VALUATION APPLICATION



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BUSINESS COMBINATION

Definitions of Business Combination:

- ➤ The term Business Combination refers in general to any set of conditions in which two or more organizations are joined together through common ownership.
- It is the term applied to external expansion in which separate enterprises are brought together into one economic entity as a result of one enterprise uniting with or obtaining control over the net assets and operations of another enterprise.

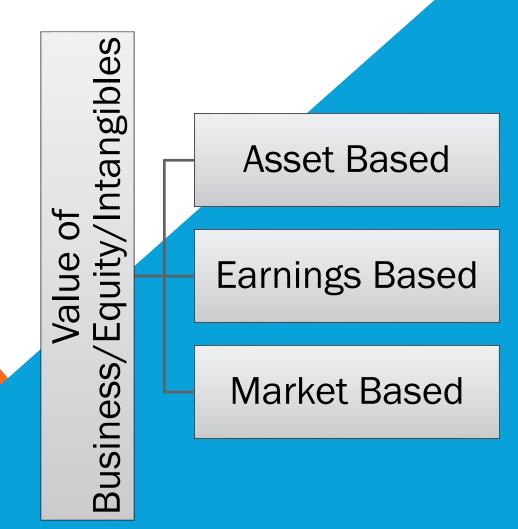
TYPES OF BUSINESS COMBINATION

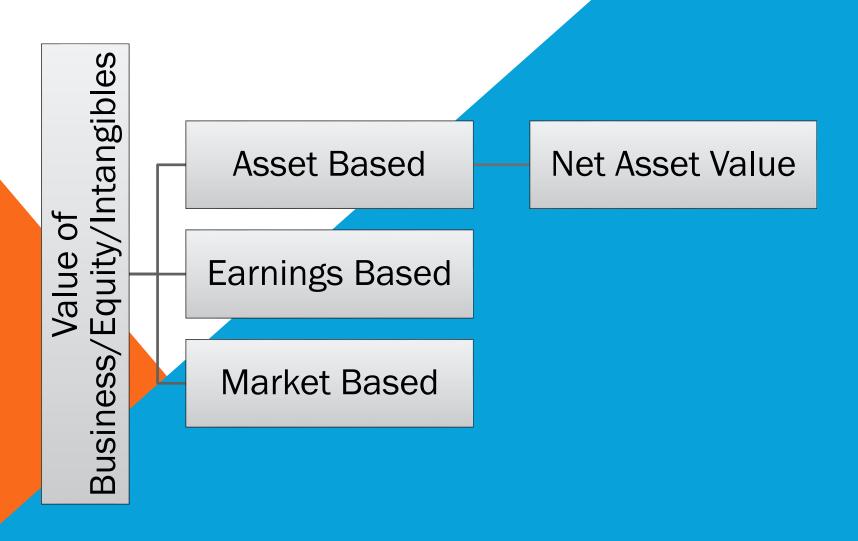
Business Combination can take place in the following forms:

- > Amalgamation
- Merger
- Demerger
- Arrangement
- Restructuring

BUSINESS COMBINATION VALUATION GENERAL PROPOSITION

- ❖ In a business Combination, attempt is not to arrive at absolute values of the shares of the companies, but their relative values, on a stand alone and as is where is basis, to arrive at the exchange / entitlement ratio.
- ❖ A relative valuation is based on various methodologies and various qualitative factors relevant to each of the companies and the business dynamics and growth potential of the businesses of respective companies.
- Evaluation on stand alone basis post business combination synergies not to be considered.
- In a business combination, wherein the economic and voting interest of the shareholders remains the same (pre and post combination), commercially no valuation is required.





Equity/Intangibles **Asset Based** Value **Earnings Based** Market Based

- 1) Discounted Cash Flow
- 2) Earnings Capitalisation
- 3) Royalty Relief method
- 4) Contribution / Excess earnings method
- 5) Incremental Cash Flow Method.

