

Finance

For AKAM Diploma students



The Association for
Key Account Management

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Professionalising Key Account Management | a4kam.org



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Finance Module Content

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This Module contains four sessions:

1. What is financial success?
2. What are the key financial statements?
3. What are the key performance indicators?
4. How might you or your customer make a longer-term investment decision?



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Kate Scott – about me

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- Trained as a chartered accountant
- Teaching finance and accounting for 25 years
- Multinational client base
- Program Director and executive fellow at leading Business Schools
- Executive coach



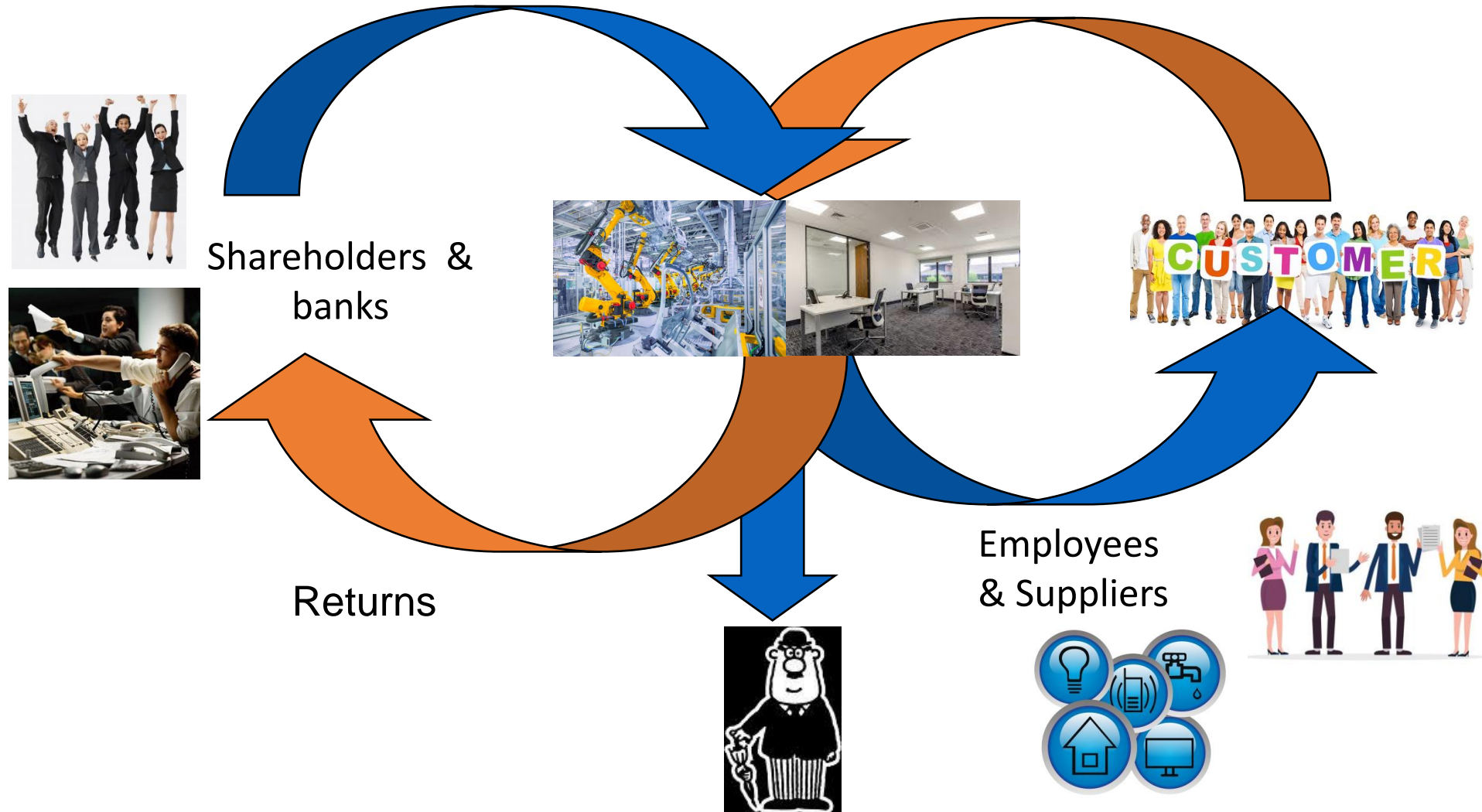
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What is financial success?

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This session focusses on:

1. What is financial success – looking from both an own business and customer business perspective
2. The financial business model.
3. Investors cost of capital





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Four key strategic financial questions

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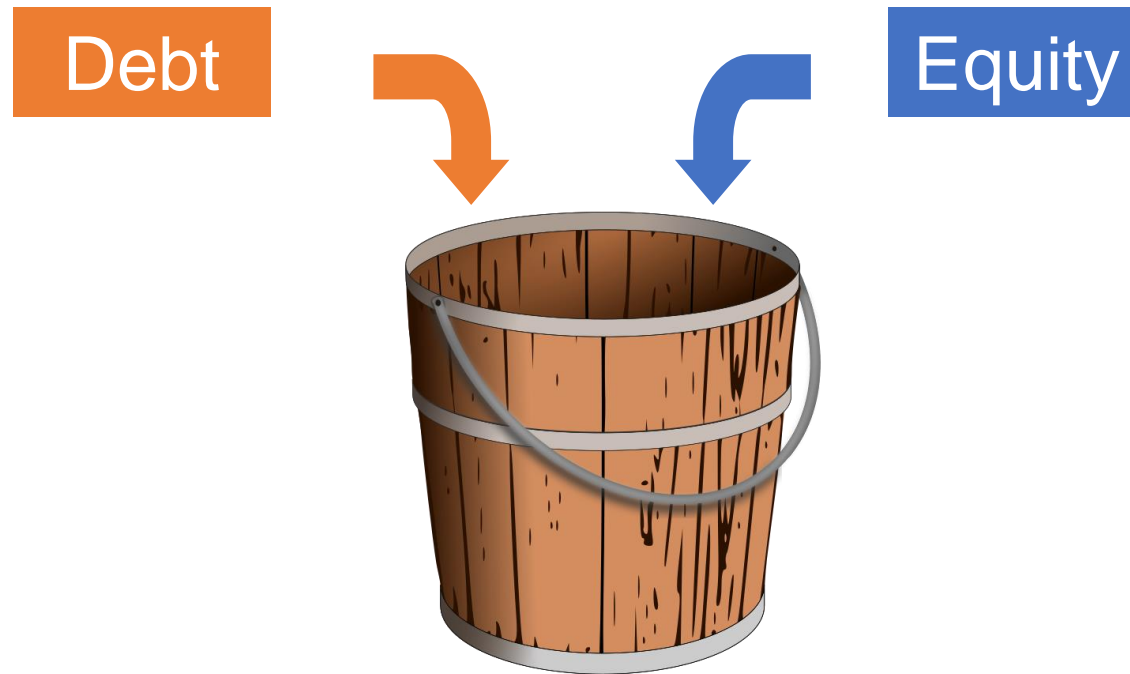
What assets do we need and at what cost ?

