









RAISING CAPITAL SEMINAR SERIES

Module 3: The Proforma: Building a Strong Financial Model

April 2021









Today's presenter

Mike Colwell – Greater Des Moines Partnership

As executive director of entrepreneurial initiatives at the Greater Des Moines Partnership, Mike is directly responsible for the Partnership entrepreneurial strategies and execution. In his role Mike spends his days coaching, mentoring, consulting, networking and generally asking very tough questions, the kinds of questions most entrepreneurs would rather he did not ask. Focusing on high-growth-potential companies, he works with businesses ranging from a single person with an idea to \$10 million companies looking to grow to \$25 million. Mike assists with business strategy, business planning, business plan execution and business model development.

Mike is co-manager of Plains Angels, a Des Moines based group of angel investors. With more than 40 members, Plains Angels has been in existence since 2013 and has been active investing in many local and regional startup companies. Mike and his wife Beth are active angel investors with over 35 investments to-date. Mike has had a key role in the formation of the Global Insurance Accelerator and the Iowa AgriTech Accelerator and serves on the board of both organizations.





A joint collaboration







WELCOME

- Thank you for joining us!
- Logistics:
 - Mute your microphone
 - Turn on your video!
 - Open the chat window and use this for questions
- A recording of this will be available





AGENDA

PREPARE

- Momentum
- Materials
- Relationships

EXECUTE

- Relationships
- Pitches
- Documents

MANAGE

- Negotiations
- Closing
- Relationships

- Module 1: The Fundraising Journey: Steps to Raising Capital
- Module 2: The Pitch: Telling Your Story
- Module 3: The Proforma:
 Building a Strong Financial
 Model

- Module 4: The Cap Table: Who Owns Your Company
- Module 5: The Term Sheet: The Details Matter







Financial Models for Startups

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Financial Models for Startups

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Welcome

- Introductions
- Goals:
 - Familiarize you with financial models for startup companies
 - Provide overview of StartupModels financial model
 - Available for download at https://www.startupmodels.com
 - Answer your questions





What Financial Documents Do You Need?

- Profit and loss statement (P&L)
- Cash flow statement
- Balance sheet (sometimes)

Why Do You Need These Statements?

- Does your company or will your company make money?
- Does your company have enough cash to survive and thrive?
 - Long product development cycles
 - Long sell cycles
 - Large inventory requirements
- What is the company worth today and in the future?

Investors Want a Return on Investment

- Banks: bankable loan with low risk of loss
- Equity investors: seek high growth company with 10x or better returns with acceptable higher risk
 - A \$500K investment for 10% of company with a 10x return (\$5M) equates to a \$50M sale
 - SaaS company with annual reoccurring revenue of \$7.2M at 7x valuation = \$50M value
 - Exit must take place in 5 to 7 years

What is a P&L?

Profit and loss statement (P&L)

| Revenue | \$10,000 |
|--------------------|-----------|
| Cost of revenue | (\$4,000) |
| Gross margin | \$6,000 |
| Operating expenses | (\$4,500) |
| Profit | \$1,500 |

P&L Forecast

- Invest the time and effort to develop a realistic and detailed forecast
- Grounded in realistic assumptions
- First 12-18 months critical and must be supported
- 3-year forecast is normally sufficient
- 5-year projections are often unrealistic
- Some investors want this to see your aspirations

Example P&L Statement

| Report Year | 2019 | | | | | | | | | | | | | |
|--------------------------------|------------|---------|------|----------|----------------|---------------|----|---------|-----|-----------|-------|-------------|------|-------|
| | | | D | | | | | ClinicN | ote | P&L Forec | ast f | for the yea | r 20 | 19 |
| | Revenue Re | | Base | | | 520 | | | | | | 2002 | | -2 |
| _ | | Jan | | Feb | Mar | Apr | | May | | Jun | | Jul | | Aug |
| Revenue | | | | | | | 4 | | | | | | | |
| Subscription Software Revenue | \$ | 1,092 | \$ | 2,561 | \$ 4,644 | \$ 8,069 | \$ | 12,431 | \$ | 19,396 | \$ | 24,576 | \$ | 29,24 |
| Product Revenue | \$ | - | \$ | - | \$ - | \$ - | \$ | - | \$ | - | \$ | | \$ | |
| Professional Services Revenue | \$ | - | \$ | 0.20 | \$ - | \$ - | \$ | 121 | \$ | - | \$ | 12 | Ş | |
| Total Revenue | \$ | 1,092 | \$ | 2,561 | \$ 4,644 | \$ 8,069 | \$ | 12,431 | \$ | 19,396 | \$ | 24,576 | \$ | 29,24 |
| Cost of Goods | | | | | | | | | | | | | | |
| Third Party / Transaction Fees | \$ | 63 | \$ | 136 | \$ 271 | \$ 449 | \$ | 696 | \$ | 1,241 | \$ | 1,269 | \$ | 1,28 |
| Hosting Expenses | \$ | 75 | \$ | 75 | \$ 75 | \$ 75 | \$ | 75 | \$ | 75 | \$ | 75 | \$ | 7 |
| Customer Support | \$ | - | \$ | - | \$ - | \$ - | \$ | - | \$ | 2,603 | \$ | 2,603 | \$ | 2,60 |
| Internal Engineering Support | \$ | 120 | \$ | 1020 | \$ _ | \$ 2 | \$ | _ | \$ | - | \$ | | \$ | |
| Professional Services | \$ | - | \$ | | \$ - | \$ - | \$ | 100 | \$ | - | \$ | - | \$ | |
| Cost of Product Sales | \$ | + | \$ | - | \$ - | \$ - | \$ | - | \$ | - | \$ | | \$ | |
| Total Cost of Goods | \$ | 138 | \$ | 211 | \$ 346 | \$ 524 | \$ | 771 | \$ | 3,919 | \$ | 3,947 | \$ | 3,96 |
| Gross Profit | \$ | 954 | \$ | 2,350 | \$ 4,298 | \$ 7,546 | \$ | 11,660 | \$ | 15,478 | \$ | 20,629 | \$ | 25,28 |
| Gross Margin | | 87.4% | | 91.8% | 92.6% | 93.5% | | 93.8% | | 79.8% | | 83.9% | | 86.4 |
| Operating expenses | | | | | | | | | | | | | | |
| Total Sales expense | \$ | 4,965 | \$ | 4,965 | \$ 4,965 | \$ 4,965 | \$ | 4,965 | \$ | 6,701 | \$ | 6,701 | \$ | 6,70 |
| Marketing expense | \$ | 200 | \$ | 200 | \$ 200 | \$ 200 | \$ | 200 | \$ | 2,450 | \$ | 2,450 | \$ | 2,45 |
| Product Development | \$ | - | \$ | 10,000 | \$ 10,000 | \$ 10,000 | \$ | 10,000 | \$ | 10,000 | \$ | 10,000 | \$ | 10,00 |
| General and Administrative | \$ | 5,210 | \$ | 7,110 | \$ 1,310 | \$ 810 | \$ | 810 | \$ | 8,100 | \$ | 900 | \$ | 1,90 |
| Total Operating expenses | \$ | 10,375 | \$ | 22,275 | \$ 16,475 | \$ 15,975 | \$ | 15,975 | \$ | 27,251 | \$ | 20,051 | \$ | 21,05 |
| Operating Income | \$ | (9,421) | \$ | (19,926) | \$ (12,177) | \$ (8,430) | \$ | (4,316) | \$ | (11,773) | \$ | 578 | Ś | 4,23 |
| Interest Expense | \$ | | \$ | | \$ 18 18 18 | \$ | \$ | . ,, | \$ | ,,, | \$ | 12 | \$ | |
| Other Income | \$ | - | \$ | - | \$ - | \$ - | \$ | - | \$ | - | \$ | - | \$ | |
| Net Income before Taxes | \$ | (9,421) | \$ | (19,926) | \$ (12,177) | \$ (8,430) | \$ | (4,316) | \$ | (11,773) | \$ | 578 | \$ | 4,23 |
| Full Time Headcount | | 2 | | 2 | 2 | 2 | | 2 | | 3 | | 3 | | |
| ruii iiiile neaucouiit | | | | | 2 | | | | | | | | | |



What is a Cash Flow Statement?

