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From Unicorns to Hectocorns: Mastering the Art and Science of Start-up Valuation

A Methodological Guide to Startup Valuation

March 2024

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In the dynamic realm of entrepreneurship, where innovation takes centre stage and potential often eclipses profits, the task of assigning a value to a start-up becomes a formidable challenge. Valuing a start-up is akin to painting a masterpiece with ever-shifting hues, especially when these ventures boast little to no revenue, uncertain futures, and a commitment to reshaping industries with novel ideas but untested technologies.

As financial analysts tread through the intricate landscape of start-up valuation, they embark on a journey where traditional metrics struggle to capture the essence of these burgeoning enterprises. Today, we witness the rise of unicorns, companies valued at a billion dollars or more, and their mythical counterparts – decacorns and hectocorns, standing tall at $10 billion and over $100 billion valuations, respectively.

However, the alchemy behind these eye-watering valuations is far from straightforward. The process encompasses a delicate interplay of various factors, from the team's expertise and the uniqueness of the product to the elusive promise of future market dominance. In the world of fundraising, a start-up's worth is not solely defined by cold, hard numbers; rather, it emerges as a consensus forged between visionary entrepreneurs and discerning investors.

Start-up valuation, then, is both an art and a science, an intricate dance between quantifiable data and visionary foresight. Whether navigating the uncharted waters of the pre-seed stage or contemplating the issuance of stock options, understanding the diverse methods employed to assess start-up value becomes paramount. In this publication, we delve into the fascinating world of start-up valuation, unravelling methodologies that not only decipher the current worth of these ventures but also serve as compasses guiding them towards future fundraising success. Welcome to the exploration of valuing tomorrow's transformative start-ups – where innovation meets valuation, and the future is limitless.

When it comes to valuations for a start-up, there is no one-size-fits-all solution, each and every methodology is distinct, and rather rely heavily on pure assumptions for future potential. By nature valuations inherently differ across geographical location, industry nuances, and the passage of time, however there are tools to assist with the precise and contextual evaluation of valuations for start-ups.

1. Berkus Method

The Berkus Method, devised by the renowned American venture capitalist and angel investor Dave Berkus, offers a structured approach to valuing start-ups. This method involves a thorough evaluation of five critical success factors: basic value, technology, execution, strategic relationships within the core market, and production and subsequent sales.

A meticulous analysis is conducted to ascertain the monetary value assigned to each of these key success factors. The ultimate valuation of the start-up is then derived by summing up these monetary values. In the Berkus approach, a theoretical maximum pre-money valuation of $2.5 million is often reached, with each success factor being allocated up to $500,000 (Macleod, 2023).

For example, consider a technology start-up with ground-breaking innovations in a competitive market. The Berkus Method would evaluate the intrinsic value of the technology, the start-up's execution capabilities, and the strength of strategic relationships within the industry. If, for instance, the technology is deemed revolutionary, execution is exemplary, and strategic relationships are robust, the Berkus Method would assign significant monetary values to each of these factors, contributing to a higher overall start-up valuation within the specified framework. This pragmatic approach is sometimes interchangeably known as the stage development method or the development stage valuation approach.

2. Cost to Duplicate Approach

The Cost-to-Duplicate approach is pretty straightforward. It's like figuring out how much it would cost to start your business all over again somewhere else, but without counting things like your brand or reputation. You just add up the value of all your physical stuff, like equipment and property. You can also include costs for things like research, developing your product, creating prototypes, and getting patents.

But here's the catch: This method doesn't capture the full value of your company, especially if it's already making money. When you use this approach, you might have to leave out important things like how engaged your customers are because it only looks at the tangible stuff you own (Mcclure, 2023).

3. Discounted Cash Flow Method

The Discounted Cash Flow (DCF) method is all about looking ahead for a start-up. It involves predicting how much cash the start-up will generate in the near future. Valuing a start-up utilizing DCF methodology shares similarities with the approaches employed in valuing public companies. Yet, calculating the discount rate for a start-up can pose challenges due to the absence of readily accessible data, particularly when defining the target capital structure and beta ( ).