How will we fund those assets?

What will we do with any surplus?

How will we fund expansion?

How has the business been financed?



Gearing = debt as a percentage of total funds



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The Weighted Average Cost Capital

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	Mix		Cost	
Debt	40%	X	5.0%	= 2.0%
Equity	60%	X	10.0%	= 6.0%
Weighted average				<u>8.0%</u>

What does this mean to the business?



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What are the three key financial statements?

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This session focusses on:

1. The income statement - revenue and cost recognition, below the gross profit line
2. The balance Sheet - assets and liabilities
3. The cash flow - the difference between cash and profit



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Three key financial statements ...

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How fast am I going?

Income Statement
(the speedo)



Enough fuel?

Cash Flow
(the fuel gauge)



Health of the car?

Balance Sheet
(the oil gauge)

DESCRIPTION	AMOUNT
Revenue, sales, turnover	X
Cost of Sales	(X)
Gross Profit	X
Selling , General and Admin	(X)
Operating Profit	X
Other Income	X
Profit before Interest	X
Finance cost	(X)
Profit before Tax	X
Tax	(X)
Profit after Tax	X



Q. When should we recognise revenue?

A. When goods are despatched and the invoice is raised.



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Key Point

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- It does not matter if the customer has paid or not. If they have paid the sale is a cash sale, if they have not paid the sale is a credit sale and a debtor is created.

Q. When should we recognise costs?

A. When the cost is incurred and can be matched to revenue.



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Key Point

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- It does not matter if the company has paid or not.

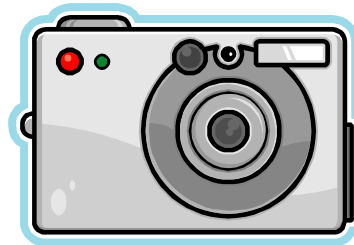
Assets = Liabilities

Fixed

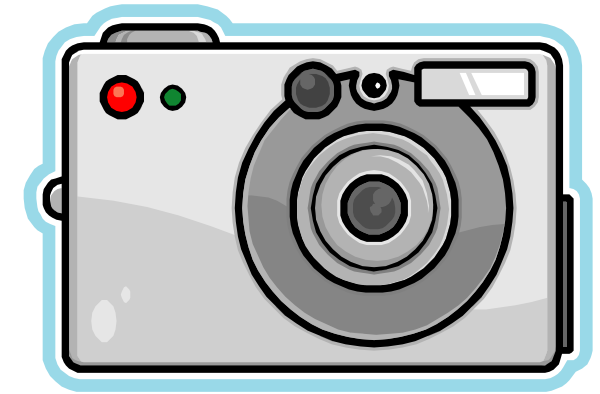
Current

Third Party

Shareholder
Equity



			£
Fixed Assets		Tangible	X
		Intangible	X
Current assets	Stock	X	
	Trade debtors	X	
	Cash	X	
Creditors<1 year	Trade creditors	(X)	
	Overdraft	(X)	
	Accruals	(X)	
Net current assets			X
Creditors > 1 year		Loan	(X)
		Provisions	(X)
Net Assets or Liabilities			X
Shareholders funds (equity)	Share capital		X
	Retained profit		X
Total shareholders funds(equity)			X



Fixed Assets

Tangible

Intangible

£

X

X

Current assets

Stock

X

Trade debtors

X

Cash

X

Creditors < 1 year

Trade creditors

(X)

Overdraft

(X)

Accruals

(X)

Net current assets

X

Creditors > 1 year

Loan

(X)

Provisions

(X)

Net Assets or Liabilities

X

Shareholders funds (equity)

Share capital

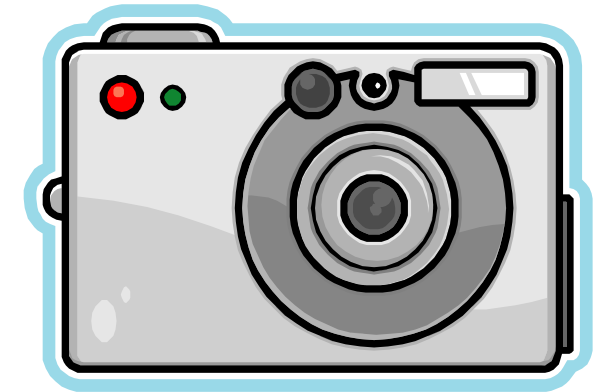
X

Retained profit

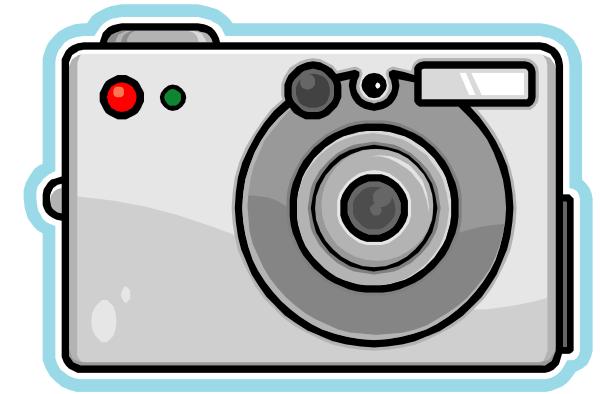
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Total shareholders funds(equity)

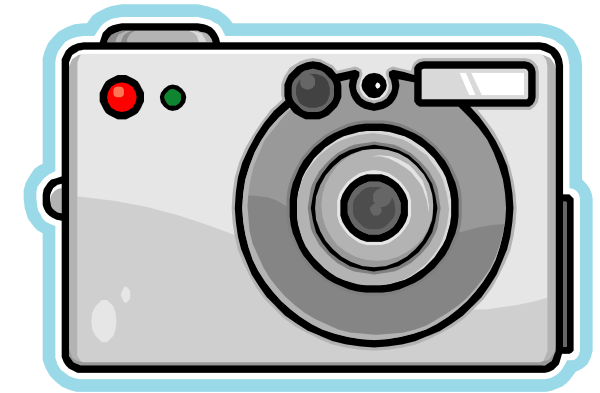
X



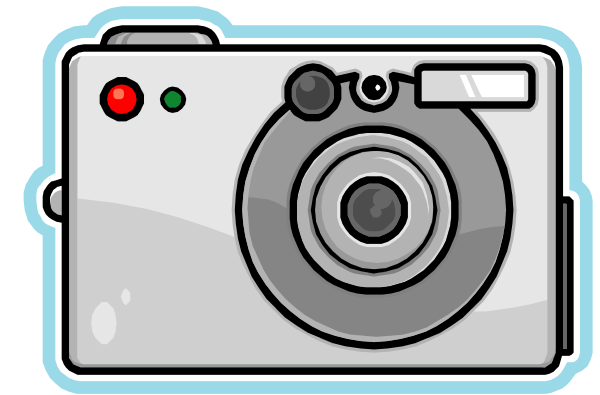
			£
Fixed Assets		Tangible	X
		Intangible	X
Current assets	Stock	X	
	Trade debtors	X	
	Cash	X	
Creditors<1 year	Trade creditors	(X)	
	Overdraft	(X)	
	Accruals	(X)	
Net current assets			X
Creditors > 1 year		Loan	(X)
		Provisions	(X)
Net Assets or Liabilities			X
Shareholders funds (equity)	Share capital		X
	Retained profit		X
Total shareholders funds(equity)			X



