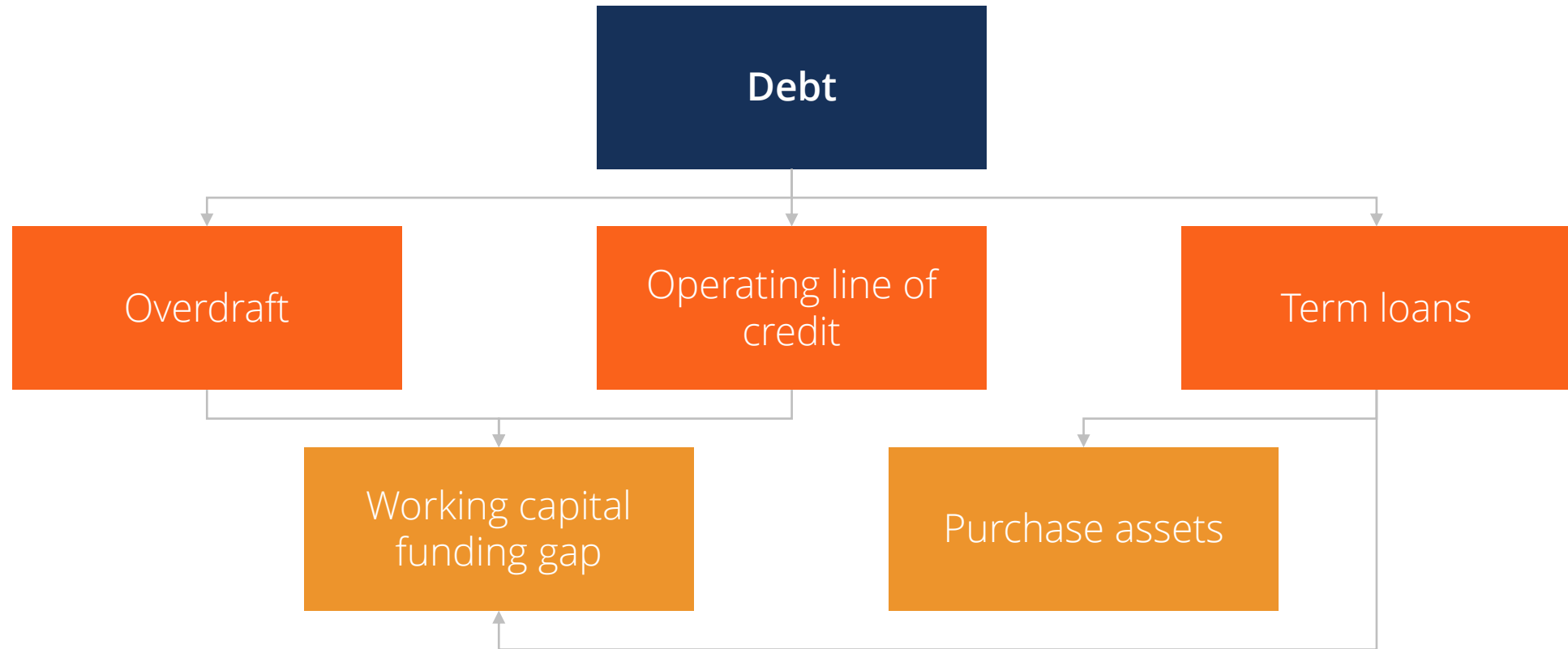
**Statement of  
Cash Flows**

# Analyzing cash flow groups



# Understanding debt

There are many options available when looking for debt financing:



# Debt financing

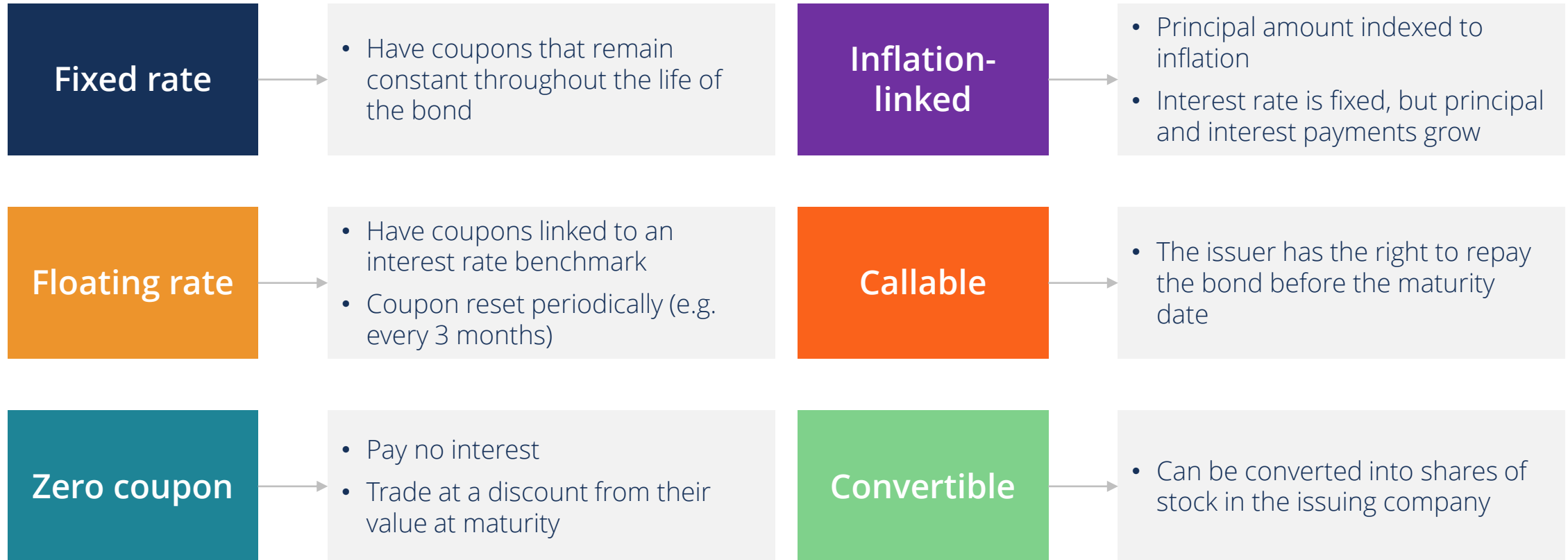
- Bonds are a common form of debt financing
- The normal contract with rate of interest is called the "coupon"
- Issuing bonds is a common method of raising funds
- Most useful in funding long-term investments



A bond is a debt instrument requiring the issuer (also called the debtor or borrower) to repay to the lender/investor the amount borrowed plus interest over some specified period of time

Source: Frank Fabozzi Bond  
Market analysis & strategies

# Types of bonds



# Warrants and convertibles compared

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## Bonds with warrants

- Tend to be more common in private placements
- The warrant can be detached
- Warrants are exercised for cash



## Convertible bonds

- Convertible bonds are issued publicly
- The bond and the option are bundled together
- Bonds are exchanged for common stock



# Types of syndicated loans

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Syndicated lending is where two or more banks provide credit to one borrower in one agreement.

## Term loans

A loan with a fixed maturity and normally featuring the amortization of principal

## Revolving credit facilities

Offering the borrower the right, but not the obligation to draw a loan

## Standby facilities

Lines only expected to be used in extraordinary circumstances (e.g. commercial paper backup)

# Leasing as an option

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When an asset is leased, it remains the property of the lessor. Different accounting standards treat leases differently depending on how the lease is structured.



## Capital (finance) lease

Usually longer term; most of the risks and rewards of ownership transfer to lessee

Recorded on balance sheet



## Operating lease

Usually shorter term; risks and rewards **do not** transfer to the lessee

Recorded in income statement

# Leasing as an option

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**Capital (finance) lease**

A capital of finance lease is a way to borrow funds for assets directly through the assets' owner

# Leasing as an option

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**Operating lease**

An operating lease is a way to obtain use of an asset until it is no longer required or useful

# Who can tap into the debt markets

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## To raise debt financing...

