

New Ventures  
BC 2020

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## Financial Modeling 101

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# Some tips for competition



NVBC is a great experience- deliverables and deadlines are helpful motivators



Don't worry about winning- It is just a nice bonus!



Get a good editor and keep it clear and professional



Be realistic



Be a confident thought leader



Tell an interesting story (Ted Talk)



**The financial model is critical and is generally the lowest scoring category in the competition**



Don't be afraid to ask for help- it leads to opportunities

# Financial Model



What to include?  
(Historic + 3-5 years  
“**Projections**”)



What will my business  
finances look like in  
the future if you invest  
today?



(GAAP/IFRS- but you  
don't need to be an  
accountant!)



Balance Sheets  
Profit and Loss  
Cash flows



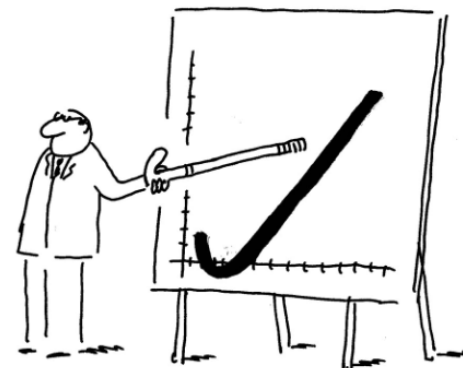
**Build in excel:** Bottom up  
and Top down- Monthly to  
Annual



Key Performance  
Indicators and Milestones



**Financial model drives  
your valuation-  
convert idea to cash**



# Key Terms

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GAAP (IFRS) and Non-GAAP KPI's (**Key Performance Indicators and Milestones**)

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Understand "Revenue" versus "Sales"

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Burn Rate – the net cash expenditures per month

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Spend Rate- the gross cash expenditures per month

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Runway - the number of months left until you run out of cash

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EBITDA- Earnings before Interest, Tax, Depreciation and Amortization (approximates the Burn)

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Post-Money Value (fully diluted) (Calculate this first)

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Pre-Money Value (fully diluted) (subtract funds raised plus exercise cash)

# Keys to Good Financial Modeling

Keep it Simple and Understandable:

- **Step 1- Opportunity Analysis**
- **Step 2- Sales to Revenue cycle**
- **Step 3- Gross Margin- how much profit on each sale**
- **Step 4- KPI's, milestones and Valuation**
- **Case studies** are ideal for financial model- provides clear perspective
- **Believability**... shows your knowledge of magnitude of the “problem” and how to finance a solution and profit

# Example- Elegantly simple

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We take low-value raw materials, such as cranberry pomace, and transform them into high-value bioactive extracts.



Cranberry Pomace:  
1 tonne = \$1K cost

Extraction uses our Patented Pressurized Low Polarity Water (PLPW) process - PhytoClean™



Simple, high margin financial model  
Margins (by product) range from 65 to 75%



Produces Cranberry Extract:  
42kg of 8% Bioactive extract = \$6K revenue

# Step 1- Opportunity Analysis

- Everyone has a billion \$ opportunity – prove it!
- Reference your sources but apply your specific story to the target market opportunity
- 5-10% of Target Market but why...?
- Better marketing? Cooler Product? Cheaper product? Get clever!
- Rate of Growth- Be Realistic (Sensitivities)
- What competitive advantages do you have that will unlock this opportunity:
  - Team
  - Novel Idea/ Patents
  - First mover
  - Traction

## Step 2- Sales to Revenue

**B2C- Retail? Online?**

**B2B- Services? Products? Franchise?  
License? Combo?**

- Who's going to buy what you're selling and when?
- What price are you going to charge and why?
- How does this compare to competitors?
- Why should the customer buy? (IRR)
- When does the sale, revenue and cash happen?