		£	
Fixed Assets	Tangible	X	
	Intangible	X	
Current assets	Stock	X	
	Trade debtors	X	
	Cash	X	
Creditors<1 year	Trade creditors	(X)	
	Overdraft	(X)	
	Accruals	(X)	
Net current assets		X	
Creditors > 1 year	Loan	(X)	
	Provisions	(X)	
Net Assets or Liabilities		X	
Shareholders funds (equity)	Share capital	X	
	Retained profit	X	
Total shareholders funds(equity)		X	



			£
Fixed Assets		Tangible	X
		Intangible	X
Current assets	Stock	X	
	Trade debtors	X	
	Cash	X	
Creditors<1 year	Trade creditors	(X)	
	Overdraft	(X)	
	Accruals	(X)	
Net current assets			X
Creditors > 1 year		Loan	(X)
		Provisions	(X)
Net Assets or Liabilities			X
Shareholders funds (equity)	Share capital		X
	Retained profit		X
Total shareholders funds(equity)			X



An Asset ...

- Is owned (controlled by the business)
- Has a value – normally cost
- Will bring benefit in the future

Types of Asset:

- Fixed (Non current asset)– used by the business and typically held for more than a year
- Current asset – assets company expects to turn into cash or consume within the normal operating cycle

Tangible fixed assets:

- Valued at cost then depreciated

Considerations when calculating cost:

- Purchase price
- Costs incurred bringing assets to working condition
- Financing costs



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Depreciation Example

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- We buy a car for £10,000.
- It has a useful life of three years.
- It has a £4,000 residual value



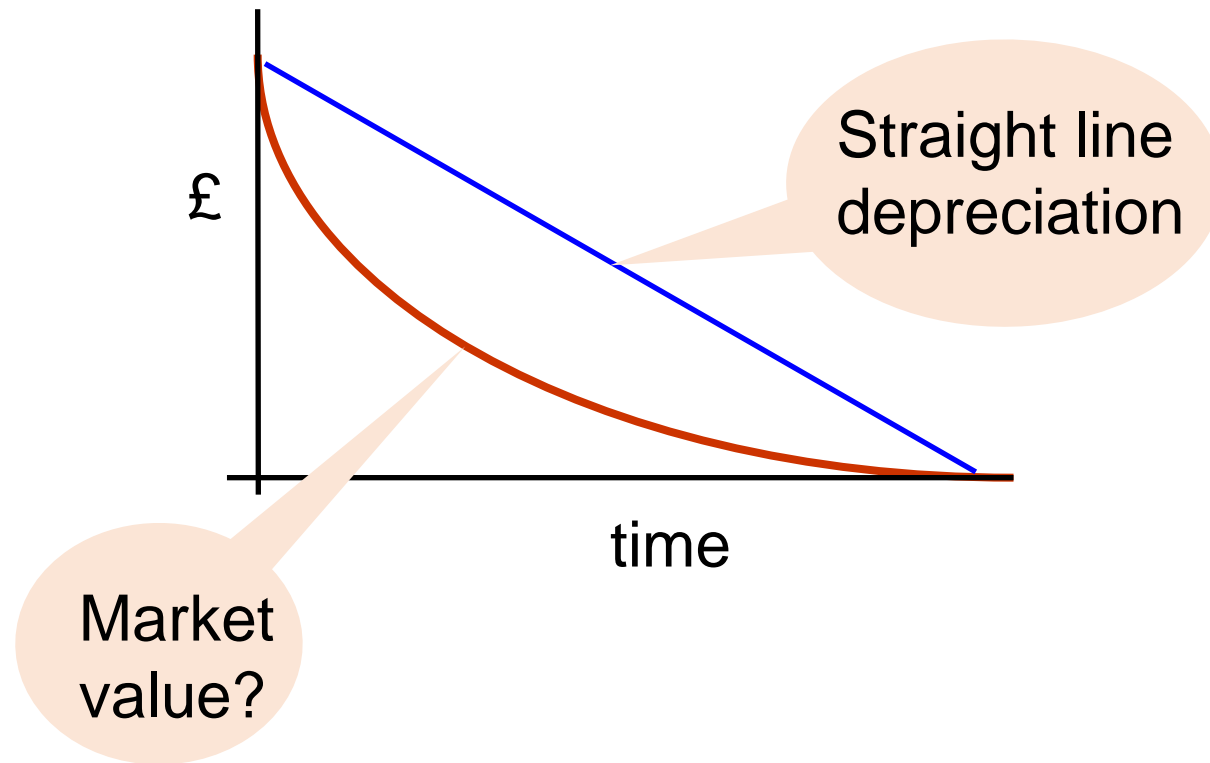
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Depreciation Example

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	Year 1	Year 2	Year 3
Balance Sheet			
Cost	10000	10000	10000
Depreciation	2000	4000	6000
NBV	8000	6000	4000
Income Statement			
Cost	2000	2000	2000

Spreading the cost of a fixed asset over its useful life



- Identifiable long-term assets used in business which have no physical substance and are not financial in nature
e.g. patents, copyrights or trademarks
- Valued at cost and amortised over useful life

- The excess of the total value of the business over the fair values of the individual, identifiable net assets
- Purchased goodwill is recognised as an intangible asset
- Its value is amortised over its deemed useful life which is assumed as 10 years unless management say otherwise

- The cost of developing brands internally must be expensed to the profit & loss account
- Acquired brands can be included as intangible assets and are amortised

- Valued at the lower of cost or Net Realisable Value
- Cost is the purchase price plus any costs incurred in getting stock to its current state and location

- Recorded when revenue on a credit sale is recognised
- Valued at realisable value
- Companies will make a provision for bad debts on an estimate basis

- Money owed for goods/services received and invoiced but not yet paid

- Accruals - Money owed for goods/services received but not yet invoiced

	£
Trade Debtors	X
Stock	X
Prepayments and accrued income	X
Trade Payables	(X)
Accruals and deferred income	(X)
	<hr/>
	X

- The amount or timing of the obligation is unknown
- The company should make a provision based on their best estimate of the outlay necessary to settle their obligation

e.g. Restructuring

Warranty

Pension



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Shareholders' Funds (Equity)

