

## Billion dollar startup characteristics

### What is the purpose of this article?

- 1) Generate discussion among founders, investors, boards of directors, and C-suite regarding the characteristics of billion dollar startups.
- 2) Enable the discussion to be fact based rather than base on myths and anecdotes.
- 3) This discussion should be held whether you are startup or a long established global company.
- 4) This article refers to three fact based analytical books and reports and includes only a small amount of the enormous collection of factual analysis.
- 5) This article doesn't tell you what to do. Just because information is correlated, does not mean there is a cause and effect relationship.

### What are the critical learnings in this article?

- 1) A billion dollar startup requires a large number of customers who believe: they have urgent problems and needs; are willing and able to pay to address those problems and needs; and that they can obtain better value from your company than the competition.
- 2) Success depends upon understanding customers better than the competition. This understanding must be fact based using interviews supplemented by survey and analysis of customer actions.

### Characteristics of unicorns – startups which achieved over \$1 billion U.S. valuation.

Ali Tamaseb studied over 200 unicorns founded between 2008 and 2018.<sup>1</sup>

What were the founders' backgrounds?

- 1) A founder's age doesn't correlate strongly with success. Median age was 34.<sup>2</sup>
- 2) The #2 person had an even wider age distribution, from 16 to 76 at time of founding. Founders of health and biotech companies skew older.<sup>3</sup>
- 3) 20% of unicorns had a sole founder. 36% had dual founders, 3 co-founders 28%; 4 co-founders 12% more than 4, 4%.<sup>4</sup>

What was the founders' education?

- 1) Education: 36% had bachelors; 22% had MBA, 33% had another advanced degree. College dropouts less common than founders with PhDs.<sup>5</sup>
- 2) Of those that went to university: about 35% each went to global top ten vs not in global top 100. About 30% went to global 11 to 100 universities.<sup>6</sup>

What was the founders' work experience?

- 1) 30% of unicorn founders had only worked for themselves before.<sup>7</sup>
- 2) 58% of those who had worked for other companies, (i.e. 70% of all founders), had worked for Tier 1 companies with rigorous hiring processes and reputation for hiring the best. 28% had worked for Tier 2 companies (large and well known). 14% had worked for companies not well known.<sup>8</sup>
- 3) Over 50% of founding CEOs and founding CxOs had less than 1 year of relevant industry or work experience.<sup>9</sup>
- 4) 75% of healthcare and biotech founders had directly relevant industry experience; 40% of enterprise technology; and 30% of consumer unicorns.<sup>10</sup>
- 5) What seems to matter was: quickly learning about a new space with unbiased mind, soft skills like building a network, managing a team, hiring and firing, raising money.<sup>11</sup>

What was the founders experience with previous startups?

- 1) 59% of unicorn founders had been a previous founder, sometimes successful, sometimes not.<sup>12</sup>
- 2) Those who had run a company before, experience ranged from a year to 27 years. Most common was 2-3 years (about 25%), about 54% were up to 5 years experience.<sup>13</sup>

How severe and urgent were the customers needs and problems?

- 1) Two approaches: Pain killer (well defined and deeply annoying pain point) or vitamin (customers get better value, efficiency, entertainment or joy)<sup>14</sup>
- 2) 68% of unicorns were pain killers.<sup>15</sup>
- 3) Close to 40% of unicorns address productivity; about 20% address saving time; 11%-15% each are: convenience, entertainment, health. Safety and security are around 2-5%<sup>16</sup>
- 4) Close to 50% of unicorns were system integration (bringing together existing technology. Value add comes from unique business model or marketing strategy). About 25% were technical i.e. fair amount of engineering. About 25% were deep tech i.e. it's all about being able to create the new technology or drug.<sup>17</sup>

- 5) Over 2/3 of unicorns were highly differentiated from competition. Less than 1/3 were incrementally differentiated. <sup>18</sup>

What was the market demand?

- 1) More than 60% of unicorns started in large markets with well established demand. They either took market share or expanded the market. About 25% started in medium sized markets. About 15% started in small markets. Few unicorns created new demand or waited for the market to mature. <sup>19</sup>
- 2) 68% of unicorns competed for market share. 32% created a new market. <sup>20</sup>

When did the founders enter the market?

- 1) 30% of the time unicorn was first to the market. 30% of the time 2-5<sup>th</sup> in market. 40% later than 5<sup>th</sup> in the market. <sup>21</sup>

### **What are the characteristics of companies which achieved \$1 billion in revenue?<sup>1</sup>**

- 1) More than 60% of new public companies between 1980 and 2010, no longer existed in 2010. 4% of new public companies achieved \$1 billion in revenue. 34 public companies a year achieved \$1 billion in revenue, regardless of economic cycle. Only 4% of \$1 billion revenue companies make it to \$10 billion in revenue. <sup>2</sup>
- 2) 11,000 companies did IPO since 1980 and to end of 2007. Only 4% (410) grew to \$1 billion in revenue, but 72% of all IPO taxes, 63% of IPO employees (i.e. 9 million), 64% of market value (i.e. \$2.6 trillion), and 69% of all IPO revenue (i.e. \$3 trillion).<sup>3</sup>
- 3) Failing companies had blind passion, did not self correct, did not adjust to changing customer needs, ran out of cash.<sup>4</sup>
- 4) Exponential growth companies continue to grow through tough economic times and recessions.<sup>5</sup>
- 5) Exponential growth companies created and sustained break through value propositions - High order benefits or exceptional value as perceived by customers <sup>6</sup>
- 6) Exponential growth companies exploited high growth market segments: created new markets, redefined markets, or created category killers (i.e. killed incumbents). Imported ideas from other industries. Kept redefining market segments. <sup>7</sup>
- 7) Growing to \$50 million revenue requires brute force speed. Create and grow customer advocacy community and market momentum as quickly as possible. After \$50 million in revenue, have thoughtful speed.<sup>8</sup>
- 8) The key to growing a startup to \$10 million revenue was based on analyzing 2,000 business plans.<sup>9</sup> Create a powerful value proposition. It must address a deep, frequent or changing unmet need. The company has a unique ability to deliver on that need. Contrast the company benefits to the competition. Talk with customers to understand the "frustration" or "What's not working well".<sup>10</sup>

