

Accounting

Fundamental analysis

- Fundamental analysis uses financial statements and other information to do systematic business analysis.
- Fundamental analysis is the process of using financial statements and other information to conduct accounting analysis, financial analysis, forecasting and valuation.
- Objective is to evaluate company performance and prospect and, forecast future performance, and value the company
- Fundamental analysis vs Other types of 'analysis'
 - **Intuitive investing**
 - No analysis of economic and financial information
 - Just rely on intuition and hunches
 - **Passive investing**
 - No analysis of economic and financial information
 - Just accept market price as the company's value
 - Assume capital market is always efficient and shares are never mispriced
 - **Fundamental investing**
 - Based on analysis of economic and financial information
 - Analysis aims to identify mispriced shares
 - Analysis aims to avoid buying or selling at a price that does not reflect the value creation potential of the business
- Focuses on what firms do to generate value

Clean surplus accounting

- $BVE_t = BVE_{t-1} + CI_t - d_t$
- $BVE_t = NOA_t - ND_t$
- $CI_t = \text{Net income} + OCI$
 - If comprehensive income = net income → clean surplus income
 - If comprehensive income = net income + OCI → dirty surplus income
 - Net income = revenue – expense
 - Other comprehensive income items:
 - Asset revaluation
 - Currency translation gains and losses
 - Unrealized gains and losses on securities
 - Gains and losses on derivative instruments
- $d_t = \text{Dividends} + \text{Share repurchases} - \text{Share issues}$
 - Net transactions with shareholders

Dirty surplus accounting

- Dirty surplus items = Other comprehensive income items
- $BVE_t \neq BVE_{t-1} + CI_t - d_t$
- Dirty surplus problem: GAAP allows some income items bypass the income statement (CI) and go directly to shareholders' equity (BVE) in the balance sheet

Reformat financial statements

1. Raw financial statements mix the company's operating and financing activities
 - We separate operating and financing activities so we can evaluate profitability from operations separately to financing
 - We use the Advanced du pont ratios to evaluate profitability
 - Advanced du pont looks separately at the operating and financing effects on profitability
 - Healthy firms generate profits from operations not financing
2. Raw income statement does not capture income from all sources
 - Reformat the statement of changes in shareholders' equity to identify other comprehensive income items so these can be included in the income statement profit measures:
 - Comprehensive net operating income (NOPAT)
 - Comprehensive net income (CI)

Reformat the Statement of Changes in Shareholders' Equity

Shareholders' Equity balance, 31 Dec, 20x0 (- preferred stock)		x
<u>Net transactions with shareholders:</u>		
Issue of common stock	x	
Common dividends	(x)	
Repurchases of common stock	<u>(x)</u>	x
<u>Comprehensive income:</u>		
Net income	x	
Unrealized gain on securities	x	
Translation loss	x	
Preferred dividends	<u>x</u>	<u>x</u>
Shareholders' Equity balance, 31 Dec, 20x1 (- preferred stock)		x

Reformat the Balance Sheet

- How to classify as financing assets and liabilities?
 - The rule is everything that bears a *market rate of interest* is a financing item

<u>Net Operating Assets:</u>	2003
Operating assets	x
Less, Operating liabilities	<u>(x)</u>
NOA	x