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#startup #innovation #technology #venturecapital  
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## Valuation For Startups—9 Methods Explained

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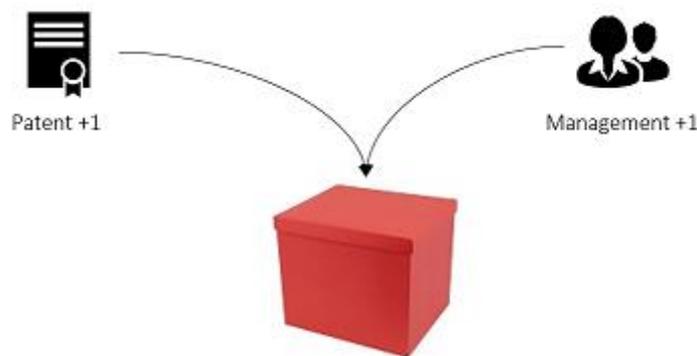
This article was co-written and published [in French](#) by [Augustin de Cambourg](#) and [in Portuguese](#) by [Raphael Mielle](#).

A startup is like a box. A very special box.



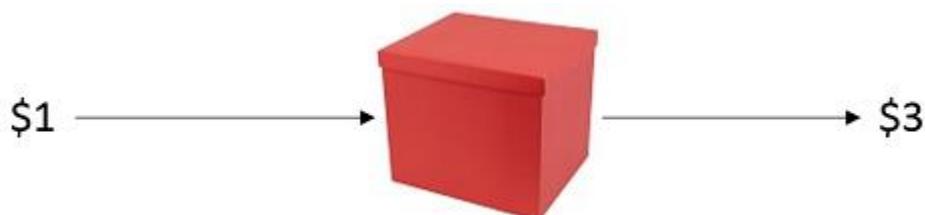
This is a startup

The box has a value. The more things you put in the box, the more its value increases. Add a patent in the box, the value increases. Add a kick-ass management team in the box, the value increases. Easy, right?



Your startup is now worth 2. Yay!

The box is also magic. When you put \$1 inside, it will return you \$2, \$3 or even \$10! Amazing!



I want to build one of those little boxes for myself!

Problem is, building a box can be very expensive. So you need to go and see people with money—let's call them investors—and offer them a deal that sounds a bit like this:

*"Give me \$1M to build a box, and you get X% of everything that comes out of it"*

But how much should "X" be?

It depends on the [Pre-Money Valuation](#), e.g. the value of the box at the moment of the investment. But calculating the Pre-Money Valuation is tricky. This article will take you through 9 different valuation methods to better let you understand how to determine Pre-Money Valuation.

Valuation Method	Principle
1 Berkus	Valuation based on the assesement of 5 key success factors
2 Risk Factor Summation	Valuation based on a base value adjusted for 12 standard risk factors
3 Scorecard	Valuation based on a weighted average value adjusted for a similar company
4 Comparable Transactions	Valuation based on a rule of three with a KPI from a similar company
5 Book Value	Valuation based on the tangible assets of the company
6 Liquidation Value	Valuation based on the scrap value of the tangible assets
7 Discounted Cash Flow	Valuation based on the sum of all future cash flows generated
8 First Chicago	Valuation based on the weighted average of 3 valuation scenarios
9 Venture Capital	Valuation based on the ROI expected by the investor

#### Nine Valuation Methods

*Please note that most valuations methods are based on data such as comparables or base valuations. How to find such data is an issue per se, and will not be addressed in this paper, but most likely in a future paper.*

### 1. Value your startup with the Berkus Method

The Berkus Method is a simple and convenient rule of thumb to estimate the value of your box. First, you have to know how much a similar box is worth. Then, you assess how you perform in the 5 key criteria for building boxes.