### **What are the characteristics of SaaS unicorns which became public?<sup>1</sup>**

This researched examined 1,000 SaaS companies in Canada and the U.S.s 400 of which became Unicorn by going public. Many of these went public after 2013.

- 1) On average, companies needed \$125 million in revenue to become a unicorn when they went public. This required \$212 million of invested capital. <sup>2</sup>
- 2) The TAM (Total Addressable Market) size when going public needs to be at least \$25 billion.<sup>3</sup> The % of TAM at IPO time can range up to 2.2%.<sup>4</sup> Facebook's yearly revenue at the time of its 2012 IPO was \$4.2 billion. The prospectus stated the addressable market was \$588 billion, thus % revenue was about 0.7% of addressable market.
- 3) Most startups do not reach the IPO point but are acquired. The TAM required for acquisition is much smaller than \$25 billion.
- 4) You need a 50% differential in how customers measure competitive differentiation. Customers perceive quality, speed and cost. The customer's costs may be far higher than what they pay your company. <sup>5</sup>
- 5) You have product market fit when your net promotor score is at least 30 and the % of customers that would be very dissatisfied if they did not have your solution is at least 40%.<sup>6</sup>
- 6) Current year marketing and sales as % of current year revenue. <sup>7</sup> About 63% when revenues are \$10-50 million. About 52% when revenues are \$40-\$250 million. About 38% when revenues are over \$250 million. The implication is that unicorns usually lost money for many years. Investors provided the capital because lifetime customer profitability exceeded the one time customer acquisition costs.
- 7) Current year marketing and sales as a % of next year's revenue should be less than 33% at IPO time. <sup>8</sup>
- 8) The higher the growth rate, the higher the valuation, in terms of revenue multiple. <sup>9</sup>

## What are your next steps?

- 1) Assess your understanding of your customers e.g. how they perceive you, the value they obtain from you, their profitability, etc. Improve your understanding of your customers.
- 2) Review the facts in your plans. Identify the source of each fact.
- 3) Review the assumptions in your plans. Determine if there are facts and analysis which would change your assumption. Be clear on which assumptions are opinions and guesses.
- 4) Be clear on the urgent problems and needs of potential customers and determine how many are actually willing and able to pay for a solution.
- 5) Recognize facts, assumptions, and analysis are only input to the judgements and decisions you make. E.g the amount of revenue you need to be a unicorn when you IPO may be very different from the average.

## Footnotes

<sup>1</sup> Ali Tamaseb, *Super Founders* (New York: Hachette Book Group, 2021)

<sup>2</sup> Ibid., 15

<sup>3</sup> Ibid., 16

<sup>4</sup> Ibid., 17

<sup>5</sup> Ibid., 32

<sup>6</sup> Ibid., 34

<sup>7</sup> Ibid., 44

<sup>8</sup> Ibid., 45

<sup>9</sup> Ibid., 49

<sup>10</sup> Ibid., 51

<sup>11</sup> Ibid., 52

<sup>12</sup> Ibid., 60

<sup>13</sup> Ibid., 67

<sup>14</sup> Ibid., 114

<sup>15</sup> Ibid., 114

<sup>16</sup> Ibid., 117

<sup>17</sup> Ibid., 118

<sup>18</sup> Ibid., 122

<sup>19</sup> Ibid., 131

<sup>20</sup> Ibid., 133

<sup>21</sup> Ibid., 145

<sup>1</sup> David G. Thomson, *Mastering the 7 essentials of high growth companies* (Hoboken, New Jersey: John Wiley & Sons, 2010)

<sup>2</sup> Ibid., 3

<sup>3</sup> Ibid., 9

<sup>4</sup> Ibid., 21

<sup>5</sup> Ibid., 22

<sup>6</sup> Ibid., 32

<sup>7</sup> Ibid., 33

<sup>8</sup> Ibid., 75

<sup>9</sup> Ibid., 163

<sup>10</sup> Ibid., 164

<sup>1</sup> Charles Plant, "Unicorn Math an Algorithm for Rapid Growth", *Narwhalproject.org*, Charles Plant, <https://narwhalproject.org/wp-content/uploads/2020/06/Unicorn-Math.pdf>

<sup>2</sup> Ibid., 3-4

<sup>3</sup> Ibid., 5

<sup>4</sup> Ibid., 6

<sup>5</sup> Ibid., 7

<sup>6</sup> Ibid., 10

<sup>7</sup> Ibid., 11

<sup>8</sup> Ibid., 11

<sup>9</sup> Ibid., 15

**What further reading should you do?**

- 1) Read the two books and website article referenced by the footnotes.
- 2) Do you understand your customers? V2

<https://koorandassociates.org/understanding-customers/do-you-understand-your-customers/>

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