Cash flow statement

| Starting cash | \$31,000 |
|------------------|-----------|
| + New investment | \$0 |
| + Revenue | \$10,000 |
| - Expenses | (\$6,000) |
| Ending cash | \$35,000 |

Example Cash Flow Statement

Report Year 2019

Revenue Recognition Based

ClinicNote Cash Flow Forecast for the year 2019

| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | |
|---------------------|---------|----------|------------------|------------------|---------|---------|---------|---------|--|
| Starting Cash | 10,000 | 201,412 | 182,914 | 180,257 | 182,784 | 191,831 | 206,177 | 228,460 | |
| Revenue Received | 1,650 | 3,578 | 13,619 | 18,303 | 24,823 | 39,146 | 39,884 | 40,315 | |
| Cost of Goods | 63 | 2 | | - | - | - | - | | |
| Operating Expenses | 10,175 | 22,075 | 16,275 | 15,775 | 15,775 | 24,801 | 17,601 | 18,601 | |
| Other Income | - | | 5 - 5 | 5 - 5 | | | (*) | | |
| New Investment | 200,000 | 21 | (42) | (14) | 0.20 | - | 121 | 82 | |
| Ending Cash Balance | 201,412 | 182,914 | 180,257 | 182,784 | 191,831 | 206,177 | 228,460 | 250,174 | |
| Change in Cash | 191,412 | (18,498) | (2,657) | 2,527 | 9,047 | 14,345 | 22,283 | 21,714 | |



Cash Flow Management

- Good business operators manage to cash flow
- Know your cash requirements
- Spend wisely, be thrifty
- Delay hiring, be creative
- Reduce salaries or take no salary
- Know your burn rate

Always have a detailed cash flow forecast at least 180 days in length. Manage your cash carefully.

What is a Balance Sheet?

Balance sheet: financial statement that reports a company's assets, liabilities and shareholders' equity at a specific point in time

assets = liabilities + shareholder equity

- Assets = cash, inventory, property, equipment
- Liabilities = rent, wages, utilities, loans, taxes
- Shareholder equity = net of assets and liabilities
 - Not the same as valuation

See blog post in appendix: How to read a balance sheet

Financial Models vs. Accounting Statements

- Accounting statements are factual
 - Deal with past and present
- Financial models are forecasts
 - They are <u>always wrong!</u>
 - They are critical to planning your business
 - They are an ongoing requirement

See blogpost from Fred Wilson of Union Square Ventures: The Financial Function

Knowing your numbers

- Get comfortable with your financials know your numbers
- Be able to explain significant changes
 - Why does revenue go down in Q2?
 - Why does your cash dip next year in Q3?
- Don't pretend to know something you do not

To an investor, if you do not know your numbers, you do not know your business.

Summary: Financial Documents

- These documents matter
- Investors and bankers read these in detail
- An experienced investor can tell an amazing amount about your company by only looking at these documents
- Have an experienced mentor or advisor review these with you before presenting to others
- Don't pretend to know something you do not



Building the Financial Model

There are five steps in building a financial model

- 1- Revenue model (most of the work)
- 2 Product development expenses
- 3 Sales and marketing expenses
- 4 People expenses
- 5 General and operating expenses

Step One: The Revenue Model

The First Step – The Revenue Model

- The revenue model (part of your business model) drives the business and the expense structure
 - People
 - Marketing costs
 - Sales costs
- Where you should focus your attention
 - Physical product focus on cash cycle
 - ■Software / service company focus on sell cycle

A product vs. a Business

- Having a <u>viable</u> revenue model is the mark of a business, not just a product
 - Customers by name
 - Marketing plans with test evidence of effectiveness
- Products are a small part of a successful company
 - ■What makes Apple, Apple?

Sales Cycle

- The process from potential customer identification to money in hand and product / service delivered successfully
- Knowing the marketing and sales portion of the cycle is critical to building a financial model
 - How long from first call or email to a demonstration? What percentage will take the demo?
 - How long from demo to money in hand? What percentage will buy?
 - Will they keep buying?

Cash Cycle

- The amount of time from the point when you start spending money on a customer to when the customer pays you (cash in bank)
- Important in SaaS and <u>critical</u> in hardware companies
- Directly affects how much money you raise

Types of Revenue Models

- There are five common types of revenue models:
 - SaaS high volume
 - ■SaaS high <u>value</u>
 - Physical product / hardware
 - Mixed model (product and either service or SaaS)
 - Service business



SaaS Company Examples

- ClinicNote, Inc.
 - SaaS model high value, low volume
- Art of Peace
 - SaaS model high volume, low value

All financial information provided is fictional

ClinicNote

Features

Pricing

Why Us

About Us

Contact Us

Podcast

Sign In

Cart (0)

Welcome to ClinicNote

Simple. Secure. Dependable.

FREE DEMO

CLOUD-BASED SOFTWARE FOR OUTPATIENT THERAPY

















ClinicNote Revenue Model

- Direct sale
 - Universities Very specific market timing aligned with start of a semester
 - Private Practices
- Indirect / assisted sale
 - Value added reseller
 - Referral / recommendation marketing
 - Not currently pursuing these channels

ClinicNote Direct Sale Revenue Model

- Universities
 - ► ACV (average contract value) = \$6,000
 - Paid up front yearly
 - No direct cost of sale
- Private practices
 - -ACV = \$150 / Month or \$1,200 / year
 - Paid monthly and yearly heavy discount for yearly payment

ClinicNote University Sell Cycle

University sell cycle

| Day#: 1 | 30 | 60 | 90 | 120 | 150 | 180 |
|--|----|--------|-------|-----|-----|-----|
| Prospect demo X Verbal yes IT review Contract review Onboard univ. University pays | X | X X | X | X | Χ | X |

■This is a "quick sale". Some take one year or more

Financial Impact of University Direct Sales

Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec

Prospect Demo: X

Customer commits: X

Contract Signed: X

Cash received: \$6,000

Rev \$ Recognized: \$500 \$500 \$500 \$500

Cash flow increases \$6,000 but only \$2,000 revenue recognized (\$6,000 / 12 = \$500) in fiscal year

ClinicNote Private Practice Sell Cycle

Private practice sell cycle

```
Day#: 1 3 30

Prospect demo X

Verbal yes X

Onboard practice X

Practice pays X-----X
```

- This is the average private practice sale
- Referral sale and value-added reseller will be similar timeframe

Financial Impact of Private Practice Sales (monthly)

```
Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec
```

Prospect Demo: X Customer commits: X

Monthly payment negates need for revenue recognition

Financial Impact of Private Practice Sales (yearly)

 Jan
 Feb
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 Oct
 Nov
 Dec

 Prospect Demo:
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 Customer commits:
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Payment in April of \$1,200 cash but only \$900 In recognized revenue

Summary: ClinicNote Sell Cycle

- Everyone underestimates the sell cycle, most by a factor of 2 or 3
 - Sometimes the earliest deals are the fastest and later deals take longer and are harder to close
- Different customer types have different sell cycles
 - University large organization, process bound, slow!
 - Private practice very small organization (average 4 users), single decisionmaker, fast!

