

FINANCE FOR NON-FINANCIAL MANAGERS

Manjit Biant





PLEASE

TURN ME OFF

OR

SET TO SILENT

- Over to you
 - What is your name and job title
 - What are your main areas of job responsibility?
 - How much involvement do you presently have with finance?
 - What kind of financial reports do you see in your work?
 - How will a greater knowledge of finance help you in your work?
 - Which topics would you particularly like to cover?
 - Do you have any specific concerns about the course?

Introduction



Financial crisis

Credit crunch

We live in turbulent times

Recession

Survival?

Recovery?

Business failure?

Introduction

- Key course topics
 - Understanding Financial Statements
 - Managing Working Capital for strong cashflow
 - Gross margin and pricing for profit
 - Measuring performance
 - Investment appraisal
 - Budgeting

Understanding Financial Statements

Understanding Financial Statements

Sells kitchens imported from Scandinavia

Floated on the Alternative Investment Market 2001

Sales of £34m and 120 UK employees

Who might be interested in Skanda's performance?

Why might they be interested?



Skanda Kitchens PLC

Understanding Financial Statements

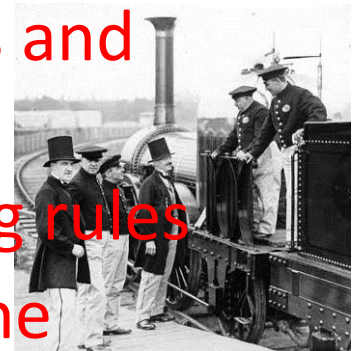
- Who might be interested?
 - Shareholders and prospective shareholders
 - Company's directors and managers
 - Banks
 - Suppliers and prospective suppliers
 - Customers and prospective customers
 - Employees and prospective employees

Understanding Financial Statements

- Why might they be interested?
 - Check investment is safe and performing well
 - Check company performance and their own
 - Check company is good credit risk
 - Check company can and will pay on time
 - Check company can deliver
 - Check long term career prospects

Understanding Financial Statements

- Development of financial statements
 - Joint stock companies proliferated after industrial revolution
 - Financial statements became more widely used
 - 19th century saw accounting scandals and investor frauds
 - Companies Acts set out first reporting rules
 - Fundamental concepts much the same today



Understanding Financial Statements

- Fundamental requirement
 - Show “true and fair view”
 - Prepared in accordance with:
 - Generally Accepted Accounting Principles
 - Financial Reporting Standards
 - Standard Statement of Accounting Practice

Understanding Financial Statements

- Four basic accounting concepts
 - Going concern concept
 - Accruals concept
 - Consistency concept
 - Prudence concept

Understanding Financial Statements

- Various accounting policies
 - Sales income recognition
 - Depreciation of fixed assets
 - Stocks and work in progress
 - Research and development

Understanding Financial Statements



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JDEdwards
Enterprise Software

sage
software

‘under the bonnet’ they all use a well established approach to accounting

Understanding Financial Statements

- Double entry bookkeeping
 - Each transaction shown by two entries
 - Two simple rules apply:
 - **DEBIT** the account of the **RECEIVER** of value
 - **CREDIT** the account of the **GIVER** of value

Understanding Financial Statements



*Double entry bookkeeping:
the finest invention of the human mind*

Understanding Financial Statements

The Mega Toy Company



Understanding Financial Statements

- Types of accounting entry
 - Capital and revenue
 - Cash and non-cash

Understanding Financial Statements

| Accounting entries to 31-3-07 | Balance | Transaction 1 | New Balance |
|-------------------------------|---------|---------------|-------------|
| Racking & equipment | | | |
| Bank account | | £400,000 | £400,000 |
| Stock | | | |
| Debtors | | | |
| Prepayments | | | |
| Creditors | | | |
| Accruals | | | |
| Share capital | | (£400,000) | (£400,000) |
| Sales | | | |
| Cost of sales | | | |
| Distribution costs | | | |
| Salaries | | | |
| Rent | | | |
| Marketing costs | | | |
| Other overhead | | | |
| Depreciation | | | |
| Check total | £0 | £0 | £0 |

Understanding Financial Statements

| Accounting entries to 31-3-07 | Balance | Transaction 2 | New Balance |
|-------------------------------|------------|---------------|-------------|
| Racking & equipment | | | |
| Bank account | £400,000 | (£30,000) | £370,000 |
| Stock | | | |
| Debtors | | | |
| Prepayments | | £15,000 | £15,000 |
| Creditors | | | |
| Accruals | | | |
| Share capital | (£400,000) | | (£400,000) |
| Sales | | | |
| Cost of sales | | | |
| Distribution costs | | | |
| Salaries | | | |
| Rent | | £15,000 | £15,000 |
| Marketing costs | | | |
| Other overhead | | | |
| Depreciation | | | |
| Check total | £0 | £0 | £0 |

Understanding Financial Statements

| Accounting entries to 31-3-07 | Balance | Transaction 3 | New Balance |
|-------------------------------|------------|---------------|-------------|
| Racking & equipment | | £40,000 | £40,000 |
| Bank account | £370,000 | (£40,000) | £330,000 |
| Stock | | | |
| Debtors | | | |
| Prepayments | £15,000 | | £15,000 |
| Creditors | | | |
| Accruals | | | |
| Share capital | (£400,000) | | (£400,000) |
| Sales | | | |
| Cost of sales | | | |
| Distribution costs | | | |
| Salaries | | | |
| Rent | £15,000 | | £15,000 |
| Marketing costs | | | |
| Other overhead | | | |
| Depreciation | | | |
| Check total | £0 | £0 | £0 |

Understanding Financial Statements

| Accounting entries to 31-3-07 | Balance | Transaction 4 | New Balance |
|-------------------------------|------------|---------------|-------------|
| Racking & equipment | £40,000 | | £40,000 |
| Bank account | £330,000 | (£20,000) | £310,000 |
| Stock | | | |
| Debtors | | | |
| Prepayments | £15,000 | | £15,000 |
| Creditors | | | |
| Accruals | | | |
| Share capital | (£400,000) | | (£400,000) |
| Sales | | | |
| Cost of sales | | | |
| Distribution costs | | | |
| Salaries | | £20,000 | £20,000 |
| Rent | £15,000 | | £15,000 |
| Marketing costs | | | |
| Other overhead | | | |
| Depreciation | | | |
| Check total | £0 | £0 | £0 |

Understanding Financial Statements

| Accounting entries to 31-3-07 | Balance | Transaction 4 | New Balance |
|-------------------------------|------------|---------------|-------------|
| Racking & equipment | £40,000 | | £40,000 |
| Bank account | £310,000 | (£18,000) | £292,000 |
| Stock | | | |
| Debtors | | | |
| Prepayments | £15,000 | | £15,000 |
| Creditors | | | |
| Accruals | | | |
| Share capital | (£400,000) | | (£400,000) |
| Sales | | | |
| Cost of sales | | | |
| Distribution costs | | | |
| Salaries | £20,000 | | £20,000 |
| Rent | £15,000 | | £15,000 |
| Marketing costs | | | |
| Other overhead | | £18,000 | £18,000 |
| Depreciation | | | |
| Check total | £0 | £0 | £0 |

Understanding Financial Statements

| Accounting entries to 31-3-07 | Balance | Transaction 5 | New Balance |
|-------------------------------|------------|---------------|-------------|
| Racking & equipment | £40,000 | | £40,000 |
| Bank account | £292,000 | (£200,000) | £92,000 |
| Stock | | £200,000 | £200,000 |
| Debtors | | | |
| Prepayments | £15,000 | | £15,000 |
| Creditors | | | |
| Accruals | | | |
| Share capital | (£400,000) | | (£400,000) |
| Sales | | | |
| Cost of sales | | | |
| Distribution costs | | | |
| Salaries | £20,000 | | £20,000 |
| Rent | £15,000 | | £15,000 |
| Marketing costs | | | |
| Other overhead | £18,000 | | £18,000 |
| Depreciation | | | |
| Check total | £0 | £0 | £0 |

Understanding Financial Statements

| Accounting entries to 31-3-07 | Balance | Transaction 6 | New Balance |
|-------------------------------|------------|------------------|-------------|
| Racking & equipment | £40,000 | | £40,000 |
| Bank account | £92,000 | | £92,000 |
| Stock | £200,000 | £75,000 | £275,000 |
| Debtors | | | |
| Prepayments | £15,000 | | £15,000 |
| Creditors | | (£75,000) | (£75,000) |
| Accruals | | | |
| Share capital | (£400,000) | | (£400,000) |
| Sales | | | |
| Cost of sales | | | |
| Distribution costs | | | |
| Salaries | £20,000 | | £20,000 |
| Rent | £15,000 | | £15,000 |
| Marketing costs | | | |
| Other overhead | £18,000 | | £18,000 |
| Depreciation | | | |
| Check total | £0 | £0 | £0 |

Understanding Financial Statements

| Accounting entries to 31-3-07 | Balance | Transaction 7 | New Balance |
|-------------------------------|------------|---------------|-------------|
| Racking & equipment | £40,000 | | £40,000 |
| Bank account | £92,000 | | £92,000 |
| Stock | £275,000 | (£147,000) | £128,000 |
| Debtors | | | |
| Prepayments | £15,000 | | £15,000 |
| Creditors | (£75,000) | | (£75,000) |
| Accruals | | | |
| Share capital | (£400,000) | | (£400,000) |
| Sales | | | |
| Cost of sales | | £147,000 | £147,000 |
| Distribution costs | | | |
| Salaries | £20,000 | | £20,000 |
| Rent | £15,000 | | £15,000 |
| Marketing costs | | | |
| Other overhead | £18,000 | | £18,000 |
| Depreciation | | | |
| Check total | £0 | £0 | £0 |

Understanding Financial Statements

| Accounting entries to 31-3-07 | Balance | Transaction 7 | New Balance |
|-------------------------------|------------|---------------|-------------|
| Racking & equipment | £40,000 | | £40,000 |
| Bank account | £92,000 | (£14,000) | £78,000 |
| Stock | £128,000 | | £128,000 |
| Debtors | | | |
| Prepayments | £15,000 | | £15,000 |
| Creditors | (£75,000) | | (£75,000) |
| Accruals | | | |
| Share capital | (£400,000) | | (£400,000) |
| Sales | | | |
| Cost of sales | £147,000 | | £147,000 |
| Distribution costs | | £14,000 | £14,000 |
| Salaries | £20,000 | | £20,000 |
| Rent | £15,000 | | £15,000 |
| Marketing costs | | | |
| Other overhead | £18,000 | | £18,000 |
| Depreciation | | | |
| Check total | £0 | £0 | £0 |

Understanding Financial Statements

| Accounting entries to 31-3-07 | Balance | Transaction 7 | New Balance |
|-------------------------------|------------|-------------------|-------------|
| Racking & equipment | £40,000 | | £40,000 |
| Bank account | £78,000 | | £78,000 |
| Stock | £128,000 | | £128,000 |
| Debtors | | £245,000 | £245,000 |
| Prepayments | £15,000 | | £15,000 |
| Creditors | (£75,000) | | (£75,000) |
| Accruals | | | |
| Share capital | (£400,000) | | (£400,000) |
| Sales | | (£245,000) | (£245,000) |
| Cost of sales | £147,000 | | £147,000 |
| Distribution costs | £14,000 | | £14,000 |
| Salaries | £20,000 | | £20,000 |
| Rent | £15,000 | | £15,000 |
| Marketing costs | | | |
| Other overhead | £18,000 | | £18,000 |
| Depreciation | | | |
| Check total | £0 | £0 | £0 |

Understanding Financial Statements

| Accounting entries to 31-3-07 | Balance | Transaction 8 | New Balance |
|-------------------------------|------------|---------------|-------------|
| Racking & equipment | £40,000 | | £40,000 |
| Bank account | £78,000 | | £78,000 |
| Stock | £128,000 | | £128,000 |
| Debtors | £245,000 | | £245,000 |
| Prepayments | £15,000 | | £15,000 |
| Creditors | (£75,000) | | (£75,000) |
| Accruals | | (£17,000) | (£17,000) |
| Share capital | (£400,000) | | (£400,000) |
| Sales | (£245,000) | | (£245,000) |
| Cost of sales | £147,000 | | £147,000 |
| Distribution costs | £14,000 | | £14,000 |
| Salaries | £20,000 | | £20,000 |
| Rent | £15,000 | | £15,000 |
| Marketing costs | | £17,000 | £17,000 |
| Other overhead | £18,000 | | £18,000 |
| Depreciation | | | |
| Check total | £0 | £0 | £0 |

Understanding Financial Statements

| Accounting entries to 31-3-07 | Balance | Transaction 9 | New Balance |
|-------------------------------|------------|---------------|-------------|
| Racking & equipment | £40,000 | (£2,000) | £38,000 |
| Bank account | £78,000 | | £78,000 |
| Stock | £128,000 | | £128,000 |
| Debtors | £245,000 | | £245,000 |
| Prepayments | £15,000 | | £15,000 |
| Creditors | (£75,000) | | (£75,000) |
| Accruals | (£17,000) | | (£17,000) |
| Share capital | (£400,000) | | (£400,000) |
| Sales | (£245,000) | | (£245,000) |
| Cost of sales | £147,000 | | £147,000 |
| Distribution costs | £14,000 | | £14,000 |
| Salaries | £20,000 | | £20,000 |
| Rent | £15,000 | | £15,000 |
| Marketing costs | £17,000 | | £17,000 |
| Other overhead | £18,000 | | £18,000 |
| Depreciation | | £2,000 | £2,000 |
| Check total | £0 | £0 | £0 |

Understanding Financial Statements

The Mega Toy Company Limited

Trial Balance at 31-3-07

| | |
|---------------------|------------|
| Racking & equipment | £38,000 |
| Bank account | £78,000 |
| Stock | £128,000 |
| Debtors | £245,000 |
| Prepayments | £15,000 |
| Creditors | (£75,000) |
| Accruals | (£17,000) |
| Share capital | (£400,000) |
| Sales | (£245,000) |
| Cost of sales | £147,000 |
| Distribution costs | £14,000 |
| Salaries | £20,000 |
| Rent | £15,000 |
| Marketing costs | £17,000 |
| Other overhead | £18,000 |
| Depreciation | £2,000 |
| Check total | £0 |

Understanding Financial Statements

Balance sheet

Understanding Financial Statements



UK versus US financial terms

There are some differences in terms used

The course manual shows some examples

We will be using UK terminology

Understanding Financial Statements

- Balance sheet
 - A snapshot of the company's financial position
 - **As at the balance sheet date**
- What does the balance sheet show?
 - What the company **owns** = **assets**
 - What the company **owes** = **liabilities**
 - How these are **financed** = **capital employed**

Understanding Financial Statements

- The accounting equation

Assets minus liabilities = capital

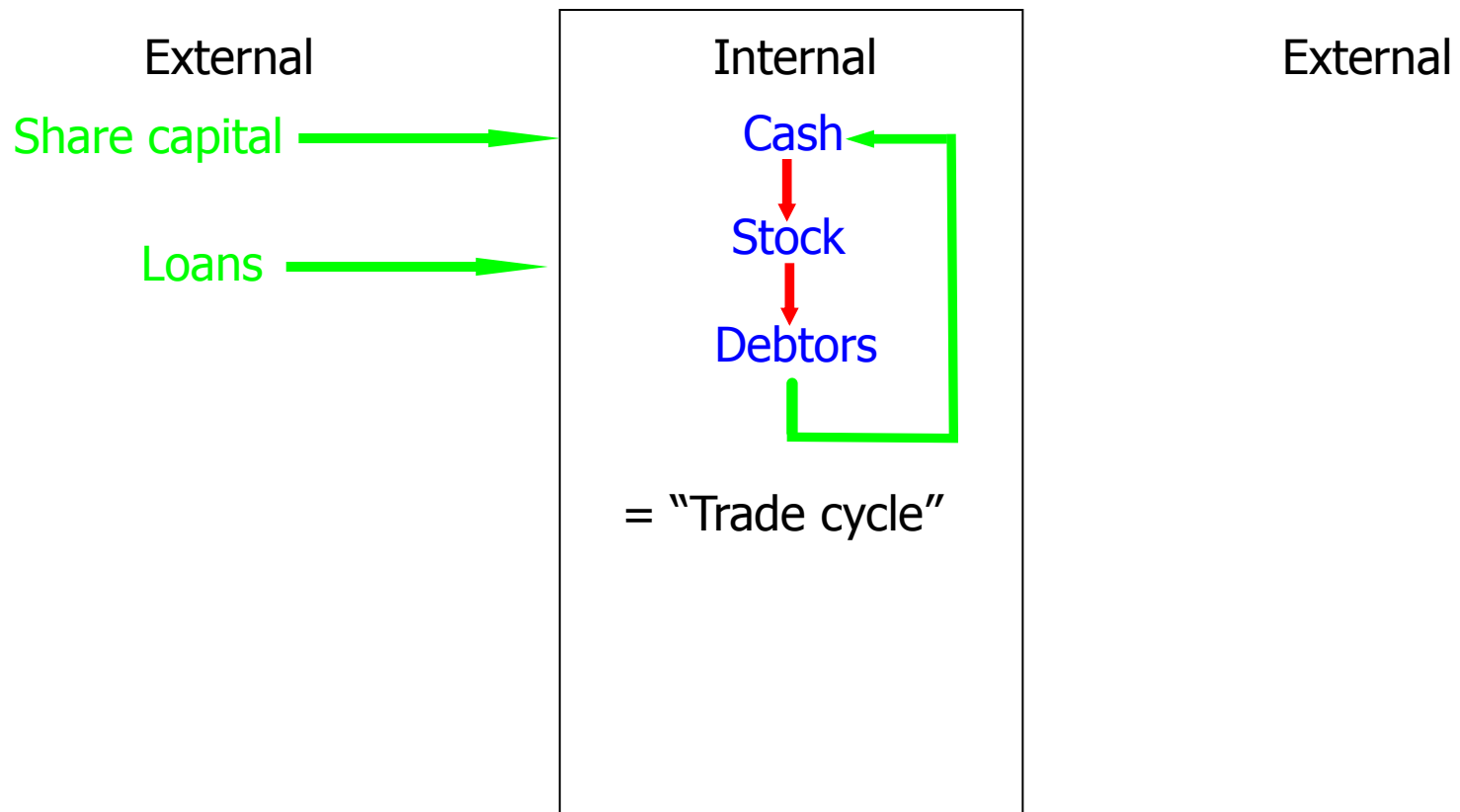
Understanding Financial Statements

- The Mega Toy Company Limited
Balance sheet at 31st March 2007
-

| | |
|----------------------------------|----------|
| • Racking & equipment at cost | £ 40,000 |
| • Less depreciation | £ 2,000 |
| • Fixed assets at net book value | £ |
| 38,000 | |
| • Cash | £ 78,000 |
| • Stock | £128,000 |
| • Debtors | £245,000 |

