Financial analysis of your start-up company (2)

Seminar «The practice of entrepreneurship» 16-Oct-2011

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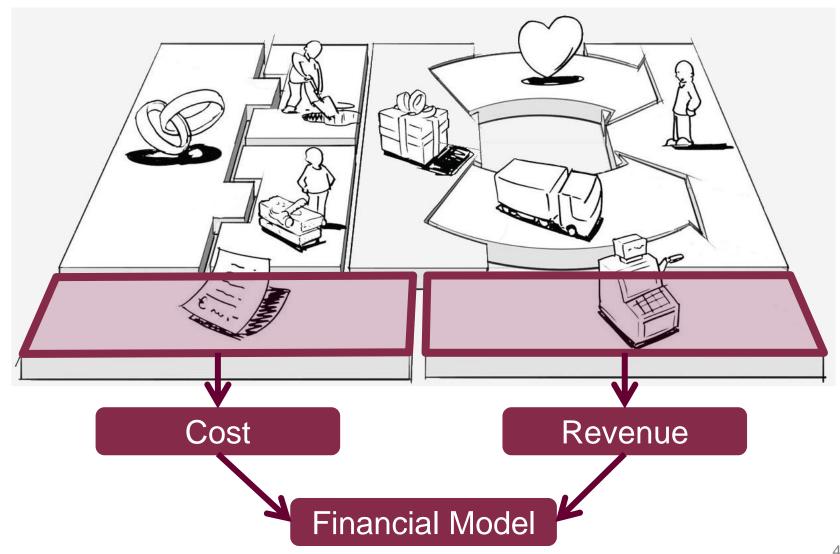
Overview

- Modelling your business using the "Business Model Canvas"
 - o 09-Oct-2010
 - o Introduction: Why, how?
 - Example
 - Recommendations
 - Your own project
 - o Discussion
- Financial analysis of the business Model
 - o 16-Oct-2010
 - o Introduction, How-to
 - Q&A
 - Work on your project
- Financing your startup in switzerland
 - o 23-Oct-2010
 - o Lecture
 - Discussion

Your benefit

- Can translate a business model into a viable financial model
- Can identify revenue drivers and cost drivers
- Can draft a financial plan for several years

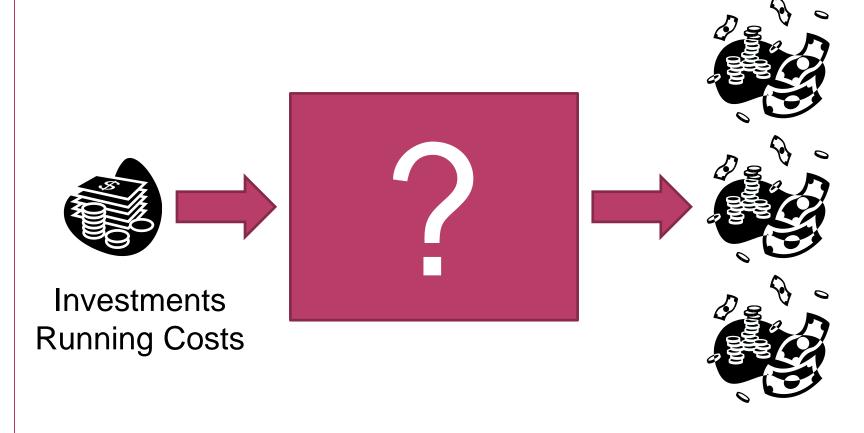
Business model and financial model



Questions to be answered:

- Earnings needed to cover the running cost?
- Investments required to cover the start-up cost?
- Most profitable business line?
- How and where to optimize costs?
- Return on investment after n years?

Financial mechanics



Revenues

Cost / revenue model: Basics

- Revenue = f(sales)
- Sales = f(cost of marketing, cost of production, cost of logistics, cost of resources, ...)
- Profit = Revenue Σ (cost)

Cost / revenue model: How-to (1)

- What are your revenue drivers (RD)?
- Retail shop: area, revenue per m2, location, ...
 - Consultant: utilisation, rate, #staff, ...
 - Restaurant: consumption per visit, number of visitors per serving, number of places, ...
 - Production machine: utilisation, capacity, ...
 - 0 ...