Art of Peace (fictitious company)

- Mobile app developer for those seeking peace in their lives
- Direct sale
 - **\$89.95**
 - App store on Google and Apple
 - Apple and Google take 30% of sales for app store fees

Art of Peace App Store Sell Cycle

App store sell cycle

Day#: 1 3 30

App store X X X X X purchase App X store pays

Google and Apple vary slightly from each other but in general they pay ever 30 days

Financial Impact of Art of Peace Sales

| | Jan | reb | Mar | Apr | May | Jun | JUI | Aug | sep |
|------------------|------|-------|--------|-----|-----|-----|-----|-----|-----|
| Purchase Qty | 1 | 10 | 100 | | | | | | |
| Purchase: | \$90 | \$900 | \$9,00 | 00 | | | | | |
| App Store Fee | \$27 | \$270 | \$2,70 | OC | | | | | |
| Co marketing Fee | \$11 | \$110 | \$1,1 | 00 | • • | ··> | > | | |
| Cash received: | \$52 | \$520 | \$5,2 | 00 | | | | | |
| Total Cash | \$52 | \$572 | \$5,9 | 20 | | | | | |

Summary: Art of Peace

- Deceptively simple model
- Debate on revenue recognition requirement
- Live and die on renewals
- Marketing is the challenge
 - Driving user interest
 - Keeping high retention of users
 - Many apps are now one-time fees



Data Elements for High Value SaaS

- Customer Name
- Contract / Prospect
- Likelihood of close
- License Fee
- Renewal period in months
- Revenue Share percentage
- Commission percentage

- One time fee
- Cost of one-time fee
- Payment delay
- Credit card transaction?
- Sale month and year
- End of license month and year

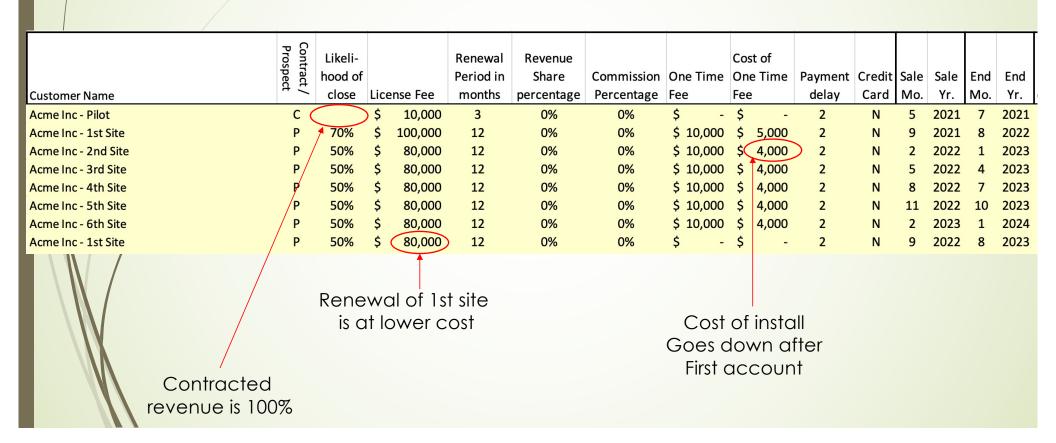
Example – High Value SaaS

- Customer agrees to pilot then potential rollout of SaaS solution
- 30 day install, 90 day paid pilot, First site live in 6 months, 5 additional sites to follow over time
 - No fee for pilot install
 - \$10K fee 90 day pilot
 - First site \$100K per year first year then \$80K / year for additional sites. Install fee of \$10K per site
 - Follow-on sites \$80K per year plus \$10K install

Example – High Value SaaS

- Pilot \$10K recognized over 3 months from contract date
 - 100% confidence in sale
- ► First site \$100K recognized over 12 months from contract date plus 10K fee – 60% confidence
 - Confidence below 100% is <u>discounted proportionately</u>
- Separate forecast for each additional site, \$80K over
 12 months plus \$10K one time 50% confidence
- Critical issue: Reoccurring Revenue (MRR, ARR)
 - Every site has separate timing
 - One time install revenue is not counted
- Example in Excel sheet

Using the Model – High Value SaaS



The Results P&L 2021 – High Value SaaS

| | | Report Year | 2021 | | | | | | | | | | | | | | | | | | | |
|----------|-----------|-----------------------|--------|---------------|------|--------|---------|---------|----|------------|-----|-----------|------|-------------|------|----------|--------------|-------------|-------------|-------------|----|--------|
| | | | | | | | | | G | IA March 2 | 021 | Class P&L | Fore | cast for th | ne y | ear 2021 | | | | | | |
| | | | Revenu | e Recognition | Base | ed | | | | | | | | | | | | | | | | |
| | | | | Jan | | Feb | Mar | Apr | | May | | Jun | | Jul | | Aug | Sep | Oct | Nov | Dec | To | tal |
| Revenu | e | | | | | | | | | | | | | | | | | | | | | |
| Su | ubscript | tion Software Revenue | | \$ - | \$ | - | \$ - | \$ - | \$ | 3,333 | \$ | 3,333 | \$ | 3,333 | \$ | - | \$ 5,833 | \$ 5,833 | \$ 5,833 | \$ 5,833 | \$ | 33,333 |
| Pr | roduct F | Revenue | | \$ - | \$ | - | \$ - | \$ - | \$ | - | \$ | - | \$ | - | \$ | - | \$ - | \$ - | \$ - | \$ - | \$ | - |
| Pr | rofessio | nal Services Revenue | | \$ - | \$ | - | \$ - | \$ - | \$ | - | \$ | - | \$ | - | \$ | - | \$ 7,000 | \$ - | \$ - | \$ - | \$ | 7,000 |
| Total Re | evenue | | | \$ - | \$ | - | \$ - | \$ - | \$ | 3,333 | \$ | 3,333 | \$ | 3,333 | \$ | | \$ 12,833 | \$ 5,833 | \$ 5,833 | \$ 5,833 | \$ | 40,333 |
| Cost of | Goods | | | | | | | | | | | | | | | | | | | | | |
| Th | hird Par | ty / Transaction Fees | | \$ - | \$ | - | \$ | \$ - | \$ | - | \$ | | \$ | | \$ | | \$ | \$ - | \$ - | \$ - | \$ | - |
| He | osting E | xpenses | | \$ - | \$ | - | \$ - | \$ - | \$ | - | \$ | - | \$ | - | \$ | - | \$ - | \$ - | \$ - | \$ - | \$ | - |
| Cı | ustomer | r Support | | \$ - | \$ | - | \$ - | \$ - | \$ | - | \$ | - | \$ | - | \$ | - | \$ - | \$ - | \$ - | \$ - | \$ | - |
| In | ternal E | Engineering Support | | \$ - | \$ | - | \$ - | \$ - | \$ | - | \$ | - | \$ | - | \$ | - | \$ - | \$ - | \$ - | \$ - | \$ | - |
| Pr | rofessio | onal Services | | \$ - | \$ | - | \$ - | \$ - | \$ | - | \$ | - | \$ | - | \$ | - | \$ 3,500 | \$ - | \$ - | \$ - | \$ | 3,500 |
| Co | ost of Pi | roduct Sales | | \$ - | \$ | - | \$ - | \$ - | \$ | - | \$ | - | \$ | - | \$ | - | \$ - | \$ - | \$ - | \$ - | \$ | - |
| Total Co | ost of G | oods | | \$ - | \$ | - | \$ - | \$ - | \$ | - | \$ | - | \$ | - | \$ | - | \$ 3,500 | \$ - | \$ - | \$ - | \$ | 3,500 |
| Gross P | rofit | | | \$ - | \$ | - | \$ - | \$ - | \$ | 3,333 | \$ | 3,333 | \$ | 3,333 | \$ | - | \$ 9,333 | \$ 5,833 | \$ 5,833 | \$ 5,833 | \$ | 36,833 |
| Gross M | largin | | | 100.09 | 6 | 100.0% | 100.0% | 100.0% | | 100.0% | | 100.0% | | 100.0% | | 100.0% | 72.7% | 100.0% | 100.0% | 100.0% | á | 91.39 |