Understanding Financial Statements

Business funds flow

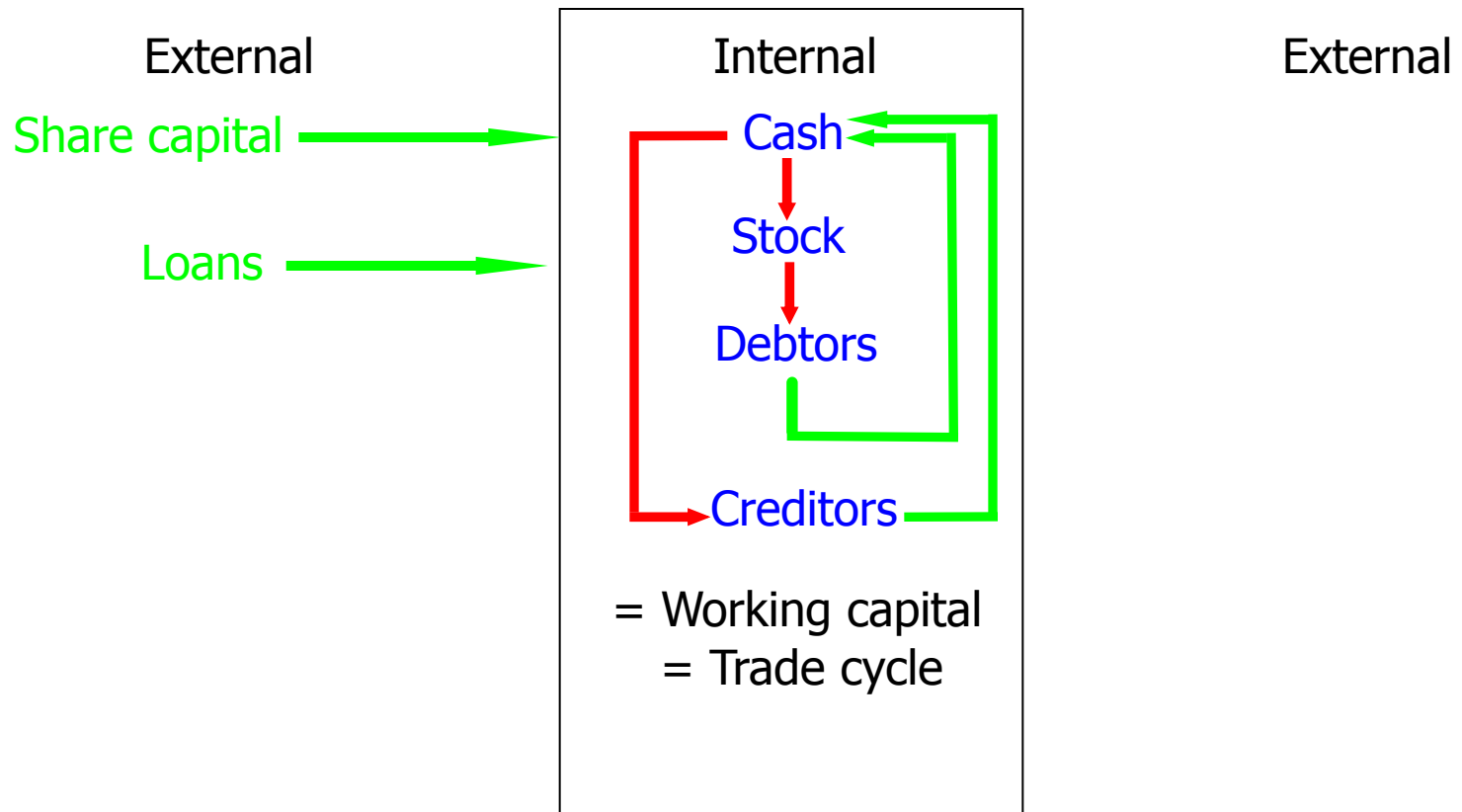


Understanding Financial Statements

| | | | |
|----------------------------------|----------|----------|------------------|
| • The Mega Toy Company Limited | | | Balance sheet at |
| • 31 st March 2007 | | | |
| • Racking & equipment at cost | ————— | £ 40,000 | |
| • Less depreciation | | £ 2,000 | |
| • Fixed assets at net book value | | | £ 38,000 |
| • Cash | ————— | £ 78,000 | |
| • Stock | | £128,000 | |
| • Debtors | | £245,000 | |
| • Prepayments | £ 15,000 | | |
| • Current assets | £466,000 | | |
| • Creditors | | £ 75,000 | |
| • Accruals | | £ 17,000 | |
| • Current liabilities | | £ 92,000 | |

Understanding Financial Statements

Business funds flow



Understanding Financial Statements

- The Mega Toy Company Limited

Balance sheet at 31st March 2007

| | | |
|----------------------------------|-------------------|-------------------|
| • Racking & equipment at cost | £ 40,000 | |
| • Less depreciation | £ 2,000 | |
| • Fixed assets at net book value | <u> </u> | £ 38,000 |
| • Cash | | £ 78,000 |
| • Stock | | £128,000 |
| • Debtors | | £245,000 |
| • Prepayments | £ 15,000 | |
| • Current assets | <u>£466,000</u> | |
| • Creditors | | £ 75,000 |
| • Accruals | <u> </u> | £ 17,000 |
| • Current liabilities | £ 92,000 | <u> </u> |
| • Net current assets | | £374,000 |
| • NET ASSETS | | <u>£412,000</u> |

- Represented by
- Share capital £400,000

Understanding Financial Statements

The Mega Toy Company Limited

Trial Balance at 31-3-07

| | |
|---------------------|------------|
| Racking & equipment | £38,000 |
| Bank account | £78,000 |
| Stock | £128,000 |
| Debtors | £245,000 |
| Prepayments | £15,000 |
| Creditors | (£75,000) |
| Accruals | (£17,000) |
| Share capital | (£400,000) |
| Sales | (£245,000) |
| Cost of sales | £147,000 |
| Distribution costs | £14,000 |
| Salaries | £20,000 |
| Rent | £15,000 |
| Marketing costs | £17,000 |
| Other overhead | £18,000 |
| Depreciation | £2,000 |
| Check total | £0 |

Understanding Financial Statements

- The Mega Toy Company Limited

Balance sheet at 31st March 2007

| | | |
|----------------------------------|-----------------------------|-----------------------------|
| • Racking & equipment at cost | £ 40,000 | |
| • Less depreciation | £ 2,000 | |
| • Fixed assets at net book value | <u> </u> | £ 38,000 |
| • Cash | | £ 78,000 |
| • Stock | | £128,000 |
| • Debtors | £245,000 | |
| • Prepayments | £ 15,000 | |
| • Current assets | <u>£466,000</u> | |
| • Creditors | | £ 75,000 |
| • Accruals | £ 17,000 | |
| • Current liabilities | <u>£ 92,000</u> | |
| • Net current assets | | <u>£374,000</u> |
| • NET ASSETS | | <u>£412,000</u> |
| • Represented by | | <u> </u> |
| • Share capital | £400,000 | |
| • Profit for the period | £ 12,000 | |
| • | | <u> </u> |
| | | £412,000 |

Understanding Financial Statements

- Balance sheet shows
 - What the company owns = assets
 - What the company owes = liabilities
 - How these are financed = capital employed
- But does it tell us what the company is worth?

Understanding Financial Statements

SAPPHIRE



SOFTWARE

Understanding Financial Statements

SAPPHIRE SOFTWARE LIMITED BALANCE SHEET AS AT 31ST DECEMBER 2009

| | | |
|--------------------------------|------------------|----------------|
| Fixed assets at cost | £120,000 | |
| Accumulated depreciation | <u>£(75,000)</u> | |
| Fixed assets at net book value | | £45,000 |
| | | |
| Current assets | | |
| Cash | £2,000 | |
| Debtors | <u>£8,000</u> | |
| | £10,000 | |
| | | |
| Current liabilities | | |
| Creditors | <u>£7,000</u> | |
| | | |
| Net current assets | | £3,000 |
| | | |
| NET ASSETS | | <u>£48,000</u> |
| | | |
| Represented by | | |
| Share capital | | £40,000 |
| Retained profits | | £8,000 |
| | | |
| CAPITAL EMPLOYED | | <u>£48,000</u> |

Understanding Financial Statements

- Valuable items not usually in the balance sheet
 - Customer lists and goodwill in the business
 - Future earning capability of the business
 - Management talent and workforce skills
 - Good industrial relations
 - Real economic value of fixed assets
 - Brands, logos and trademarks built up in the business
 - Copyrights and patents built up in the business

Understanding Financial Statements

- Accounting policies give a subjective view
 - Stock
 - Long term contracts
 - Research and development costs
 - Valuation of intangible assets
 - Depreciation

Understanding Financial Statements

Profit and loss account

Understanding Financial Statements

- What is the profit and loss account?
 - Technically part of the capital section of balance sheet
 - A statement of trading performance for the period

Understanding Financial Statements

- What does the profit and loss account show?
 - Sales
 - Cost of goods and services sold
 - Gross profit
 - Other costs of running the business
 - Profit

Understanding Financial Statements

The Mega Toy Company Limited

Trial Balance at 31-3-07

| | |
|----------------------------------|------------|
| Racking & equipment | £38,000 |
| Bank account | £78,000 |
| Stock | £128,000 |
| Debtors | £245,000 |
| Prepayments | £15,000 |
| Creditors | (£75,000) |
| Accruals | (£17,000) |
| Share capital | (£400,000) |
| BALANCE SHEET | |
| Sales | (£245,000) |
| Cost of sales | £147,000 |
| Distribution costs | £14,000 |
| Salaries | £20,000 |
| Rent | £15,000 |
| Marketing costs | £17,000 |
| Other overhead | £18,000 |
| Depreciation | £2,000 |
| PROFIT & LOSS ACCOUNT | |
| Check total | £0 |

Understanding Financial Statements

| | |
|--------------------------------|---|
| • The Mega Toy Company Limited | Profit & loss account to 31 st March |
| 2007 | |
| • Sales | ————— £245,000 |
| • Cost of sales | £147,000 |
| • Gross profit | £ 98,000 |
| • Distribution costs | £ 14,000 |
| • Salaries | £ 20,000 |
| • Rent | ————— £ 15,000 |
| • Marketing costs | £ 17,000 |
| • Other overhead costs | ————— £ 18,000 |
| • Depreciation | £ 2,000 |
| • Administrative expenses | £ 86,000 |
| • Profit before tax | £ 12,000 |

Understanding Financial Statements

Cashflow statement

Understanding Financial Statements

- In the good old days before the recession
 - Around 18,000 UK businesses failed every year
 - Research shows that many were profitable
 - So why do profitable businesses fail?

Understanding Financial Statements

- Why do profitable businesses fail?
 - Many businesses focus on sales and profit
 - Profit is not the same thing as cashflow
 - Many businesses have poor cashflow information
 - No easy access to additional funds
 - Lack of cash causes profitable businesses to fail

Understanding Financial Statements

- The golden rule

Cashflow is the lifeblood of the business

Understanding Financial Statements

- Vital difference between profit and cashflow
- What is profit?
 - Profit (or loss) arises from trading activity
 - Calculated in accordance with accounting rules

Understanding Financial Statements

- Vital difference between profit and cashflow
- What is profit?
 - Profit (or loss) arises from trading activity
 - Calculated in accordance with accounting rules
 - Profit = $\text{net sales income earned}$
minus
 $\text{trading costs incurred}$
 - Profit is a matter of opinion

Understanding Financial Statements

- Vital difference between profit and cashflow
- What is cashflow?
 - Cash actually flowing in and out of the business
 - Cashflow is a matter of **FACT**
 - **The biggest mistake any business can make is to assume that profit is an indicator of strength & health**
 - Lose control of cashflow and you lose control of the business

Understanding Financial Statements

- Vital difference between profit and cashflow
 - Profit for the period is £12,000
 - Cashflow for the period is £78,000
 - But why are they different?

Understanding Financial Statements

THE MEGA TOY COMPANY

JANUARY - MARCH 2007 TRANSACTIONS : EFFECT ON PROFIT AND CASHFLOW

| | Effect on cash | | Effect on profit | |
|---|----------------|---|------------------|---|
| | + | - | + | - |
| 1. Shares issued for £400,000 cash to the business partners | £400,000 | | | |
| 2. The company paid £30,000 for six months rent | | | | |
| 3. Racking and equipment bought for £40,000 | | | | |
| 4. Salaries of £20,000 paid | | | | |
| 4. Other overheads of £18,000 paid | | | | |
| 5. Cash paid for stock worth £200,000 | | | | |
| 6. Stock worth £75,000 bought on credit with 30 days to pay | | | | |
| 7. Sale of toys from stock costing £147,000 | | | | |
| 7. Freight costs paid by cheque | | | | |
| 7. Toys sold and invoiced for £245,000 on 60 day terms | | | | |
| 8. Company incurred £17,000 for the toy fair but has not been invoiced | | | | |
| 9. Racking and equipment depreciation charge of £2,000 for first three months | | | | |
| TOTALS | | | | |
| NET CASHFLOW / NET PROFIT | | | | |

Understanding Financial Statements

- Profit includes
 - Non cash items like depreciation
 - Sales invoiced but not paid for by customer
 - Costs incurred but not paid for

Understanding Financial Statements

- Profit includes
 - Non cash items like depreciation
 - Sales invoiced but not paid for by customer
 - Costs incurred but not paid for
- Profit does not include
 - Stock bought but not sold
 - Prepaid costs
 - Funds received from share issues or loans
 - Fixed assets purchased

Understanding Financial Statements

- Cashflow statement
 - Is a bridge between profit and loss account and balance sheet
- What does the cashflow statement show?
 - Where funds have come from
 - How funds have been applied in the business
 - Cashflow in the period

Understanding Financial Statements

| | | |
|--------------------------------|----------------|---|
| • The Mega Toy Company Limited | | Profit & loss account to 31 st March |
| 2007 | | |
| • Sales | ————— | £245,000 |
| • Cost of sales | | £147,000 |
| • Gross profit | | £ 98,000 |
| • Distribution costs | | £ 14,000 |
| • Salaries | | £ 20,000 |
| • Rent | ————— | £ 15,000 |
| • Marketing costs | £ 17,000 | |
| • Other overhead costs | <u>£ 2,000</u> | £ 18,000 |
| • Depreciation | £ 2,000 | |
| • Administrative expenses | £ 86,000 | |
| • Profit before tax | | £ 12,000 |

Understanding Financial Statements

- The Mega Toy Company Limited Cashflow statement to 31st March 2007
- Profit £ 12,000
- Add back non-cash items: depreciation £ 2,000
- Funds generated from operations £ 14,000
- Proceeds from share issue £400,000
- Source of funds £414,000
- Increase in stock

