

SNS COLLEGE OF TECHNOLOGY

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Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai.

DEPARTMENT OF AUTOMOBILE ENGINEERING

COURSE NAME : 19AUZ405 – LEAN MANUFACTURING

IV YEAR / VII SEMESTER

Topic – Dupont Model

11/18/2023

DuPont Model



DuPont Model

The DuPont model, which was developed by a French engineer in the 1940s.

It is an excellent tool to use to generate a "what if" analysis utilizing a company's income statement and the balance sheet.

It is time-honored instruments of the financial community are pivotal documents for reflecting the overall health of a company.

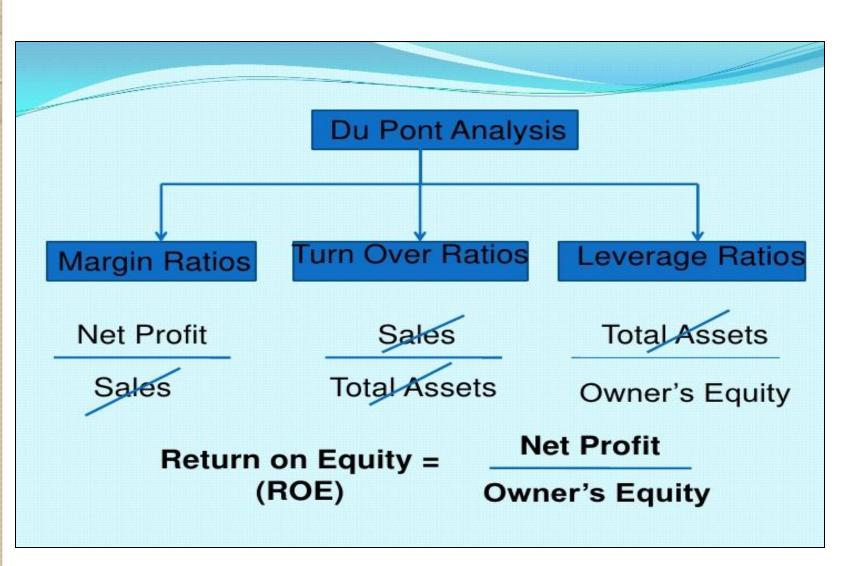
The "what if" scenario to determine whether improvement through a change in sales, an increase in asset turnover, or lower inventory levels will support operational objectives.