The process involves forecasting the future free cash flows (FCFs) generated by the company. These projected cash flows are then discounted back to the present date using a suitable discount rate, often the Weighted Average Cost of Capital (WACC), which accounts for the risk associated with the cash flows. The combined value of the discounted cash flows, covering both the explicit forecast period and the terminal value, constitutes the company's present value (PV), effectively representing its enterprise value.

To calculate the WACC for the start-up, everything remains similar comparatively to the public company valuation methodology, however for beta ( ) as historical share price data for a non-public company is unavailable, employing a regression model against broader market returns is impractical. In such cases, the industry beta proves valuable. This involves de-levering the levered beta of comparable companies and subsequently re-levering it based on the target capital structure of the start-up (Wall Street Prep, n.d.).

4. Venture Capital Method

This approach, aptly named the Venture Capital Method, is a preferred choice for venture capital firms, especially when assessing pre-revenue valuations. It aligns with the perspective of investors aiming for an exit within a few years.

The valuation process involves two essential formulas (Brex, n.d.):

1. Anticipated Return on Investment (ROI) = Terminal Value ÷ Post-Money Valuation
2. Post-Money Valuation = Terminal Value ÷ Anticipated ROI

To initiate the calculation, determine your start-up's terminal value, representing the expected selling price post-investment by the VC firm. You can derive this value using industry-specific estimated revenue multiples or the price-to-earnings ratio.

Next, establish the anticipated ROI, perhaps aiming for a multiple like 10×. Plug these values into the formulas to find your post-money valuation. Subtract the amount you're seeking in investment to arrive at your pre-money valuation.

In simpler terms, this method helps determine the potential value of your start-up after receiving venture capital funding, considering the expected return on investment and the subsequent impact on your overall valuation (Brex, n.d.).

5. Book Value Method

The Book Value method provides an asset-based valuation, resembling the cost-to-duplicate approach but in a more straightforward manner.

Typically, a start-up's book value is calculated as the difference between its total assets and liabilities. Essentially, the Book Value method simplifies the valuation process by equating your start-up's net worth with its overall valuation (Brex, n.d.).

6. Market Multiple Approach (Comparable Transactions Method)

In start-up valuation, the Market Multiples Approach considers either the current market prices of publicly traded peers or comparable transactions for assessing metrics like enterprise value-to-revenue (EV/R), enterprise value-to-EBITDA (EV/EBITDA), and more. This method, preferred by venture capital investors, offers a tangible indication of market willingness to pay for a company, though finding comparable transactions can be challenging.

The Start-up Valuation Revenue Multiple method focuses on revenue-generating start-ups, assuming similar assets share similar values. Calculated as the product of a revenue multiple and trailing 12-month revenue, it gauges industry performance and market conditions for valuation (Macleod, 2023).

The Comparable Transactions Method, another prevalent technique, answers the crucial question of how much similar start-ups were acquired for, providing insight into the start-up's potential value based on precedent. The comparable transactions method, or mostly known as Precedent transaction method is similar to the methodology utilized to valuate a publicly traded company.

These valuation methods offer diverse perspectives, combining market realities, revenue dynamics, and precedent to paint a comprehensive picture of a start-up's worth.

Conclusion

In conclusion, navigating the intricate landscape of start-up valuation demands a nuanced understanding of both art and science. The rise of unicorns, decacorns, and hectocorns underscores the evolving nature of assigning value to ventures driven more by potential than immediate profits.

This exploration has ventured into methodologies essential for deciphering the worth of these innovative enterprises. The Berkus Method provides a structured approach, considering critical success factors. The Cost to Duplicate Approach simplifies valuation by assessing tangible assets. The Discounted Cash Flow Method peers into the future, while the Venture Capital Method aligns with investor perspectives. The Book Value Method simplifies asset-based valuation, and the Market Multiple Approach draws insights from market realities.

Each method, though distinct, reflects the contextual evaluation needed for start-up valuations. From understanding the essence of success factors to projecting future cash flows, these methodologies serve as compasses guiding ventures toward fundraising success.

As the entrepreneurial landscape continues to evolve, the art and science of start-up valuation will remain dynamic, requiring adaptability and a keen understanding of emerging methodologies. In this realm where innovation meets valuation, the possibilities are boundless, and the pursuit of excellence continues to shape the future of transformative start-ups.

Source:

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