The Results P&L 2022 – High Value SaaS

| Report Year | 2022 | ~ | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|--------|--------|------------|-------|--------|-------------|-------------|----|------------|-----|-----------|------|--------------|------|----------|--------------|--------------|--------------|--------------|-----|---------|
| nopolitica. | | | | | | | | G | IA March 2 | 021 | Class P&L | Fore | ecast for th | ie y | ear 2022 | | | | | | |
| | Revenu | ie Rec | ognition l | Based | t | | | | | | | | | | | | | | | | |
| | | | Jan | | Feb | Mar | Apr | | May | | Jun | | Jul | | Aug | Sep | Oct | Nov | Dec | Tot | al |
| Revenue | | | | | | | | | | | | | | | | | | | | | |
| Subscription Software Revenue | | \$ | 5,833 | \$ | 9,167 | \$ 9,167 | \$ 9,167 | \$ | 12,500 | \$ | 12,500 | \$ | 12,500 | \$ | 15,833 | \$ 13,333 | \$ 13,333 | \$ 16,667 | \$ 16,667 | \$ | 146,667 |
| Product Revenue | | \$ | - | \$ | - | \$ - | \$ - | \$ | | \$ | - | \$ | - | \$ | - | \$ | \$ - | \$ - | \$ - | \$ | - |
| Professional Services Revenue | | \$ | _ | \$ | 5,000 | \$ - | \$ - | \$ | 5,000 | \$ | - | \$ | - | \$ | 5,000 | \$ - | \$ | \$ 5,000 | \$ - | \$ | 20,000 |
| Total Revenue | | \$ | 5,833 | \$ | 14,167 | \$ 9,167 | \$ 9,167 | \$ | 17,500 | \$ | 12,500 | \$ | 12,500 | \$ | 20,833 | \$ 13,333 | \$ 13,333 | \$ 21,667 | \$ 16,667 | \$ | 166,667 |
| Cost of Goods | | | | | | | | | | | | | | | | | | | | | |
| Third Party / Transaction Fees | | \$ | - | \$ | - | \$ - | \$ - | \$ | - | \$ | - | \$ | - | \$ | - | \$ - | \$ - | \$ - | \$ - | \$ | - |
| Hosting Expenses | | \$ | - | \$ | - | \$ - | \$ - | \$ | | \$ | - | \$ | - | \$ | - | \$ - | \$ - | \$ - | \$ - | \$ | - |
| Customer Support | | \$ | - | \$ | - | \$ - | \$ - | \$ | - | \$ | - | \$ | - | \$ | - | \$ - | \$ - | \$ - | \$ - | \$ | - |
| Internal Engineering Support | | \$ | - | \$ | - | \$ - | \$ - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | \$ - | \$ - | \$ - | \$ | - |
| Professional Services | | \$ | - | \$ | 2,000 | \$ - | \$ - | \$ | 2,000 | \$ | - | \$ | - | \$ | 2,000 | \$ - | \$ - | \$ 2,000 | \$ - | \$ | 8,000 |
| Cost of Product Sales | | \$ | - | \$ | - | \$ - | \$ - | \$ | - | \$ | - | \$ | - | \$ | - | \$ - | \$ - | \$ - | \$ - | \$ | - |
| Total Cost of Goods | | \$ | - | \$ | 2,000 | \$ - | \$ - | \$ | 2,000 | \$ | - | \$ | - | \$ | 2,000 | \$ - | \$ - | \$ 2,000 | \$ - | \$ | 8,000 |
| Gross Profit | | \$ | 5,833 | \$ | 12,167 | \$ 9,167 | \$ 9,167 | \$ | 15,500 | \$ | 12,500 | \$ | 12,500 | \$ | 18,833 | \$ 13,333 | \$ 13,333 | \$ 19,667 | \$ 16,667 | \$ | 158,667 |
| Gross Margin | | | 100.0% | 5 | 85.9% | 100.0% | 100.0% | | 88.6% | | 100.0% | | 100.0% | | 90.4% | 100.0% | 100.0% | 90.8% | 100.0% | | 95.2% |

Data Elements for High Volume SaaS

- Unit price per period
- Renewal rate
- Sales Commission
- Renewal period in months
- Average payment delay
- Percentage of revenue received via credit card

- Percent of sales with commission
- Monthly unit forecast
- Dependent revenue by license type
 - Percent of units sold
 - ► Fee value
 - Fee cost
 - Fee timing offset

Example – High Volume SaaS

- Selling B2B software on monthly or annual subscription
 - ■\$199/year or \$29/month with expected 80% renewal rate
 - ▶90% paid by credit card
 - Commission of 45% on yearly sales for 70% of transactions
 - No commission on monthly sales
 - Training module sold as add-on
 - ▶\$89 one-time fee on 30% of yearly and 20% of monthly
 - ■No direct cost to training module as it is video based
- Example in Excel sheet