## Step 3- Gross Margins

### Answer the simple stuff

- What does it cost to deliver what you're selling per unit?
- How are positioning your product? Outsource? Software? Services?
- How do you drive down variable costs and increase margins? Economies of scale
- Other innovative ways to compete that overlap into your financial model
- Gross margin trending
- Product and Service mix or trends

# Step 4- KPI's, milestones and Valuation

## **KPIs and Milestones:**

- Customer acquisition costs (CAC)?
- Customer Sat – Churn rate–  
Recurring/Repeat customers
- Renewal rates – Lifetime Value –  
Exit Value
- Launch, Break-even, Runway, etc

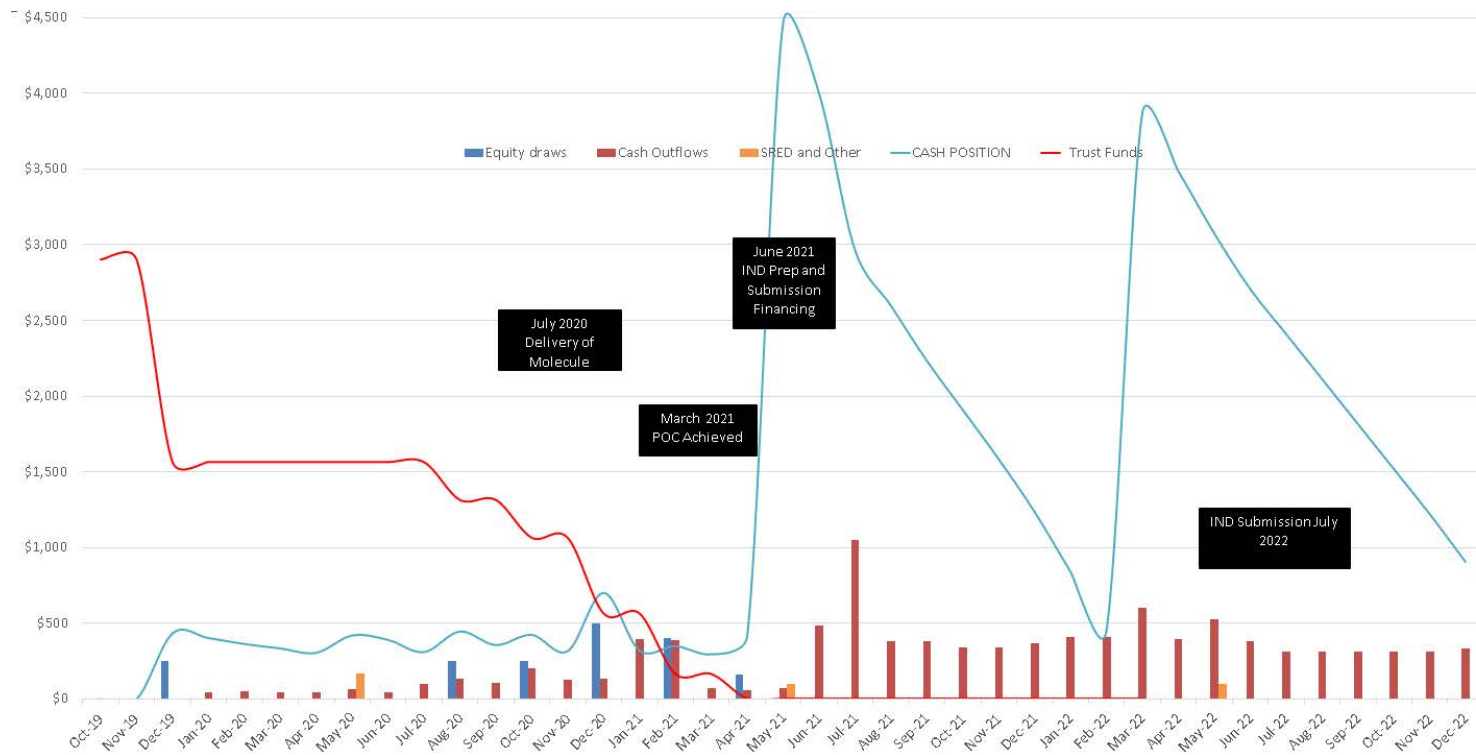
## **Value is a Sum of the Parts:**

Team, Tech, Opportunity, Risk

Valuation Analysis- Support your value

- Discounted cash flows 5x or 20%  
NPV (Risk) compare to GIC

# Example- Runway



# Example- Projections

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ABC FOUR YEAR PROJECTED STATEMENTS OF PROFIT AND LOSS Consolidated (in Canadian Dollars) (Unaudited)	Actuals 2017	Actuals 2018	Actuals 2019	Projections 2020	Projections 2021	Projections 2022	Projections 2023	
<b>REVENUE</b>								
Software subscriptions	-	173,641	161,394	106,000	234,000	555,750	1,068,000	
Training and events	113,562	74,698	171,060	626,834	1,427,362	2,395,000	3,831,148	
Contract development work	126,455	108,228	78,313	125,500	279,750	520,500	940,500	
<b>TOTAL REVENUE</b>	<b>240,017</b>	<b>356,567</b>	<b>410,767</b>	<b>858,334</b>	<b>1,941,112</b>	<b>3,471,250</b>	<b>5,839,648</b>	
<b>LESS COST OF REVENUE</b>								
Software costs	-	51,999	14,184	9,400	26,000	54,750	91,200	
Training and events costs	85,172	26,144	53,440	170,800	372,800	604,600	947,400	
Contract development work costs	94,841	81,171	31,162	79,560	176,190	327,420	591,660	
<b>TOTAL COST OF REVENUE</b>	<b>180,013</b>	<b>159,314</b>	<b>98,786</b>	<b>259,760</b>	<b>574,990</b>	<b>986,770</b>	<b>1,630,260</b>	