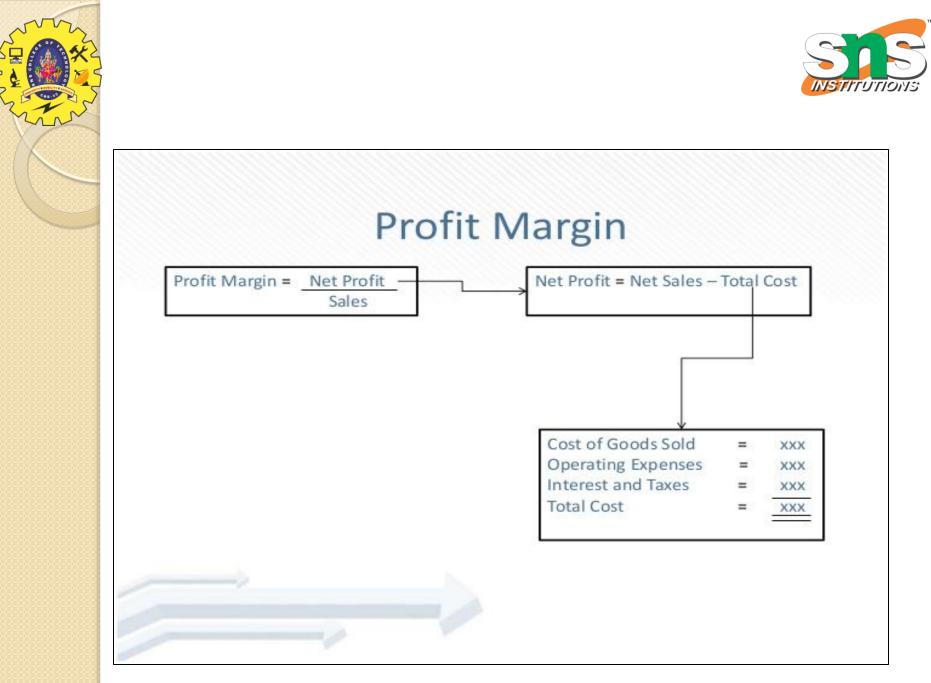


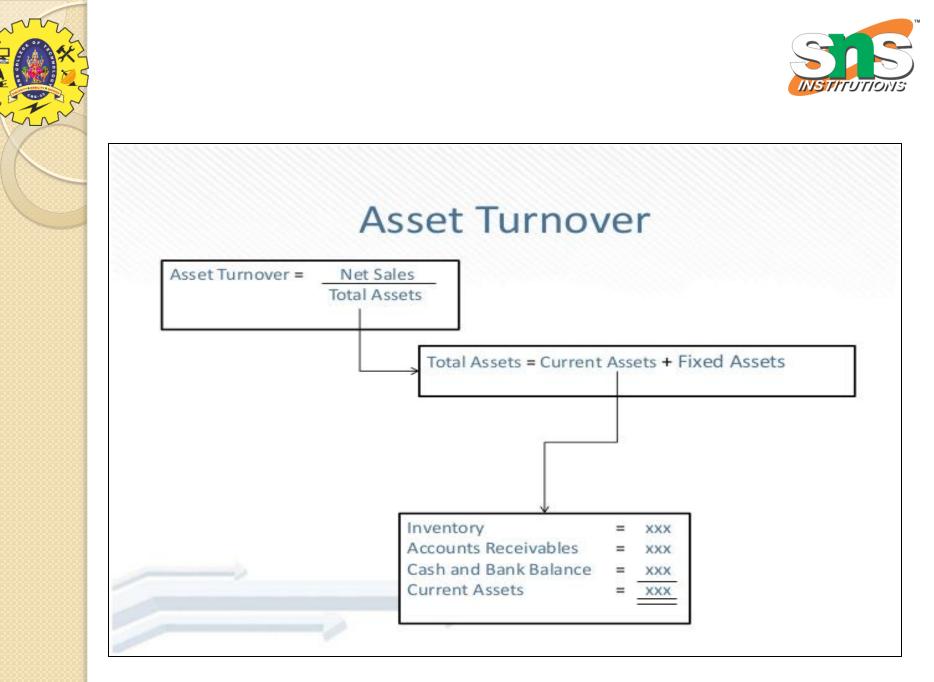
1. Also known as

- a) Du Pont Identity
- b) Du Pont Equation
- c) Du Pont Model
- d) Du Pont Method
- 2. Pioneered by DU PONT Company of United States
- It is a system of financial analysis which received wide spread recognition and acceptance
- It was developed by DU PONT company for analyzing and controlling financial performance
- It is an expression which breaks Return on Equity into three parts :
 - a) Profitability (Measured by Profit Margin)
 - b) Operating Efficiency (Measured by Asset Turnover)
 - c) Financial Leverage (Measured by Equity Multiplier)











Equity Multiplier =	Aultiplier	–
	areholder's Equity	



Return on Equity Return on Equity = Net Profit Margin X Asset Turnover X Equity Multiplier Return on Equity = $\frac{\text{Net Profit}}{\text{Sales}} \chi \frac{\text{Sales}}{\text{Assets}} \chi$ Assets Shareholder's Equity Return on Equity = Net Profit (or Profit after Tax) Shareholder's Equity

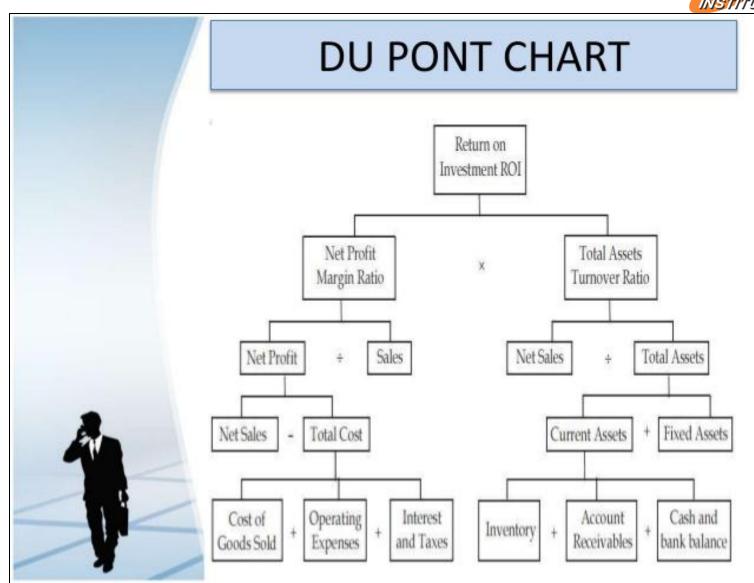


 Helps in understanding How the net Return on Investment is influenced by the Net Proft Margin and Total Asset Turnover Ratio

Return on Investment

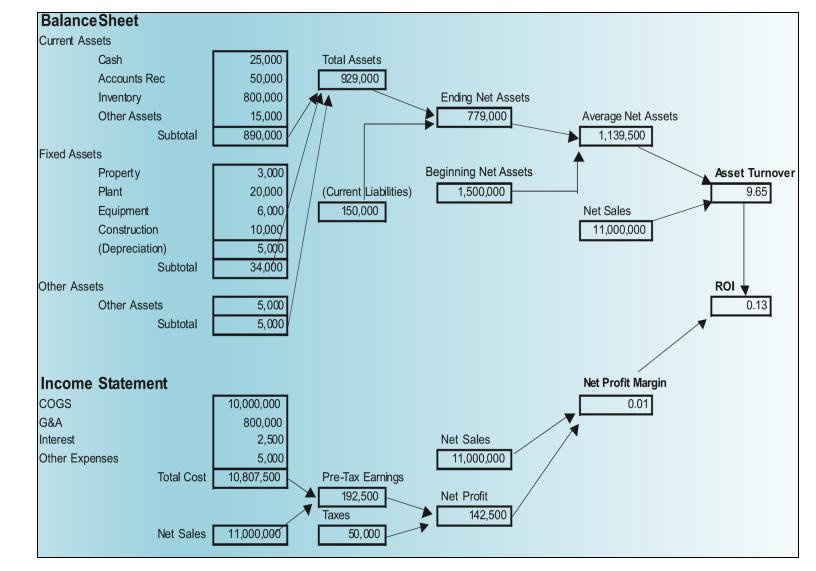
Return on Investment = Net Profit Margin X Asset Turnover





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Example 1:

If the plant can reduce inventory by 21%, then total assets will decrease and the asset turnover ratio will increase by 9%. With all other elements remaining equal, this will improve the return on investment (ROI) calculation by 5%..

Example 2:

A second example would be if the cost of goods sold (COGS) is reduced by 7%, then total costs will decrease and net profit will improve by 4%. With all other elements remaining equal, this will improve the profit margin calculation by 2%.







Thank You !