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- Represents the shareholders' investment in the company – reflects how the company has been funded and how much profit it has generated over time
- Does not show value of business

- Timing differences:
 - Revenue/cash received from customers
- Accounting differences:
 - Depreciation/ capital expenditure
 - Revenue/Invoice
 - Accruals
 - Provisions





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A Typical Cash flow statement

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DESCRIPTION	£
Operating activities	X
Investing activities	(X)
Financing activities	X
Net cash inflow (outflow) from activities	<hr/> X
Opening cash	<hr/> X
Closing cash	<hr/> X

DESCRIPTION	AMOUNT
Revenue	X
Cost of Sales (services)	(X)
Gross Profit	X
Selling , General and Admin	(X)
EBITDA	X
Depreciation	(X)
Amortisation	(X)
Operating Profit	X

- Earnings before interest, tax, depreciation and amortisation
- Assesses performance of companies without the distortions of accounting for fixed asset depreciation and amortisation
- Sometimes considered to equate to operating cash flow

This session focusses on:

1. The return on capital employed
2. Profitability and the main drivers of revenue (price and volume) and costs (fixed and variable)
3. Asset turnover - the drivers of fixed asset and working capital efficiency

How does a business make money?

Uses capital to
buy assets



100

Uses assets to
generate revenue



150

Makes a profit
from the revenue



15

1.5

X

10%

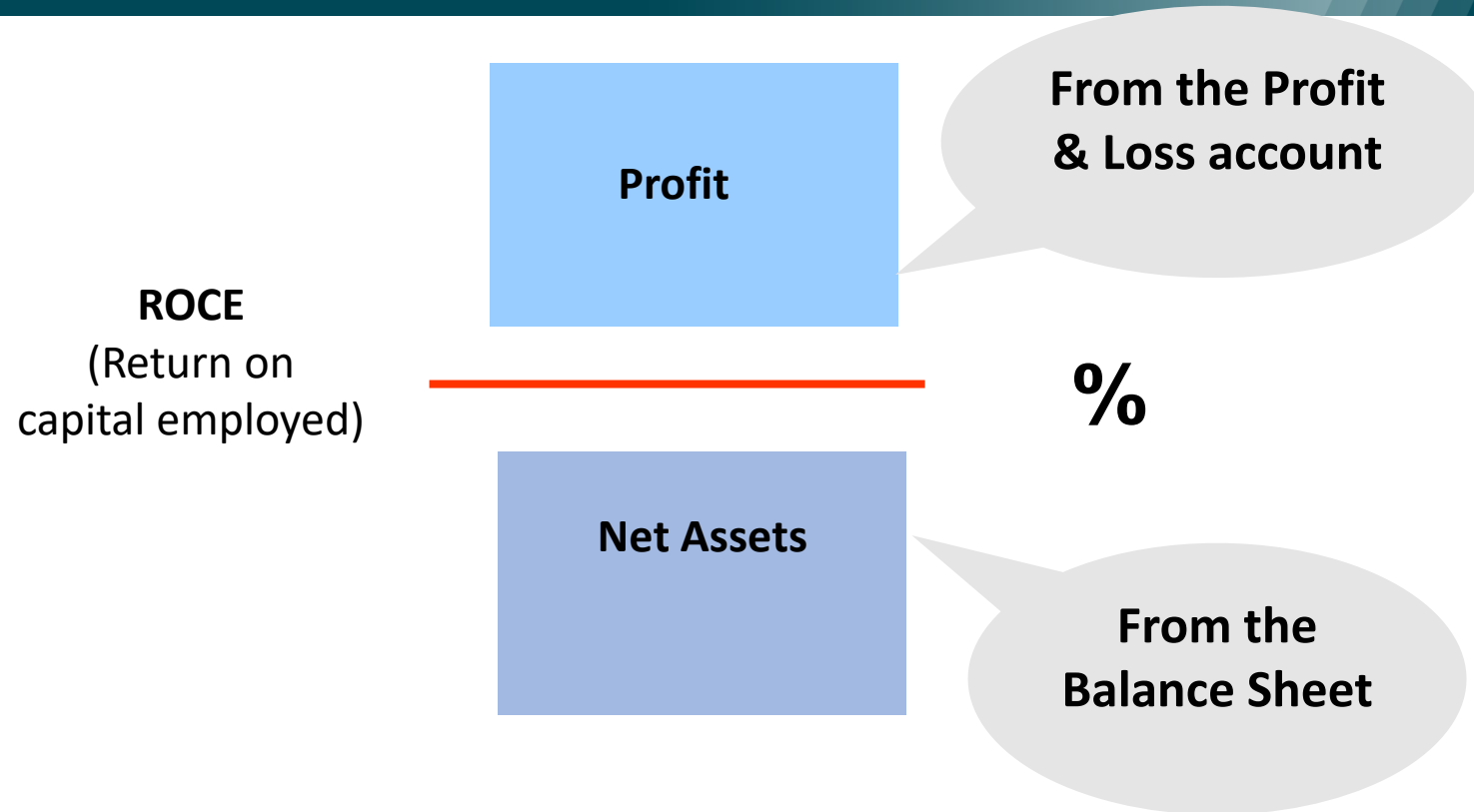
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15%

Asset Turnover

Profit Margin

ROCE



What is a good rate of return?

NB Net Assets = Fixed assets + Working capital

$$\frac{\text{Op Profit}}{\text{Net Assets}} \times 100 = \left\{ \begin{array}{l} \frac{\text{Op Profit}}{\text{Revenue}} \times 100 \\ \frac{\text{Revenue}}{\text{Net assets}} \times 100 \end{array} \right.$$

- How profitable are sales?
- Known as “profit margin”

- How productive is our capital?
- Known as “asset turnover”

What is the return on capital invested in net assets in the business?