Understanding Financial Statements

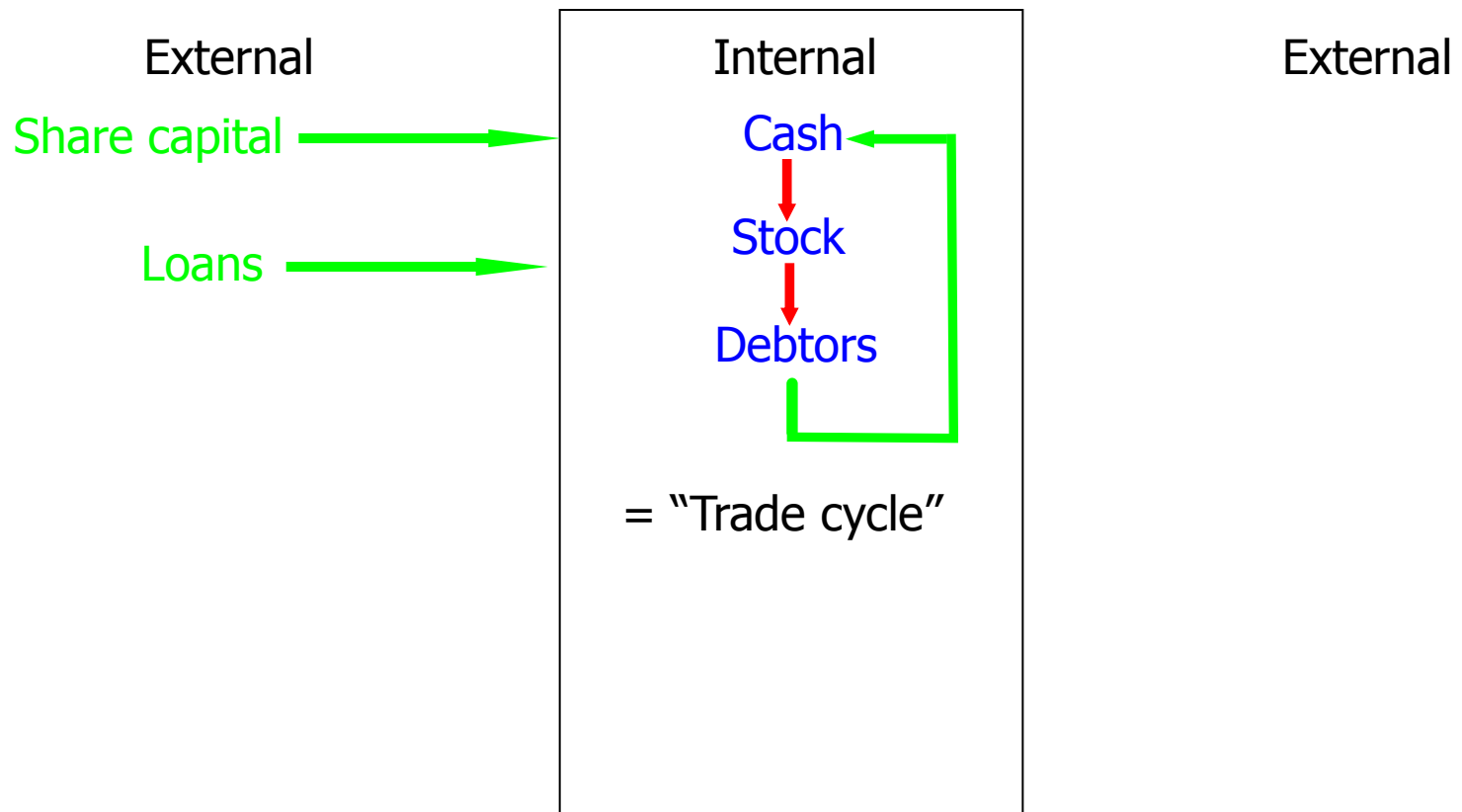
| | | |
|----------------------------------|--|-----------------|
| • The Mega Toy Company Limited | Balance sheet at 31 st March 2007 | |
| • Racking & equipment at cost | £ 40,000 | |
| • Less depreciation | £ 2,000 | |
| • Fixed assets at net book value | <u> </u> | £ 38,000 |
| • Cash | | £ 78,000 |
| • Stock | | £128,000 |
| • Debtors | £245,000 | |
| • Prepayments | £ 15,000 | |
| • Current assets | <u>£466,000</u> | |
| • Creditors | | £ 75,000 |
| • Accruals | £ 17,000 | |
| • Current liabilities | <u>£ 92,000</u> | |
| • Net current assets | | <u>£374,000</u> |
| • NET ASSETS | | <u>£412,000</u> |
| • Represented by | | |
| • Share capital | £400,000 | |
| • Profit for the period | £ 12,000 | |
| • | | <u>£412,000</u> |

Understanding Financial Statements

- The Mega Toy Company Limited Cashflow statement to 31st March 2007
- Profit £ 12,000
- Add back non-cash items: depreciation £ 2,000
- Funds generated from operations £ 14,000
- Proceeds from share issue £400,000
- Source of funds £414,000
- Increase in stock £(128,000)
- Increase in debtors £(245,000)

Understanding Financial Statements

Business funds flow

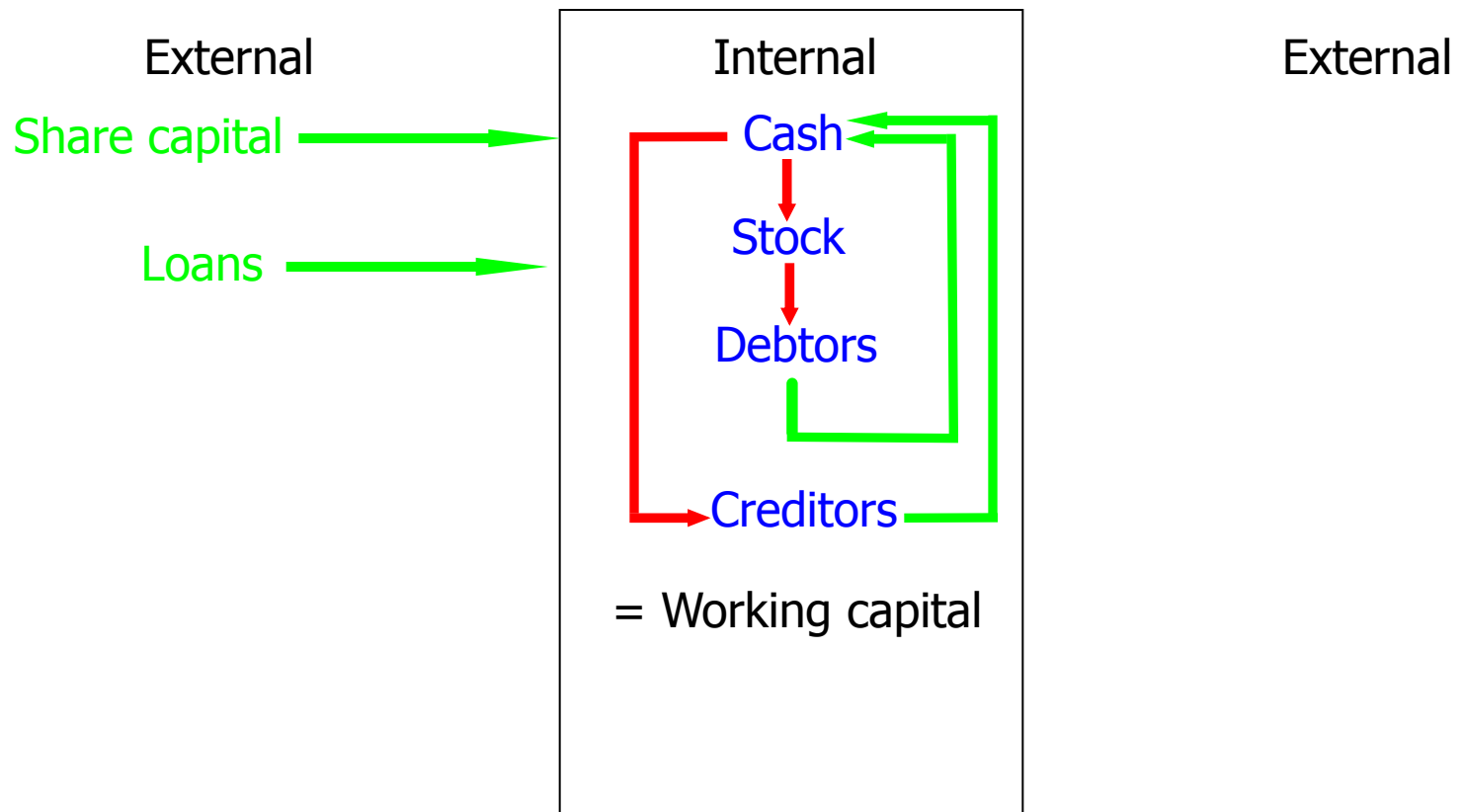


Understanding Financial Statements

| | | |
|---|-------|-----------------------|
| • The Mega Toy Company Limited 31 st March 2007 | | Cashflow statement to |
| • Profit | ————— | £ 12,000 |
| • Add back non-cash items: <u>depreciation</u> | | £ 2,000 |
| • Funds generated from operations | | £ 14,000 |
| • Proceeds from share issue | | £400,000 |
| • Source of funds | | £414,000 |
| • Increase in stock | ————— | £(128,000) |
| • Increase in debtors | | £(245,000) |
| • Increase in prepayments | | £(15,000) |
| • Increase in creditors | | £ 75,000 |
| • Increase in accruals | | £ 17,000 |
| • Increase in net working capital | | £(296,000) |

Understanding Financial Statements

Business funds flow

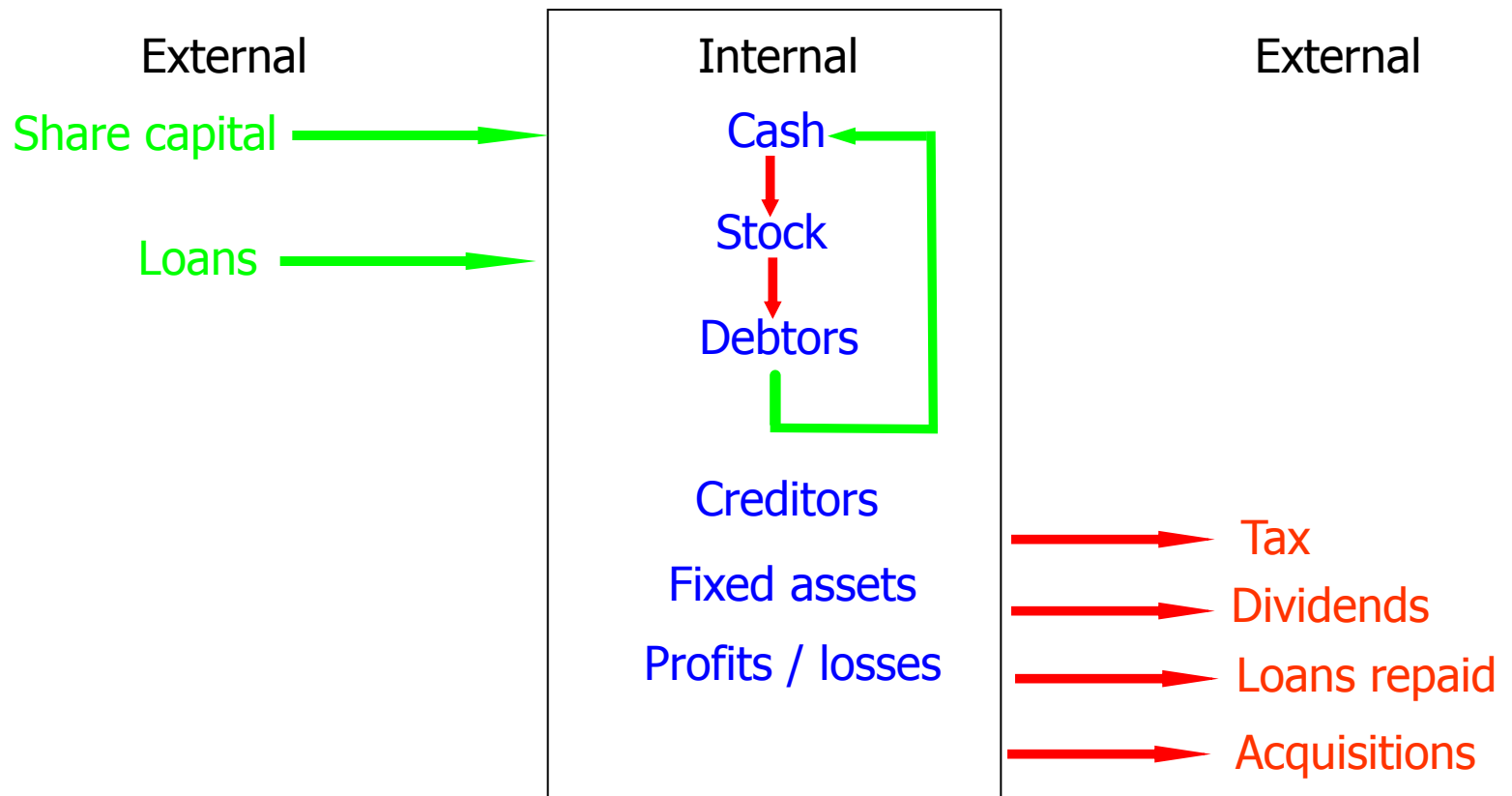


Understanding Financial Statements

| | | |
|---|-----------------------------|---|
| • The Mega Toy Company Limited | | Cashflow statement to 31 st March 2007 |
| • Profit | £ 12,000 | |
| • Add back non-cash items: depreciation | <u>£ 2,000</u> | |
| • Funds generated from operations | | £ 14,000 |
| • Proceeds from share issue | £400,000 | |
| • Source of funds | £414,000 | |
| • Increase in stock | £(128,000) | |
| • Increase in debtors | £(245,000) | |
| • Increase in prepayments | £(15,000) | |
| • Increase in creditors | | £ 75,000 |
| • Increase in accruals | <u> </u> | £ 17,000 |
| • Increase in net working capital | £(296,000) | |
| • Fixed assets purchased | £(<u>40,000</u>) | |
| • Application of funds | <u> </u> | £(336,000) |
| • CASHFLOW | <u>£ 78,000</u> | |

Understanding Financial Statements

Business funds flow



Understanding Financial Statements

- Cashflow is the lifeblood of the business
 - Weak cashflow causes many business failures
 - Cashflow drives business growth
 - Without strong cashflow business slows and dies

Understanding Financial Statements

- Two ways to improve cashflow
 - 1.Inject additional funds
 - Debt
 - Equity
 - 2.Unlock the funds tied up in the business

Understanding Financial Statements

- Inject additional funds
 - Debt
 - Loans and overdrafts from banks and others
 - No dilution of ownership or control of the company
 - Overdrafts provide flexible funding
 - Not easy to get in current climate
 - Can be expensive
 - Must be repaid regardless of conditions
 - Loan covenants may restrict business activities
 - Overdrafts repayable on demand

Understanding Financial Statements

- Inject additional funds
 - Debt
 - Equity
 - Share capital from existing or new investors
 - Usually less expensive than debt
 - Dividends only paid when profit and cash
 - Not always easy to find investors
 - Can mean significant dilution of ownership
 - Significant loss of control of business



Understanding Financial Statements

- Unlock the funds tied up in the business
 - Fixed assets
 - Operating leases
 - Asset backed loans
 - Working capital

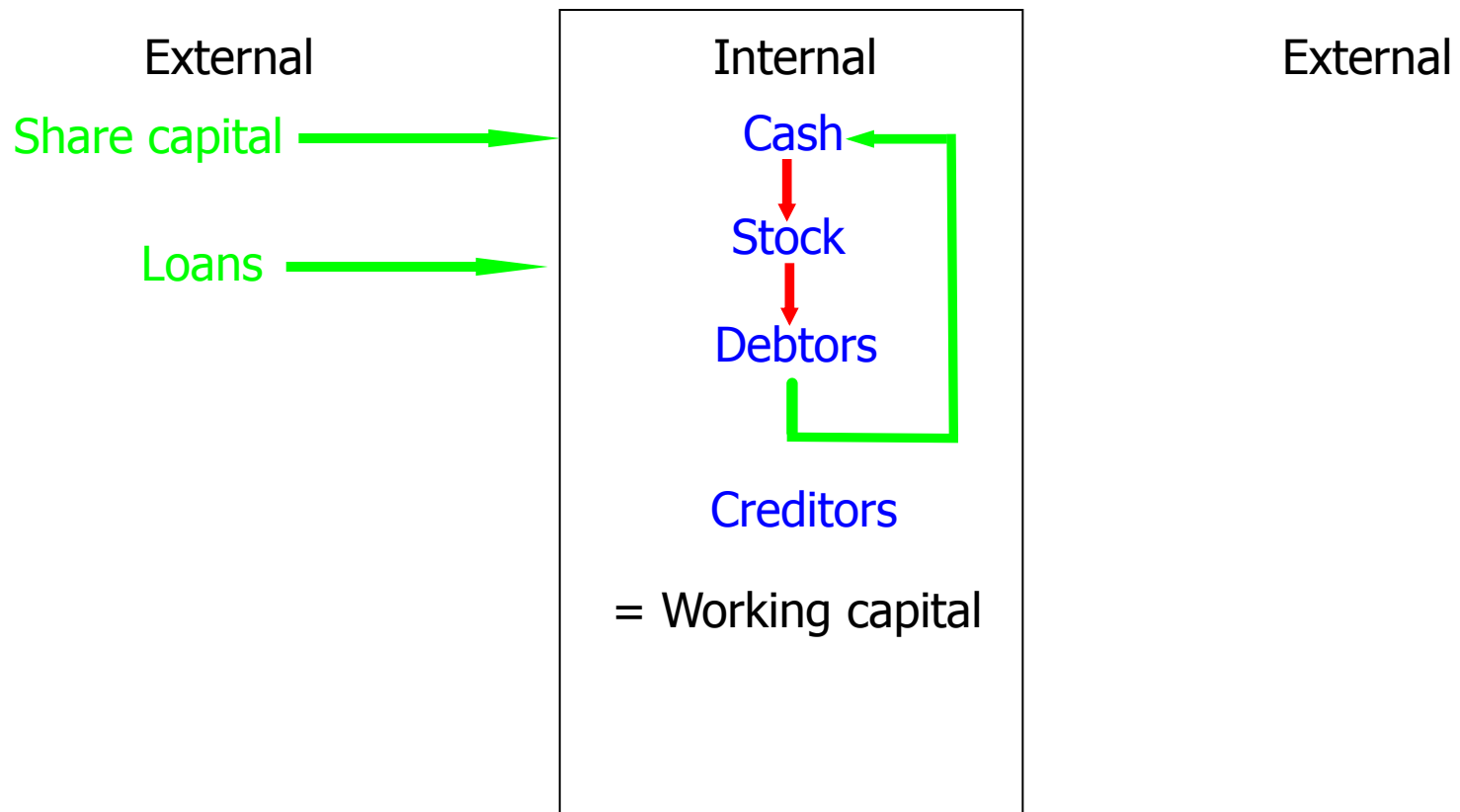
Managing Working Capital

Managing Working Capital

- What is working capital?
 - The “circulating capital” of the business

Managing Working Capital

Business funds flow



Managing Working Capital

- What is working capital?
 - The “circulating capital” of the business
 - Shown in balance sheet as “net current assets”
 - Net current assets = current assets
minus
current liabilities