- Show a history of profitability
- Have assets that can be pledged as security

## If a company is not yet profitable...

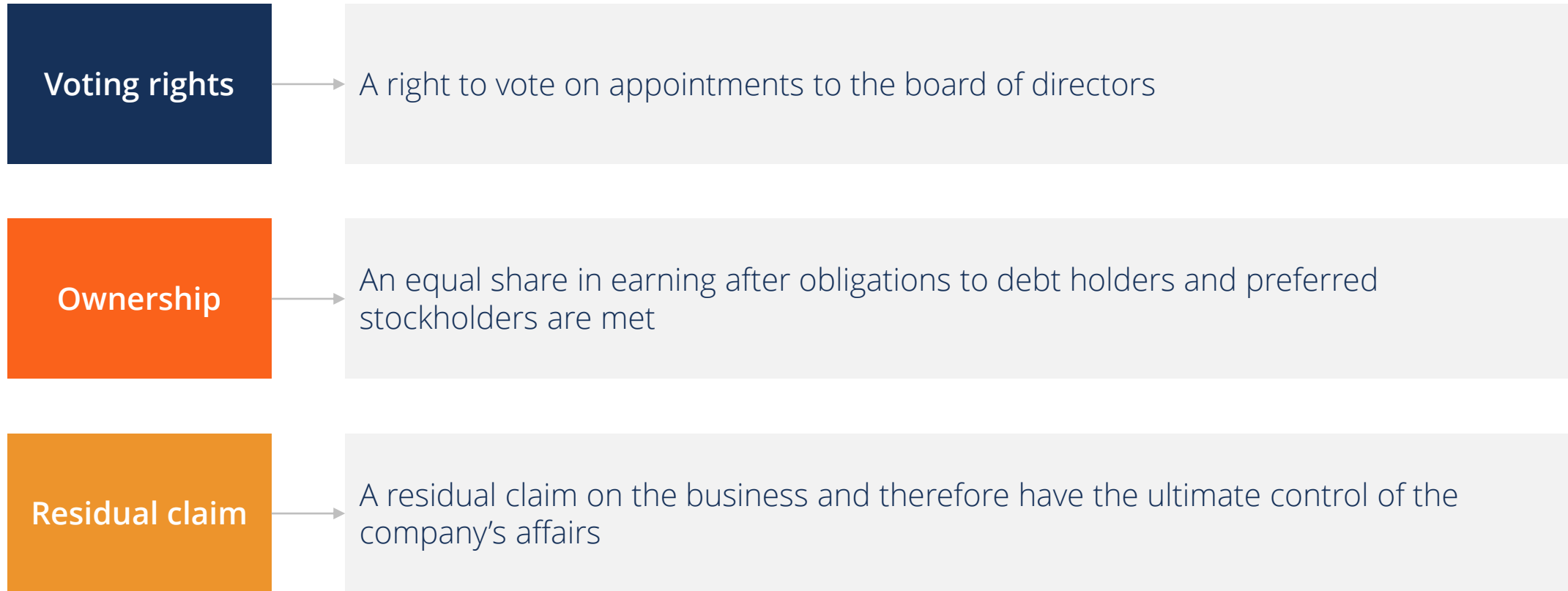
- Raise equity financing
- Dilute the existing shareholder to raise capital



# Equity types – common shares

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Equity consist largely of common shares. Ownership of common shares normally entitles the holder to:



# Equity types – preferred share varieties

## Cumulative

- Entitle holder to fixed rate of dividend and if unpaid arrears cumulate

## Convertible

- Right to convert the preferred stock into common stock at a specified future date at a specified rate of conversion

## Participating

- Have extra rights. In addition to receiving fixed dividend also participate in company's surplus profit

## Retractable

- Right to "retract" the share and pay the owner in cash at a specified price at maturity

## Redeemable

- Will be redeemed at a specified future date at the option of either the company or the shareholder



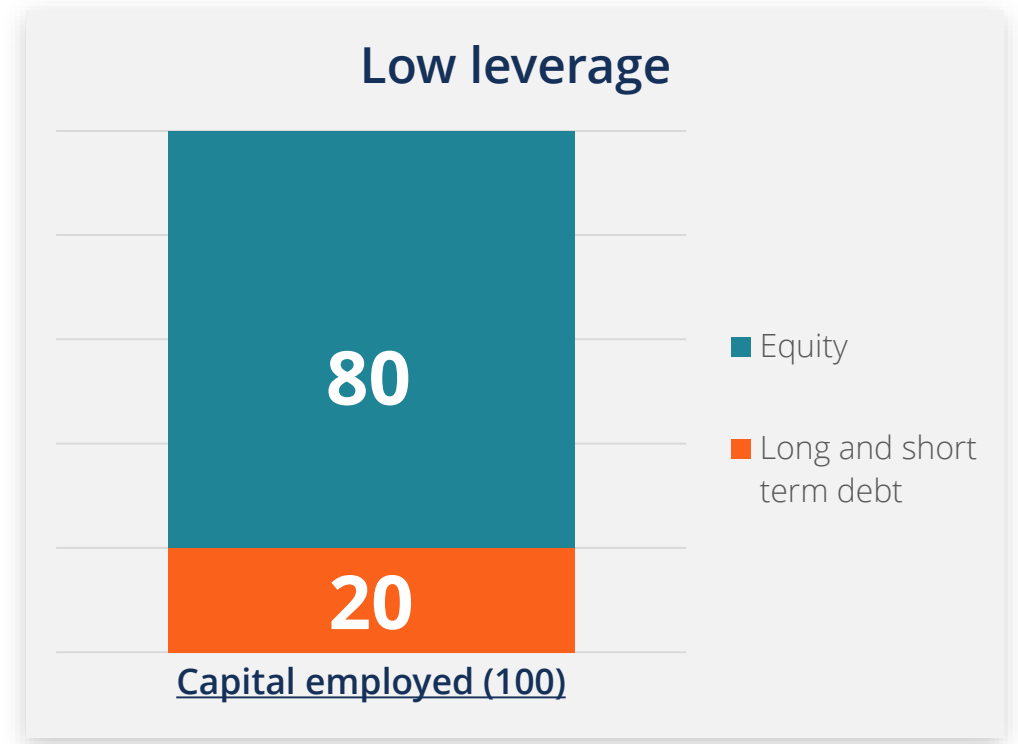
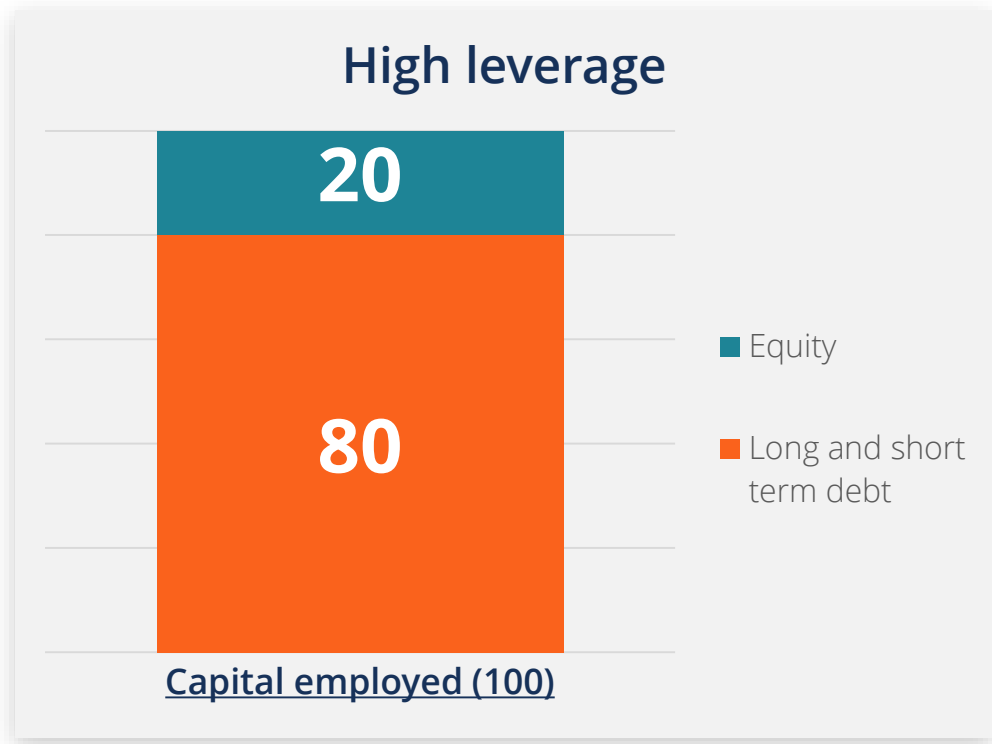
# Retained earnings

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# Managing the financing of business - leverage

Leverage expresses the relationship between funding provided by lenders and funding provided by shareholders.