Using the Model – High Volume SaaS

| License Sales | © 2021 Michael Colwell - all rights res | erved | | | | | | | | | | | | | |
|------------------|---|-------------------|-------------|----------------|-------------|--------------|------------|------|------|------|-------|-------|-------|---------|---------|
| | | | Payment | t Delay (non c | redit card) | in months: | 1 | | | | | | | | |
| | | | | Percent of re | evenue via | credit card: | 90% | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | 2021 | l . |
| | | | Renewal | | | Sales | Percent of | | | | | | | | |
| | License Revenue | | Period in | Unit Price / | Renewal | Comission | sales with | | | | | | | | |
| License Name | | | months | period | Rate | rate | commission | Jan | Feb | Mar | Apr | May | Jui | n Ju | ıl |
| Monthly licenses | Forecasted New Monthly licenses Uni | t Sales | 1 | \$29.00 | 80% | 0% | 0% | 5 | • | 5 | 32 | 46 | 38 | 31 | 7 |
| | Forecasted Renewal Monthly licenses | Unit Sales | | | | | | 0 | | 4 | 15 | 38 | 67 | 84 | 9 |
| | Actual New Monthly licenses Unit Sale | es | | | | | | | | | | | | | |
| | Actual Renewal Monthly licenses Unit | Sales | | | | | | | | | | | | | |
| Yearly license | Forecasted New Yearly license Unit Sa | les | 12 | \$199.00 | 80% | 45% | 70% | 2 | | 7 | 15 | 37 | 21 | 52 | 5 |
| | Forecasted Renewal Yearly license Uni | t Sales | | | | | | 0 | | 0 | 0 | 0 | 0 | 0 | 1 |
| | Actual New Yearly license Unit Sales | | | | | | | | | | | | | | |
| | Actual Renewal Yearly license Unit Sale | es | | | | | | | | | | | | | |
| | | Percent | | | | | | | | | | | | | |
| | | Units | | | Fee | | Fee Timing | | | | | | | | |
| | Dependent Revenue | Sold | Fee Tri | ggered by: | Value | Fee Cost | Offset | | | | | | | | |
| | Traning Module | 20% | Monthly I | licenses | \$89 | 0 | 0 | \$89 | \$26 | 67 5 | \$534 | \$801 | \$712 | \$534 | \$1,33 |
| | Traning Module | 30% | Yearly lice | | \$89 | 0 | 0 | \$89 | \$17 | 70 | \$445 | \$979 | \$534 | \$1,424 | \$1,513 |

The Results P&L – High Volume SaaS

| | Report Year | 2021 | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------|--|---|---|---|--|---------------------------------------|---------------------------------------|---|---|---|--|--|--|--|-------------------------------|-------------------------------|--|---|---|------------------------------|--|---|---|--|--|-----------------------|-----------------------|
| | | | | | | | | | | G | IA March 2 | 021 | Class P&L | Fore | cast for th | ie y | ear 2021 | | | | | | | | | | |
| | | Revenu | e Recogniti | ion Ba | ased | | | | | | | | | | | | | | | | | | | | | | |
| | | | Jan | | Feb | | Mar | | Apr | | May | | Jun | | Jul | | Aug | | Sep | | Oct | | Nov | | Dec | Tot | tal |
| nue | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Subscri | ption Software Revenue | | \$ 1 | L78 | \$ 70 | 0 \$ | 1,767 | \$ | 3,441 | \$ | 4,405 | \$ | 5,557 | \$ | 8,027 | \$ | 10,821 | \$ | 12,838 | \$ | 14,845 | \$ | 16,112 | \$ | 15,951 | \$ | 94,643 |
| Product | t Revenue | | \$ | - | \$ | - \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - |
| Professi | ional Services Revenue | | \$ 1 | L78 | \$ 44 | 5 \$ | 979 | \$ | 1,780 | \$ | 1,246 | \$ | 1,958 | \$ | 2,848 | \$ | 3,560 | \$ | 3,026 | \$ | 3,293 | \$ | 2,581 | \$ | 1,691 | \$ | 23,585 |
| Revenu | e | | \$ 3 | 356 | \$ 1,14 | 5 \$ | 2,746 | \$ | 5,221 | \$ | 5,651 | \$ | 7,515 | \$ | 10,875 | \$ | 14,381 | \$ | 15,864 | \$ | 18,138 | \$ | 18,693 | \$ | 17,642 | \$ | 118,228 |
| of Goods | S | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Third Pa | arty / Transaction Fees | | \$ | 19 | \$ 6 | 4 \$ | 145 | \$ | 315 | \$ | 253 | \$ | 430 | \$ | 544 | \$ | 691 | \$ | 656 | \$ | 721 | \$ | 610 | \$ | 526 | \$ | 4,973 |
| Hosting | Expenses | | \$ | - | \$ | - \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - |
| Custom | er Support | | \$ | - | \$ | - \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - |
| Internal | Engineering Support | | \$ | - | \$ | - \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - |
| Professi | ional Services | | \$ | - | \$ | - \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - |
| Cost of | Product Sales | | \$ | - | \$ | - \$ | ; - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - |
| Cost of | Goods | | \$ | 19 | \$ 6 | 4 \$ | 145 | \$ | 315 | \$ | 253 | \$ | 430 | \$ | 544 | \$ | 691 | \$ | 656 | \$ | 721 | \$ | 610 | \$ | 526 | \$ | 4,973 |
| s Profit | | | \$ 3 | 337 | \$ 1,08 | 1 \$ | 2,601 | \$ | 4,905 | \$ | 5,398 | \$ | 7,086 | \$ | 10,332 | \$ | 13,690 | \$ | 15,208 | \$ | 17,417 | \$ | 18,083 | \$ | 17,116 | \$ | 113,254 |
| Margin | | | 94 | 1.8% | 94.4 | % | 94.7% | | 94.0% | | 95.5% | | 94.3% | | 95.0% | | 95.2% | | 95.9% | | 96.0% | | 96.7% | | 97.0% | , | 95.8% |
| 5 | Subscri Product Profess Revenu of Good Third P Hosting Custom Interna Profess Cost of Cost of Profit | Subscription Software Revenue Product Revenue Professional Services Revenue Revenue of Goods Third Party / Transaction Fees Hosting Expenses Customer Support Internal Engineering Support Professional Services Cost of Product Sales Cost of Goods | Revenue Subscription Software Revenue Product Revenue Professional Services Revenue Revenue of Goods Third Party / Transaction Fees Hosting Expenses Customer Support Internal Engineering Support Professional Services Cost of Product Sales Cost of Goods Profit | Revenue Recognit Jan nue Subscription Software Revenue Product Revenue Professional Services Revenue \$ 5 Froduct Revenue \$ 7 Froduct Revenue \$ 7 | Revenue Recognition B. Jan nue Subscription Software Revenue Product Revenue Professional Services Revenue \$ 178 Revenue \$ 356 of Goods Third Party / Transaction Fees Hosting Expenses Customer Support Internal Engineering Support Professional Services \$ - Cost of Product Sales Cost of Goods \$ 19 Profit | Revenue Recognition Based Jan Feb | Revenue Recognition Based Jan Feb | Revenue Recognition Based Jan Feb Mar | Revenue Recognition Based Jan Feb Mar | Revenue Recognition Based Jan Feb Mar Apr | Revenue Recognition Based Subscription Software Revenue Subscription S | Revenue Recognition Based Subscription Software Revenue Subscription Subscrip | Revenue Recognition Based Subscription Software Revenue Subscription Subscript | Revenue Subscription Software Revenue Subscription | Revenue Recognition Based | Revenue Recognition Based | Revenue Reve | Revenue Recognition Feb Mar Apr May Jun Jul Aug | Revenue Recognition Feb Mar Apr May Jun Jul Aug May May | Revenue Recognition Base | Revenue Recognition Subscription Software Revenue Subscription Su | Revenue Recognition Based Mar May Jun Jul Aug Sep Oct | Revenue Recognition Based Mar Apr May Jun Jul Aug Sep Oct | Revolute Recognition Based Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nover Nover | Revenue Recognition Recognitio | Revenue Revenue S | Revenue Revenue S |