### The Berkus Method

Given a max. value of \$2M for a similar box



1. Sound idea (basic value)	\$300k/\$400k
2. Prototype (technology)	\$100k/\$400k
3. Quality management team (execution)	\$300k/\$400k
4. Strategic relationships (go-to-market)	\$200k/\$400k
5. Product rollout or Sales (production)	\$100k/\$400k
<b>BOX VALUATION</b>	<b>\$1,000,000</b>

This will give you a rough idea of how much your box is worth (AKA pre-money valuation) and more importantly, what you should improve.

The Berkus Method is meant for pre-revenue startups. To read more about the Berkus Method, click [here](#).

### 2. Value your startup with the Risk Factor Summation Method

The Risk Factor Summation Method or RFS Method is a slightly more evolved version of the Berkus Method. First, you determine an initial value for your box. Then you adjust said value for 12 risk factors inherent to box-building.

#### The Risk Factor Summation Method



<b>INITIAL VALUE</b>			<b>\$1,500,000</b>
1. MANAGEMENT RISK	Very low	+\$500,000	\$2,000,000
2. STAGE OF THE BUSINESS	Normal		
3. LEGISLATION/POLITICAL RISK	Normal		
4. MANUFACTURING RISK	Normal		
5. SALES AND MANUFACTURING RISK	Normal		
6. FUNDING/CAPITAL RAISING RISK	Normal		
7. COMPETITION RISK	Very high	-\$500,000	\$1,500,000
8. TECHNOLOGY RISK	Low	+\$250,000	\$1,750,000
9. LITIGATION RISK	Very low	+\$500,000	\$2,250,000
10. INTERNATIONAL RISK	Normal		
11. REPUTATION RISK	Very low	+\$500,000	\$2,750,000
12. POTENTIAL LUCRATIVE EXIT	Normal		
<b>BOX VALUATION</b>			<b>\$2,750,000</b>

Initial value is determined as the average value for a similar box in your area, and risk factors are modelled as multiples of \$250k, ranging from \$500k for a very low risk, to -\$500k for a very high risk. The most difficult part here, and in most valuation methods, is actually finding data about similar boxes.

The Risk Factor Summation Method is meant for pre-revenue startups. To read more about the Risk Factor Summation Method, click [here](#).

### 3. Value your startup with the Scorecard Valuation Method

The Scorecard Valuation Method is a more elaborate approach to the box valuation problem. It starts the same way as the RFS method i.e. you determine a base valuation for

your box, then you adjust the value for a certain set of criteria. Nothing new, except that those criteria are themselves weighed up based on their impact on the overall success of the project.

### The Scorecard Valuation method

	Weight	vs. average project
1. TEAM CAPACITY	40%	125%
2. PRODUCT/TECHNOLOGY READINESS	30%	100%
3. MARKET SIZE	20%	15%
4. COMPETITION	10%	75%
***		
INITIAL VALUE	\$1,500,000	
MULTIPLIER	117,5%	
<b>BOX VALUATION</b>	<b>\$1,760,250</b>	

Your box is 17,5% better than an average similar box

This method can also be found under the name of [Bill Payne Method](#), considering 6 criteria: Management (30%), Size of opportunity (25%), Product or Service (10%), Sales channels (10%), Stage of business (10%) and Other factors (15%).

The Scorecard Valuation Method is meant for pre-revenue startups. To read more about the Scorecard Valuation Method, click [here](#).

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## 4. Value your startup with the Comparable Transactions Method

The Comparable Transactions Method is really just a rule of three.

### The Comparable Transactions Method

	Somebody else's box	Your box
<i>Number of users</i>	100,000	55,000
<i>Valuation</i>		

Depending on the type of box you are building, you want to find an indicator which will be a good proxy for the value of your box. This indicator can be specific to your industry: Monthly Recurring Revenue (SaaS), HR headcount (Interim), Number of outlets (Retail), Patent filed (Medtech/Biotech), Weekly Active Users or WAU (Messengers). Most of the time, you can just take lines from the P&L : sales, gross margin, EBITDA, etc.