# Growing the business using debt

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Investment in  
assets

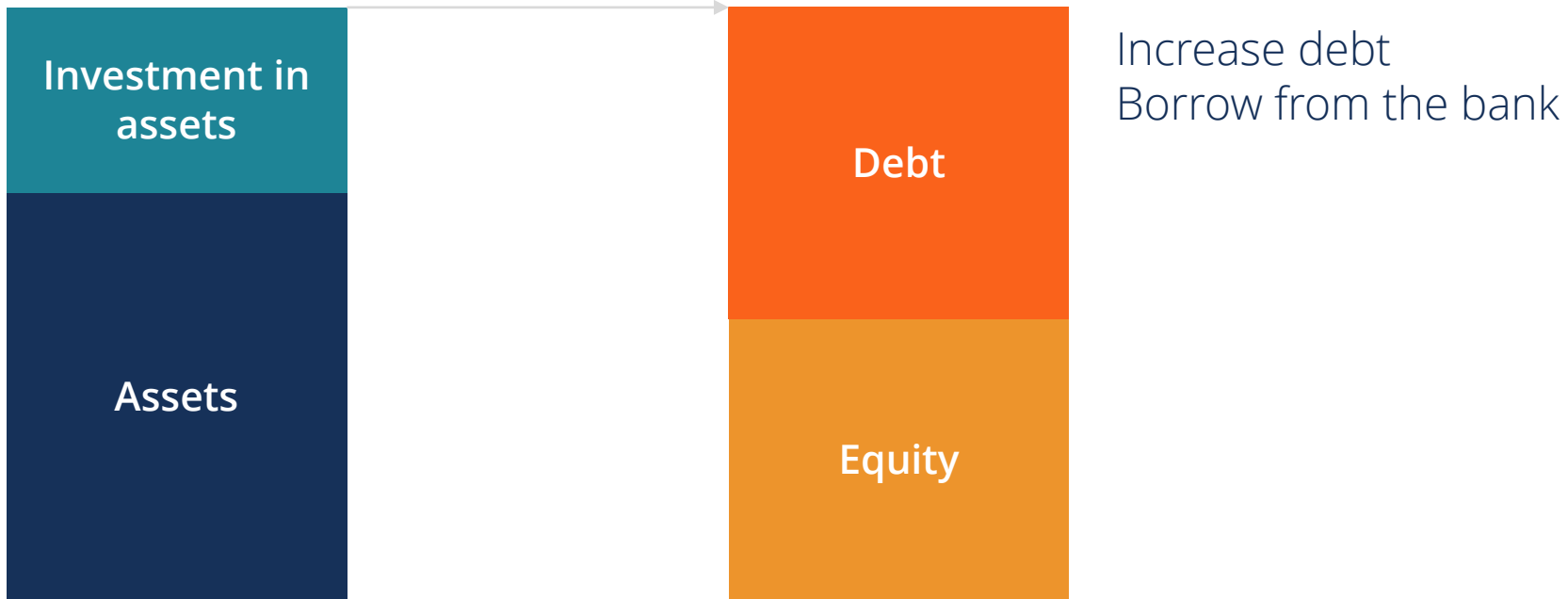
Invest in PP&E  
Increase cash working capital

Assets

Debt  
Equity

# Growing the business using debt

This is how you increase the leverage of the company by increasing debt rather than equity.



# The benefits of leverage

Leverage is effective for a number of reasons:



## Reason 1

It is often very quick and inexpensive to obtain a loan or extension of a line of credit from the bank



## Reason 2

A short term line of credit may be ideal for increasing inventory for a seasonal business, and a long term fixed payment loan for a significant investment in equipment to be used to increase production over a longer time period



## Reason 3

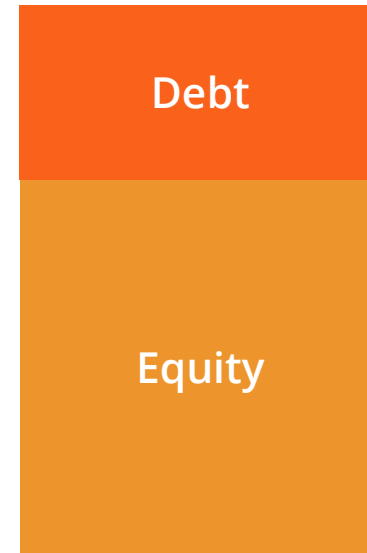
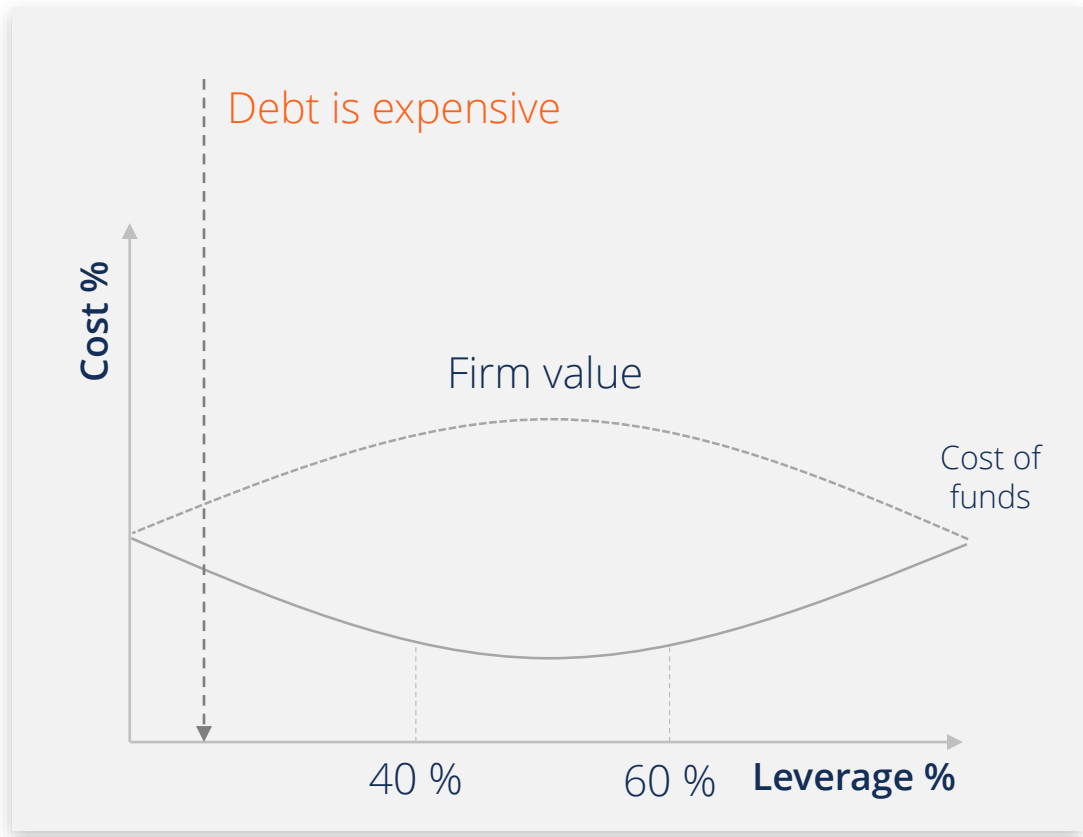
Increasing debt the current shareholders can increase the value of the company without having to reduce their share of the company



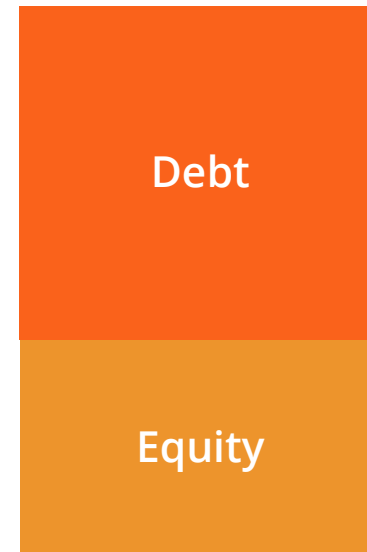
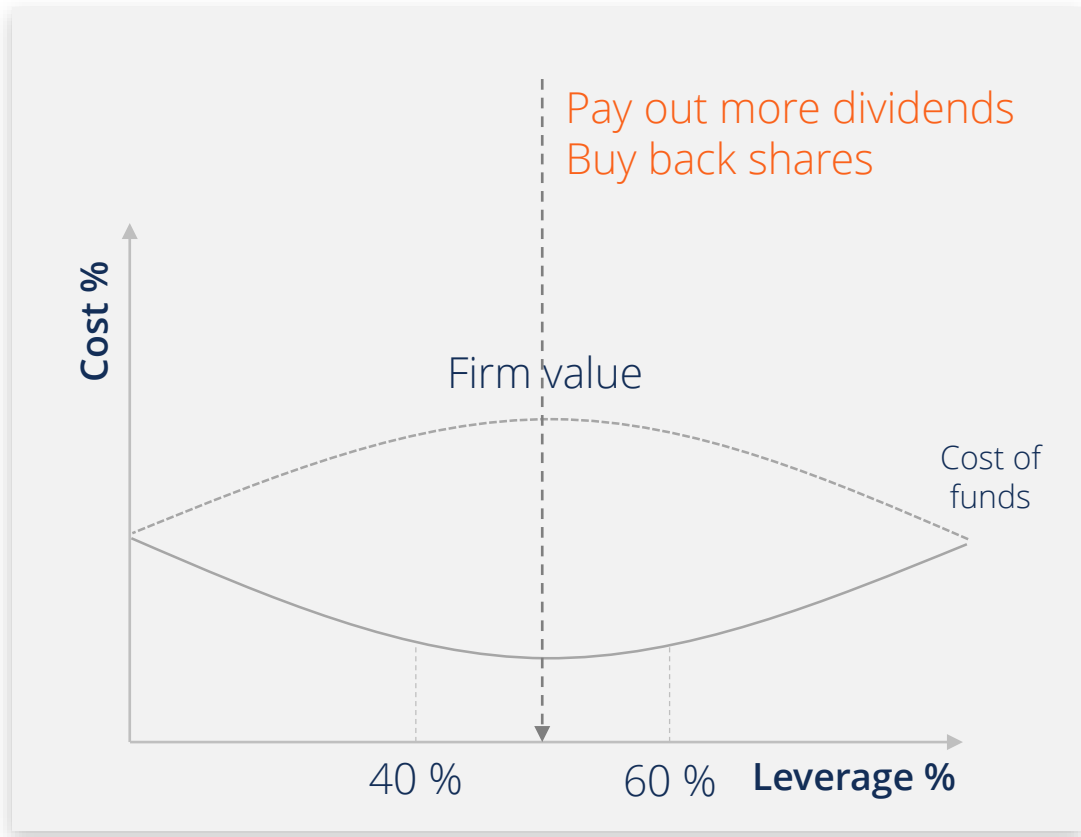
## Reason 4