Business/Equity/Intangibles **Asset Based** Value of **Earnings Based** Market Based

1) Market Price

2) Comparable Companies Multiples

3) Comparable Transaction Multiples

SHARE EXCHANGE RATIO

Weightages considered in arriving at the relative fair value of the equity shares are generally:

■ Net asset value methodology : 1

■ Market methodology :

□ Earnings methodology:

Generally predominant weightage given to market and earnings method considering that the proposed business combination is on a going concern basis

DISTRESSED ASSET VALUATION

- ➤ A distressed asset is one which is in major financial difficulty, usually either in default or close to default. This will have caused the asset to greatly devalue.
- An asset that is put on sale, usually at a cheap price, because its owner is forced to sell it. There could be various reasons for this, including bankruptcy, excessive debt and regulatory constraints. Debt itself can be sold on to a new owner at below face value (distressed debt).
- Distressed assets can be a good opportunity to buy if the investor believes the difficulties can be overcome.

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- ➤ Traditional valuation techniques are built on the assumption of a going concern, i.e. A firm that has continuing operations and there is no significant threat to these operations.
- ➤ When there is a significant likelihood that a firm will not survive the immediate future (next few years), traditional valuation models may yield an over-optimistic estimate of value.
- The discount rate (costs of equity and capital) can be adjusted for the likelihood of distress. In particular, the beta (or betas) used to estimate the cost of equity can be estimated using the updated debt to equity ratio, and the cost of debt can be increased to reflect the current default risk of the firm. This adjusts for the additional volatility in the cashflows but not for the truncation of the cashflows.

DEALING WITH DISTRESS IN DCF VALUATION

- Simulations: You can use probability distributions for the inputs into DCF valuation, run simulations and allow for the possibility that a string of negative outcomes can push the firm into distress.
- Modified discounted cashflow valuation: You can use probability distributions to estimate expected cashflows that reflect the likelihood of distress.
- **Going concern DCF value with adjustment for distress:** You can value the distressed firm on the assumption that the firm will be a going concern, and then adjust for the probability of distress and its consequences.
- Adjusted present value: You can value the firm as an unlevered firm and then consider both the benefits (tax) and costs (bankruptcy) of debt.

START UP ENTITIES VALUATION

What is a Start-up Entity:

- ❖ A startup is a company that is in the first stage of its operations. These companies are often initially bankrolled by their entrepreneurial founders as they attempt to capitalize on developing a product or service for which they believe there is a demand.
- Due to limited revenue or high costs, most of these small-scale operations are not sustainable in the long term without additional funding from venture capitalists.

VALUE YOUR STARTUP WITH THE COMPARABLE TRANSACTIONS METHOD

- ❖ The Comparable Transactions Method is meant for both pre and postrevenue startups.
- ❖ Most of the time, you can just take lines from the P&L: sales, gross margin, EBITDA, etc. for making valuation under Comparable Transaction Method.
- These factors of the concerned start up entity are compared with the similar factors of another entity in the same /similar industry to get comparable results.

	The Comparable Transactions Method	
_	Somebody elses's box	Your box
Number of users	100,000	55,000
Valuation	Rs. 100 Million	?

VALUATION OF SMALL AND MEDIUM ENTERPRISES

Definitions of micro, small & medium enterprises:

In accordance with the provision of micro, small & medium enterprises development (MSMED) act, 2006 the micro, small and medium enterprises (MSME) are classified in two classes:

- A) Manufacturing Enterprises- The enterprises engaged in the manufacture or production of goods pertaining to any industry specified in the first schedule to the industries (development and regulation) act, 1951) or employing plant and machinery in the process of value addition to the final product having a distinct name or character or use. The manufacturing enterprise are defined in terms of investment in plant & machinery.
- B) Service enterprises:- The enterprises engaged in providing or rendering of services and are defined in terms of investment in equipment.