### The Comparable Transactions Method

	<i>Sold for</i>	<i>Revenue multiple</i>	<i>WAU multiple</i>
SIMILAR BOX #1	\$957	3,0 x	2,3 x
SIMILAR BOX #2	\$647	3,3 x	6,4 x
SIMILAR BOX #3	\$327	1,9 x	1,5 x
SIMILAR BOX #4	\$737	5,4 x	0,2 x
SIMILAR BOX #5	\$6,248	8,6 x	5,7 x
SIMILAR BOX #6	\$39,087	7,3 x	4 x
SIMILAR BOX #7	\$6,576	12,1 x	31 x
SIMILAR BOX #8	\$4,258	8,3 x	3,5 x
SIMILAR BOX #9	\$3,798	3,4 x	1,1 x

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	<i>Revenue</i>	<i>WAU</i>
MY BOX INDICATORS	\$900	1,000
WEIGHTED AVERAGE MULTIPLES	7,6	6,7
<b>BOX VALUATION BASED ON...</b>	<b>\$685</b>	<b>\$6,736</b>



Depending on the comparables considered, the box is worth \$685 or \$6,736

The Comparables Transactions Method is meant for pre- and post-revenue startups. To read more about the Comparable Transactions Method, click [here](#).

### 5. Value your startups with the Book Value Method

Forget about how magical the box is, and see how much 1 pound of cardboard is worth.

The book value refers to the net worth of the company i.e. the tangible assets of the box i.e. the "hard parts" of the box.

### The Book Value Method



#### Tangible assets: ok



Lands



Buildings



Furniture

#### Intangible assets: 0



Brands



Patent



Database

#### Liabilities: 0



Debts



Accounts payable



Preferred stocks

The Book Value Method is particularly irrelevant for startups as it is focused on the “tangible” value of the company, while most startups focus on intangible assets: RD (for a biotech), user base and software development (for a Web startup), etc. To read more about the Book Value method, click [here](#).

## 6. Value your startup with the Liquidation Value Method

Rarely good from a seller perspective, the liquidation value is, as implied by its name, the valuation you apply to a company when it is going out of business.

Things that counts for a liquidation value estimation are all the tangible assets: Real Estate, Equipment, Inventory... Everything you can find a buyer for in a short span of time. The mindset is: if I sell whatever the company can in less than two months, how much money does that make? All the intangibles on the other hand are considered worthless in a liquidation process (the underlying assumption is that if it was worth something, it would have already been sold at the time you enter in liquidation): patents, copyright, and any other intellectual property.

Practically, the liquidation value is the sum of the scrap value of all the tangible assets of the company.

For an investor, the liquidation value is useful as a parameter to evaluate the risk of the investment: a higher potential liquidation value means a lower risk. For example, all other things equal, it is preferable to invest in a company that owns its equipment compared to one that leases it. If everything goes wrong and you go out of business, at least you can get some money selling the equipment, whereas nothing if you lease it.

So, what is the difference between book value and liquidation value? If a startup really had to sell its assets in the case of a bankruptcy, the value it would get from the sale would likely be below its book value, due to the adverse conditions of the sales.