If a company requires a large amount of funds intended for long term use and investment in the company, a share offering may be the best option

# An effective capital structure

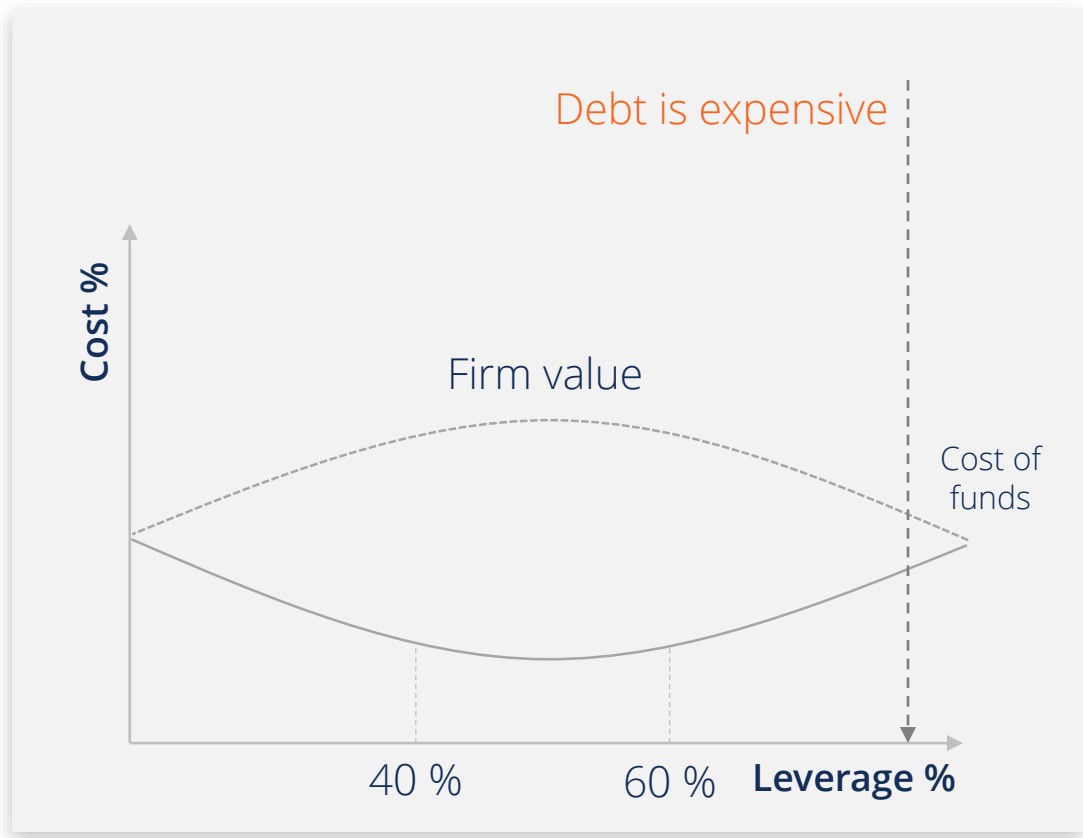


# An effective capital structure

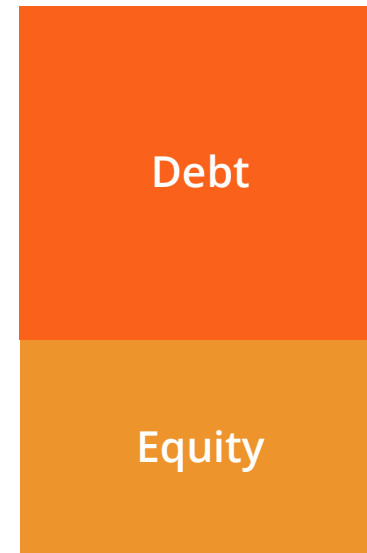
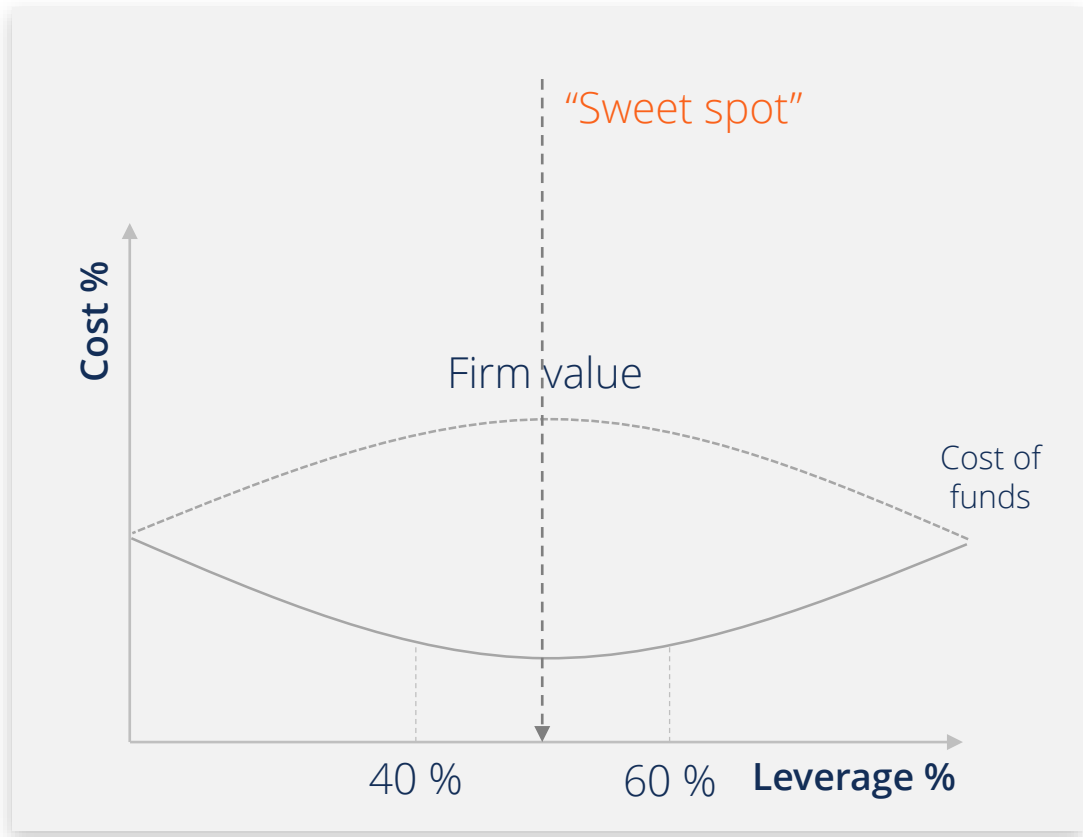




# An effective capital structure



# An effective capital structure



# Leverage ratios

There are several different ratios to use in order to assess the leveraging of a company:

Debt to equity (or debt to capital)	=	$\frac{\text{Interest bearing liabilities}}{\text{Total shareholder's equity}}$	If the ratio is greater than 100%, more of an organization's funding comes in the form of debt rather than equity
Debt to TNW*	=	$\frac{\text{Interest bearing liabilities}}{\text{Equity} - \text{Intangible assets}}$	A ratio of 1 would be reasonable, but if it's greater than 1, then attention should be paid to how a company is managing its financing activities
Total liabilities to equity	=	$\frac{\text{Total liabilities}}{\text{Equity}}$	The ratio would be used with conjunction with the debt to equity ratio to determine the impact that operational liabilities has on the funding of the business
Total assets to equity	=	$\frac{\text{Total assets}}{\text{Equity}}$	If the ratio is low, the company may be underleveraged. If the company number is high, then the organization, while taking advantage of debt, may be over-levered
Debt to EBITDA	=	$\frac{\text{Interest bearing liabilities}}{\text{EBITDA}}$	This ratio is used to assess the amount of leverage relative to EBITDA, this ratio is commonly used by lenders. Can range by industry from 1 – 5 times

