Startup Fundraising

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COSS D04

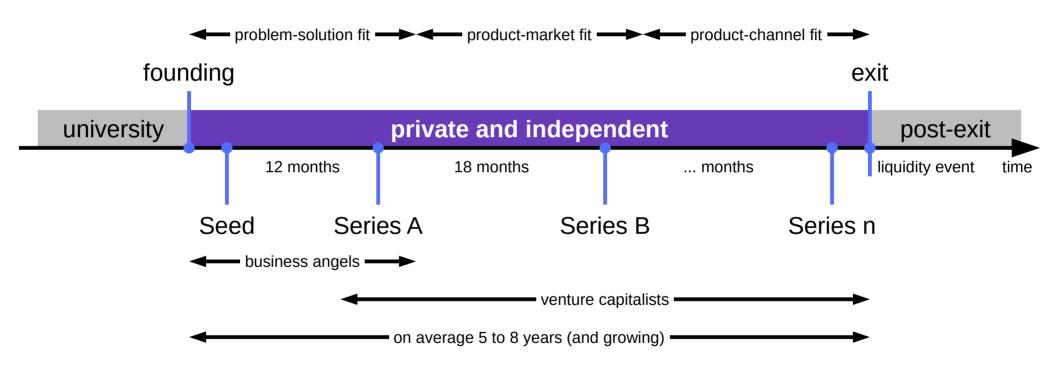
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Agenda

- 1. Startup time-line
- 2. Types of funding
- 3. The main players
- 4. Startup valuation
- 5. A funding round
- 6. Risk profiles

1. Startup Time-line

The Startup Time-line



Early Financial Needs Time-line

Stage	Headcount	Funding	Responsible
Research	Jane and Jim	(2 people at €80K + €30K) x 4 years	Professor
Validation	Jane, Jim, Tony	(3 people at €80K + €50K) x 2 years	Entrepreneurs
Incorporation	4	(4 people at €80K + €50K) x 2 years	Entrepreneurs
Going concern	n+	(n+ people at €80K + €30K) p.a. +	Entrepreneurs

2. Types of Funding

Forms of Funding

Туре	Source
Gift	 Self-exploitation Public and NGO funders
Debt	Family, friends, and foolsLoans
Investment	Business angelsVenture capitalists
Projects	Public agenciesCompanies

Public Funders and Programs (Recap)

#	Phase	Funder	Program	# Persons	Amount [PM p. P.]	
1	Basic research	DFG ERC	Sachbeihilfe Advanced Grant	1-3 (up to 6)	36	
2	Applied research	BMBF BMWi	VIP+, START interaktiv Various	1-4	18-36	
3	Spinning off	BMWi	EXIST Forschungstransfer	3-4	18	
4	Starting up	BMWi	EXIST II	3-4	6	
5		BMWi	KMU Innovativ		12-24	

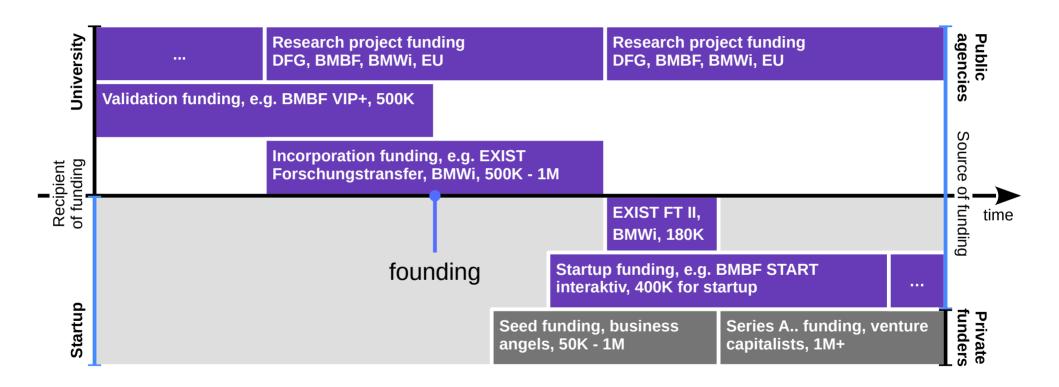
Business Angels

- A business angel
 - Is typically an individual investing their own money
 - May bring in other business angels
 - Is sometimes specialized, but more often general purpose
- Value proposition
 - Is typically money + personal involvement (expertise, network, etc.)
 - Personal involvement may or may not be a good idea

Venture Capital Firms

- A venture capital firm
 - Is a financial service firm that promises its investors outsize returns from startup investments
 - May invest in your startup if you fit their bill
 - Is sometimes general purpose, but more often specialized
- Value proposition
 - Is to bring money and more money through partners
 - Sometimes comes with useful services
- "Venture capitalists" = general partners at venture capital firm

Example Funding Strategy and Time-line



3. The Main Players

The Ecosystem and Its Main Players

- Investors
 - Business angels
 - Venture capital firms
- Facilitators
 - Lawyers
 - Professional organizations
- Enablers / resources
 - Professors
 - Universities

