

International differences in use of financial leverage	1. Total debt - Japan, Italy, France : more total debt - US, UK : less total debt 2. Debt maturity - North America : longer maturity - Japan : shorter maturity 3. Emerging market differences - Developed countries : more total debt, longer maturity debt - Emerging markets : less total debt, shorter maturity debt		
Factors for the differences in use of financial leverage	<u>Factors</u> 1. Institutional and Legal factors - Strong legal system → ↓ agency costs - Less information asymmetries → ↑ transparency - Favorable tax rate for dividends to interest → ↓ required return on equity 2. Financial markets and banking system factors - Larger capital markets, with more liquidity - More reliant o banking system than corporate bond market as source of corporate borrowing - More institutional investors 3. Macroeconomic factors - Higher inflation → ↓ value of fixed interest payent - Higher GDP growth rate	<u>Use of total debt</u> Lower Lower Lower N/A Higher Lower Lower Lower	<u>Maturity of debt</u> Longer Longer N/A Longer N/A Longer Shorter Longer

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Page 4 of 12

Valuing a target company - Comparable transactions	Step 1 : Identify a set of takeover transactions - involve firms in same industry, similar capital structure as the target Step 2 : Calculate various relative value measures based on completed deal prices for sample transactions Step 3 : Calculate mean/median/range for chosen relative value measures; apply those measure to the target company		
Compare between DCF / Comparable company / Comparable transaction analysis	<u>DCF</u> <u>Advantages</u> - Easy to model any changes in target's CF due to synergy or change in cost structure - Estimate of company value based on forecast of future fundamental condition rather than current data - Easy to customise <u>Disadvantages</u> - Difficult to apply when CF are negative - Estimates of CF and earnings are highly subject to error - Discount rate changes over time, and have large impact on valuation estimate - Majority of target's estimated value is terminal value, which is highly sensitive to estimates used for constant growth and discount rate → estimation error is a major concern	<u>Comparable company</u> - Data of comparable companies is easy to access - Assumption that similar assets have similar values is fundamentally sound - Estimates of value are directly from the market, rather than assumptions/estimates about the future - Assume market's valuation of comparable companies is accurate - Only provide estimate of fair stock price. Takeover price must be determined separately - Hard to take into account the effect of synergy or change in capital structure - Historical data used to estimate takeover premium may not be timely → not reflect current condition in M&A market	<u>Comparable transaction</u> - No need to estimate separate takeover premium - Derived directly from recent completed deals, rather than assumptions/estimates about the future - Reduce the risk of lawsuit from target's shareholders against target's managers and BOD for mispricing the deal - Assume value of past transactions is accurate. If past transactions are overpriced / underpriced → carry over to the estimated value of the target - May not be enough of comparable transactions to develop a reliable set of data to calculate the estimated target value - Hard to take into account the effect of synergy or change in capital structure
Post merger value of acquirer	$V_{A+T} = V_A + V_T + Synergy - Cash\ paid\ to\ target$ In which : V_{A+T} = post merger value of combined company (Acquirer + Target) V_A = Pre merger value of acquirer V_T = Pre merger value of target		
Gain of the Target	$Gain_T = Takeover\ premium = P_T - V_T$ In which: P_T = Price paid to target V_T = Value of target		
Gain of the Acquirer	$Gain_A = Synergy - Takeover\ premium = Synergy - (P_T - V_T)$		
Cash Payment vs. Stock payment	1. Cash offer : profit of target's shareholders is capped @ takeover premium 2. Stock offer : Profit of target's shareholders is determined by value combined firm's stock $P_T = N \times PPS_{A+T}$ In which : P_T = Price paid to Target N = number of new shares the target receives PPS_{A+T} = Post merger price per share (combined firm)		
Post merger studies	1. ST performance studies : - Targets gains ≈ 30% - Acquirer losses ≈ 1% - 3% - Reason 1: High premium received by Target, due to Acquirer suffer from <i>Winner's curse</i> - Reason 2: Managerial hubris - overestimate the synergy and expected benefits of the merger 2. Longer term performance studies : - Acquirer tend to underperform their peers - Avg. return of acquirer 3 years after a merger ≈ -4% - Over 60% acquirer lagging their peer group - Reason : due to failure to capture promised synergies		
Characteristics of M&A transactions that create value	1. Strong buyer : Acquirer shows strong performance (i.e.: earnings ; stock price growth) in the prior 3 years 2. Low takeover premium 3. Few bidders → Greater acquirer's future returns 4. Favorable market reaction		
Divestitures / Equity carve-out / Spin-offs / Split-offs / Liquidations	1. Divestitures : A company selling / liquidating / spinning off a division or subsidiary, mostly to outside buyer 2. Equity carve-out : Create a new, independent legal, with separate management team, by giving an equity interest in a sub to outside shareholders (issued in a public offering). 3. Spin-offs : Create a new, independent legal, with separate management team, by distributing sub's shares to the parent's shareholders proportionately → Same shareholders with the Parent company 4. Split-offs : Allow shareholders to receive a new shares of a division of the Parent, in exchange for a portion of their shares in the parent company 5. Liquidations : Break up the firm and sell its assets separately. Mostly associated with bankruptcy		
Common reasons for restructuring	1. Division no longer fits into management's LT strategy : unable to make profit / no fit with the LT direction of the company 2. Lack of profitability : Division's return < Firm's cost of capital - Reason 1 : management made a bad decision to enter the division at the first place - Reason 2 : Division's profitability declines over time due to rising costs / or change in customers' preference 3. Individual parts are worth more than the whole (reverse synergy) 4. Infusion of cash : Parent company experiences financing difficulty → selling a division to raise cash and reduce debt		