FIVE APPROACHES FOR VALUATION

- 1. Discounted cash flow (DCF) valuation
- 2. Liquidation and accounting valuation
- 3. Relative valuation
- 4. Contingent claim valuation (real options)
- 5. Goodwill valuation

All of these approaches have their own characteristics. Moreover, the advantages and disadvantages of the several approaches will be described in the next paragraphs.

DISCOUNTED CASH FLOW (DCF) VALUATION

The DCF method relies on the future cash flows, where other valuation approaches will use the past.

The following formula will present the DCF method:

 $\sum n \ t=1 \ \{Expected \ future \ cash \ flow \ t/(1+discount \ rate) \ t\} + Residual \ value \ n/(1+discount \ rate)$

The generated future cash flows are represented by period 1, 2 till n. Year n is the last year and the residual value is added to represent the future cash flows after this moment.

The residual value is calculated as follow:

Residual value = Future cash flown* $(1+growth\ rate)/(discount\ rate-growth\ rate)$

LIQUIDATION AND ACCOUNTING VALUATION

The liquidation and accounting approach estimates the value of the company's assets. Methods in this approach consider that a company's value lies in the balance sheet, it determines the value from a static viewpoint. This approach, also named as asset-based valuation, estimates the value of the present assets.

Some specific methods in the asset-based valuation are: -

- Book value
- Adjusted Book Value
- Liquidation value

Book value: The book value of the company is the difference between the value of the total assets and liabilities. In other words, the book value is the shareholder's equity (capital and reserves). The value which is presented in the balance sheet is used in this method.

Book value (shareholder's equity) = total assets - total liabilities

Hence, the following question frequently arises when this method is used: "is the book value the same as the market value"?

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<u>Adjusted book value:</u> The adjusted book value will be used to overcome the differences in book and market value. All balance sheets items are, where necessary, adjusted to a (more) suitable market value.

<u>Liquidation value:</u> Another method of the asset-based valuation is the use of liquidation value: "value assets based upon the presumption that they have to be sold now". Liquidation expenses are distracted from the net worth.

Liquidation value = book value / adjusted book value - liquidation expenses

RELATIVE (MULTIPLE) VALUATION

The relative approach values the assets by pricing of 'comparable' assets relative to a common variable (earning, cashflows, book value or sales). The following three steps are essential in the relative valuation:

- 1. Finding comparable assets that are priced by the market
- 2. Scaling the market price to a common variable
- Adjusting for differences across assets

Four basic principles must be keep in mind for a proper multiple valuation:

- 1. Use the right peer group (not only based on industry, also on ROIC and growth)
- 2. Use forward-looking multiples
- 3. Use enterprise-value multiples
- 4. Adjust the enterprise-value-to-ebitda-multiple for non-operating items.

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Some examples of frequently used multiples are the EBIT, EBITDA, sales, book value and price earnings multiple.

EBIT multiple = Company value/EBIT

Book value multiple = Company value/ Book value assets

EBITDA multiple = Company value / EBITDA

Price earnings ratio = Common equity value / Earnings

Sales multiple = Company value / Total revenues

Relative valuation uses peer groups, so this method reflects the (current) market. Thereby, it's quite simple to calculate.

CONTINGENT CLAIM VALUATION

"Contingent claims analysis (CCA) is the application of option-pricing theory to the valuation of assets, the future value of which depends, in turn, on the future value of other assets". This approach is contingent on the occurrence of certain events.

The most simplified formula for the company valuation by real options is:

Company value = value of existing operations + value of real options

The value derives from the underlying assets, whereby these assets often are valued by their discounted future cash flows. This applies for both the existing operations and the real options.

GOODWILL VALUATION

Goodwill is the value a company has above its book value, it represents the value of the intangible assets. While goodwill is not always presented on the balance sheet, it is the benefit and advantage of the company. How to determine the value of the goodwill, "valuing the company's assets and then add a quantity related with future earnings".