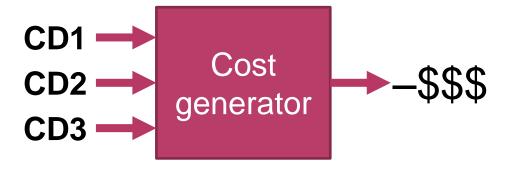
=> RevenueModel



Cost / revenue model: How-to (2)

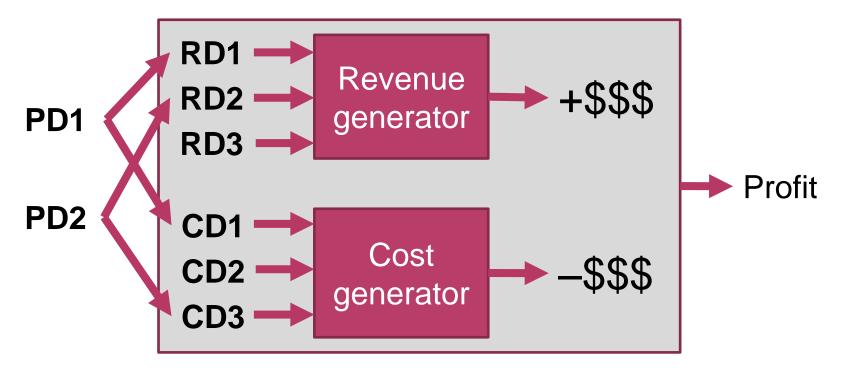
- What are your cost drivers (CD)?
 - Retail shop: staff per m2, rent per m2
 - Consultant: salary, expenses
 - Restaurant: staff per place, food and beverage cost, rent
 - Production machine: deprecation, running costs (material, power, ...)

=> Cost model



Cost / revenue model: How-to (3)

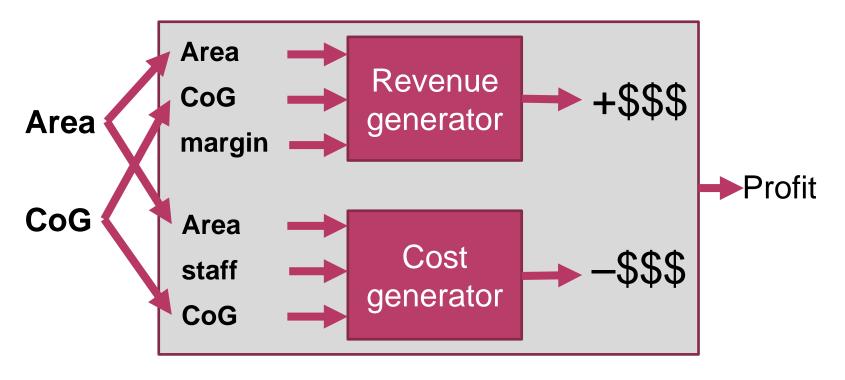
- Combine revenue / cost models
- Determine profit drivers (PD)
- => Profit model



Cost / revenue model: How-to (3): example

Retail store:

- Revenue depends on area of the store ("Area"), the cost of the goods ("CoG") and the margin and many others
- Cost depends on buying cost, area of the store, staff cost and many others
- Profit depends on area, cost of goods, margin, ..., staff cost, ...