Summary – SaaS Forecast Data Elements

- Investors will ask for a customer list and forecast for high value SaaS businesses
- Investors expect accurate, thoughtful forecasts
- No forecast is accurate, but the assumptions are critical
- Keep this updated over time. Your forecast is essential to business planning



LTV to CAC Ratio

- SaaS models often focus on LTV to CAC ratio (I think this is outdated)
 - CAC = Customer Acquisition Cost
 - Total sales and marketing expenses / number of new customers acquired = CAC
 - ▶ITV = Lifetime Value
 - Average monthly revenue per customer X customer lifetime in months = LTV (Yearly is same formula using yearly numbers)
 - ■LTV / CAC Ratio = Divide the LTV by the CAC
 - E Commerce LTV is a different equation and up for debate

LTV to CAC Ratio

- ClinicNote university example
 - Yearly sales and marketing costs = \$71,000
 - Yearly average revenue per customer = \$6,500
 - ■21 new customers in last year
 - Average life of customer 4 years (est.)
 - \blacksquare CAC = \$71,000 / 21 = \$3,381
 - ►LTV = \$6,500 * 4 = \$26,000
 - ►LTV / CAC ratio= 26,000 / \$3,381 = 7.7

MTR - Better Measurement for Early Stage

- MTR Months To Repay
- ClinicNote has a CAC of \$3,381
- Average contract value = \$6,000
- MTR focuses on payback period
 - 6.7 months for example above
- The cash flow impact is the key

MTR =
$$CAC / (ACV/12)$$

MTR = \$3,381 / (\$6,000/12) = 6.762

How Revenue is Recognized in SaaS Sales

- Revenue is earned over time of service
- Cash is recognized when you receive it
- Example: 12 mo. SaaS license sale for \$6,000

| , | y Extraction Time | | | | | Lil S | idekick (sim | ulation) P&L | Forecast for t | he year 2019 | | | | | |
|---|---------------------|-----|----------------|--------|--------|--------|--------------|--------------|----------------|----------------|--------------|--------|--------|--------|---------|
| | | | ognition Based | | | | | | 55 30 | | | | | | 1000 10 |
| | | | Jan F | eb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
| | Revenue Revenue | (| 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 6,000 |
| | Cost of Revenue | | | | - | | | | | - | - | - | - | - | - |
| | Commissions | | 040 | 141 | 62 | (2 | 2 | - | 2 | - | 2 | (42) | | 192 | 141 |
| | Gross Profit | | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 6,000 |
| | | | | | | | | | | | | | | | |
| | | | | | | | Lil Sidekick | (simulation) | Cash Flow F | orecast for th | ne year 2019 | | | | |
| | | | Jan | Feb | Mar | Apr | May | Ju | n | Jul | Aug | Sep | Oct | Nov | Dec |
| | Starting Cash | 200 | 10,000 | 16,000 | 16,000 | 16,000 | 16,0 | 000 1 | 6,000 | 16,000 | 16,000 | 16,000 | 16,000 | 16,000 | 16,000 |
| | Revenue Received | | 6,000 |) - | - | | | | | - | - | - | 9.7 | - | 87.6 |
| | Commissions | | - | 5-3 | e e | | | * | 8 | | - | - | 0.50 | - | 383 |
| | Credit Card Fees | | - | - | 12 | 8 | | 2 | 2 | 2 | - | 2 | (12) | - | |
| | Inventory | | - | - | - | | | - | 8 | - | - | - | - | - | |
| | Operating Expenses | | - | | | | | in. | 5 | - | - | 7. | 875 | - | 15 |
| | New Investment | | 020 | - | [2 | 6 | | 2 | 2 | 2 | 2 | 2 | (0)=3 | 120 | 140 |
| | Ending Cash Balance | | 16,000 | 16,000 | 16,000 | 16,000 | 16,0 | 000 1 | 6,000 | 16,000 | 16,000 | 16,000 | 16,000 | 16,000 | 16,000 |
| | Change in Cash | | 6,000 | - | | | | × | | | | | | | (*) |

SaaS Cost of Revenue

- Elements include:
 - Hosting
 - 3rd Party web fees such as content delivery, embedded software, embedded services
 - Support personnel costs
 - Customer onboarding costs
 - Credit card fees (debate on this point)

Seasonality in All Revenue Models

- Key failure in many models is not addressing the seasonality of the business
- Consumer products
 - Holidays, weather, sporting seasons
 - Procurement seasons and windows for major retailers
- Vertical market products
 - Tradeshow seasons
 - Budget cycles
 - End-of-year issues
 - Busy seasons

SaaS Model Valuations

- SaaS businesses are valued on a multiple of annual reoccurring revenue
 - Influenced by many factors including growth rate, margin, reoccurrence rates, barriers to entry, market share, etc.
- Typical valuations currently are 5 to 10 times annual reoccurring revenue (ARR)

\$3.5M ARR = \$17.5M to \$35M in valuation

SaaS Model Valuations



See Appendix:

Private SaaS

Company

Valuations: 2021

What is My SaaS Company Worth?

- To determine what your private SaaS company is worth:
 - 1 Find the current revenue multiple of public SaaS companies growing at a similar rate
 - 2 Subtract 2 to get the discounted private SaaS company multiple
 - 3 Multiply your company's trailing 12-month revenue by the discounted private SaaS company multiple
- This is a <u>very simplistic</u> estimate

Summary: SaaS company valuations

- The key to a software or service business is reoccurring revenue
- Common for a large SaaS company to be valued at 6 to 12 times revenue
 - \$1M / year revenue = company value of \$6M to \$12M
- Estimating the reoccurrence rate is very hard
 - What percent of current customers will renew?
 - Few achieve 90% per year

Physical product company examples

- Lil' Sidekick
 - Physical product mass market
- FarrPro
 - Physical product vertical market

All financial information provided is fictional





HOME

SHOP

MADE BY A MOM

CONTACT

CART (0)

Time to sellable product = 3 years



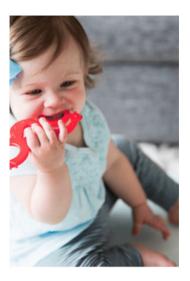




Teether/Sippy Cup & More Holder \$9.99

Stop the Drop Game with our multi-functional tether!

• Adjust to secure any item (Teethers, Spoons, Sippy





Yummeez Flavored Teether \$7.99

Yummeez is a breakthrough in the teething industry. It is the world's first and only truly flavored teether, that brings much needed relief for lil' ones.