Managing Working Capital



The Kosi-Knit Sweater Company

Managing Working Capital

KOSI-KNIT SWEATERS

BALANCE SHEET AS AT 31st DECEMBER

| | 2007 | 2006 |
|---------------------|-------------------|-------------------|
| Fixed assets | £86,000 | £121,000 |
| Cash | £25,000 | £153,000 |
| Stock | £680,000 | £544,000 |
| Debtors | £1,001,000 | £833,000 |
| Current assets | £1,706,000 | £1,530,000 |
| Creditors | £341,000 | £398,000 |
| VAT & tax creditor | £75,000 | £62,000 |
| Current liabilities | £416,000 | £460,000 |
| Net current assets | £1,290,000 | £1,070,000 |
| NET ASSETS | <u>£1,376,000</u> | <u>£1,191,000</u> |
| Represented by: | | |
| Share capital | £750,000 | £750,000 |
| Retained profits | £441,000 | £410,000 |
| Current year profit | £185,000 | £31,000 |
| | <u>£1,376,000</u> | <u>£1,191,000</u> |

Managing Working Capital

- Kosi-Knit Sweaters Limited Cashflow
statement to 31st March 2007
- Profit _____ £ 185,000
- Add back non-cash items: depreciation
£ 35,000
- Funds generated from operations
£ 220,000
- Source of funds £ 220,000
- Increase in stock £544,000 to £ 680,000
£(136,000)

Managing Working Capital

- Why hold stock?
 - Holding stock is expensive
 - But “stock-outs” also incur costs
 - Holding stock is a trade off

Managing Working Capital

- Kosi-Knit Sweaters Limited Cashflow statement to 31st
March 2007

| | | |
|---|------------------------|-----------|
| • Profit | <u> </u> | £ 185,000 |
| • Add back non-cash items: depreciation | <u> </u> | £ |
| 35,000 | | |
| • Funds generated from operations | | £ |
| 220,000 | | |
| • Source of funds | | £ 220,000 |
| • Increase in stock | £544,000 to £ 680,000 | |
| £(136,000) | | |
| • Increase in debtors | £833,000 to £1,001,000 | |
| £(168,000) | | |

Managing Working Capital

- Why give free loans to customers?
 - Providing credit is expensive
 - But the alternative also incurs cost
 - Giving credit to customers is a trade off

Managing Working Capital

| | | |
|---|---|-------------------|
| • Kosi-Knit Sweaters Limited | Cashflow statement to 31 st March 2007 | |
| • Profit | £ 185,000 | |
| • Add back non-cash items: depreciation | <u>£ 35,000</u> | |
| • Funds generated from operations | | £ 220,000 |
| • Source of funds | <u>£ 220,000</u> | |
| • Increase in stock £544,000 to £ 680,000 | £(136,000) | |
| • Increase in debtors £833,000 to £1,001,000 | £(168,000) | |
| • Decrease in creditors £398,000 to £ 341,000 | | £(57,000) |
| • Increase in VAT due £ 62,000 to £ 75,000 | ————— | £ 13,000 |
| • Increase in net working capital | ————— | £(348,000) |
| • Application of funds | ————— | £(348,000) |
| • CASHFLOW | | <u>£(128,000)</u> |

Managing Working Capital

- Kosi-Knit Sweaters Limited Working capital requirement

| | 2007 | | | 2006 | | |
|------------------------------------|-------------------|-------------|------|------------------|-------------|-------|
| • Sales | £3,650,000 | 100.0% | | £3,400,000 | 100.0% | |
| • Stock | £ 680,000 | 18.6% | | £ 544,000 | 16.0% | |
| • Debtors | <u>£1,001,000</u> | 27.4% | | <u>£ 833,000</u> | 24.5% | |
| • Current assets | £1,681,000 | 46.1% | | £1,377,000 | 40.5% | |
| • Creditors | | £ 341,000 | 9.3% | | £ 398,000 | 11.7% |
| • VAT creditor | <u>£ 75,000</u> | <u>2.1%</u> | | <u>£ 62,000</u> | <u>1.8%</u> | |
| • Current liabilities | £ 416,000 | 11.4% | | £ 460,000 | 13.5% | |
| • Working capital (excluding cash) | £1,265,000 | 34.7% | | £ 917,000 | 27.0% | |

- Working capital required to finance sales of £1,000,000 =

| | | |
|---|----------------------------|----------------------------|
| • | $£1,000,000 \times 34.7\%$ | $£1,000,000 \times 27.0\%$ |
| • | = £ 347,000 | = £ 270,000 |

Managing Working Capital

- Why is working capital so important?
 - Working capital must be funded
 - Sales growth requires additional working capital
 - So additional funding will be required to finance growth
 - Beware of overtrading
 - Overtrading results in an acute cashflow crisis
 - Caused by a rapid expansion in sales
 - Resulting in an increased working capital requirement
 - Beyond the level that can be funded by the business

Managing Working Capital

- Always consider working capital impact
 - Decisions to improve sales and profit affect working capital
 - Kosi-Knit made smart decisions to improve sales and profit
 - But did not consider impact on working capital
 - Supply from China increased stockholding requirement
 - And reduced a source of funds from creditors
 - New customers' terms increased level of debtors
 - Significant increase in funding required

Managing Working Capital

- Two drivers of strong business
 - Cashflow is the lifeblood of the business
 - Strong cashflow drives business growth
 - Profit is a vital internal source of additional cashflow

Masters in Finance

Gross Margin and Profit

Gross Margin and Profit

- Generating strong profits
 - Profit concept seems straightforward
 - Profit = revenue minus costs
 - But not all costs behave in the same way

Gross Margin and Profit



The barrow boy's guide to profit

Gross Margin and Profit

- The fruit market:
- Selling price of one box of fruit £15.00
- Cost of one box of fruit £10.00
- Gross margin £ 5.00

- Daily cost of renting market stall £40.00

- So stall rent is paid for after selling ~~£40.00~~ — boxes of fruit
- £5.00

- Stall rent is paid for after selling 8 boxes of fruit

Gross Margin and Profit

- Break-even point
 - The most important dividing line in business
 - Sales level at which the business just covers its costs
 - Below this sales level the business will make a loss
 - Above this sales level the business will make a profit

Gross Margin and Profit

- Two types of business cost
 - Fixed costs
 - not related to activity level - time related
 - e.g. salaries, rent and insurance
 - Variable costs
 - related to activity level
 - e.g. product costs, freight and delivery costs

Gross Margin and Profit

- Gross margin
 - What is left after deducting variable cost from sales
 - Gross margin is the real income of the business

Gross Margin and Profit

- Break-even point

$$\text{Break-even point} = \frac{\text{Fixed costs}}{\text{Gross margin per unit}}$$

Gross Margin and Profit

- The fruit market:
- Selling price of one box of fruit £15.00
- Cost of one box of fruit £10.00
- Gross margin £ 5.00

- Daily cost of renting market stall £40.00

- So stall rent is paid for after selling ————£40.00 boxes of fruit
- £5.00

- Stall rent is paid for after selling 8 boxes of fruit

Gross Margin and Profit

- Break-even point

$$\text{Break-even point} = \frac{\text{Fixed costs}}{\text{Gross margin per unit}}$$

$$\text{Break-even sales} = \frac{\text{Fixed costs}}{\text{Gross margin percentage}}$$

Gross Margin and Profit

- The fruit market:
- Selling price of one box of fruit £15.00
- Variable cost _____ £10.00
- Gross margin £ 5.00

- Fixed costs £40.00

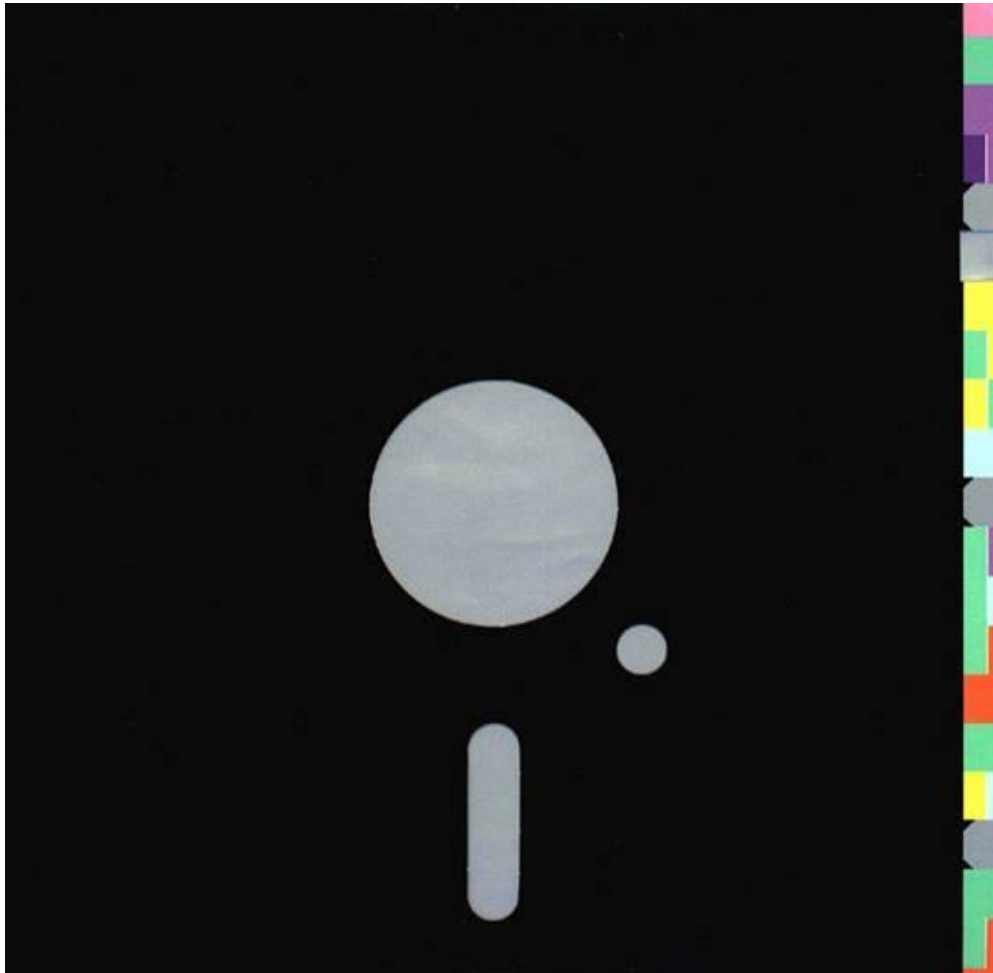
- Break-even sales = £40.00 ———
- 33.3%
- Break-even sales = £120 (sales value of 8 boxes of fruit)
-

Gross Margin and Profit

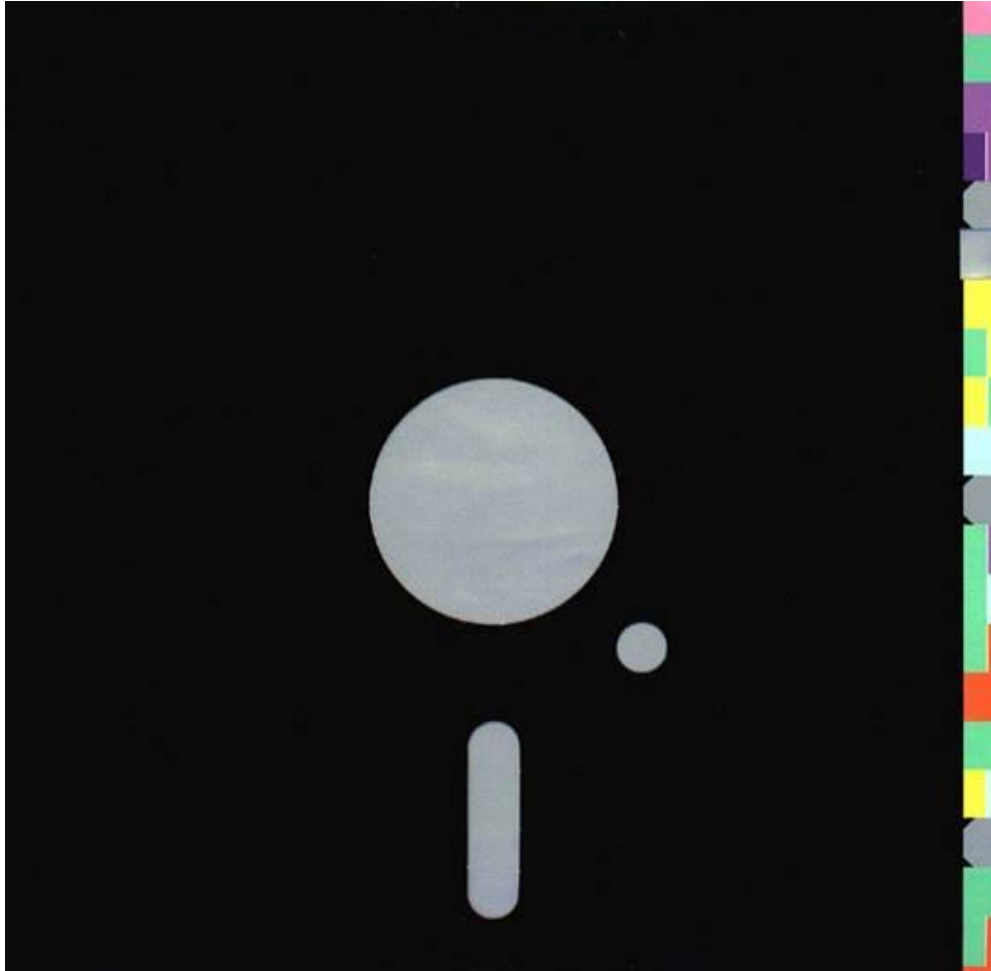
- A business cannot make a profit
 - Until sales exceed break-even point or in other words
 - Until fixed costs are covered by gross margin
 - Gross margin is the real income of the business

- Seems obvious?
- But the concept is not widely understood

Gross Margin and Profit



Gross Margin and Profit



Gross Margin and Profit

- | Sales | Gross margin % | Gross margin |
|------------|----------------|--------------|
| £2,000,000 | 5% | ? |
| £1,000,000 | 10% | ? |
| £ 500,000 | 20% | ? |
| £ 333,333 | 30% | ? |
| £ 200,000 | 50% | ? |
- These five businesses have one thing in common

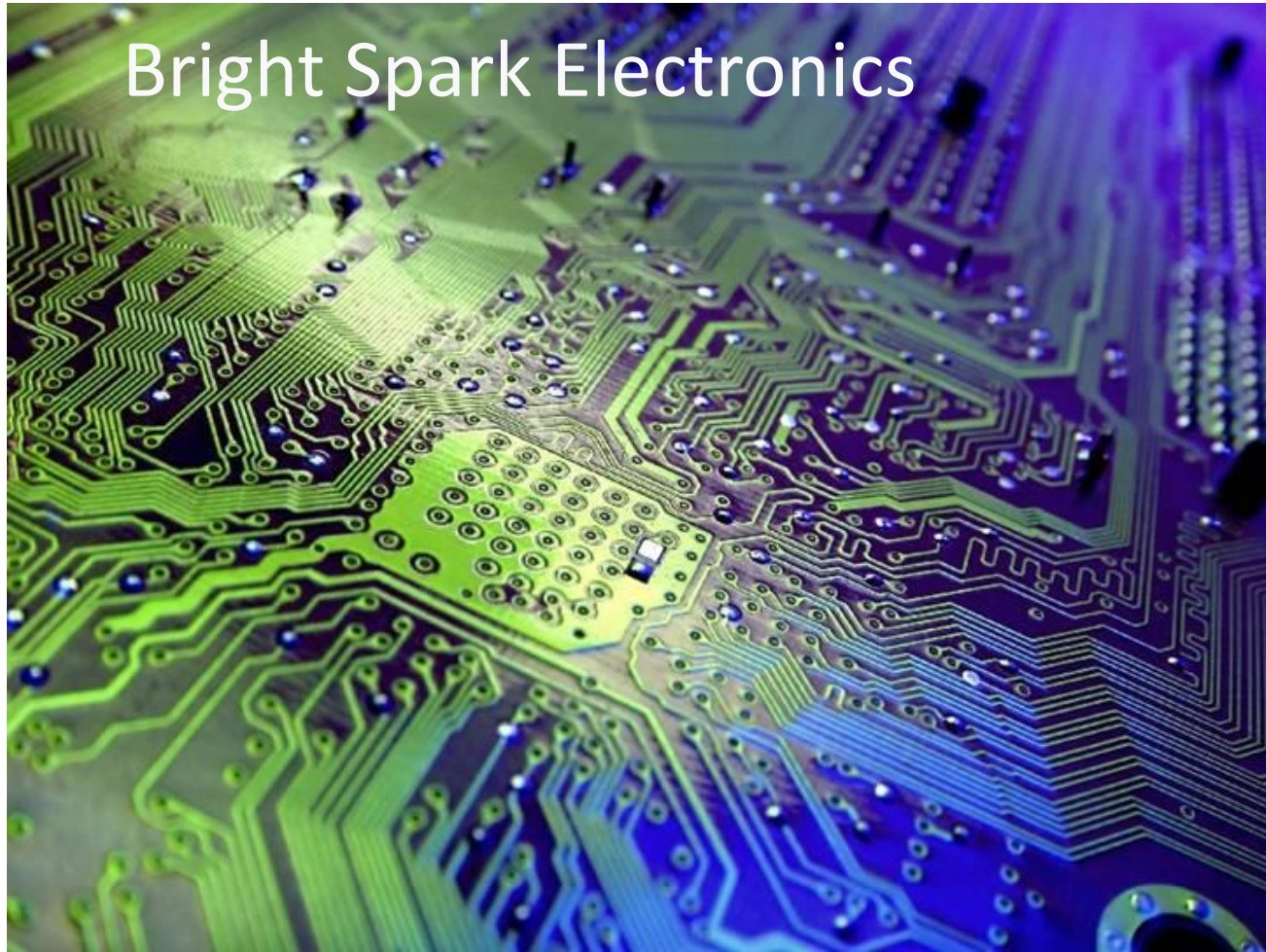
Gross Margin and Profit

- | Sales | Gross margin % | Gross margin |
|------------|----------------|--------------|
| £2,000,000 | 5% | £100,000 |
| £1,000,000 | 10% | £100,000 |
| £ 500,000 | 20% | £100,000 |
| £ 333,333 | 30% | £100,000 |
| £ 200,000 | 50% | £100,000 |
- These five businesses have one thing in common
- They all produce a gross margin of £100,000

Gross Margin and Profit

| | Fixed costs | Gross margin % | Break-even sales |
|---|-------------|----------------|------------------|
| • | £ 100,000 | 5% | £2,000,000 |
| • | £ 100,000 | 10% | £1,000,000 |
| • | £ 100,000 | 20% | £500,000 |
| • | £ 100,000 | 30% | £333,333 |
| • | £ 100,000 | 50% | £200,000 |
| • | | | |
| • | | | |

Gross Margin and Profit



Gross Margin and Profit

- The Bright Spark Electronics Company
- Profit and loss account to 31st December

| | 2008 | 2007 |
|---------------------------|------------|------------|
| • Sales | £2,200,000 | £2,300,000 |
| • Gross margin | £ 568,000 | £ 600,000 |
| • Gross margin percentage | 25.8% | 26.1% |
| • Overhead costs | £ 510,000 | £ 475,000 |
| • Operating profit | £ 58,000 | £ 125,000 |

• What is the break-even sales point in each of the two years?