While there are several goodwill valuation methods, some examples are presented below:

Company value = net asset value + (coefficient * net income)

In this formula the goodwill is valued with a certain coefficient to the net income.

Instead of the net income, another method will use a percentage of the total revenue as representation of the goodwill.

Company value = net asset value + (percentage * total revenue)

VALUATION OF CYCLICAL FIRMS

What is a cyclical industry:

- ❖ A cyclical industry is a type of industry that is sensitive to the business cycle, such that revenues generally are higher in periods of economic prosperity and expansion and are lower in periods of economic downturn and contraction.
- Companies in cyclical industries can deal with this type of volatility by implementing employee layoffs and cuts to compensate during bad times and paying bonuses and hiring en masse in good times.

VALUATION OF CYCLICAL FIRMS

The Dark Side of valuation:

Base year fixation:

- When valuing companies, we tend to put a great deal of weight on current financial statements. Most corporate valuations are built with the current year as the base year, with little heed paid to the firm's own history or the performance of the overall sector.
- This fixation of the current year's numbers is always dangerous with cyclical firms for a simple reason.
- The consequences of using the most recent year's numbers as a base become obvious:
- If the base year is at the peak or close to the peak of a cycle, and we use the numbers from that year as the basis for valuation, we will over value companies.
- If the base year represents the bottom or trough of a cycle and we use the earnings from that year to value companies, we will consistently under estimate their values.

VALUATION OF CYCLICAL FIRMS

The Light Side of valuation:

Discounted Cash-flow valuation:

- The discounted cash flow value of a company rests on four inputs earnings and cash flows from existing assets, the growth in these cash flows in the near term, a judgment on when the company will become mature and a discount rate to apply to the cash flows.
- Using this framework, we develop two ways of adapting discounted cash flow valuations for cyclical companies.
- In the first, we normalize our estimates for all four of these inputs, using normalized cash flows, growth rates and discount rates to estimate a normalized value for a firm.
- In the second, we try to adjust the growth rate in the cash flows to reflect where we are in the cycle setting it to low or even negative values at the peak of a cycle (reflecting the expectation that earnings will decline in the future) and high values at the bottom of a cycle.

VALUATION OF INVESTMENT ENTITIES

Definition of an Investment Entity:

An investment entity is an entity that:

- A) Obtains funds from one or more investors for the purpose of providing those investor(s) with investment management services (investment services condition)
- B) Commits to its investor(s) that its business purpose is to invest funds solely for returns from capital appreciation, investment income, or both (business purpose condition)
- C) Measures and evaluates the performance of substantially all of its investments on a fair value basis (fair value condition).

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VALUATION OF INVESTMENT ENTITIES

Valuation of a public company:

A Public company being an investment entity must demonstrate that fair value is the primary measurement attribute used. Therefore while conducting valuation of public company, it must not go beyond the Fair Market Value available with the valuer.

Valuation of a Closely held company:

- A Closely held company can be valued using Discounted Cashflow method after taking into consideration the two lacking factors, viz Discount on lack of Control and Discount on Lack of Marketability.
- ❖ Both these factors can either be positive factors or negative factors depending on the facts and circumstances of the case. Accordingly the effect of the same will be considered while conducting the valuation.

VALUATION FOR INSURANCE COVERAGE

What is an Insurance Company:

- ❖ A business that provides coverage, in the form of compensation resulting from loss, damages, injury, treatment or hardship in exchange for premium payments. The company calculates the risk of occurrence then determines the cost to replace (pay for) the loss to determine the premium amount.
- An insurance company provides cover against Land, Building, assets of the company.
- In any case, the insurance companies, while making compensation, can not go beyond the risk covered, for which they make a pre assessment of various risks associated with the asset insured.
- ❖ There exists various financial risks associated with the assets owned by the entities against which they prefer insurance coverage. Valuation of any such financial risk connected with the assets is covered under the purview of actuarial valuer.



THANK YOU!

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