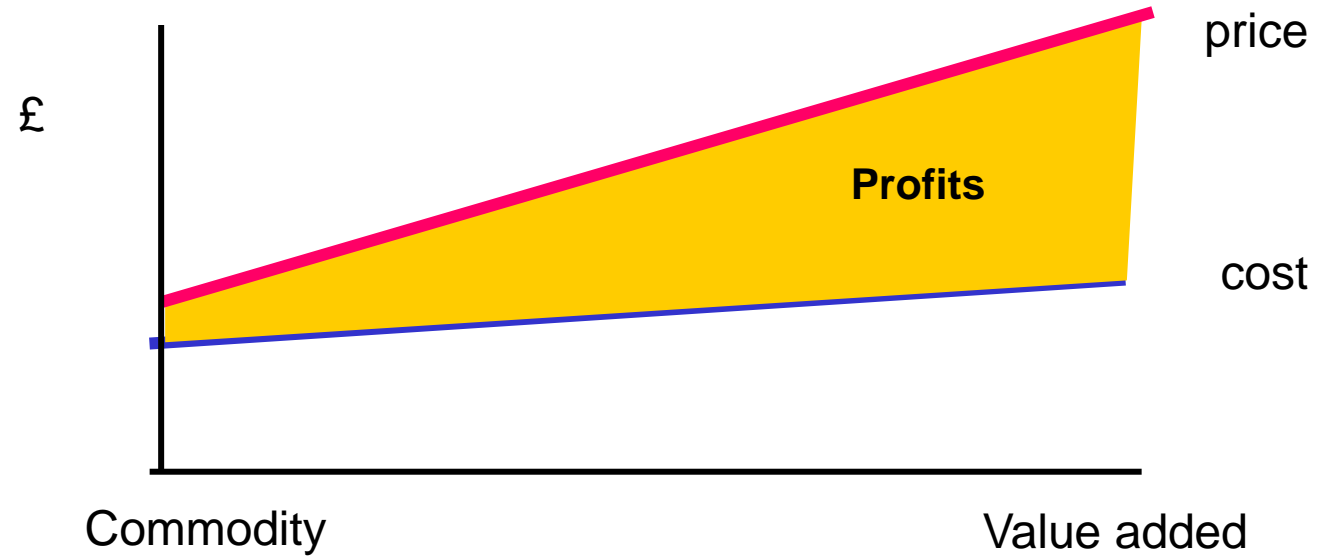


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Profitability

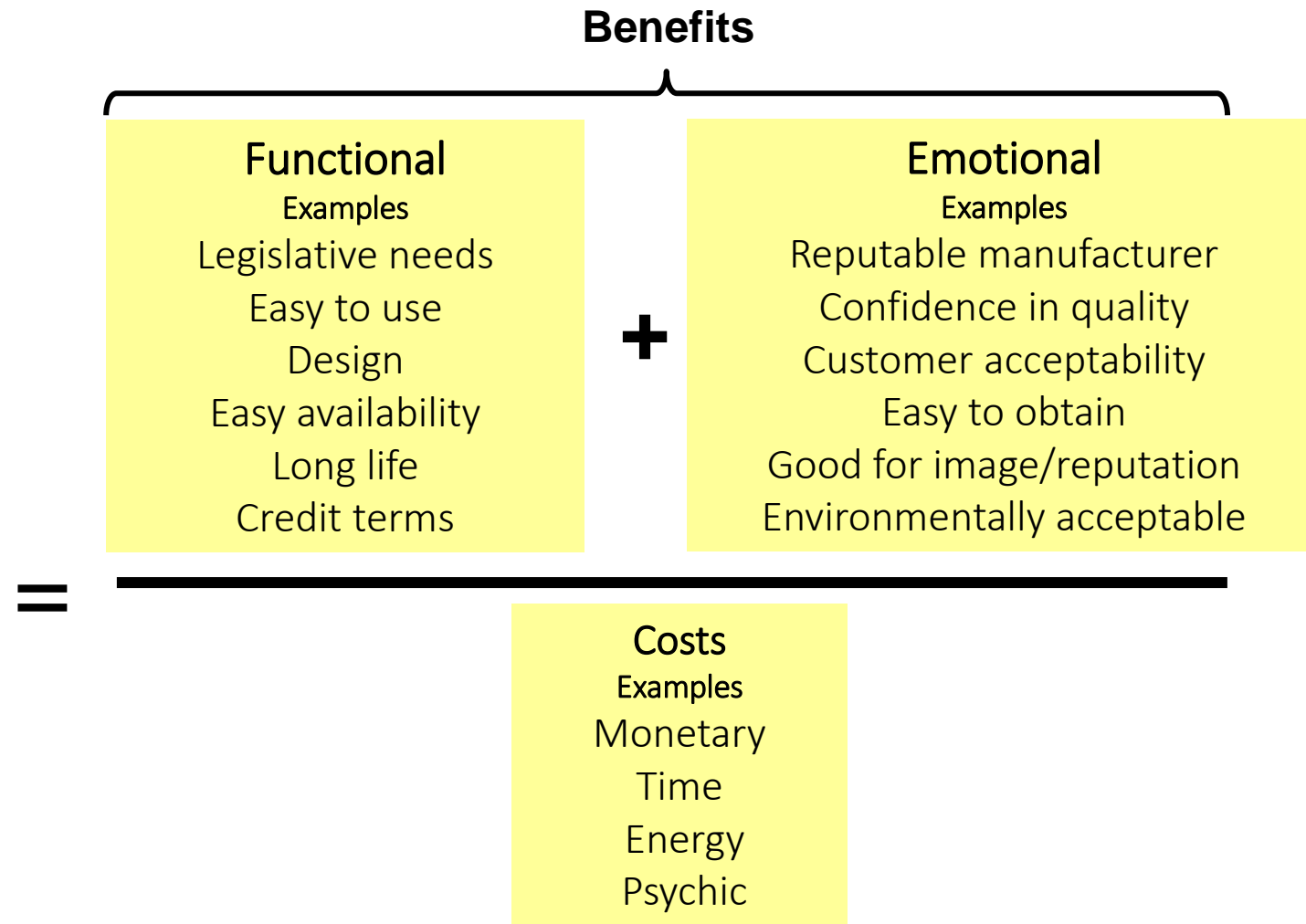
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- Gross Profit Margin
- Operating Profit Margin
- Cost Efficiencies



Add value not cost and thus enhance price and margin

The ultimate value proposition is a 'soft dollar option'