# Conclusion



Analyze how management is raising and using funds by reviewing cash flow of the business



Describe all the benefits and possible pitfalls of leverage



Understand how leverage can be altered using a variety of debt and equity options



The cash flow analysis is one side of the pyramid of ratios found in Module 4





# Rates of Return and Profitability Analysis

# Session objectives

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Use the pyramid of ratios to explain what drives a company's financial performance

# Financial analysis

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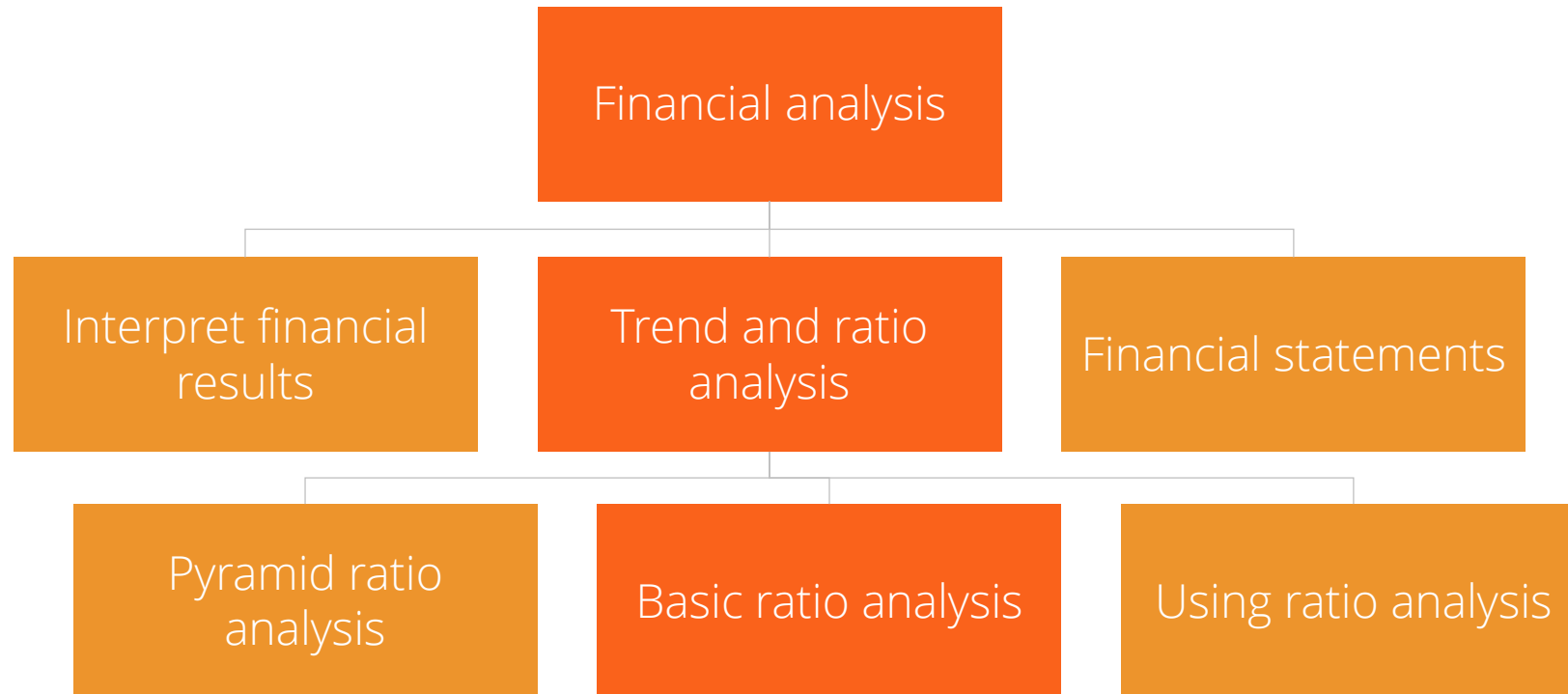
**Statement of  
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# Financial analysis

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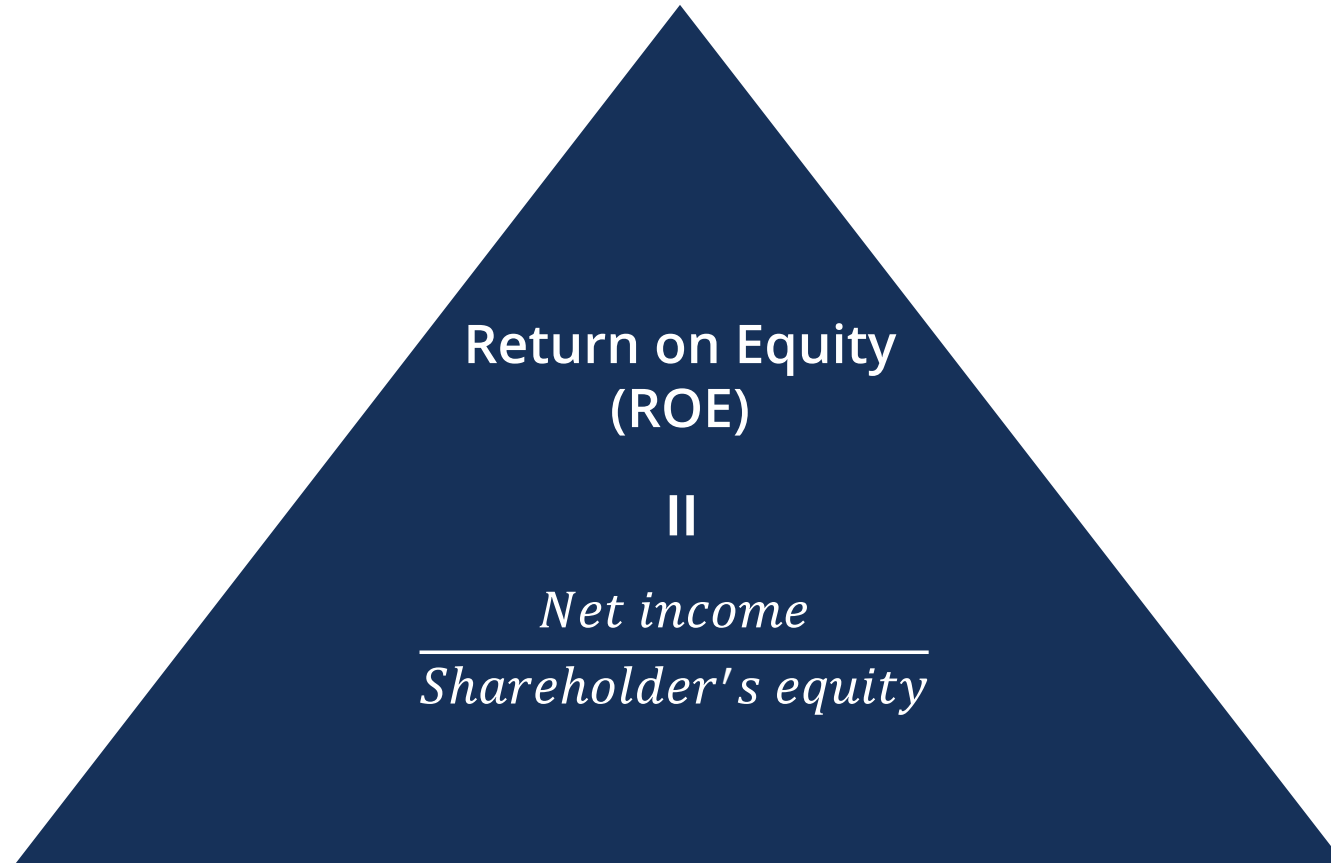
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# Pyramid of ratios introduction