## The Liquidation Value Method

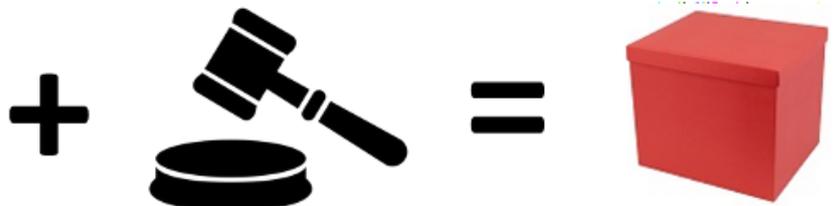
### Tangible assets: ok



### Intangible assets: 0



### Liabilities: 0

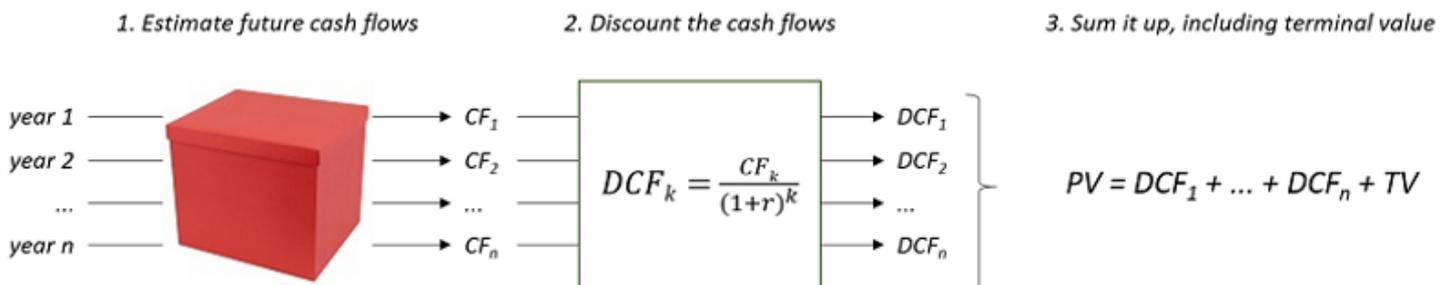


So liquidation value < book value. Although they both account for tangible assets, the context in which those assets are valued differs. As [Ben Graham](#) points out, the liquidation value measures what the stockholders could get out of the business, while the book value measures what they have put into the business.

## 7. Value your startup with the Discounted Cash Flow method

If your box works well, it brings in a certain amount of cash every year. Consequently, you could say that the current value of the box is the sum of all the future cash flows over the next years. And that is exactly the reasoning behind the DCF method.

### The Discounted Cash Flow Method



Let's say you are projecting cash flows over n years. What happens after that? This is the question addressed by the Terminal Value (TV)

Option 1: you consider the business will keep growing at a steady pace, and keep generating indefinite cash flows after the n years period. You can then apply the formula for Terminal Value:  $TV = CF_{n+1}/(k - g)$

Option 2: you consider an exit after the n year period. First, you want to estimate the future value of the acquisition, for example with the comparable method transaction (see above). Then, you have to discount this future value to get its net present value.  $TV = \text{exit value}/(1+k)^n$

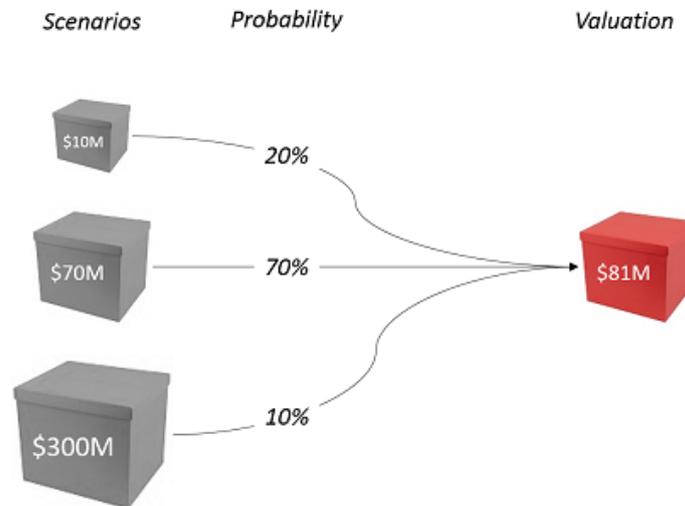
Although technically, you could use it for post-revenue startups, it is just not meant for startup valuation. To read more about the DCF method, click [here](#).

## 8. Value your startup with the First Chicago Method

The First Chicago Method answers to a specific situation: what if your box has a small chance of becoming huge? How to assess this potential?

The First Chicago Method (named after the late First Chicago Bank—if you ask) deals with this issue by making three valuations: a worst case scenario (tiny box), a normal case scenario (normal box), a best case scenario (big box).