<b>GROSS PROFIT</b>								
Software	-	0% 121,642	70% 147,210	96,600	91% 208,000	89% 501,000	90% 976,800	91%
Training and events	28,391	25% 48,554	73% 117,621	456,034	73% 1,054,562	74% 1,790,400	75% 2,883,748	75%
Contract Development work	31,614	25% 27,057	71% 47,151	45,940	37% 103,560	37% 193,080	37% 348,840	37%
<b>TOTAL GROSS PROFIT</b>	<b>60,004</b>	<b>75,611</b>	<b>164,772</b>	<b>501,974</b>	<b>1,054,562</b>	<b>1,790,400</b>	<b>2,883,748</b>	
<b>OPERATING EXPENSES</b>								
General & Administration	11,465	48,882	45,778	85,044	107,544	145,044	172,544	
Research & Development	267,356	352,906	192,295	246,267	316,467	426,627	484,947	
Research & Development Tax Credits	(124,000)	(141,162)	(76,918)	(98,507)	(126,587)	(170,651)	(193,979)	
Sales & Marketing	38,101	32,005	119,495	154,400	211,400	246,400	296,400	
Facilities	18,279	31,152	25,378	36,000	58,200	83,400	106,200	
<b>TOTAL OPERATING EXPENSES</b>	<b>\$ 211,201</b>	<b>\$ 323,782</b>	<b>\$ 306,028</b>	<b>\$ 423,204</b>	<b>\$ 567,024</b>	<b>\$ 730,820</b>	<b>\$ 866,112</b>	
<b>INCOME (LOSS) FROM OPERATIONS</b>	<b>\$ (151,196)</b>	<b>\$ (248,171)</b>	<b>\$ (141,256)</b>	<b>\$ 78,770</b>	<b>\$ 487,538</b>	<b>\$ 1,059,580</b>	<b>\$ 2,017,636</b>	
<b>NON-OPERATING REVENUES</b>								
Total Government Funding *	2,700	20,510	-	-	-	-	-	
<b>OTHER INCOME/ EXPENSES</b>								
Amortization	(2,563)	(5,275)	(6,594)	(8,242)	(10,303)	(12,878)	(16,098)	
<b>INCOME (LOSS) BEFORE INCOME TAX</b>	<b>\$ (151,059)</b>	<b>\$ (231,528)</b>	<b>\$ (147,850)</b>	<b>\$ 70,527</b>	<b>\$ 477,235</b>	<b>\$ 1,046,701</b>	<b>\$ 2,001,538</b>	
Tax Provision (after loss carryforwards)	-	-	-	-	-	136,071	520,400	
<b>INCOME (LOSS)</b>	<b>(151,059)</b>	<b>(231,528)</b>	<b>(147,850)</b>	<b>70,527</b>	<b>477,235</b>	<b>910,630</b>	<b>1,481,138</b>	
<b>R&amp;D Assets</b>	<b>\$ 7,328</b>	<b>\$ 15,559</b>	<b>\$ 29,000</b>	<b>\$ 25,199</b>	<b>\$ 30,449</b>	<b>\$ 40,949</b>	<b>\$ 57,442</b>	