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# Financial metrics

Financial Analysis

**Module 1** – Analyzing the income statement

Financial Analysis

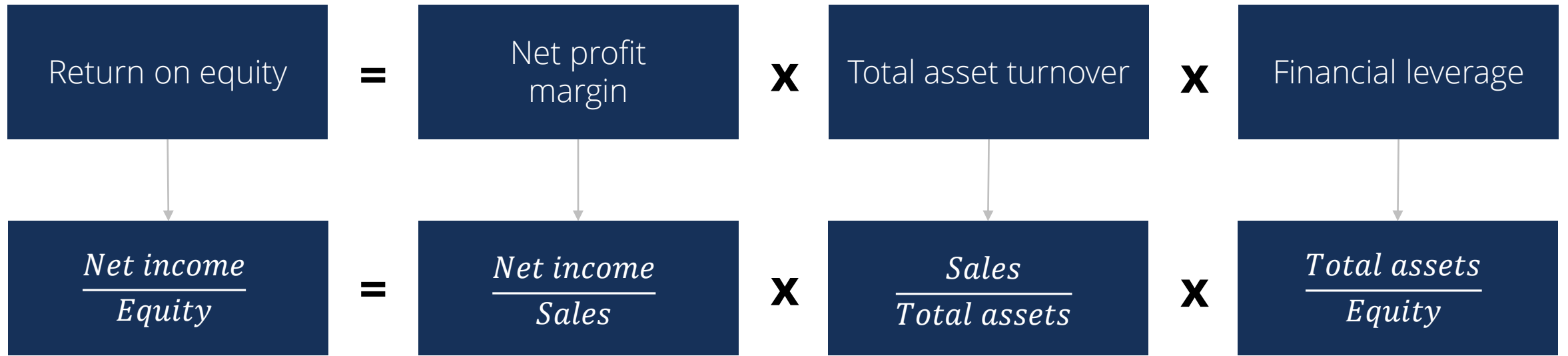
**Module 3** – Funding the business

Return on equity

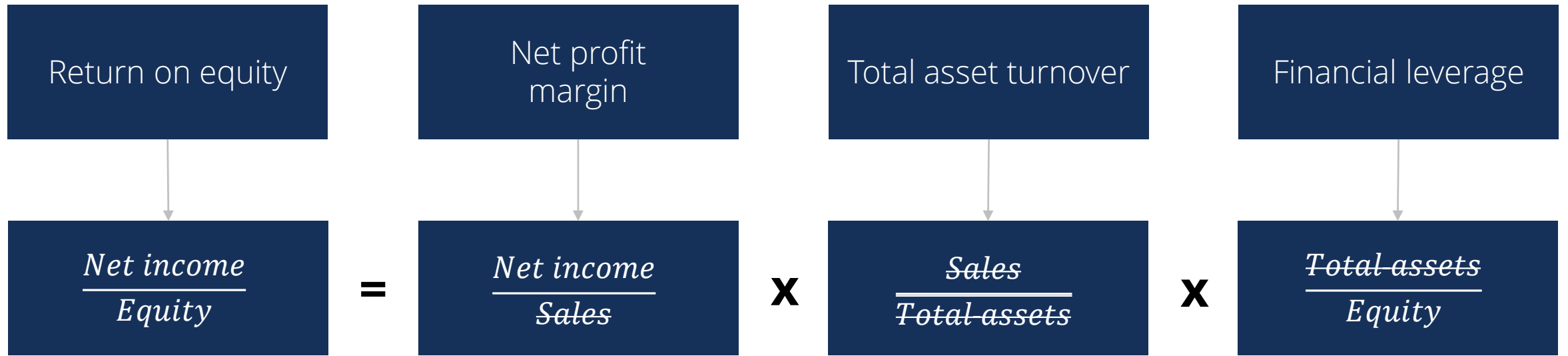


# ROE levers

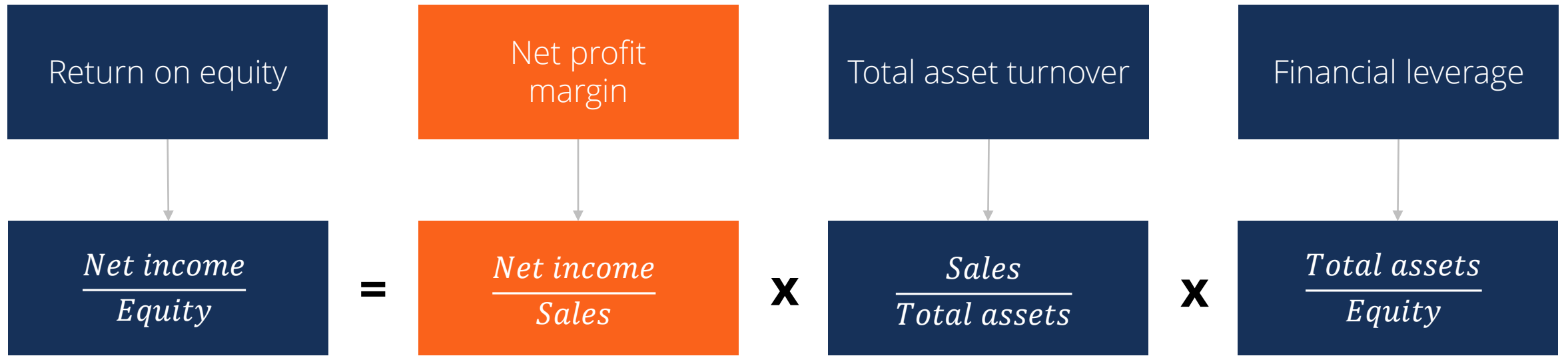
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# ROE levers