Lil' Sidekick Revenue Models

- Sell to big box store (Walmart is largest customer)
- Sell on Amazon
- Sell through distribution
- Sell international
- Sell direct from website

Each of these models have different prices, costs, timing, and payment terms

Lil' Sidekick Walmart Cash Cycle

- 25% margin to Lil' Sidekick
- Monthly10,000 unit at \$4 per unit purchase order
- Cost of unit = \$3
- ■\$40K revenue, \$30K cost, \$10K gross margin
- Impact of monthly \$40K orders is significant
- Every week starting 30 days later they owe \$30K to the manufacturer

Lil' Sidekick Walmart Cash Cycle

Walmart cash cycle

| Day#: | 1 35 | 93 | |
|-----------------------------------|------|----|---|
| Walmart order Mfr. P.O. placed | | | , |
| Product received | X | | |
| Pay mfr. Ship order | X | | |
| Walmart recv'd Walmart pays | | X | |

Financial Impact of Walmart

| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|----------------|-----|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|
| Revenue | | \$40K | \$40K | \$40K | \$40K | \$40K |
| Mfr Payment: | | -\$30K | -\$30K | -\$30K | -\$30K | -\$30K |
| Cash received: | | | | \$40K | \$40K | \$40K | \$40K | \$40K | \$40K | \$40K | \$40K | \$40K |
| Net Cash | | -\$30K | -\$60K | -\$50K | -\$40K | -\$30K | -\$20K | (-\$10K | \$OK | \$10K | \$20K | \$30K |

Revenue of \$440,000, ending cash \$30K Time to cash positive: 7 months

Lil' Sidekick International Cash Cycle

- 40% margin to Lil' Sidekick
- Minimum order is 1000 units at \$7.50 per unit price
- Unit cost is \$4.50
- Distributor pays at time of shipment

Lil' Sidekick International Cash Cycle

Sell via international cash cycle

| Day#: 1 | 33 | |
|----------------------|----|--|
| Distributor orders X | | |
| Mfr. P.O. placed X | | |
| Product | X | |
| received | X | |
| Pay mfr. | X | |
| Ship to | X | |
| distributor | | |
| Distributor pays | | |

Financial Impact of International

| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|----------------|-----|-----|---------|---------|------|--------|--------|-----|--------|---------|-------|----------|
| Revenue | | | \$ | 57,500 | | | \$7,50 | 0 | | \$7,50 | 0 | |
| Mfr Payment: | | | - | \$4,500 |) | | -\$4,5 | 00 | | -\$4,50 | 00 | |
| Cash received: | | | \$7,500 | | | \$7,50 | 0 | | \$7,50 | 00 | | \$7,500 |
| Net Cash | | Ç | \$7,500 | \$3,00 | 0 \$ | 310,50 | 0,62 | 000 | \$13,5 | 00 \$9, | 000 5 | \$16,500 |

Revenue \$22,500, ending cash \$16,500



HAVEN The perfect microclimate for newborn pigs! FIELD TESTED. SCIENTIFICALLY PROVEN.

FarrPro Revenue Models

- Direct sale
 - Large producers
 - ■Sales process pilot first, then rollout
- Indirect / assisted sale
 - Value added reseller

FarrPro Direct Sale Cash Cycle

- List price \$995, average sale price \$742
 - Use average sale price to deal with discounting
- Margins 39% to 54% depending on volume ordered
- Customer pays 30 days after order received
- 60 days from order to delivery by manufacturer. Must pay mfr at time of order
- Offers discounts for cash in advance or cash on delivery

FarrPro Direct Sale Cash Cycle

Direct sale cash cycle

| Day#: 1 | 30 | 60 | 90 |
|-------------------------------------|----|----|----|
| Customer order X | | | ĺ |
| Mfr. P.O. placed X Product received | | V | |
| Pay mfr. x | | ^ | |
| Ship order | | Χ | |
| Customer pays | | | X |

Financial Impact of Direct Sales

Example: 10 units / mo. 50% margin

| | | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---|--------------------------------|--------|--------|-------------|-------------|-------------|-------------|-----------------|-------------|-------------|-------------|-------------|-------------|
| / | Order quantity Revenue | 10 | 10 | 10 7,420 | 10 7,420 | 10 7,420 | 10 7,420 | 10 7,420 | 10 7,420 | 10 7,420 | 10 7,420 | 10 7,420 | 10 7,420 |
| / | Mfr Payment: Cash received: | -3,710 | -3,710 | -3,710 | | | | -3,710 7,420 | | | | | |
| ′ | Net Cash | -3,710 | -7420 | -3,710 | 0 | 3,710 | 7,420 | 11,130 | 14,840 | 18,550 | 22,260 | 25,97 | 0 29680 |

Revenue of \$74,200, ending cash \$29,680 – could be much worse

FarrPro Indirect Cash Cycle

- List price \$995, average sale price \$625
- Margins 31% to 40% depending on volume ordered
- Distributor pays on order received
- 60 days from order to delivery by manufacturer. Must pay mfr at time of order

FarrPro Indirect Cash Cycle

Indirect cash cycle

| Day# | : 1 | 30 | 60 | 90 |
|---------------------------------------|-----|----|----|----|
| Distributor order Mfr. P.O. placed | | | | |
| Product received | | | X | |
| Pay mfr. | Χ | | | |
| Ship order | | | Χ | |
| Distributor Pays | | | Χ | |

Financial Impact of Indirect Sales

Example: 10 units / mo. 40% margin

| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|----------------|-----|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Order quantity | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Revenue | | | 6,678 | 6,678 | 6,678 | 6,678 | 6,678 | 6,678 | 6,678 | 6,678 | 6,678 | 6,678 |

Mfr Payment: Cash received:

-3,710 -3,710 -3,710 -3,710 -3,710 -3,710 -3,710 -3,710 -3,710 -3,710 -3,710

Net Cash

-3,710 -7400 -2,968 0 2,968 5,936 8,904 11,872 14,840 17,808 20,776 23,744

Revenue of \$74,200, ending cash \$23,744

Physical Product Costs Change Over Time

Costs are very different depending on the stage of the product

```
Prototyping / Testing / Certification / Selling / Scaling
```

Optimize for the "selling" phase

Cash Flow Modeling for Complex Products

- FarrPro product is made up of many components from many suppliers
- You will not buy exact quantities of each part for each order
 - 10 screws = \$10.00 1,000 screws = \$25.00
 - Minimum order quantities for certain parts
- As you grow, the operational aspects of this issue grow along with the opportunities for cost reduction
 - More cash allows lower costs

Summary - Different Selling Approaches

- Each approach likely reaches different customers
- Examine profitability, cash flow and resource requirements of each approach
 - International can be very cash friendly
- Focus on biggest long-term opportunity
- Keep in mind who owns the customer relationship
 - You want to own this relationship if possible

Summary: Physical Product Cash Cycle

- Selling physical product with extended terms and low margins is a brutal business
- Compare the amount of gross margin per sale to the frequency of sale and the length of the cash cycle
 - 10% gross margin on a product you sell 50 times per year may be good if the cash cycle is 10 days and you pay net 30
 - ► 50% gross margin on a product you sell once a year is probably bad if the cash cycle is 9 months

Summary: Physical Product

Once you get past the beginning cash crunch, these can be very lucrative if the margins are good

- Focus on improving margins over time
 - Increase purchase volume
 - Buy raw materials in larger volume
 - Get competitive bids to your current suppliers
- Focus on gaining better payment terms from your manufacturer
- Beware of commissioned sales long term

Summary of first step! (50+ slides later...)