<b>Total Assets</b>	<b>\$ 7,328</b>	<b>\$ 15,559</b>	<b>\$ 29,000</b>	<b>\$ 33,599</b>	<b>\$ 40,599</b>	<b>\$ 54,599</b>	<b>\$ 76,589</b>	
<b>R&amp;D Expenses (plus 50% of Facilities)</b>	<b>\$ 276,496</b>	<b>\$ 368,482</b>	<b>\$ 204,984</b>	<b>\$ 264,267</b>	<b>\$ 345,567</b>	<b>\$ 468,327</b>	<b>\$ 538,047</b>	
<b>Non-R&amp;D Expenses</b>	<b>\$ 58,705</b>	<b>\$ 96,463</b>	<b>\$ 177,962</b>	<b>\$ 257,444</b>	<b>\$ 348,044</b>	<b>\$ 433,144</b>	<b>\$ 522,044</b>	
<b>Total Expenses</b>	<b>\$ 335,201</b>	<b>\$ 464,945</b>	<b>\$ 382,946</b>	<b>\$ 521,711</b>	<b>\$ 693,611</b>	<b>\$ 901,471</b>	<b>\$ 1,060,091</b>	
<b>EBC Qualifying Ratio:</b>	<b>283,824</b>	<b>384,041</b>	<b>233,984</b>	<b>289,466</b>	<b>376,016</b>	<b>509,276</b>	<b>595,489</b>	
	<b>342,529</b>	<b>480,504</b>	<b>411,946</b>	<b>555,310</b>	<b>734,210</b>	<b>956,070</b>	<b>1,136,680</b>	
	<b>0.83</b>	<b>0.80</b>	<b>0.57</b>	<b>0.52</b>	<b>0.51</b>	<b>0.53</b>	<b>0.52</b>	

# Concluding Remarks

- **Keep it Simple Stupid (KISS)**
- **Enlighten the judges**
- **Find a Comparative Public Company-  
SEDAR.com and EDGAR (sec.gov)**
- **Find your key metrics and build  
business processes that focus on  
improving these metrics**
- **Use Google- there are lots of great  
examples- ie. SAAS Metrics/Retail  
Metrics, etc.**

# Questions



# Appendix A- BC Tech Model- 10 Rules



Incorporate - simple  
reverse vesting  
common shares for  
founder teams



Raise your first \$25k  
from friends and  
family



Get good at  
expense reporting  
(separate Self from  
Inc.)



Register immediately  
to get your GST  
back!



Build real SR&ED and  
optimize Proxy rules

# Appendix A- BC Tech Model- 10 Rules



Register as an EBC  
(30% incentive for  
BC angel investors)



Leverage the NRC-  
IRAP, NSERC, etc.



Angel circuit- links  
to customers and  
maybe even \$



Find customers  
who will help build  
your product



Build partnerships  
and networks early