

Turnovers

dollar of net operating assets?

Fin. Assets

Avg. Days to Collect Receivables

Compares amount of assets/invested capital to the revenues these generate

Used to analyze "leanness" / efficiency from an invested capital perspective

Standard Balance Sheet Setup

Key aspect of performance: How much sales can the firm generate per deployed

Op. Liabilities

Fin. Liabilities

Equity

Net Working Capital Turnover

avg. curr. operating assets - avg. curr. operating liabilities

Net Operating Asset

Avg. Days to Sell Inventory



Analyzing means comparing

(In many cases, analyzing is the same as answering a

- question by making clever comparisons)

 Ratios: compare one number to another
- -> pick the right comparison for the right question
 Compare ratios/numbers over time

DuPont Rearrangement

. any non-current sensible non-current turnover

How much sales can be generated per \$1 of net working capital

Avg. Days to Pay Payables

Compare ratios/numbers to other companies
 Compare ratios/numbers to theoretical benchmarks

Analyzing Firm Performance Using Financials

Assume the goal is to analyze how the firm creates value. This sheet focuses on two things: Reading financial statements to understand a firm's business model

Identifying drivers of return on invested capital from various perspectives via ratio analysis

Central importance of Return on equity

$$\text{Equity Value}_{t} = \text{BV}_{\text{eq,t}} + \mathbb{E}_{t} \left[\sum\nolimits_{i=1}^{\infty} \frac{\left(\text{RoE}_{t+i} - r_{\text{eq}} \right) * \text{BV}_{\text{eq,t}+i-1}}{\left(1 + r_{\text{eq}} \right)^{i}} \right]$$

(Oversimplified: $RoE_{t+1} > r_{eq}$ key for value generation)

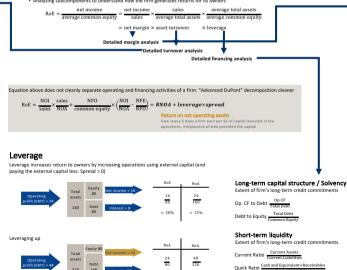


Framework for Financial Analysis: What determines high return on investment for owners?

- If RoE is key, what are its determinants?
 Margins, Turnover, Leverage as subcomponents

Return on Equity

Analyzing subcomponents to understand how the firm generates returns for its owners



EBIT interest coverage Interest Exp

Entity and Equity Perspective of a Firm

- Firm is a combination of assets that are cleverly combined to create value
- How are these assets financed? -> Who has how much claim on the return on the (net) operating assets?
 Crucial for understanding different return on invested capital viewpoints



Margins

- Compares (sub) profits versus revenues
- Key aspect of profitability: How much does the firm earn on a dollar of revenues generated?
- Used to analyze "which costs eat up most of revenues?" by walking down the income statement.



Other margins

- For specific cost combinations (e.g., cogs + marketing)
 For cleaner separation of (core) operations vs. financing or non-recurring items
- · Often industry or business model specific

Sales Margin Gross Profit -sales expense Revenue

and financing policies.) It is also often advocated as being "closer to cash flow". That's fine. But remembe