Gross Margin and Profit

- The Bright Spark Electronics Company

| Profit and loss account to 31 st December | 2008 | 2007 |
|--|------------|------------|
| Sales | £2,200,000 | £2,300,000 |
| Gross margin | £ 568,000 | £ 600,000 |
| Gross margin percentage | 25.8% | 26.1% |
| Overhead costs | £ 510,000 | £ 475,000 |
| Operating profit | £ 58,000 | £ 125,000 |

- Break-even sales =
$$\frac{\text{Fixed costs}}{\text{Gross margin percentage}}$$
-
-

Gross Margin and Profit

- The Bright Spark Electronics Company
- Profit and loss account to 31st December

| | 2008 | 2007 |
|-------------------------|------------|------------|
| Sales | £2,200,000 | £2,300,000 |
| Gross margin | £ 568,000 | £ 600,000 |
| Gross margin percentage | 25.8% | 26.1% |
| Overhead costs | £ 510,000 | £ 475,000 |
| Operating profit | £ 58,000 | £ 125,000 |

- Break-even sales

| | 2008 | 2007 |
|------------------|------------|------------|
| Break-even sales | £ 510,000 | £ 475,000 |
| | 25.8% | 26.1% |
| Break-even sales | £1,975,352 | £1,820,833 |

Why has the break-even point increased?

Gross Margin and Profit

- The Bright Spark Electronics Company
- Profit and loss account to 31st December

| | 2008 | 2007 |
|---------------------------|------------|------------|
| • Sales | £2,200,000 | £2,300,000 |
| • Gross margin | £ 568,000 | £ 600,000 |
| • Gross margin percentage | 25.8% | 26.1% |
| • Overhead costs | £ 510,000 | £ 475,000 |
| • Operating profit | £ 58,000 | £ 125,000 |

• Why is profit lower in 2008?

Because of the combined effect of:

Higher break-even sales point

Lower sales volume

Gross Margin and Profit

- The Bright Spark Electronics Company
- Profit and loss account to 31st December

| | 2008 | 2007 |
|---------------------------|------------|------------|
| • Sales | £2,200,000 | £2,300,000 |
| • Gross margin | £ 568,000 | £ 600,000 |
| • Gross margin percentage | 25.8% | 26.1% |
| • Overhead costs | £ 510,000 | £ 475,000 |
| • Operating profit | £ 58,000 | £ 125,000 |

•How can profit be increased?

Gross Margin and Profit

- The Bright Spark Electronics Company

| 2Gb special memory chip | Before | After | |
|--|---------------|---------------|-------|
| • Selling price per unit | £10.00 | £ 9.00 | - 10% |
| • Variable cost per unit | <u>£ 7.50</u> | <u>£ 7.50</u> | |
| • Gross margin per unit | £ 2.50 | £ 1.50 | - 40% |
| • Annual sales units | 10,000 | 11,600 | + 16% |
| • Gross margin from sales | £25,000 | £17,400 | - 30% |
| • Increase in sales volume required to achieve same gross margin = | | | 67% |

-

Gross Margin and Profit

Increase in sales volume to offset effect of price reductions on gross margin

| % price reduction | Existing gross margin percentage | | | |
|---|----------------------------------|-----|-----|-----|
| | 20% | 25% | 30% | 35% |
| % increase in sales volume to produce same gross margin | | | | |
| 5 | 33 | 25 | 20 | 17 |
| 7 | 54 | 39 | 30 | 25 |
| 10 | 100 | 67 | 50 | 40 |
| 12 | 150 | 92 | 67 | 52 |
| 15 | 300 | 150 | 100 | 75 |

Gross Margin and Profit

- How can profit be increased?
 - Increase price and sell the same volume
 - Action on price is the most effective way to improve profit
 - Increase sales volume at the same price
 - Reduce the break-even point
 - Reduce variable costs : “value analysis” techniques
 - Improve sales mix
 - Reduce fixed costs

Gross Margin and Profit

- A business cannot make a profit
 - Until sales exceed break-even point
or in other words
 - Until fixed costs are covered by gross margin
 - Gross margin is the real income of the
business

Gross Margin and Profit

- How does this work with service businesses?
 - Some service businesses use third party consultants
 - But many retain full time partners and staff
 - These businesses tend to have no variable costs
 - All costs tend to be fixed

Gross Margin and Profit

- How does this work with service businesses?
 - So in these businesses $\text{sales} = \text{gross margin}$
 - Break-even is achieved when $\text{sales} = \text{fixed costs}$
 - To ensure that the business achieves target profit check that
 - Required sales are achievable at realistic utilisation levels
 - And at a realistic average fee rate

Gross Margin and Profit



Morgan Brown Gillespie Limited

Gross Margin and Profit

- Morgan Brown Gillespie Limited

- Salary and pension costs £2,000,000
- Administration costs £1,350,000
- Fixed costs for 2009 £3,350,000

- Break-even sales = £3,350,000

- Hours to be billed to achieve break-even = $\frac{\text{Break-even sales}}{\text{Average hourly rate}}$

- Hours to be billed in 2009 to achieve break-even = $\frac{£3,350,000}{£280} = 11,965$ hours

- Percentage of available chargeable hours $\frac{11,965}{16,500} = 73\%$

Gross Margin and Profit

- Morgan Brown Gillespie Limited
- Sales to achieve target profit of 20% on sales = $\frac{\text{fixed costs} \times 100}{(100 - 20)}$
- So sales to achieve target profit of 20% on sales = £4,187,500
- Hours to be billed in 2009 to achieve target profit = $\frac{£4,187,500}{£280}$
= 14,955 hours
- Percentage of available chargeable hours = $\frac{14,955}{16,500} = 91\%$
- It is unlikely that the firm will achieve the level of utilisation required to achieve target profit

**FINANCE
FOR NON-FINANCIAL MANAGERS**

**FINANCE
FOR NON-FINANCIAL MANAGERS**

Masters in Finance



Measuring Performance

Measuring Performance

- Financial measures
- Non-financial measures

Measuring Performance

- Financial measures
 - Performance measures: how well the business is run
 - Financial strength measures: ability to meet liabilities
 - Stock market measures: from the investors point of view

Measuring Performance



Skanda Kitchens PLC

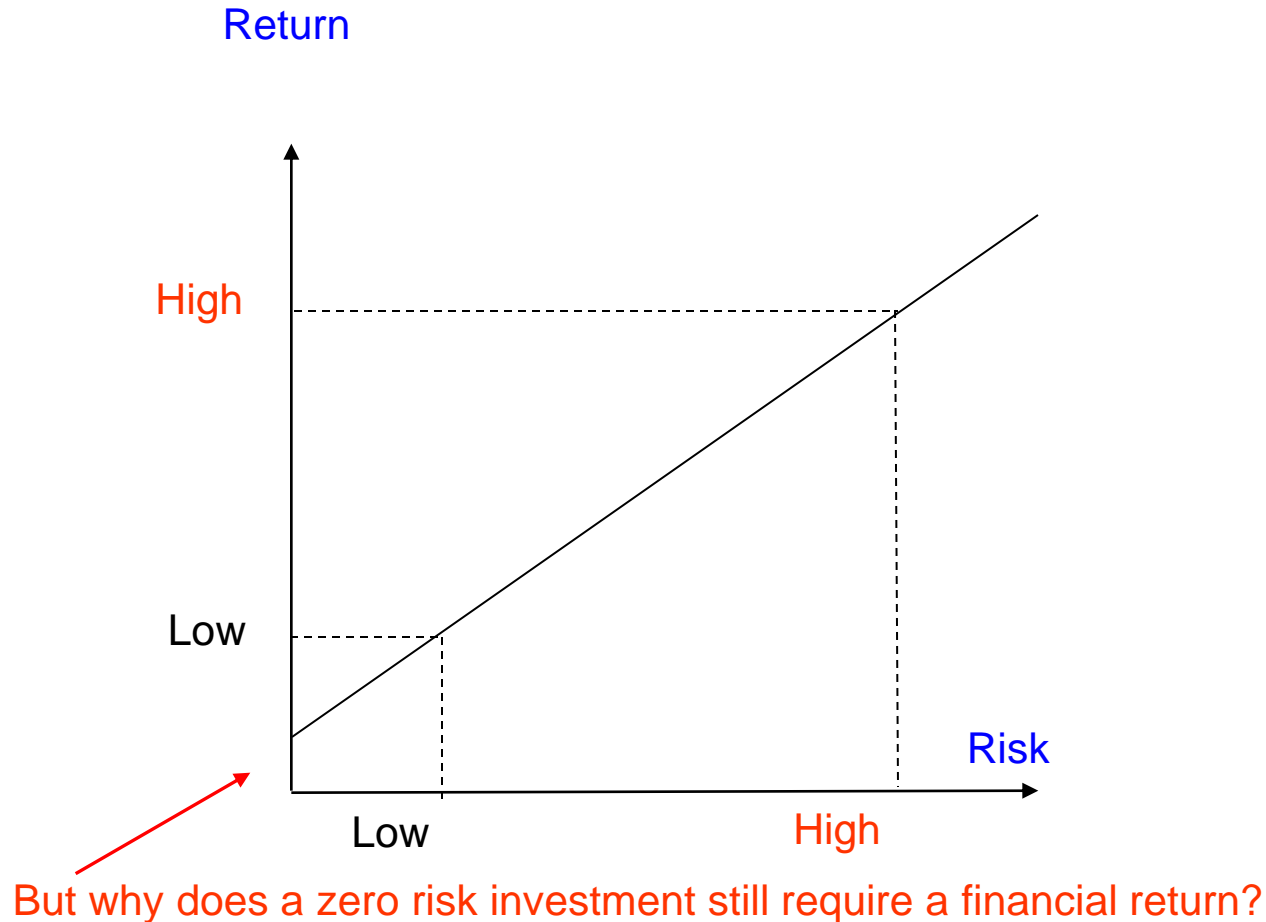
Measuring Performance

- Performance measures
 - How well the business is being run
 - Profit and cashflow are good indications
 - Return on investment (ROI) is a key measure

Measuring Performance

- Return on investment
 - Fundamental business concept
 - Investors' funds are attracted by best rate of return
 - But different investments carry different risks
 - So rate of return must reflect level of risk taken

Measuring Performance



Measuring Performance

- Return on investment

Return on Equity

Profit after tax

Ordinary shareholders funds (Equity)

Measuring Performance

- Return on investment

Return on Net Assets

Profit before interest payable and tax (PBIT)

Net Assets

Measuring Performance

- Return on Net Assets
 - Determined by two key measures:
 - Profit Margin
 - Net Asset Turnover

Measuring Performance

- Profit Margin

$$\frac{\text{Profit before interest payable and tax}}{\text{Sales}} \times 100$$

Measuring Performance

Skanda Kitchens PLC

Profit and loss account for year ended 31st December 2007

£000's omitted

| | |
|--|---------------|
| Sales | 34,000 |
| Cost of sales | <u>22,780</u> |
| Gross profit | 11,220 |
| | |
| Distribution and administrative expenses | <u>8,800</u> |
| Operating profit (PBIT) | 2,420 |
| | |
| Loan interest payable | <u>250</u> |
| Profit before tax | 2,170 |
| | |
| Tax | <u>650</u> |
| Profit after tax | 1,520 |

Measuring Performance

- Profit Margin

$$\frac{\text{£ 2.42m}}{\text{£ 34m}} \times 100 = 7.1\%$$

Measuring Performance

Comparison of Profit Margin

£ millions omitted

| Company | Year ended | | Sales | Operating Profit |
|------------------|---------------|-----------|----------|------------------|
| | Profit Margin | | | |
| Skanda Kitchens | Dec 07 | 34 | 2.4 | 7% |
| Walmart | Jan 09 | \$405,607 | \$22,798 | 6% |
| South East Water | Mar 09 | 170 | 61 | 36% |
| Marks & Spencer | Mar 09 | 9,062 | 871 | 10% |
| British Airways | Mar 08 | 8,753 | 875 | 10% |

Measuring Performance

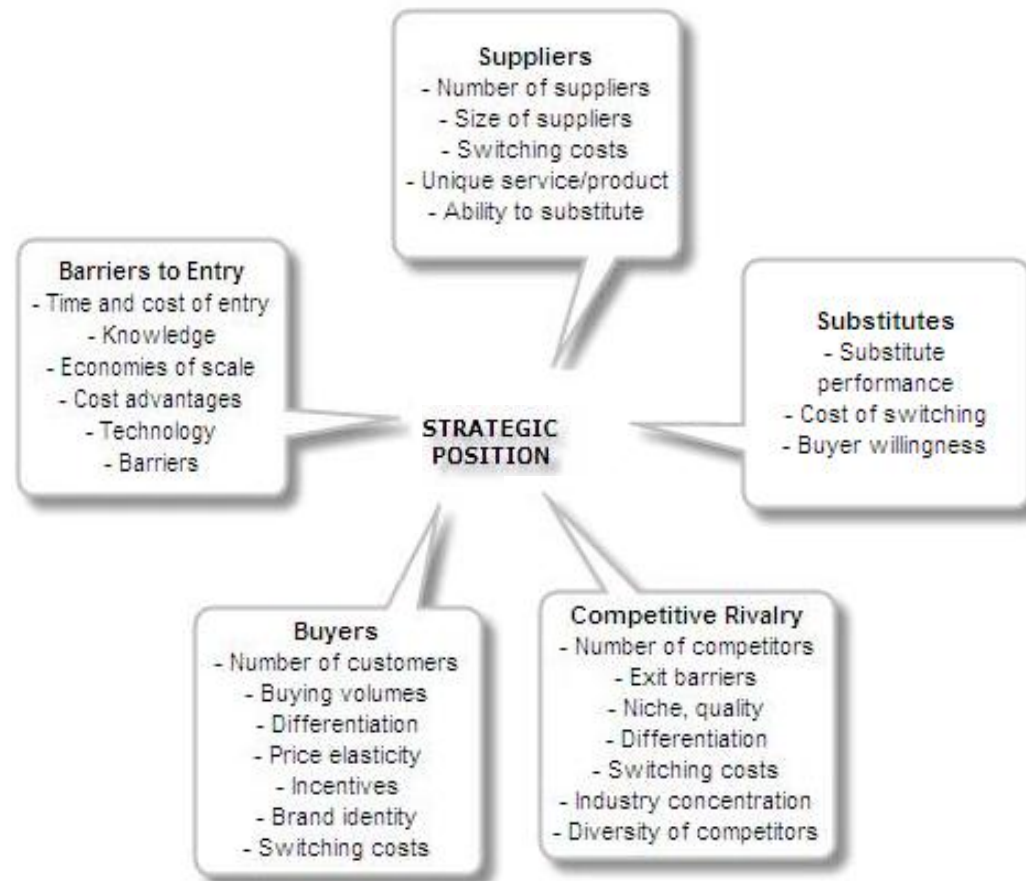
- Why do some have better profits than others?
 - More profitable industry sectors
 - More profitable products
 - More profitable companies

Measuring Performance

- Why are some industries more profitable?