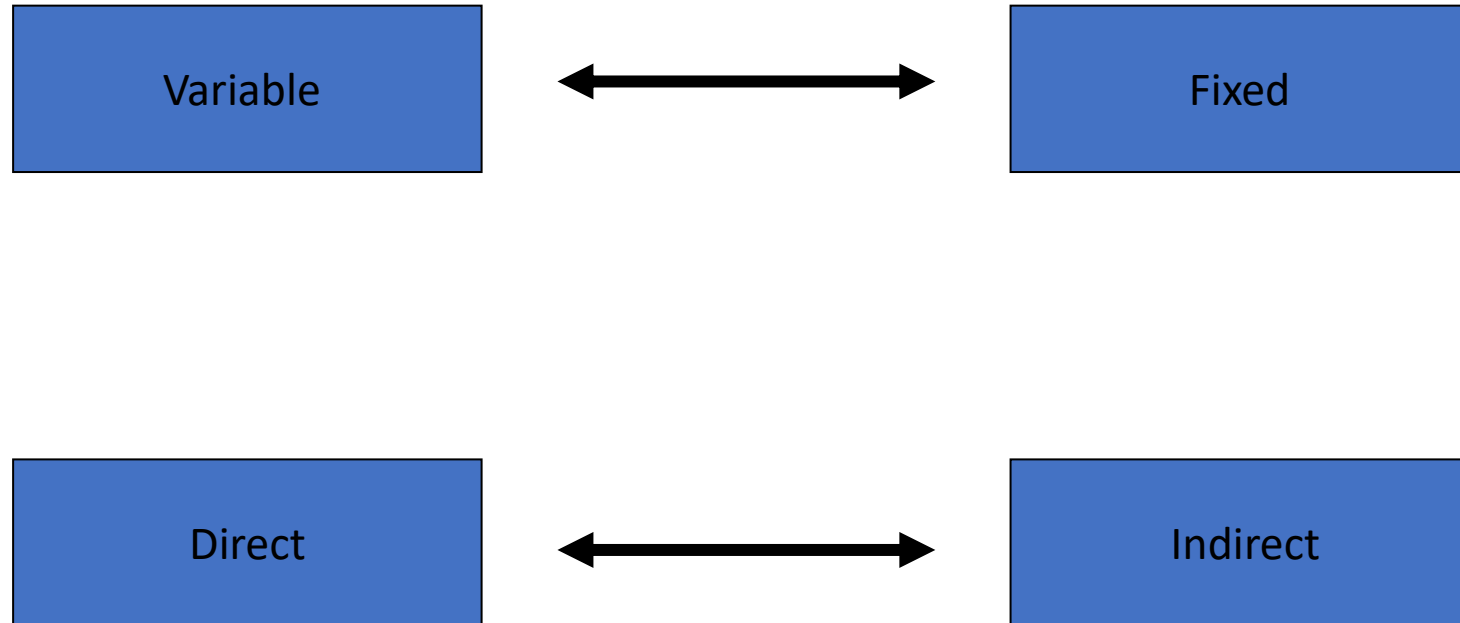




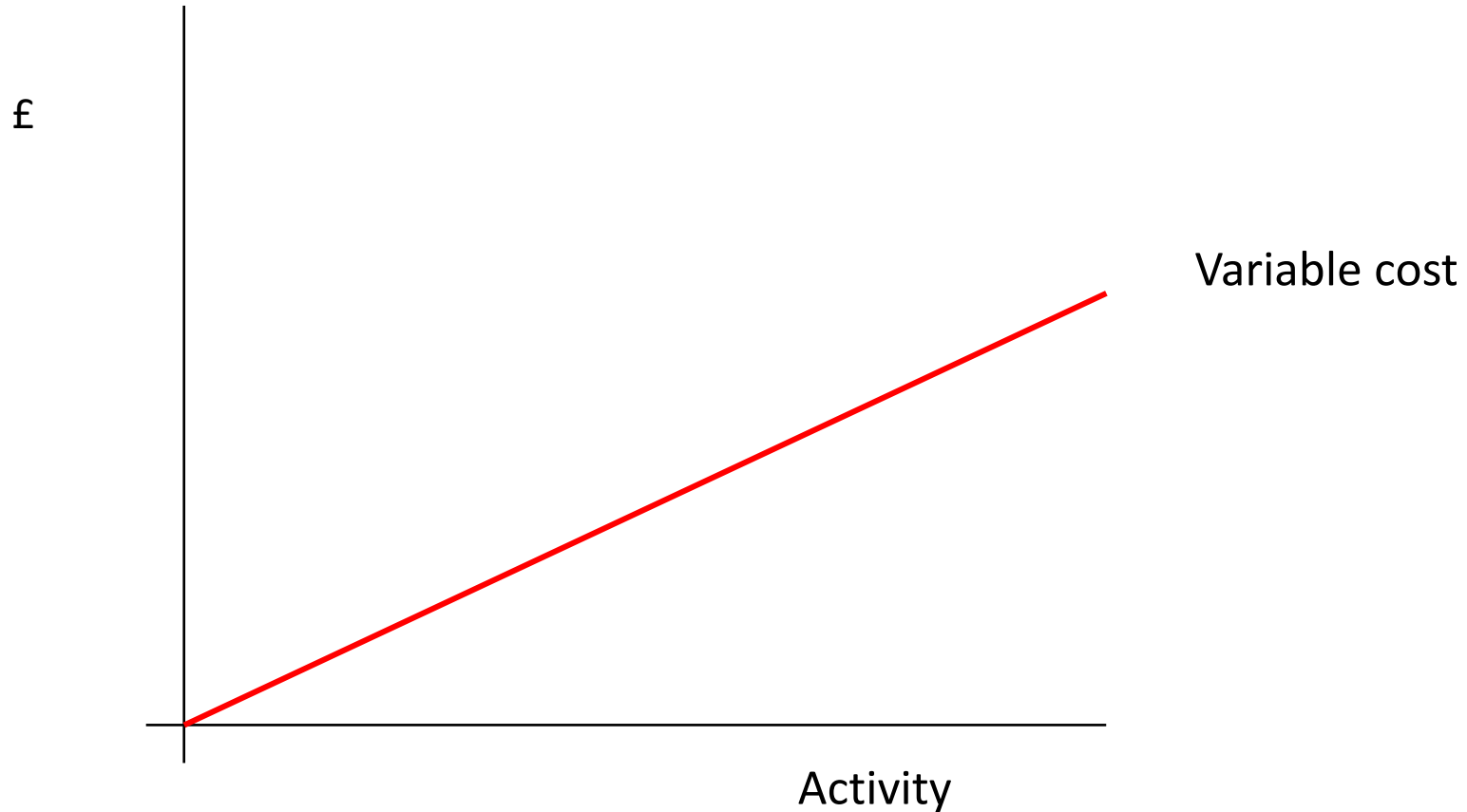
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Cost Terminology