### The First Chicago Method



SUMPRODUCT, where the magic happens

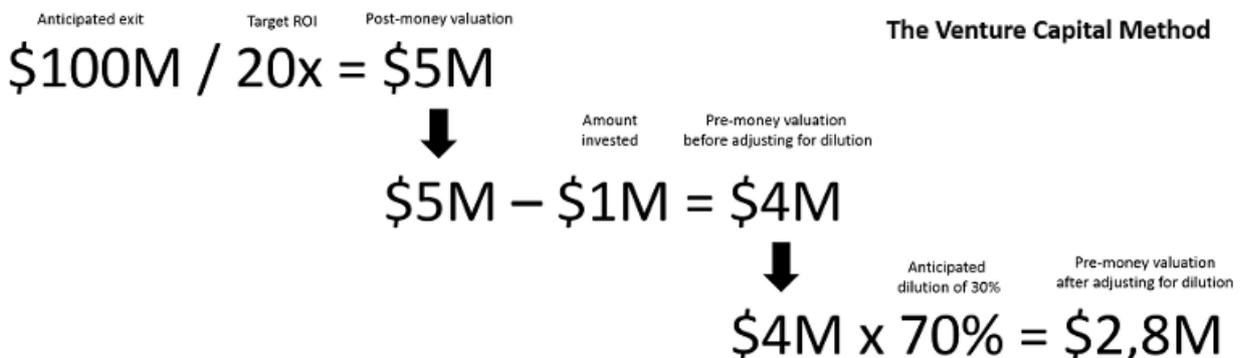
Each valuation is made with the DCF Method (or, if not possible, with internal rate of return formula or with multiples). You then decide of a percentage reflecting the probability of each scenario to happen. Your valuation according to the First Chicago Method is the weighted average of each case.

The First Chicago Method is meant for post-revenue startups. You can read more about the First Chicago Method [here](#).

## 9. Value your startup with the Venture Capital Method

As its name indicate, the Venture Capital Method stands from the viewpoint of the investor.

An investor is always looking for a specific return on investment, let's say 20x. Besides, according to industry standards, the investor thinks that your box could be sold for \$100M in 8 years. Based on those two elements, the investor can easily determine the maximum price he or she is willing to pay for investing in your box, after adjusting for dilution.



The Venture Capital Method is meant for pre- and post-revenue startups. To read more about the Venture Capital Method, click [here](#).

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### ***And the best valuation method is...***

Congratulations! If you made it this far, you know 9 valuation methods. So you must be screaming from the inside: what is the best valuation method?!

**First, keep in mind that the only methods really used by VCs are comparables and a rough estimate of how much dilution is acceptable by the founders**—e.g. giving out 15% to 25% for a seed round comprised between €300k and €500k, or making sure that the founders remain majority shareholders after a Series A.

**Second, let us remember that valuations are nothing but formalized guesstimates. Valuations never show the true value of your company.** They just show two things: (1) how bad the market is willing to invest in your little red box, and (2) how bad you are willing to accept it.

**Having said that, I find that the best valuation method is the one described by Pierre Entremont**, early-stage investor at Otium Capital, in [this excellent article](#). According to him, you should start from defining your needs and then negotiate dilution:

The optimal amount raised is the maximal amount which, in a given period, allows the last dollar raised to be more useful to the company than it is harmful to the entrepreneur.

Valuations are a good starting point when considering fundraising. They help building up the reasoning behind the figures and objectify the discussion. But in the end, they are just the theoretical introduction to a more significant game of supply and demand.

We hope that you enjoyed this reading. If so, hit the ♥ button and share the love. To read more, you can check out this article on [why your startup is just a commodity for accelerators](#).

Thanks to [Augustin](#), [Chloe Chen](#), [Hugo de Gentile](#), and [Augustin Baret](#).

- [Startup](#)
- [Venture Capital](#)
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