Measuring Performance

Porter's Five Forces: determinants of industry sector profitability



Measuring Performance

Porter's Five Forces: determinants of industry sector profitability



Buyers

- Number of customers
- Buying volumes
- Differentiation
- Price elasticity
 - Incentives
- Brand identity
- Switching costs

Measuring Performance

- Why are some products more profitable?
 - Stage in product lifecycle
 - Complexity and cost
 - Perceived customer value and price
 - Availability of substitutes
 - Elasticity of demand
 - Brand premium

Measuring Performance

- Why are some companies more profitable?
 - Industry sector
 - Product type and mix
 - Gross margin / volume
 - Cost management
 - Competitive advantage

Measuring Performance

- Competitive advantage

Is what enables the enterprise to create superior value for its customers and superior profits for itself

Michael Porter

Measuring Performance

- Two types of competitive advantage
 - Cost advantage

The enterprise creates the same benefits as competitors but at a lower cost
 - Differentiation advantage

The enterprise delivers benefits that exceed those of competitors at the same cost

Here is a real example of a business with a cost advantage

Measuring Performance



Measuring Performance

- Competitive advantage
 - Real competitive advantage has two key attributes
 - It is **hard to copy** and
 - It is **sustainable**

Measuring Performance

- Why do some have better profits than others?
 - More profitable industry sectors
 - More profitable products
 - More profitable companies

So how do the companies with low profit margins keep their shareholders happy?

Measuring Performance

- Return on Net Assets
 - Determined by two key measures:
 - Profit Margin
 - Net Asset Turnover

Measuring Performance

- Net Asset Turnover
 - Measures capital intensity of the business

Measuring Performance

- Capital intensity

£ millions

MARKS &
SPENCER












March 09

angel^{Trains}

Forecast Dec 09

| | | | | | | |
|--------------------|--------|---|-----|--------|---|------|
| Fixed assets | £5,868 | | | £3,295 | | |
| Net current assets | (£917) | | | £10 | | |
| Net assets | £4,951 | | | 3,305 | | |
| Sales | £9,062 | | | £422 | | |
| Capital intensity | £4,951 | = | 55% | £3,305 | = | 783% |
| | £9,062 | | | £422 | | |

Measuring Performance

| Capital intensity of different industry sectors | | | |
|---|---|---|--|
| | High | Medium | Low |
| National Grid |  | | |
| Supermarkets | | |  |
| Hotel chain | | |  |
| Tour operator | | |  |
| Advertising agency | | |  |
| Water company |  | | |
| Motor manufacturer | |  | |
| Law firm | | |  |
| Electricity generator – nuclear |  | | |
| Electricity generator – gas | |  | |
| Airline operator – British Airways |  | | |

Measuring Performance

- Net Asset Turnover
 - Measures capital intensity of the business
 - Measures the level of asset utilisation in the business

Measuring Performance



Measuring Performance

- Net Asset Turnover

- Measures capital intensity of the business
- Measures the level of asset utilisation in the business

– Calculated as: _____

Sales

Net Assets ¹

Measuring Performance

Skanda Kitchens PLC
Balance Sheet as at 31st December 2007
£000's omitted

| | | |
|--------------------------------|--------------|---------------|
| Fixed assets at net book value | | 3,700 |
| Cash | 1,184 | |
| Stock | 13,288 | |
| Debtors | <u>4,658</u> | |
| Current assets | 19,130 | |
| Creditors due within one year | <u>2,060</u> | |
| Net current assets | | 17,070 |
| NET ASSETS | | <u>20,770</u> |

Measuring Performance

Comparison of Net Asset Turnover

£ millions omitted

| Company | Year ended | Sales |
|------------|--------------------|-------|
| Net Assets | Net Asset Turnover | |

| | | |
|-----------------|--------|----|
| Skanda Kitchens | Dec 07 | 34 |
| 21 | 1.6 | |

| | | |
|-----------|--------|-----------|
| Walmart | Jan 09 | \$405,607 |
| \$108,039 | 3.8 | |

Measuring Performance

- Return on Net Assets
 - Determined by two key measures:
 - Profit Margin
 - Net Asset Turnover
 - Return on Net Assets =
Profit Margin x Net Asset Turnover

Measuring Performance

Comparison of Return on Net Assets

| Company | Year ended | Profit Margin | Net Asset Turnover |
|-----------------|------------|---------------|--------------------|
| Skanda Kitchens | Dec 07 | 7% | 12% |

Which is the same as:

$$\begin{array}{ccccccc}
 \text{Return on Net Assets} & & & & & & \\
 12\% & = & \frac{\text{Operating Profit}}{\text{Net Assets}} & = & \frac{\text{£ 2.4m}}{\text{£20.8m}} & = &
 \end{array}$$

Measuring Performance

Comparison of Return on Net Assets

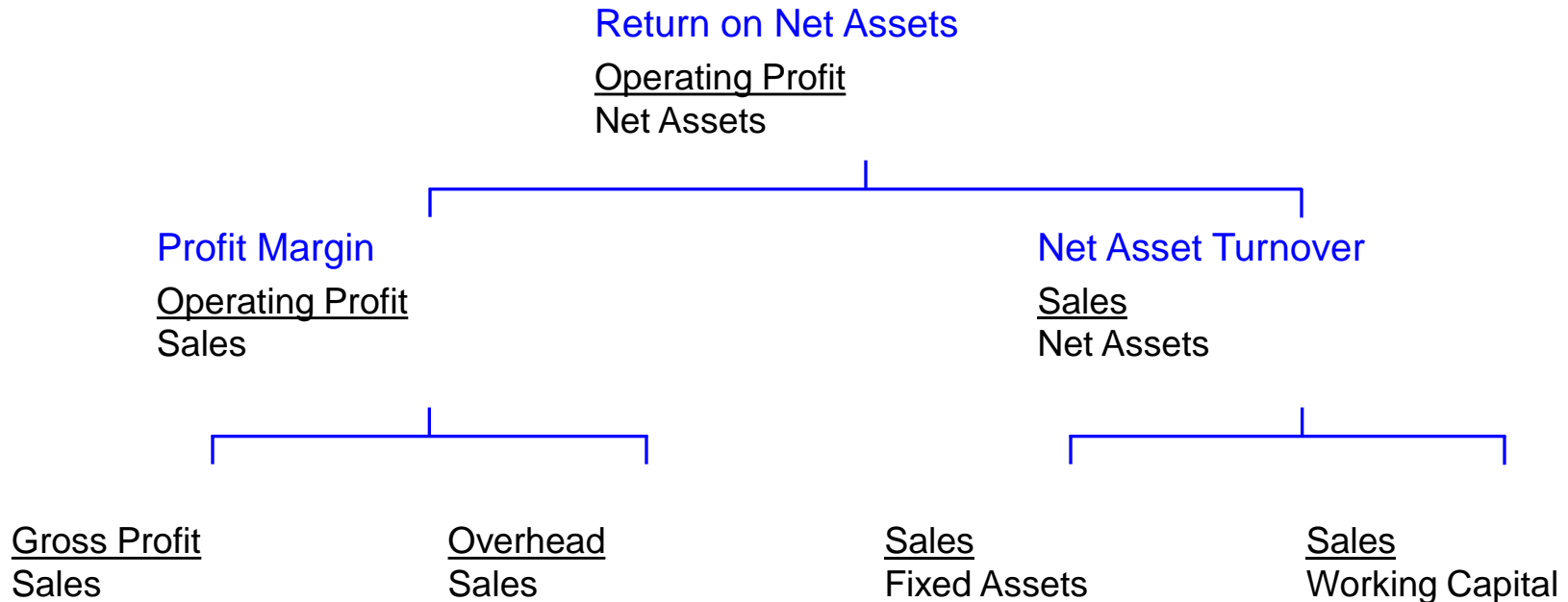
| Company | Year ended | Return on Net Assets | Profit Margin | Net Asset Turnover |
|------------------|------------|----------------------|---------------|--------------------|
| Skanda Kitchens | Dec 07 | 7% | 1.6 | 12% |
| Walmart | Jan 09 | 6% | 3.8 | 26% |
| South East Water | Mar 09 | 36% | 0.2 | 6% |
| Marks & Spencer | Mar 09 | 10% | 1.8 | 18% |
| British Airways | Mar 08 | 10% | 1.1 | 11% |

Measuring Performance

- Return on Net Assets
 - = Profit Margin x Net Asset Turnover
 - Provides the basis of ‘pyramid of ratios’
 - Pyramid of ratios is a powerful management control tool

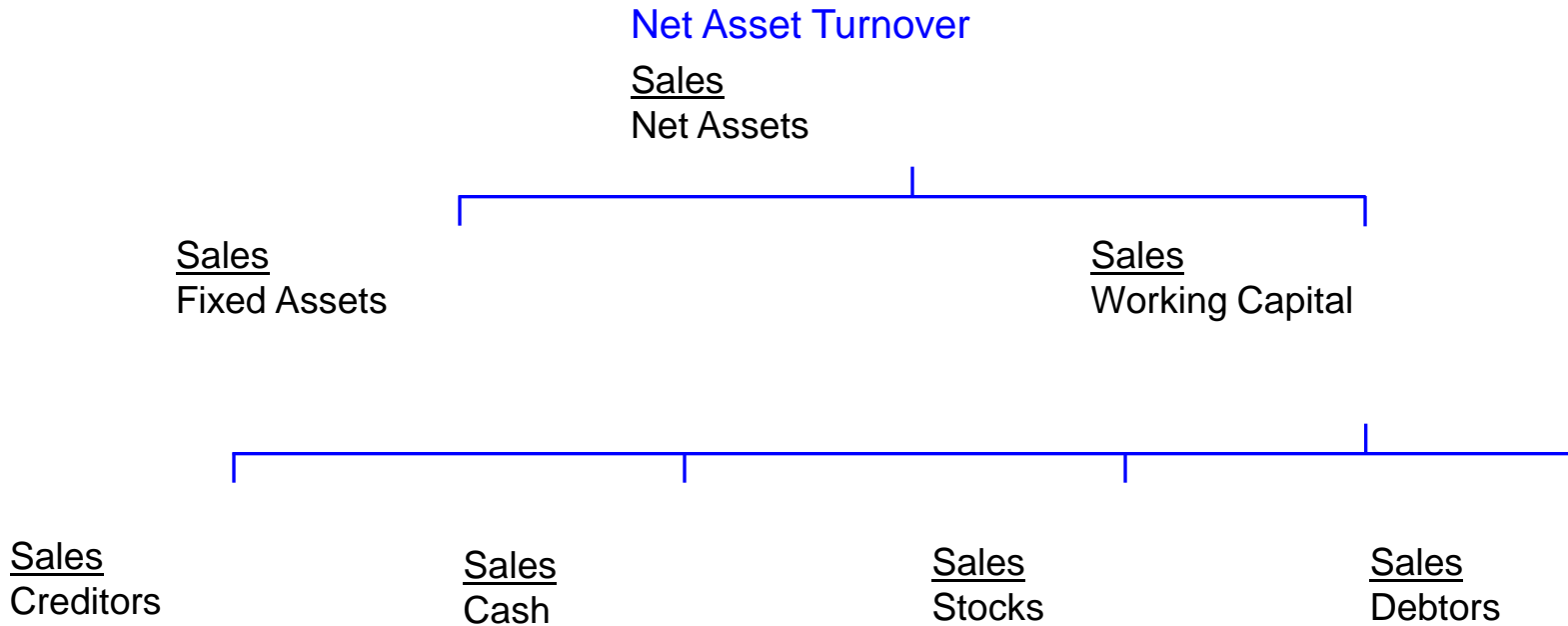
Measuring Performance

Pyramid of financial performance ratios



Measuring Performance

Pyramid of financial performance ratios



Measuring Performance

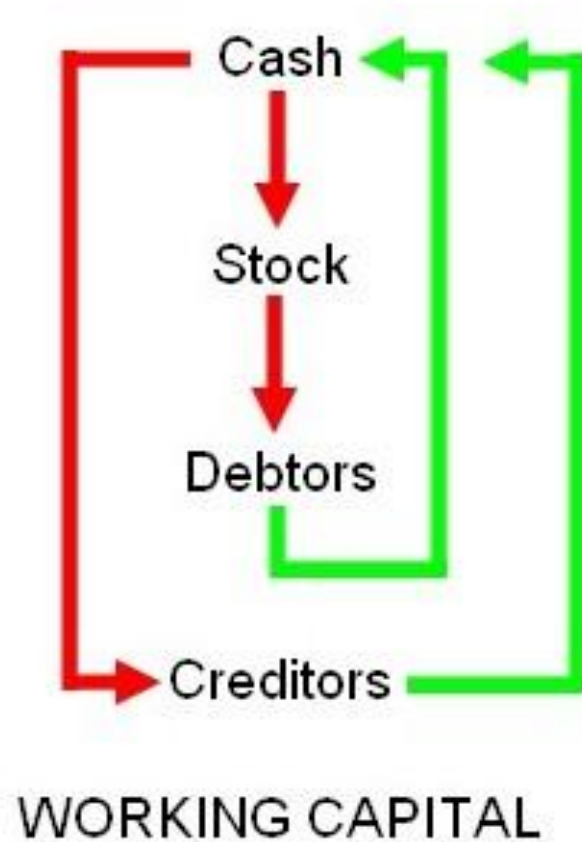
| Debtors | Sales / debtors | | |
|-----------------|-----------------|------------|----------|
| | Debtors | Sales | Turnover |
| Skanda Kitchens | 4.66m | £34m | 7.3 |
| Walmart | \$3,905m | \$405,607m | 103.9 |

Debtors is vital component of working capital for most businesses

| Days' sales outstanding (DSO) | Debtors / sales x 365 | | |
|-------------------------------|-----------------------|------------|-----|
| | Debtors | Sales | DSO |
| Skanda Kitchens | 4.66m | £34m | 50 |
| Walmart | \$3,905m | \$405,607m | 4 |

Measuring Performance

- Working capital management



Measuring Performance

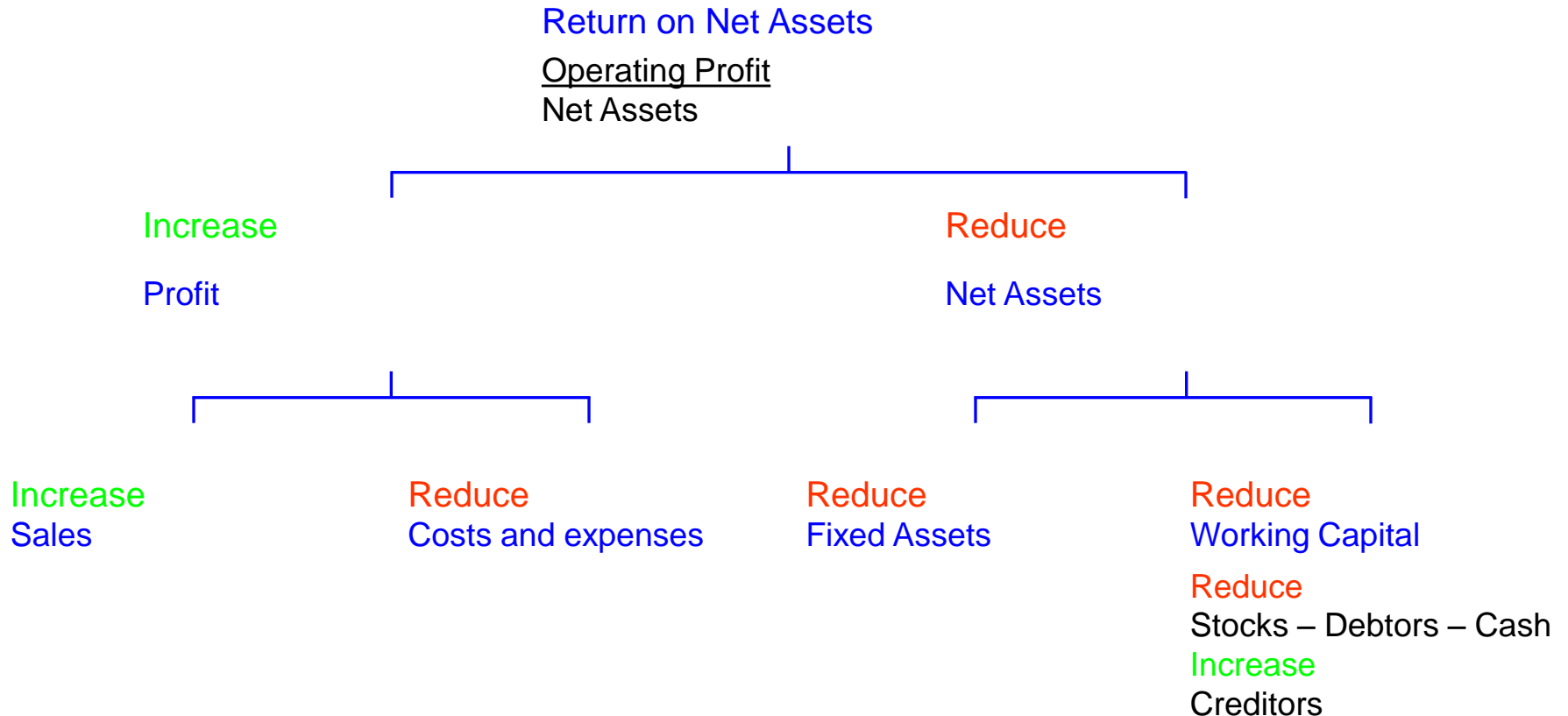
- Working capital management
 - Not only critical for strong cashflow
 - Also affects Net Asset Turnover
 - Can significantly affect Return on Net Assets
 - Working Capital Cycle Days measures ‘speed of circulation’

Measuring Performance

| Working Capital Cycle Days | | |
|--------------------------------|--------|---------|
| | Skanda | Walmart |
| Stock | 213 | 41 |
| Debtors | 50 | 4 |
| Creditors | (34) | (34) |
| Net Working Capital Cycle Days | 229 | 11 |