4. Startup Valuation

Valuation Methods

- Cost of replacement (pre-seed)
- Revenue multiples (Series A onwards)
- Discounted cash flows (later)

Cost of Replacement Method

Asset Cost of Replacment

Source code # person months x labor rate

Price according to price list
Price according to market place

Skilled labor Recruiting costs

Machinery

Revenue Multiples Method

- Value of company = Revenue x Multiple
 - Revenue is typically annual (maybe extrapolated) revenue
 - Multiple is a negotiated factor based on growth rate and industry

Category [1]	Percentage [YoY]	Multiple		
Slow growth	<10%	1x - 2x		
Stable growth	10% - 30%	2x – 5x		
High growth	30% - 100%	5x - 10x		
Super high growth	100% - 300%	10x – 15x		
Hyper growth	300%+	15x – 25x		

Net Present Value / Discounted Cash Flow Method

- The net present value (NPV) of a firm is
 - The sum of all future cash-flows
 - Brought back in value to today
- NPV = sum of (future cash flows at time t / (1 + discount rate) to the power of t)
 - The discount factor is the expected rate of return of comparable investments

$$ext{NPV}(i,N) = \sum_{t=0}^N rac{R_t}{(1+i)^t}$$

5. A Funding Round

Company Valuation Pre- and Post-Money

Step	Value
Pre-money valuation	€4M
Investment by investor	€1M
Post-money valuation	€5M
Equity stake to investor	20%

Example Term Sheet 1 /2 [1]

Company:	[], a Delaware corporation.					
Securities:	Series A Preferred Stock of the Company ("Series A").					
Investment Amounts:	\$[] million from [] ("Lead Investor") \$[] million from other investors					
	Convertible notes and safes ("Convertibles") convert on their terms into shadow series of preferred stock (together with the Series A, the "Preferred Stock").					
Valuation:	\$[_] million post-money valuation, including an available option pool equal to []% of the post-Closing fully-diluted capitalization.					
Liquidation Preference:	1x non-participating preference. A sale of all or substantially all of the Company's assets, or a merger (collectively, a " Company Sale "), will be treated as a liquidation.					
Dividends:	6% noncumulative, payable if and when declared by the Board of Directors.					
Conversion to Common Stock:	At holder's option and automatically on (i) IPO or (ii) approval of a majority of Preferred Stock (on an as-converted basis) (the " Preferred Majority "). Conversion ratio initially 1-to-1, subject to standard adjustments.					

Example Term Sheet 2 / 2

Founder and

Employee Vesting:

Voting Rights:	Approval of the Preferred Majority required to (i) change rights, preferences or privileges of the Preferred Stock; (ii) change the authorized number of shares; (iii) create securities senior or pari passu to the existing Preferred Stock; (iv) redeem or repurchase any shares (except for purchases at cost upon termination of services or exercises of contractual rights of first refusal); (v) declare or pay any dividend; (vi) change the authorized number of directors; or (vii) liquidate or dissolve, including a Company Sale. Otherwise votes with Common Stock on an as-converted basis.
Drag-Along:	Founders, investors and 1% stockholders required to vote for a Company Sale approved by (i) the Board, (ii) the Preferred Majority and (iii) a majority of Common

Stock [(excluding shares of Common Stock issuable or issued upon conversion of the Preferred Stock)] (the "Common Majority"), subject to standard exceptions.

Other Rights &

The Preferred Stock will have standard broad-based weighted average anti-dilution rights, first refusal and co-sale rights over founder stock transfers, registration rights,

pro rata rights and information rights. Company counsel drafts documents. Company pays Lead Investor's legal fees, capped at \$30,000.

[Lead Investor designates 1 director. Common Majority designates 2 directors.]

Founders: [_____].
Employees: 4-year monthly vesting with 1-year cliff.

The Cap(italization) Table [1]

Company GmbH/AG

Finance Round
Investment Pre- Money
Price Per Share

Seed Financing 1. Closing € 1.950.000,00 € 39,00 [1] See

https://standardsinstitute.de/term-sheet/

	Establis Of the Co		Financing Round A		Total without Options		Total with Options	
Shareholder	Shares	in %	Investment	Shares	Shares	in %	Shares	in %
Founder 1	12.500	25,00 %		O	12.500	24,38 %	12.500	21,7%
Founder 2	12.500	25,00 %		o	12.500	24,38 %	12.500	21,7%
Founder 3	12.500	25,00 %		O	12.500	24,38 %	12.500	21,7%
Founder 4	12.500	25,00 %		0	12.500	24,38 %	12.500	21,7%
Investor 1			€ 50.000	1.282	1.282	2,50 %	1.282	2,2%
Investor 2								
Investor 3				o	0	0,00 %	О	0,0%
Investor 4				O	0	0,00 %	О	0,0%
Investor 5								
<u>Options</u>							6.433	11,1%
Total	50.000	100,00 %	€ 50.000	1.282	51.282	100,00 %	57.715	100,00 %

6. Risk Profiles

Risk Profiles and Conflicts of Interest

- Founders
- Investors
 - Business angels
 - Venture capital
 - Private equity

Summary

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Thank you! Questions?

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