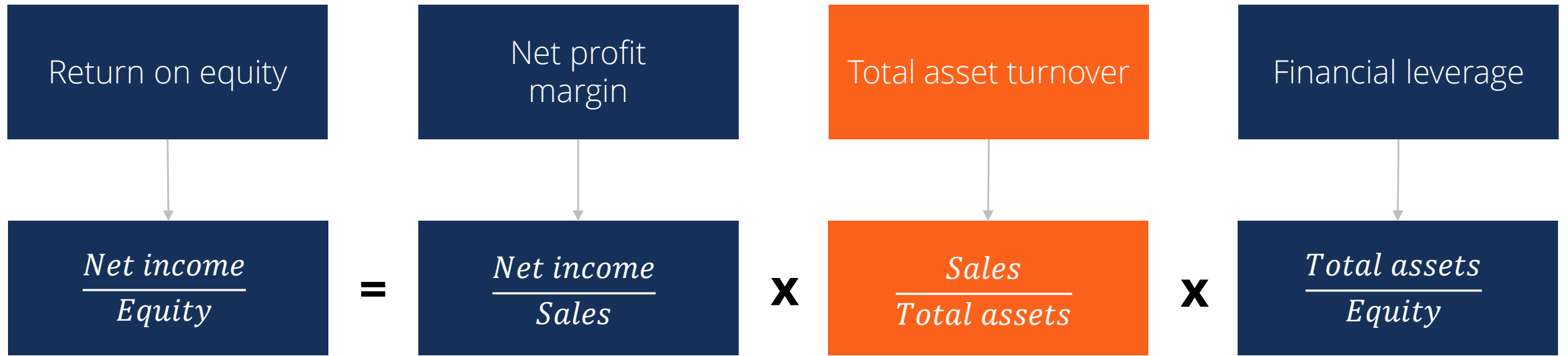


# ROE levers



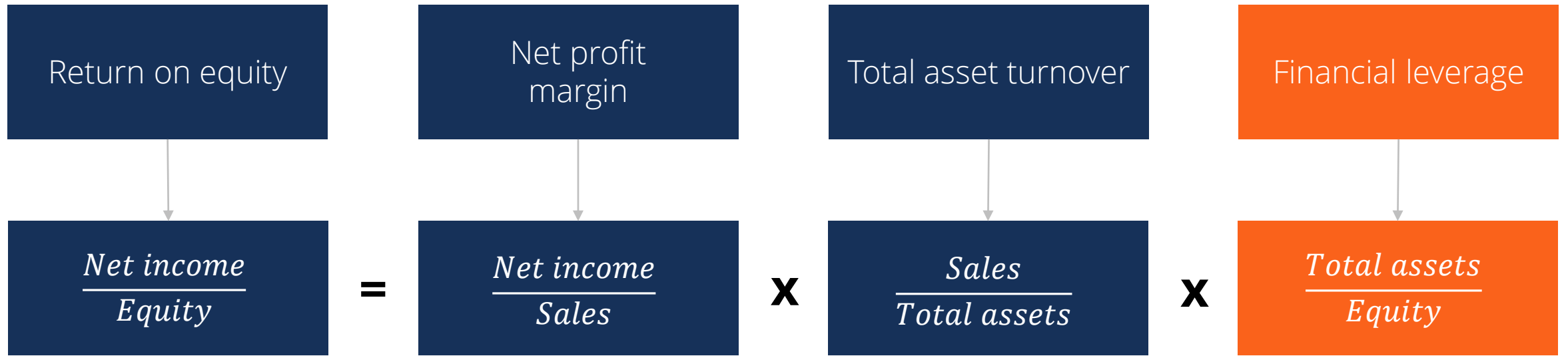
Net profit margin = Net income / Sales

# ROE levers



Total asset turnover = Sales / Total assets

# ROE levers



Financial leverage = Total assets / Equity

# The Dupont analysis

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ROE

$$\frac{\text{Assets}}{\text{Equity}}$$

$$\frac{\text{Sales}}{\text{Assets}}$$

$$\frac{\text{EBIT}}{\text{Sales}}$$

$$\frac{\text{Pretax profit}}{\text{EBIT}}$$

$$\frac{\text{Net income}}{\text{Pretax profit}}$$

Leverage equity

Volume  
impact

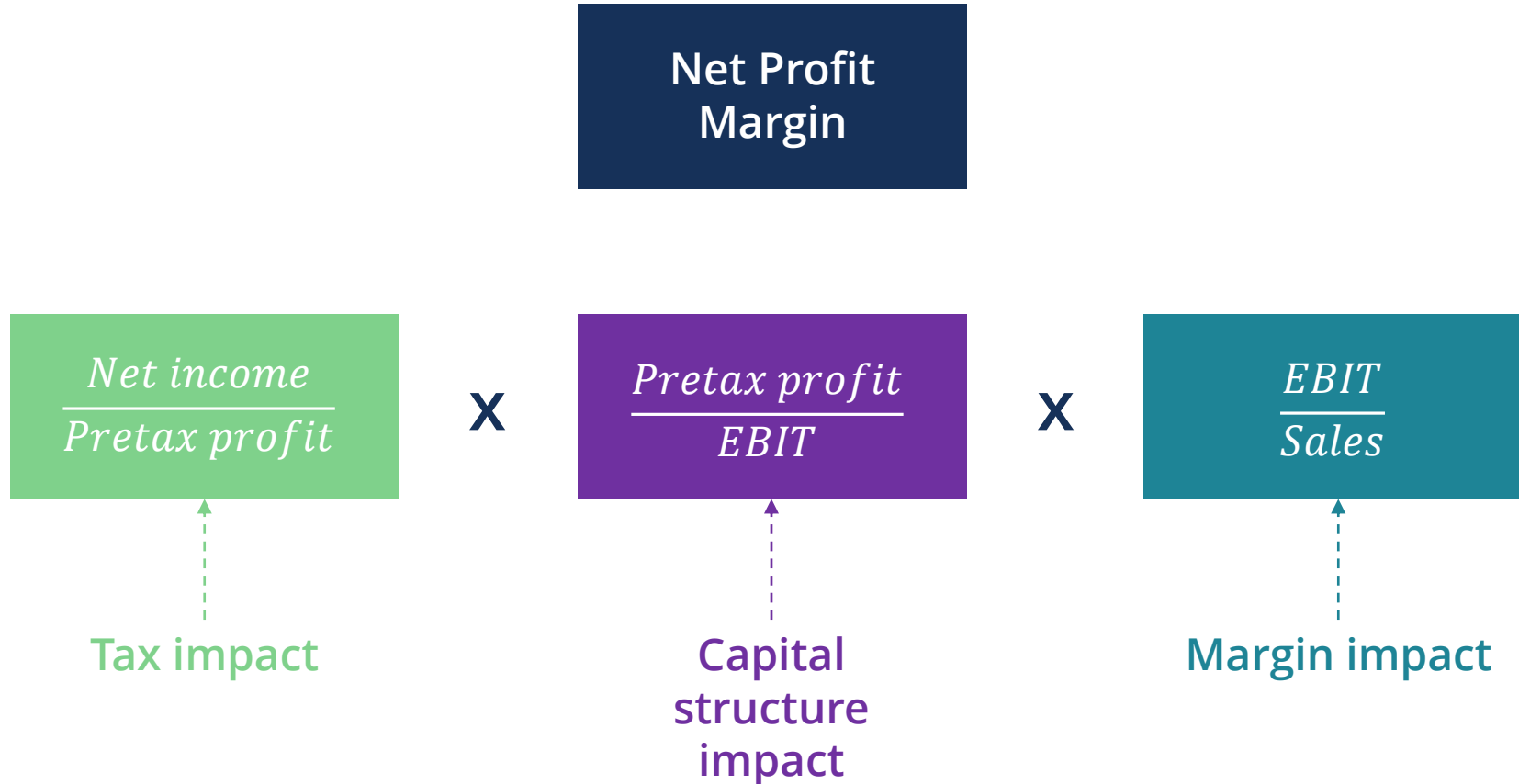
Margin  
impact

Capital structure  
impact

Tax impact



# Secondary profitability ratios



# Secondary profitability ratios

If taxes are zero, these two values would be equal, and the ratio would equal one

$$\frac{\text{Net income}}{\text{Pretax profit}}$$

=  
Tax impact

If debt is zero, these two values would be equal, and the ratio would equal one

$$\frac{\text{Pretax profit}}{\text{EBIT}}$$

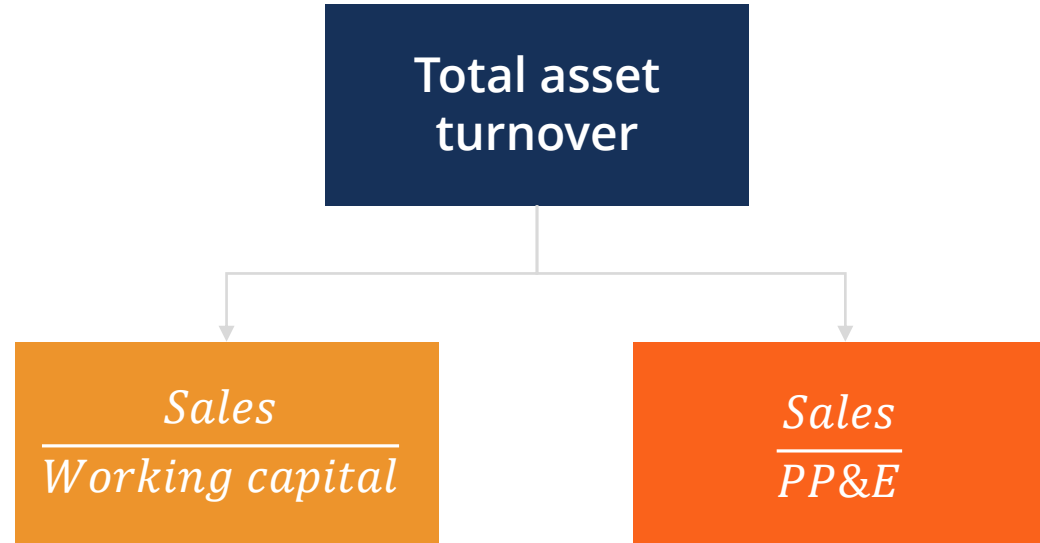
=  
Capital structure impact

$$\frac{\text{EBIT}}{\text{Sales}}$$

=  
Margin impact

# Secondary efficiency ratios

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# Secondary efficiency ratios

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At the time of initial investment the ratio will be driven down and will improve over time

$$\frac{\text{Sales}}{\text{PP\&E}}$$

=  
PPE turnover

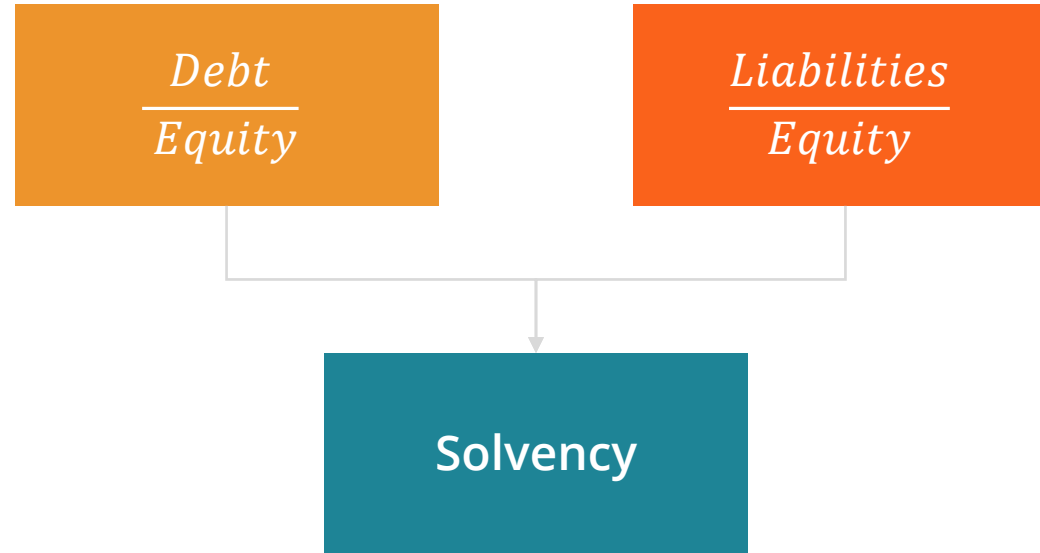
- Inventory
- Receivable
- Payable

$$\frac{\text{Sales}}{\text{Working capital}}$$

=  
Working capital turnover

# Secondary leverage ratios

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# Secondary leverage ratios

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$$\frac{\textit{Debt}}{\textit{Equity}}$$