Measuring Performance

Management action to improve performance



Measuring Performance

- Financial measures
 - Performance measures: how well the business is run
 - Financial strength measures: **ability to meet liabilities**
 - Stock market measures: from the investors point of view

Measuring Performance

- Financial strength measures
 - Measure a company's ability to meet its liabilities
 - Solvency ratios deal with long term liabilities
 - Liquidity ratios deal with short term liabilities

Measuring Performance

- Solvency ratios
 - Solvency ratios deal with long term liabilities
 - Debt ratio measures “gearing” or “leverage”

$$\text{Debt ratio} = \frac{\text{Debt}}{\text{Capital employed}}$$

Measuring Performance

Skanda Kitchens PLC
Balance Sheet as at 31st December 2007
£000's omitted

| | | |
|--|--------------|---------------|
| Fixed assets at net book value | | 3,700 |
| Cash | 1,184 | |
| Stock | 13,288 | |
| Debtors | <u>4,658</u> | |
| Current assets | 19,130 | |
| Creditors due within one year | <u>2,060</u> | |
| Net current assets | | 17,070 |
| NET ASSETS | | <u>20,770</u> |
| Creditors due after more than one year | | 2,900 |
| Long term loan | | |
| Capital and reserves | | |
| Share capital | | 14,000 |
| Retained profits | | 3,350 |
| Current year profit | | <u>520</u> |
| CAPITAL EMPLOYED | | <u>20,770</u> |

Measuring Performance

- Debt ratio

Skanda Kitchens Debt ratio = $\frac{\text{£ 2.9m}}{\text{£20.8m}}$

Debt ratio = 14%

So equity = 86% of capital employed

Low “gearing” represents a lower risk

This gives prospective lenders a higher level of safety

Measuring Performance

- Solvency ratios

- Solvency ratios deal with long term liabilities
- Debt ratio measures “gearing” or “leverage”
- Interest cover measures safety of loan interest

Interest cover = ~~Profit before interest payable and tax~~

Interest payable

Measuring Performance

- Financial strength measures
 - Measure a company's ability to meet its liabilities
 - Solvency ratios deal with long term liabilities
 - Liquidity ratios deal with short term liabilities

Measuring Performance

- Liquidity ratios
 - Liquidity ratios deal with short term liabilities
 - Current ratio
 - Measures to what extent short term assets cover short term liabilities

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

Measuring Performance

- Liquidity ratios

- Liquidity ratios deal with short term liabilities
- Current ratio measures to what extent short term assets will cover short term liabilities
- “Acid test” ratio is a stricter test

$$\text{Acid test ratio} = \frac{\text{Liquid assets (cash + debtors)}}{\text{Current liabilities}}$$

Measuring Performance

Skanda Kitchens PLC
Balance Sheet as at 31st December 2007
£000's omitted

| | | |
|--|--------------|---------------|
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| Capital and reserves | | |
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| Current year profit | | 520 |
| CAPITAL EMPLOYED | | <u>20,770</u> |

Measuring Performance

- Acid test ratio

Skanda Kitchens Acid test ratio = $\frac{\text{£ 5.8m}}{\text{£ 2.1m}}$

Acid test ratio = 2.8 times

Ratio of less than one indicates possible problems

But high ratios should also be carefully examined

Measuring Performance

- Financial measures
 - Performance measures: how well the business is run
 - Financial strength measures: ability to meet liabilities
 - Stock market measures: from the investors point of view

Measuring Performance

- Standards for financial analysis
 - Ratios are useful tools but one year's results do not give full picture
 - Earlier years' results for same business
 - Business segment analysis for same business
 - Internal budgets
 - Other businesses in same industry

Measuring Performance

- Financial measures
- Non-financial measures

Measuring Performance



Measuring Performance

Kaplan & Norton's Balanced Scorecard

Supplements traditional financial performance indicators

BSC adds a variety of non-financial indicators

Aims to address all areas of performance objectively

BSC focuses on four different perspectives

Measuring Performance

Developing a Balanced Scorecard

Three stages to development of BSC

Answer the question in each perspective to set goals

Identify key competencies required to achieve objectives

Measuring Performance

| BALANCED SCORECARD | | |
|-------------------------|---|---|
| Perspective | Question | Explanation |
| Customer | What do existing and new customers value from us? | Gives rise to targets that matter to customers: cost, quality delivery, inspection etc. |
| Internal | At what processes must we excel to achieve our financial and customer objectives? | Aims to improve internal processes and decision making |
| Innovation and learning | Can we continue to improve and create future value? | Considers the capacity of the business to maintain its competitive position through the acquisition of new skills and the development of new products |
| Financial | How do we create value for our shareholders? | Covers traditional measures such as growth, profitability and shareholder value but set through talking directly to shareholders |

Measuring Performance

Developing a Balanced Scorecard

Three stages to development of BSC

Answer the question in each perspective to set goals

Identify key competencies required to achieve objectives

Set appropriate measures for key improvement areas

Measuring Performance

| BALANCED SCORECARD | |
|-------------------------|---|
| Perspective | Measures |
| Customer | <ul style="list-style-type: none">■ New customers acquired■ Customer complaints■ On time deliveries■ Returns |
| Internal | <ul style="list-style-type: none">■ Quality control rejects■ Average set-up time■ Speed of producing management data |
| Innovation and learning | <ul style="list-style-type: none">■ Labour turnover rate■ Percentage of revenue generated by new products and services■ Average time taken to develop new products and services |
| Financial | <ul style="list-style-type: none">■ Return on Net Assets■ Cashflow■ Earnings per share■ Return on Capital Employed■ Revenue growth |

Measuring Performance

Using Balanced Scorecard

BSC becomes main monthly report

Balanced means equal focus is on all four perspectives

Related to key elements of organisation's strategy

Measuring Performance

Using Balanced Scorecard

BSC becomes main monthly report

Balanced means equal focus is on all four perspectives

Related to key elements of organisation's strategy

Encourages "goal congruence"

Financial and non-financial measures linked

Useful where profit is not key performance indicator

Measuring Performance

The “Tesco Steering Wheel”

Tesco was early adopter of BSC approach

Tesco wanted a measurement system to motivate all staff

Tesco developed a “Steering Wheel”

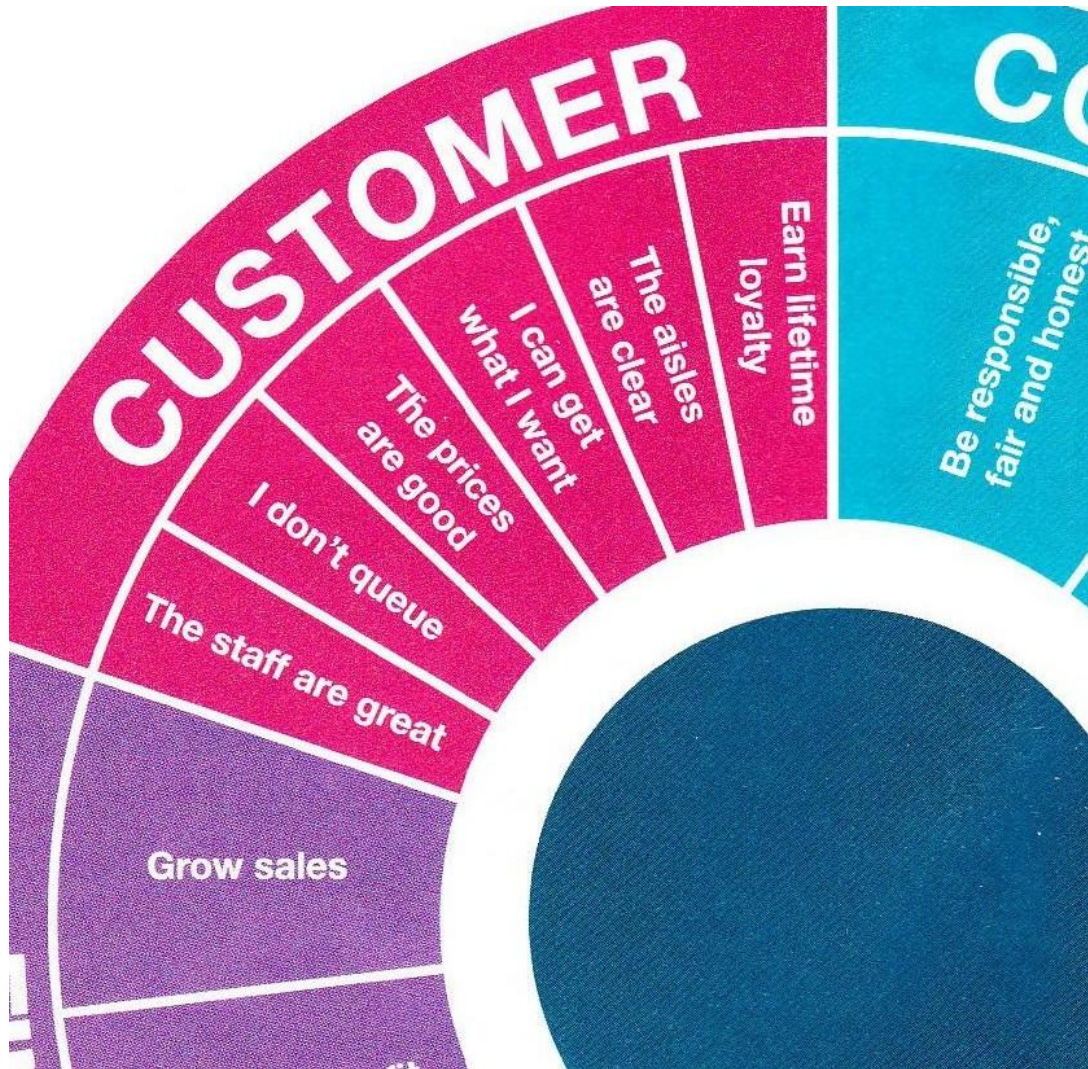
“Community” added as fifth perspective to BSC

Measuring Performance

Tesco Steering Wheel



Measuring company performance



Measuring Performance

The “Tesco Steering Wheel”

Tesco was early adopter of BSC approach

Tesco wanted a measurement system to motivate all staff

Tesco developed a “Steering Wheel”

“Community” added as fifth perspective to BSC

Every store receives monthly update on its performance

Kept Tesco focused during period of rapid growth?

Measuring Performance

Criticisms of Balanced Scorecard

No financial theoretical basis and entirely subjective

Cannot be used to calculate impact on profit

Time consuming and can be overly bureaucratic

Care needed to avoid conflicting measures

Can result in too many measures

Expertise needed to analyse “big picture”

Measuring Performance

Key Performance Indicators – KPI's

Care must be taken in selecting KPI's

Must be relevant and linked to critical success factors

Act to initiate action

Not just add to “sea of information”

Measuring Performance

What is a critical success factor

“ an issue or aspect of organisational performance that determines the ongoing health, vitality and well being of that enterprise”

Characteristics of critical success factors

Usually fairly obvious

Influence cuts across several aspects of performance

Measuring Performance

Examples of critical success factors

Delivery in full on time, all the time, to key customers

Completion of projects on time and to budget

Getting the right product in the right place at the right time

Increasing the gross margin

Customers being active advocates for our business

Positive brand recognition

Measuring Performance

Critical success factor:

Timely arrival and departure of aircraft



Measuring Performance

British Airways

Financial KPI: Operating profit margin of 10%

Financial

We must achieve a consistent, strong financial performance if we are to continue investing in the future success of the business and reward our shareholders through the payment of a dividend. Operating margin – which we define as operating profit divided by revenue expressed as a percentage – is the main way we measure our financial performance.

In 2002 we set ourselves a target of achieving a 10 per cent operating margin through the economic cycle. In 2007/08 we set ourselves the goal of hitting a 10 per cent margin for the year for the first time.

Measuring Performance

British Airways

Operations KPI: punctuality target of 48% “ready to go”

Operations

We must run a robust operation if we are to meet our customers' expectations and create a cost-effective business. Having Heathrow at the heart of our operations, with all its infrastructure constraints, puts a significant strain on delivering operational excellence, day in, day out.

Within our business plan we have focused our efforts on five key areas of operational delivery – the 'BA Basics'. Among these, departure punctuality is our primary operational performance measure. Punctuality ensures other operational

processes run smoothly and remains a key factor in whether customers would recommend British Airways to other travellers.

We call our chosen measure of punctuality 'Ready to Go'. This measures how many of our flights are prepared for departure at three minutes before the scheduled departure time. So many issues can have an impact on punctuality, but using this measure ensures we focus on the aspects of the departure process within our control. The target range for 'Ready to Go' punctuality for 2007/08 was set at 44-48 per cent.

Measuring Performance

British Airways

Customer KPI: 63% of customers likely to recommend BA

Customers

Customer recommendation is a key measure of our success. Our Global Performance Monitor (GPM) survey, an onboard customer survey covering all the key stages of the flight experience, together with a follow-up online survey on the arrivals process, provides monthly insights into customers' views. The survey is carried out by GfK NOP, the independent market research company, and involves more than 55,000 customers each month.

The customer recommendation measure is based on the percentage of customers who, when surveyed, would highly recommend British Airways to friends, family or colleagues. Apart from being extremely important in its own right, we believe that this measure indicates how the customer experience will affect future profitability. Our target for 2007/08 was for 63 per cent of customers to be 'extremely likely' or 'very likely' to recommend British Airways.

Measuring Performance

British Airways

Employees KPI: involvement measure of 74%

Employees

Progressive, high performing organisations are increasingly recognising that involved employees are more committed to organisational goals and values, and more willing to embrace change and improve customer service. Last year we started using an Employee Involvement index, as measured by an all-employee Speak Up! survey. This is run twice a year, with a full version in September and a shorter tracker version in March.

The Speak Up! surveys are conducted and hosted by the independent research organisation, Ipsos MORI, and are completely confidential. As a business we aim to match the involvement scores of other leading service sector organisations, and a target of 73 per cent for Employee Involvement was set for 2007/08.

Measuring Performance

Key Performance Indicators

Care must be taken in selecting KPI's

Must be relevant and linked to critical success factors

Act to initiate action

Not just add to “sea of information”

No more than 20 – ideally 10 or less

Work well where profit is not organisational priority

But must be regularly monitored to be effective

Investment Appraisal

Investment Appraisal

Why do we need investment appraisal tools?

Capital is scarce in both public and private sectors

That's never been more true than today

We need to know if the investment is worth making

We need to know if the risk is justified by the financial return

We need to know if the project meets our investment criteria

How it compares to other projects competing for same funds

Investment Appraisal

Various methods available

Accounting rate of return (ARR)

Payback period

Net Present Value (NPV) using discounted cashflow (DCF)

Investment Appraisal

Various methods available

Accounting rate of return (ARR)

$$\frac{\text{Annual profit}}{\text{Investment}} \times 100$$

Investment Appraisal



Skanda Kitchens PLC

Investment Appraisal

SKANDA KITCHENS

INVESTMENT APPRAISAL: ACCOUNTING RATE OF RETURN

£000's omitted

OWN

RENTED

Investment

£2,000

£1,000

Profit before tax

£300

£200

Rate of return

15.0%

20.0%

Investment Appraisal

Accounting rate of return (ARR)

Calculates annual profit as percentage of investment cost

Advantages

- Easy to understand

- Similar concept to ROI calculation

Investment Appraisal

Accounting rate of return (ARR)

Calculates annual profit as percentage of investment cost

Advantages

Disadvantages

- Based on profit and ignores cashflows

- Percentage approach ignores size of project

- Ignores time value of money

Investment Appraisal

Various methods available

Accounting rate of return (ARR)

Payback period

Net Present Value (NPV) using discounted cashflow (DCF)

Investment Appraisal

Payback period

How many years project cashflow to payback initial investment

Investment

Annual cashflow

Investment Appraisal



Skanda Kitchens PLC

Investment Appraisal

SKANDA KITCHENS

INVESTMENT APPRAISAL: PAYBACK PERIOD

£000's omitted

OWN

RENTED

Investment

£2,000

£1,000

Cashflow

£400

£300

Payback period

5.0

3.3

Investment Appraisal

Payback period

How many years project cashflow to payback initial investment

Advantages

- Easiest to understand

- Easy to compare different projects

Investment Appraisal

Payback period

How many years project cashflow to payback initial investment

Advantages

Disadvantages

- Ignores cashflows after payback point

- Takes no account of the risk in the project

- Ignores time value of money

Investment Appraisal

Various methods available

Accounting rate of return (ARR)

Payback period

Net Present Value (NPV) using discounted cashflow (DCF)

Investment Appraisal

Would you like it now or in one year's time?