- The revenue model defines much of your expense structure and amounts
- What remains to document include:
 - Product development
 - Sales and marketing expenses
 - People
 - General and operating expenses

Step Two: Product Development

The Second Step: Software Product Dev. Cost

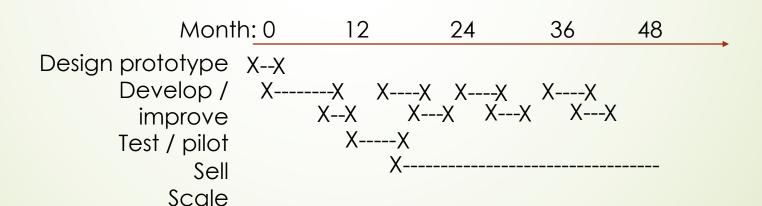
- Product development costs are all the costs of bringing your product to market and maintaining the product in the market
 - ■Software development
 - 3rd party APIs, libraries, contract development, user testing
 - Support, ongoing updates, certifications

The Second Step: Software Product Dev. Cost

- Software = \$200,000 to \$5 million up front
- Ongoing maintenance and upgrades
 - New features, upgrades
 - Browsers change constantly
 - Standards such as HIPPA change
 - APIs change
 - Partner companies go away or change business models
 - ClinicNote has a billing partner for insurance billings
 - Unexpected items such as ADA compliance for government funded entities

The Second Step: Software Product Dev. Cost

- Software development
 - Design, prototypes
 - Development
 - Pilot, testing
- Development is never done

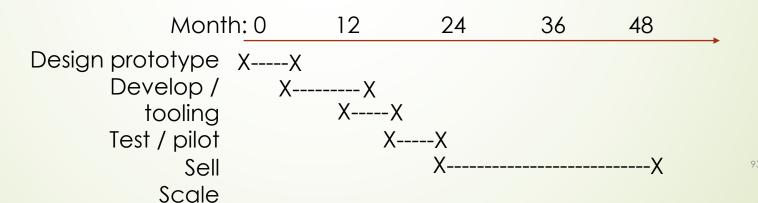


The Second Step: Hardware Product Dev. Cost

- Product development costs are all of the costs of bringing your product to market and maintaining the product in the market
 - Product development
 - Design, develop, package, produce, test, certify
 - Packaging (unit and case)
 - Packaging test and certification

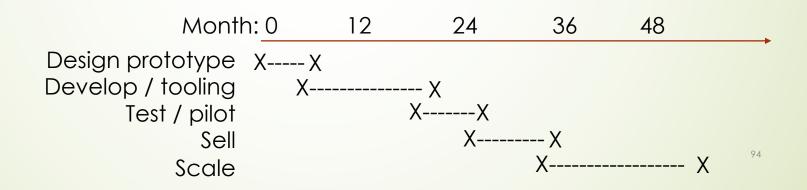
The Second Step: Hardware Product Dev. Cost

- Simple plastic part = \$50,000 to \$150,000
 - Design engineering, tooling, prototypes
 - Pilot, testing, and certification
 - Packaging anticipate updates
- Expect tool and packaging changes over time



The Second Step: Hardware Product Dev. Cost

- Electronic devices = \$2 to \$50 million
 - Large team of people
 - Significant outside development contracts
 - 3rd party manufacturing
 - Everything changes over time



Summary: Product Development Cost

- Get help on this step from others
 - Make sure they have built something similar to what you are building
- Get multiple bids
- Check references
- Plan for delays, failures, and problems

Step Three: Sales and Marketing

The Third Step

- Sales and marketing expenses
 - Specific marketing software
 - Trade shows
 - Advertising
 - Web development for company site
 - Travel
 - Direct sale regional sales force = large travel budget
 - ▶ Phone / video conference sell = minimal travel
 - Tradeshows and conference speaking



The Fourth Step

- People
 - For each area, what people do you need to hire and when?
 - Are they contract or full time?
 - Will you provide benefits?

Step Five: G&A Expenses

The Fifth Step

- General / operating expenses
 - Rent
 - Software licenses
 - Legal
 - Financial
 - Equipment (computers, test equipment, servers)
 - Banking
 - Insurance (E&O, D&O, liability, life insurance for key persons, cyber)
 - **■**Phones



How Much Should You Raise - Analytical

- Determine negative cash flow "bottom"
 - Build your forecast with no investment
 - Make sure you have product development, support and other costs included
 - For hardware companies, inventory is critical
 - Add any other startup expenses
 - Determine average burn rate
 - Determine average sell cycle

How Much Should You Raise - Analytical

- Negative cash flow bottom = \$1,300,000
- Average burn rate is \$75K per month
- Average sell cycle is 6 months
- Mike's formula:

Neg cash flow + (burn rate * 1.5 * sell cycle in months)

\$1,300,000+ (\$75,000 * 6 * 1.5) = \$1,975,000

There is no perfect answer. The key is your assumptions

How Much Should You Raise - Analytical

| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---------------------|--------|--------|----------|-----------|-----------|-----------|-------------|-------------|-----------|----------------|-----------|-----------|
| Starting Cash | 10,000 | 10,000 | 10,000 | (35,000) | (129,500) | (247,955) | (689,609) | (1,234,547) | (605,753) | (122, 312) | 319,350 | 1,650,622 |
| Revenue Received | - | 154 | | - | 41,552 | 155,820 | 280,476 | 1,157,520 | 1,595,300 | 964,600 | 2,077,600 | 964,600 |
| Commissions | 087 | 390 | œ | æ | 1,247 | 4,675 | 8,414 | 34,726 | 47,859 | 28,938 | 62,328 | 28,938 |
| Credit Card Fees | - | - | 12 | | - | 2 | - | - | 20 | (- | - | 100 |
| Inventory | - | - | 45,000 | 94,500 | 158,760 | 592,800 | 817,000 | 494,000 | 1,064,000 | 494,000 | 684,000 | 798,000 |
| Operating Expenses | | - | | æ | 12 | - | π. | 7 | 7.0 | 60.75 | - | - |
| New Investment | | - | 12 | 12 | | = / | | 2 | 2 | (4) | - | 100 |
| Ending Cash Balance | 10,000 | 10,000 | (35,000) | (129,500) | (247,955) | (689,609) | (1,234,547) | (605,753) | (122,312) | 319,350 | 1,650,622 | 1,788,284 |
| | | | | | | | | | | | | |
| Change in Cash | - | - | (45,000) | (94,500) | (118,455) | (441,655) | (544,938) | 628,794 | 483,441 | 441,662 | 1,331,272 | 137,662 |

How Much Should You Raise – Common Path

- Raise enough money to achieve a set of milestones that will attract a subsequent round of investment
- Although raising for 15-18 months is ideal, sometimes it isn't a reality
- Early on you may raise a smaller amount for a shorter runway simply to demonstrate initial traction (initial working product, pilot customers, etc.)
- Focus on getting done fast and back to work



Financial Model Spreadsheet

- Startupmodels.com
- Requires Excel

Further Reading

- Preparing a SaaS Company for a Capital Raise SaaS Capital
- How to Read a Balance Sheet (The Not-Boring Version) Andrew Youderian
- The Finance Function: Looking Back And Looking Forward
- What is LTV:CAC Ratio? geckoboard.com
- The False Confidence of the LTV/CAC Ratio for Early Stage SaaS Startups Tomasz Tunguz
- Unpacking the Deep Diagnostic Value of LTV/CAC for SaaS Startups
- The Math Behind SaaS Startup Customer Lifetime Value
- Saas Cost of Goods Sold for Startups
- 2021 Private SaaS companie valuations