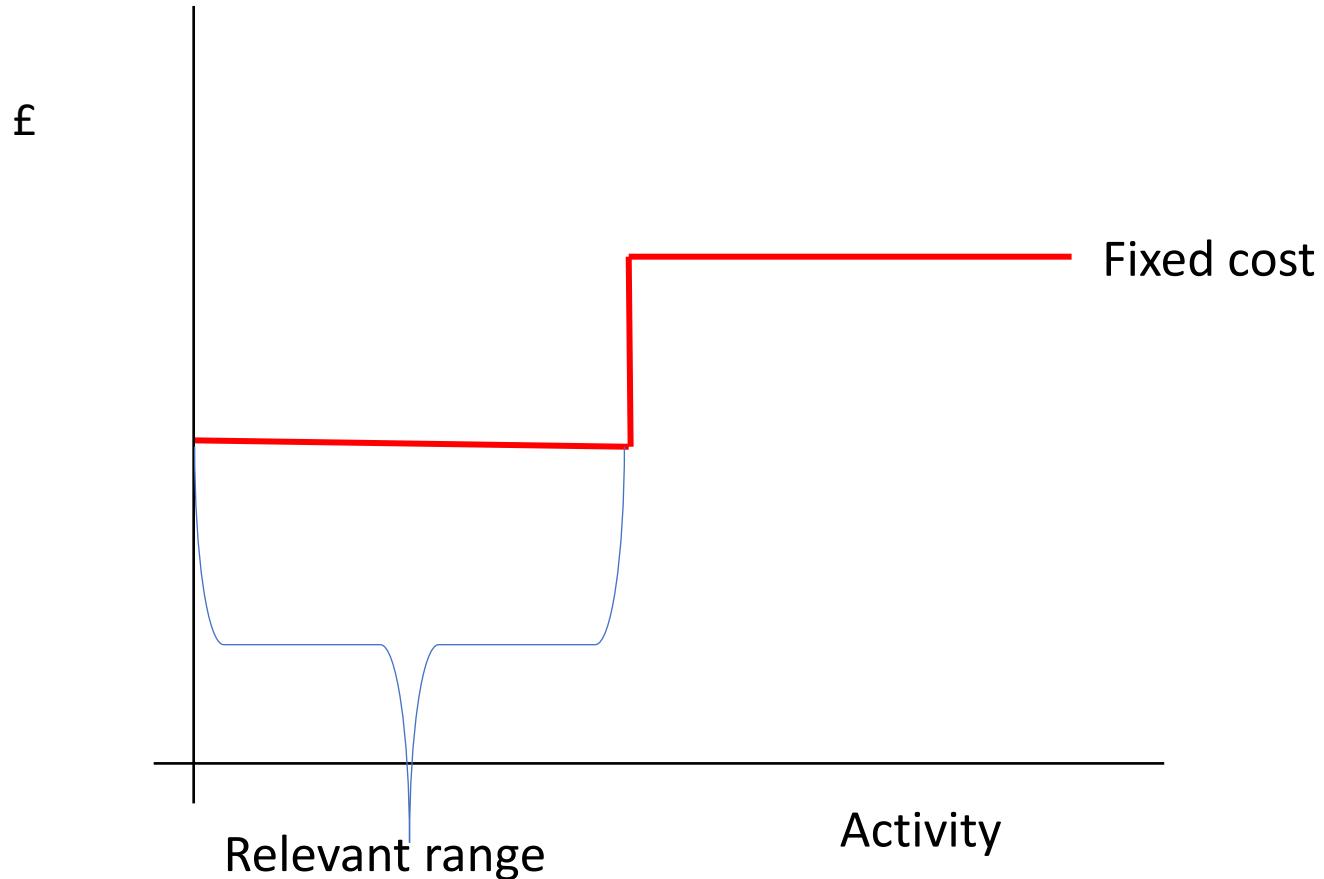
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Vary in direct proportion to the level of activity



Stay the same regardless of the level of activity (within a relevant range)





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Direct Costs

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Cost is directly attributable to a product or service



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Indirect Costs

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Cost is not directly attributable to a product or service
– sometimes called overhead or S,G&A

- You offer the following:

• Revenue (£)	100
• Cost of Sales	(80)
• Gross Margin	20
- You now offer a 10% discount

• Revenue (£)	90
• Cost of Sales	(80)
• Gross margin	10

To recover the lost margin of £10 what volume must you sell?



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The Impact of Discounts

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		Discount									
		0%	5%	10%	15%	20%	25%	30%	35%	40%	45%
Margin	5%	100									
	10%	100	200								
	15%	100	150	388							
	20%	100	133	200	400						
	25%	100	125	187	250	500					
	30%	100	120	150	200	300	600				
	35%	100	117	140	175	233	350	700			
	40%	100	114	133	160	200	267	400	800		
	45%	100	113	129	150	180	225	300	450	900	
	50%	100	111	125	143	167	200	250	333	500	1000

If a product currently has a margin of 20% and you give 10% discount you effectively need to sell another product to compensate for the lost margin.



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Cost Behaviour with volume

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	Company A	Company B
Sales	1,000	1,000
Variable Costs	(300)	(700)
Gross Margin	700	300
Fixed Costs	(600)	(200)
Profit	100	100
GM %	70%	30%



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Challenge!

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Which company would you rather manage ?

- Company A
- Company B

Calculate what profit would be if volumes increased by 25% and then calculate what profit would be if volume decreased by 25%



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Volume Up 25%

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	Company A	Company B
Revenue	1,250	1,250
Variable costs	(375)	(875)
Gross margin	875	375
Fixed costs	(600)	(200)
Profit	275	175
GM %	70%	30%



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Volume Down 25%

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	Company A	Company B
Revenue	750	750
Variable costs	(225)	(525)
Gross margin	525	225
Fixed costs	(600)	(200)
Profit	(75)	25
GM %	70%	30%

$$\frac{\text{Op Profit}}{\text{Net Assets}} \times 100 = \left\{ \begin{array}{l} \frac{\text{Op Profit}}{\text{Revenue}} \times 100 \\ \frac{\text{Revenue}}{\text{Net assets}} \times 100 \end{array} \right.$$

- How profitable are sales?
- Known as “profit margin”

- How productive is our capital?
- Known as “asset turnover”

What is the return on capital invested in net assets in the business?

Related to:

1. How efficiently the business uses its fixed assets to drive sales
2. How much money is tied up in working capital:
 - Debtor days
 - Stock days
 - Creditor days



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How might you or your customer make a longer term investment decision?

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This session focusses on:

1. The decision making process
2. The financials of the decision
3. Risk and decision making



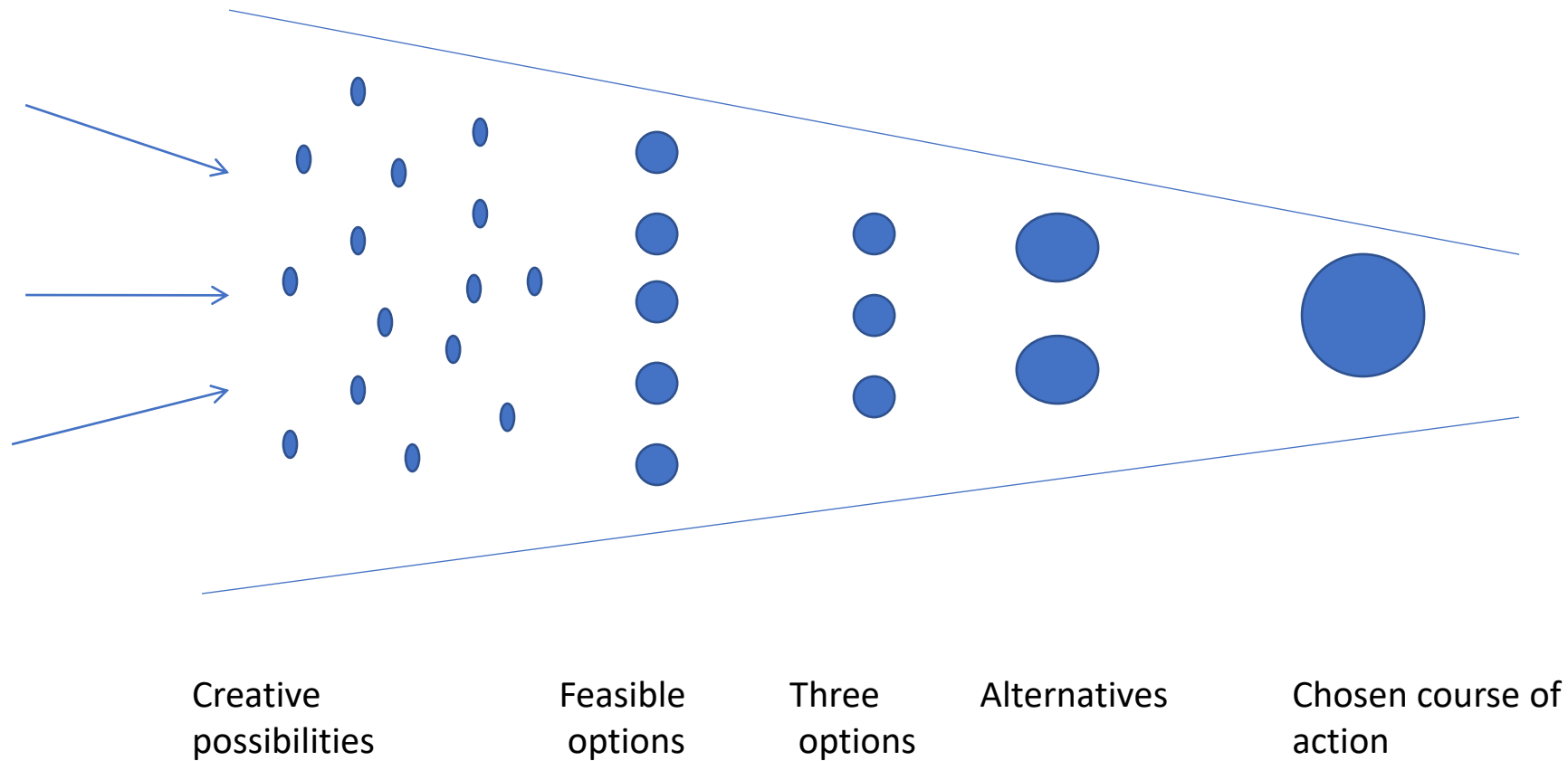
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Decision making process

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- Define the objective
- Collect relevant information
- Generate feasible options
- Make the decision
- Implement and evaluate

The Lobster pot model





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What makes a good investment decision?

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- Strategic value to the business
- Generates cost savings
- Good return on investment (ROI) relative to risk



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What are the main challenges?

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- Identifying a range of option
- Anticipating the impact of change
- Forecasting revenues and costs
- Timeframe



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What is a “profitable” investment?

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	Now	Year 1	Year 2	Year 3
	£'000	£'000	£'000	£'000
Initial outlay - cost	(150)			
Sales revenue		200	250	280
Variable costs		<u>(130)</u>	<u>(170)</u>	<u>(190)</u>
Contribution		70	80	90
Fixed costs		(10)	(15)	(20)
Depreciation		<u>(50)</u>	<u>(50)</u>	<u>(50)</u>
Profit		<u>10</u>	<u>15</u>	<u>20</u>

Cashflows (not profit!)



Relevant

... resulting from
the decision to
invest

Incremental

... the net
change resulting
from the
decision

Whole company

... impact on the
company - not just
on the business
unit

What are the relevant cashflows?

- Rental of kit
- Capital cost of kit
- Service charges for maintenance
- Spare parts
- Other consumables
- Delivery costs for spares/consumables
- Repairs
- Software
- Software support
- Fax costs
- Paper
- Power
- Floor space
- Tax

Payback	The time taken for the investment to generate cash in excess of the amount invested
NPV	Net Present Value What the project's cash flows are worth today given the required rate of return (cost of capital)
IRR	Internal Rate of Return The highest interest rate the project can support before making a loss The rate of return that gives an NPV of zero

	Now	Year 1	Year 2	Year 3
	£'000	£'000	£'000	£'000
Initial outlay - cost	(150)			
Sales revenue / savings		200	250	280
Variable costs		(130)	(170)	(190)
Contribution		<u>70</u>	<u>80</u>	<u>90</u>

Only include *incremental* cash flows in your calculation!



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Payback?

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	Now	Year 1	Year 2	Year 3
	£'000	£'000	£'000	£'000
Initial outlay - cost	(150)			
Sales revenue / savings		200	250	280
Variable costs		<u>(130)</u>	<u>(170)</u>	<u>(190)</u>
Contribution		<u>70</u>	<u>80</u>	<u>90</u>
Cumulative	(150)	(80)	0	

Payback is two years



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a sound investment?

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	Now	Year 1	Year 2	Year 3
	£'000	£'000	£'000	£'000
Initial outlay - cost	(150)			
Sales revenue / savings		200	250	280
Variable costs		(130)	(170)	(190)
Contribution		<u>70</u>	<u>80</u>	<u>90</u>



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Time value of money

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Would you rather I gave you £100 today or £100 in one year's time?

£100 today is not the same as £100 in a year

To make you wait I would need to offer you what you could get if you invested your money say at 10%

$£100 \times 1 + 10\%$ ie $£100 \times 1.1 = £110$ – this is compounding

So turning that around if I were to offer you £100 in one year what would I need to offer you today?

$100 \times 1/1.1$ ie $100 \times 0.91 = £91$

0.91 is the discount factor for 1 year at 10%



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a “profitable” investment?

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	Now	Year 1	Year 2	Year 3
	£'000	£'000	£'000	£'000
Initial outlay - cost	(150)			
Sales revenue / savings		200	250	280
Variable costs		<u>(130)</u>	<u>(170)</u>	<u>(190)</u>
Contribution		<u>70</u>	<u>80</u>	<u>90</u>
Discount factor at 10%		0.91	0.826	0.751
Present value @ 10%	(150)	64	66	68

NPV £48k +ve

- NPV
 - The value in excess of investors' required return
 - How much it adds to the value of the business
- Steps
 - Forecast cash flows arising from the opportunity
 - Determine appropriate interest rate
 - Calculate NPV
- Decision rule / principle
 - Accept deals with positive NPV
 - Reject deals with a negative NPV

The discount rate which gives a decision an NPV of zero

Discount rate %	PV of cashflows	Initial cost	NPV
0	240	-150	90
10	1,128	-150	48
20	165	-150	15
25	152	-150	-2

This project has an IRR of about 25% so if
the cost of capital were 10% it's worth doing

- IRR
 - the project's economic return
 - the highest *required* return the deal can support
- Steps
 - forecast cash flows
 - determine NPV at different discount rates
 - estimate IRR
- Decision rule
 - accept deal if $IRR > \text{required rate of return}$
 - reject deal if $IRR < \text{required rate of return}$



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