=  
Debt to equity

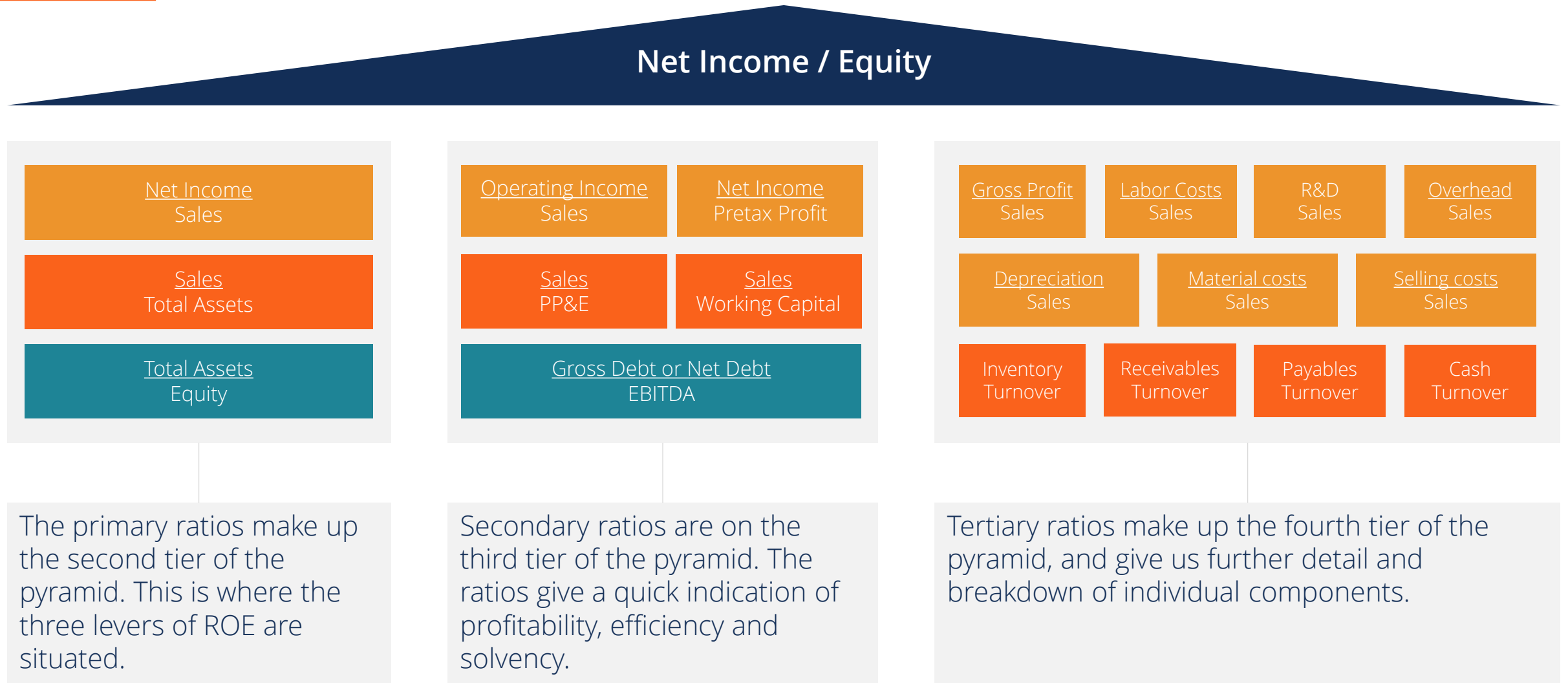
$$\frac{\textit{Liabilities}}{\textit{Equity}}$$

=  
Liabilities to equity

$$\frac{\textit{Assets}}{\textit{Equity}}$$

If a company is 100% equity funded, this ratio should equal one

# Pyramid of ratios



# Primary ratios

Return on Equity				
2006	2007	2008	2009	2010
18,74%	25,43%	32,89%	32,22%	32,32%

Net Profit Margin				
2006	2007	2008	2009	2010
18,14%	20,80%	21,53%	17,10%	16,43%

Total Assets to Equity				
2006	2007	2008	2009	2010
1.16	1.24	1.40	1.36	1.34

Asset Turnover				
2006	2007	2008	2009	2010
0.89	0.95	1.09	1.37	1.47

Capital Structure Impact				
2006	2007	2008	2009	2010
1.16	1.06	1.05	1.03	1.01

Tax Ratio				
2006	2007	2008	2009	2010
77,81%	73,53%	71,40%	67,58%	75,22%

PPE/Capital asset Turnover				
2006	2007	2008	2009	2010
6.33	6.23	8.51	8.29	7.64

Working Capital Turnover				
2006	2007	2008	2009	2010
5.34	4.11	4.37	4.42	5.33

EBIT Margin				
2006	2007	2008	2009	2010
29,13%	26,58%	28,82%	24,61%	21,65%

Gross Margin				
2006	2007	2008	2009	2010
55,20%	54,58%	51,26%	46,07%	44,03%

SG&A				
2006	2007	2008	2009	2010
24,96%	17,70%	14,66%	13,51%	13,85%

Payable Turnover				
2006	2007	2008	2009	2010
9.75	10.59	18.80	13.31	13.59

Inventory Turnover				
2006	2007	2008	2009	2010
6.88	5.39	7.39	8.75	13.46

Dep. & Amart.				
2006	2007	2008	2009	2010
2,42%	2,53%	1,80%	1,76%	2,08%

R&D				
2006	2007	2008	2009	2010
7,69%	7,78%	5,99%	6,19%	6,45%

Receivable Turnover				
2006	2007	2008	2009	2010
5.95	4.96	4.81	4.87	5.34

Solvency Ratios					
	2006	2007	2008	2009	2010
Total Liabilities to Equity	0.16	0.24	0.40	0.38	0.34
Debt to Equity	0.01	0.00	0.00	0.00	0.00

Liquidity Ratios					
	2006	2007	2008	2009	2010
Current Ratio	4.51	3.51	2.36	2.29	2.29
Quick Ratio	4.83	3.54	2.69	1.87	2.12

Cash Turnover				
2006	2007	2008	2009	2010
4.50	4.49	5.07	13.24	9.64



# Secondary ratios

Return on Equity				
2006	2007	2008	2009	2010
18,74%	25,43%	32,89%	32,22%	32,32%

Net Profit Margin				
2006	2007	2008	2009	2010
18,14%	20,80%	21,53%	17,10%	16,43%

Total Assets to Equity				
2006	2007	2008	2009	2010
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2006	2007	2008	2009	2010
0.89	0.95	1.09	1.37	1.47

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2006	2007	2008	2009	2010
1.16	1.06	1.05	1.03	1.01

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	2006	2007	2008	2009	2010
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Quick Ratio	4.83	3.54	2.69	1.87	2.12

Cash Turnover				
2006	2007	2008	2009	2010
4.50	4.49	5.07	13.24	9.64

# Tertiary ratios

Return on Equity				
2006	2007	2008	2009	2010
18,74%	25,43%	32,89%	32,22%	32,32%

Net Profit Margin				
2006	2007	2008	2009	2010
18,14%	20,80%	21,53%	17,10%	16,43%

Total Assets to Equity				
2006	2007	2008	2009	2010
1.16	1.24	1.40	1.36	1.34

Asset Turnover				
2006	2007	2008	2009	2010
0.89	0.95	1.09	1.37	1.47

Capital Structure Impact				
2006	2007	2008	2009	2010
1.16	1.06	1.05	1.03	1.01

Tax Ratio				
2006	2007	2008	2009	2010
77,81%	73,53%	71,40%	67,58%	75,22%

PPE/Capital asset Turnover				
2006	2007	2008	2009	2010
6.33	6.23	8.51	8.29	7.64

Working Capital Turnover				
2006	2007	2008	2009	2010
5.34	4.11	4.37	4.42	5.33

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Cash Turnover				
2006	2007	2008	2009	2010
4.50	4.49	5.07	13.24	9.64

# Final ratios

Return on Equity				
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18,74%	25,43%	32,89%	32,22%	32,32%

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Total Assets to Equity				
2006	2007	2008	2009	2010
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Quick Ratio	4.83	3.54	2.69	1.87	2.12

Cash Turnover				
2006	2007	2008	2009	2010
4.50	4.49	5.07	13.24	9.64

# Conclusion



Module 1  
Analyzing the income  
statement



Module 2  
Analyzing the balance sheet



Module 3  
Funding the business



Module 4  
Pyramid of ratios



# FMVA™ Certification