Cost / revenue model: How-to (4)

- Spreadsheet input:
 - Revenue drivers
 - Cost drivers
- Spreadsheet output:
 - + Cash In
 - Cash Out
 - = Cash Flow
- Information required: cash flow per time
 - Time as X-axis in your spread sheet, money in the Y-axis

Cost / revenue model: How-to (4): example

	20xx-01	20xx-02	20xx-03	
Area	300	300	300	
CoG	320	100	100	
Sales at cost	80	120	100	
Margin	100%	100%	100%	
Stock	240	220	220	
Sales (end user)	160	240	240	
Staff	40	40	40	
Cash Out	360	140	140	
Cash In	160	240	240	
Free Cash Flow	-200	+100	+100	
∑Cash Flow (CFCF)	-200	-100	0	

Requirements for your business plan

- Report for the next three years:
 - Variable key performance indicators
 - o # Staff
 - Cash Out
 - o Cash In
 - Cash Flow
 - Cumulated Cash Flow = working capital
- Calculate per month, report per quarter

Multiple business models (1)

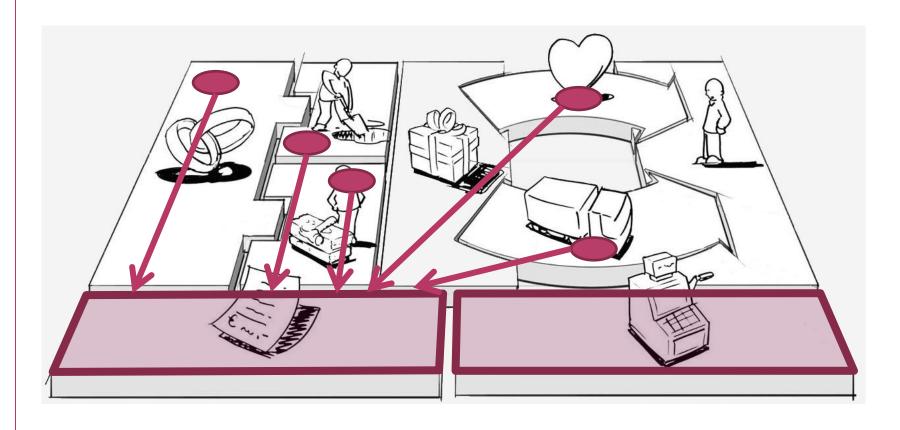
- One cash flow calculation for each business model
- => Profitability / performance of each business model
- => Portfolio optimization
- => Separate management of each business model

Multiple business models (2)

- + Cash flow calculation for business model 1
- + Cash flow calculation for business model 2
- + Cash flow calculation for business model 3
- Common cost for all business models

= Cash flow statement for the whole business

Double-check your canvas



Experiences & advice

- Calculate on a monthly basis, draft business plan on a quarterly basis
- Cumulated free cash flow is the key figure
 - Indicates the investment required
 - Indicated the ability to pay dividends, payback to investors, ...
- Multiple business models need multiple cash flow calculations

Experiences & advice

- Try to link cost to revenues
 - Low revenues => low costs => low risk
 - But: high revenues => high costs => lower profit
 - E.g.: pay staff by the hour instead of per month => pay only if needed
- Be flexible with your revenue / cost models
 - Adapt to the situation to minimize your cost
 - E.g.: Some staff on a permanent contract, some paid by the hour
 => optimization of cost / revenue
- Talk to industry experts about your revenue, cost drivers

Experiences & advice (3)

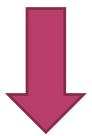
- If you can double the revenue from year to year => great!
 - Faster growth => difficult to believe
 - 4-times-growth: May generate laughter from the investors (prove it with past figures!)
- Costs are usually easier to predict and more accurate than revenues
 - It costs more, takes longer than predicted
 - Investors in their minds often double all costs and times elapsed
- Try to be realistic
 - If you don't have an idea about what's realistic talk to someone who has the know-how, experience

Your financial plan

- 1. Finalize business model(s)
- 2. Determine revenue drivers
- 3. Determine cost drivers
- 4. Develop spreadsheet
 - a. Timeline (months)
 - b. For each business model:
 - Revenue drivers and their values over time
 - ii. Cost drivers and their values over time
 - iii. Total revenues and costs
 - iv. Cash flows
 - v. Cumulative cash flows
 - c. Consolidate all business models, double-check, finalize

Next steps

Your business model



Your financial planning

Limited Q&A: jan@fuelscher.ch

Next time: Where to find money and support (full session)