Investment Appraisal

Reasons for time preference

Cash received now can be spent now

Risk disappears when cash is received

Cash received now can be invested

Investment Appraisal

Net Present Value using DCF analysis

Recognises time value of money

Based on projected cashflows

Reflects risk in investment and capital projects

Good basis for comparing competing projects

Based on principle of compound interest

Investment Appraisal

- Future value of £100 invested at 10% interest per year

Initial investment

£100

Interest at 10%

10

£

Balance at end of year 1

£110

Investment Appraisal

- Future value of £100 invested at 10% interest per year

Initial investment

£100

Interest at 10%

£

10

Balance at end of year 1

Using this approach we can calculate the value to us today of cashflows that we will receive at some point in the future

£110

Interest on balance at 10%

Investment Appraisal

- Present value of £121 received in two years' time after investing at 10% per year

Value in two years time

£121

Present value = value of investment in two years' time = £100

1.21

Present value = value of investment in two years' time

$(1 + 0.10)^2$

Investment Appraisal



Skanda Kitchens PLC

SKANDA KITCHENS

INVESTMENT APPRAISAL: NET PRESENT VALUE RENTED RETAIL STORE

| £000's omitted | 0 | 1 | 2 | 3 | 4 | 5 |
|-----------------------|----------|----------|--------|--------|--------|--------|
| Investment | (£1,000) | | | | | |
| Operating cashflow | | £300 | £300 | £300 | £300 | £300 |
| Terminal value: | | | | | | |
| Freehold | | | | | | |
| Fixtures and fittings | | | | | | £600 |
| Trade | | | | | | £1,500 |
| NET CASHFLOW | (£1,000) | £300 | £300 | £300 | £300 | £2,400 |
| Discount factor | | 0.9091 | 0.8264 | 0.7513 | 0.6830 | 0.6209 |
| NPV | £1,441 | (£1,000) | £273 | £248 | £225 | £205 |
| | | | | | | £1,490 |

SKANDA KITCHENS

INVESTMENT APPRAISAL: NET PRESENT VALUE OWN RETAIL STORE

| £000's omitted | 0 | 1 | 2 | 3 | 4 | 5 |
|-----------------------|----------|----------|--------|--------|--------|--------|
| Investment | (£2,000) | | | | | |
| Operating cashflow | | £400 | £400 | £400 | £400 | £400 |
| Terminal value: | | | | | | |
| Freehold | | | | | | £1,300 |
| Fixtures and fittings | | | | | | £600 |
| Trade | | | | | | £1,500 |
| NET CASHFLOW | (£2,000) | £400 | £400 | £400 | £400 | £3,800 |
| Discount factor | | 0.9091 | 0.8264 | 0.7513 | 0.6830 | 0.6209 |
| NPV | £1,627 | (£2,000) | £364 | £331 | £301 | £2,360 |

Investment Appraisal

Which discount rate?

Frequently used discount measures

- Borrowing cost

- Weighted average cost of capital

- Company's own 'hurdle' return on investment

Sometimes adjusted to reflect level of risk involved

Good idea to use sensitivity testing at range of rates

But should we use the same rate for both options?

Investment Appraisal

Why cashflow and not profit?

Cashflow is what ultimately counts

Profit measurement is subjective

Cash is used to finance growth and pay dividends

Investment Appraisal

Incremental cashflow approach

Important to use only relevant incremental cashflows

Careful consideration of

- Sunk costs

- Opportunity costs

- Interest and dividends

- Taxation

- Scrap and terminal proceeds

Investment Appraisal

Using a cashflow approach to business valuation

Estimate NPV of future incremental cashflows generated

Identify main drivers of sales and costs

Produce high / low forecasts of incremental cashflows

Remember timing of cashflows is significant

Use spreadsheet models to test sensitivity to variables

Use spreadsheet models to test sensitivity to discount factor

Investment Appraisal

Using a cashflow approach to business valuation

Estimate NPV of future incremental cashflows generated

Estimate current cash position using “zero balance sheet”

- Assign “realistic” figures for current assets and liabilities

- Use DD results to include all potential liabilities

- Estimate true position for surplus cash on acquisition

Investment Appraisal

Using a cashflow approach to business valuation

Estimate NPV of future incremental cashflows generated

Estimate current cash position using “zero balance sheet”

Business valuation is the sum of the above

Double check against other valuation methods

- Normal industry EBITDA or P/E multiples

- Bank’s valuation for loan purposes

- What the competition is prepared to pay!

Budgeting

Budgeting

- What is a budget?
 - A **plan** expressed in money
 - Prepared and agreed **prior to the budget period**
 - The budget may show
 - Income
 - Expenditure
 - Capital to be employed

Budgeting

- What is a budget?
 - The budget is part of the strategic planning process
 - Organisation gains from the budget process itself
 - And gains from the budget once it is prepared

What is Budgeting About?



PEOPLE



PLANNING



MEASURING



CONTROLLING

What is Budgeting About?



PEOPLE



PLANNING



MEASURING



CONTROLLING

Planning



“With careful and detailed planning one can win;
with careless less detailed planning one cannot win.

How much more certain is defeat if one does not plan at all”

Sun Tzu:

“The Art of War” written in 400BC

In other words:

Failing to plan is planning to fail

Planning

- What is planning about?
 - Looking at **where we are now**
 - Deciding **what we want to achieve**
 - Taking stock of **resources available or needed**
 - Anticipating **problems**
 - Deciding **what will need to be done**

Planning

- Types of business planning
 - Operational planning
 - Detailed planning
 - Day to day

Planning

- Types of business planning
 - Operational planning
 - **Tactical** planning
 - Short term annual planning

Planning

- Types of business planning
 - Operational planning
 - Tactical planning
 - **Strategic** planning
 - Long term planning
 - Three to five years

Planning

THE PLANNING PROCESS

STRATEGIC / CORPORATE / LONG RANGE PLANNING

Covers periods of longer than one year

Involves setting long term objectives of the organisation

Formulation, evaluation and selection of strategies designed to achieve the objectives

Strategies are the basis of long-term plan of action

BUDGETARY / SHORT TERM TACTICAL PLANNING

Covers period of one year

Involves preparing detailed plans for an organisation's functions

Works within framework set by strategic plans

Converts strategic plans in to actions

OPERATIONAL PLANNING

Covers very short term day-to-day activities

Concerned with how the organisation's resources will be used

Work within the framework set by the budget

Converts budgetary plans in to detailed plan of action

Planning

- Types of business planning
 - Operational planning
 - Tactical planning = **Budgeting**
 - Strategic planning

Planning

- Budgeting
 - Uses the strategic plan
 - To identify **short term** goals and objectives
 - To produce an **annual operating plan**

What is Budgeting About?



PEOPLE



PLANNING



MEASURING



CONTROLLING

People

- Budgeting and People
 - Responsibility
 - Objectives should be set at departmental level
 - Department manager is made responsible for delivery

People

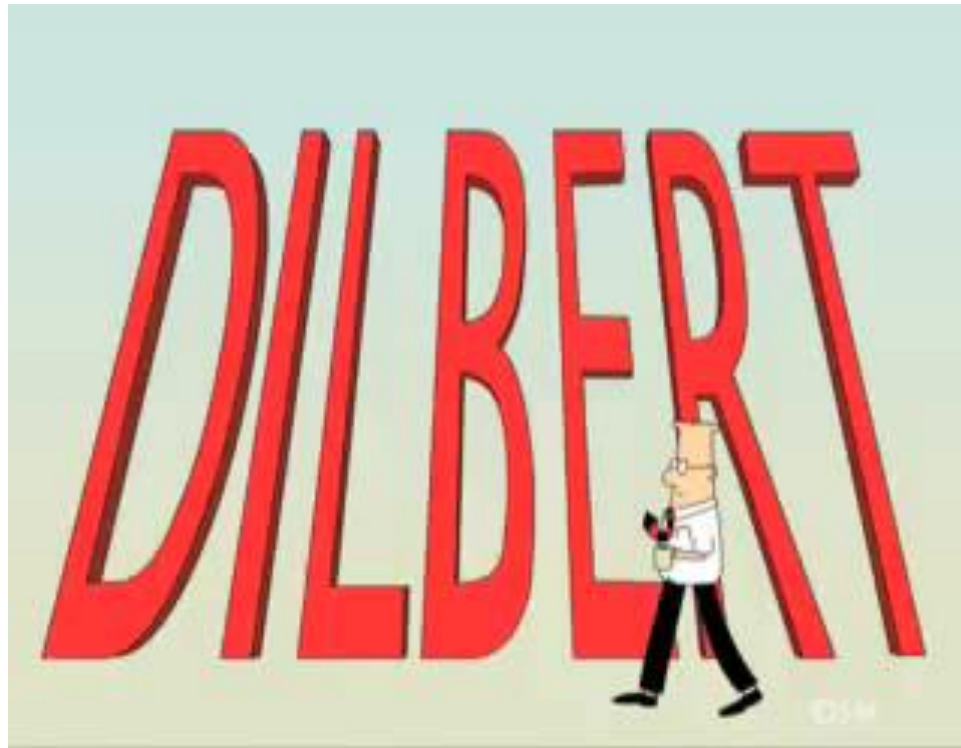
- Budgeting and People
 - Responsibility
 - Integration
 - Individual efforts focussed on common goals
 - Managers and staff “pull in the same direction”
 - Avoids managers following their ‘own agenda’

People

- Budgeting and People
 - Responsibility
 - Integration
 - Motivation
 - Budgeting can be a good way of motivating people

People

- **Motivation**
 - Budgetary systems can provide good motivation
 - But it's also easy to produce negative reactions
 - Style of budgeting is a major factor
 - Top down – imposed budget
 - Bottom up – participatory budget
 - Negotiated – between budget holders and managers



Style of budgeting is a major factor

People

- **Motivation**
 - Budgetary systems can provide good motivation
 - But it's also easy to produce negative reactions
 - Style of budgeting is a major factor
 - Style affects attitude and can cause demotivation
 - Attitudes to setting; implementing; controlling budgets

People

- **Motivation**
 - Most successful budgetary control systems:
 - Set realistic and achievable budgets
 - Are prepared in consultation with the whole team
 - This approach provides the best basis for motivation

People

- Budgeting and People
 - **R**esponsibility
 - **I**ntegration
 - **M**otivation
 - **E**valuation
 - Performance of budget holders can be measured
 - Both by attitude and results

What is Budgeting About?



PEOPLE



PLANNING



MEASURING



CONTROLLING

Measuring

- Actual performance must be measured
 - Income and spending must be recorded and monitored
 - Accounted for in sufficient detail
 - Monthly and year to date report at department level
 - Other non-financial KPI's also calculated monthly

What is Budgeting About?



PEOPLE



PLANNING



MEASURING



CONTROLLING

Controlling

- One of the main purposes of budgeting
 - Actual monthly performance must be measured
 - And compared to monthly phased budget
 - **Feedback reporting** to budget holder is key

Controlling

- The key to good feedback reporting
 - **Clear** and comprehensive
 - **Timely** to allow prompt action to be taken
 - **Accurate** but without superfluous detail
 - **Directed** to the responsible manager with authority to act

Controlling

- One of the main purposes of budgeting
 - Actual monthly performance must be measured
 - And compared to monthly phased budget
 - Feedback reporting to budget holder is key
 - Actual results should be compared to budget
 - Variances shown for investigation
 - Appropriate action taken promptly to deal with variance

Controlling

Morgan Brown Gillespie Limited

BUDGET REPORT : JUNE 2009

| | June | | | | | June year to date | | | | |
|----------------------|------------|-------------|------------|-------------|------------|-------------------|-------------|-------------|-------------|--------------|
| | Actual | | Budget | | Variance | Actual | | Budget | | Variance |
| | £000's | % | £000's | % | £000's | £000's | % | £000's | % | £000's |
| Sales | 420 | 100.0 | 400 | 100.0 | 20 | 2,000 | 100.0 | 2200 | 100.0 | (200) |
| Direct costs | 215 | 51.2 | 200 | 50.0 | (15) | 1,050 | 52.5 | 1100 | 50.0 | 50 |
| Gross profit | <u>205</u> | <u>48.8</u> | <u>200</u> | <u>50.0</u> | <u>5</u> | <u>950</u> | <u>47.5</u> | <u>1100</u> | <u>50.0</u> | <u>(150)</u> |
| Administration costs | 136 | 32.4 | 130 | 32.5 | (6) | 730 | 36.5 | 700 | 31.8 | (30) |
| Operating profit | <u>69</u> | <u>16.4</u> | <u>70</u> | <u>17.5</u> | <u>(1)</u> | <u>220</u> | <u>11.0</u> | <u>400</u> | <u>18.2</u> | <u>(180)</u> |

Comments

Action

Controlling

- Appropriate action taken promptly
 - No action if results in line with budget
 - Remedial action if results indicate problem

What is Budgeting About?



PEOPLE



PLANNING



MEASURING



CONTROLLING

Budgeting

- Alternative approaches to budgeting
 - Incremental budgeting is traditional approach
 - Current period budget is base for next period
 - Sales and costs subject to incremental increase
 - Inappropriate for some kinds of costs
 - Inefficient form of budgeting which encourages waste

Budgeting

- Alternative approaches to budgeting
 - Incremental budgeting is traditional approach
 - Zero based budgeting

Budgeting

- Zero based budgeting
 - Each cost element specifically justified
 - In principle budgeted from zero base
 - In practice works back from current cost level
 - Every aspect of budget subject to cost benefit review
 - Encourages managers to develop questioning attitude

Budgeting

- Zero based budgeting
 - Each cost element specifically justified
 - Advantages of ZBB
 - Identifies inefficient operations and processes
 - Avoids wasteful expenditure
 - Can improve motivation

Budgeting

- Zero based budgeting
 - Each cost element specifically justified
 - Advantages of ZBB
 - Disadvantages of ZBB
 - Requires a great deal of management time
 - Depends on large amounts of paperwork

Budgeting

- Alternative approaches to budgeting
 - Incremental budgeting is traditional approach
 - Zero based budgeting
 - Activity based budgeting

Budgeting

- Activity based budgeting
 - Traditional approach
 - Assumes resources consumed evenly
 - Makes managers responsible for activities beyond their control

Budgeting

- Activity based budgeting
 - Traditional approach
 - Activity based approach
 - Identifies specific cost drivers
 - Assigns responsibility for costs on this basis
 - Allows activity related increases in budgeted
 - Allows more efficient allocation of resources

Criticisms of Budgeting

Is Budgeting the Corporate Curse?

In a recent survey by the CBI senior executives reported that up to 30% of their time was spent in preparing for and carrying out the budget process

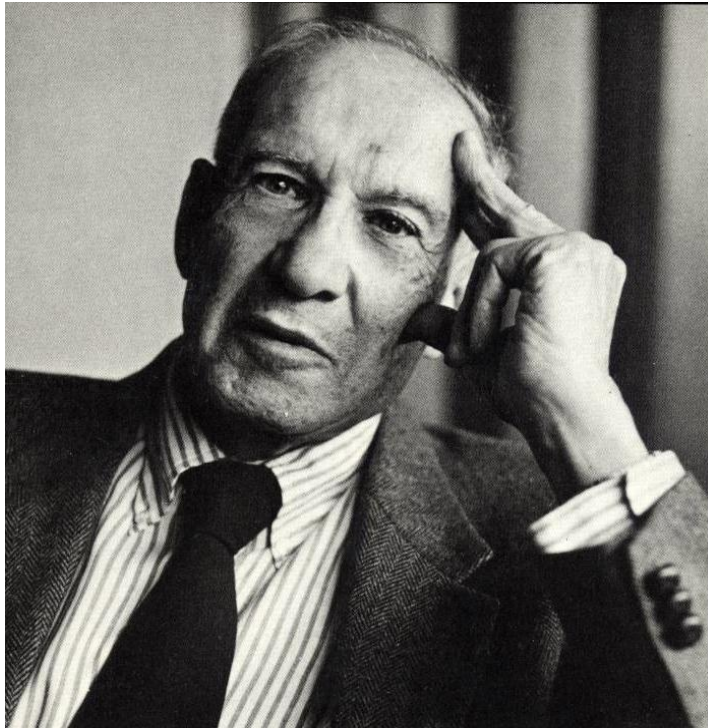
Criticisms of Budgeting



Lord Browne : ex-CEO of BP

“The process of management is not about administering fixed budgets, it is about the dynamic allocation of resources’

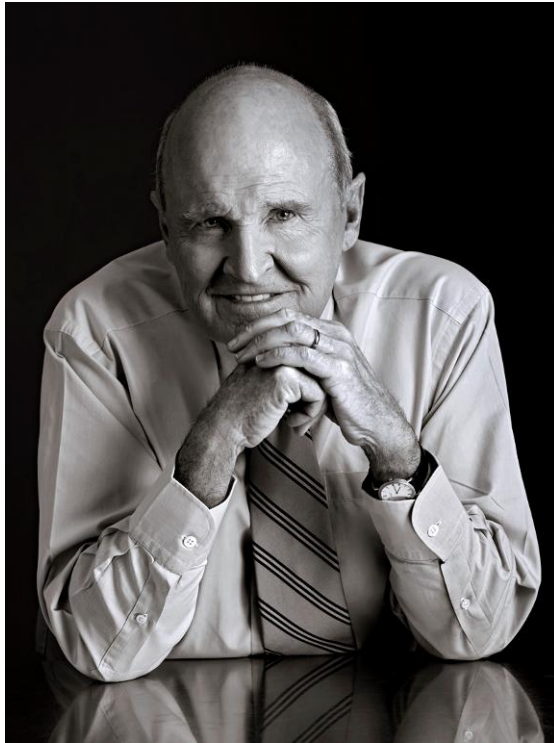
Criticisms of Budgeting



Peter Drucker

“Uncertainty...has become so great as to render futile, if not counterproductive, the kind of planning most companies still practice; forecasting based on probabilities’

Criticisms of Budgeting



Jack Welch : ex-CEO of General Electric

“Budgeting is the bane of corporate America”

Criticisms of Budgeting

- Time consuming and expensive
- Encourages short term thinking
- Discourages risk taking
- Focus on sales rather than customer satisfaction
- Budgets divorced from long term strategy

Budgeting

- To Summarise
 - The budget is part of the strategic planning process
 - Organisation gains from the budget process itself
 - Used correctly they can be a good management tool
 - The most successful budgetary control systems
 - Set realistic and achievable budgets
 - Are prepared in consultation with the whole team
 - Provide the best basis for motivation

FINANCE
FOR NON-FINANCIAL MANAGERS