

DTU Master S-2013 e'ship class 7. lecture, Monday 18 March 2013

Financing Technology Ventures

- 1. CASE: Jens Reimer Olsen, www.graduateland.com
- 2. E'ship in China Innovation officer Ning Kang, Innovation Centre Denmark, Shanghai. (Still pending). http://icdk.um.dk/en/about-us/innovationcentres/shanghai/
- 3. Financing 1. Mapping the landscape. JH
- 4. Pre-seed, early stage capital: Investment Director Niels Vejrup Carlsen, Seed Capital Denmark. www.seedcapital.dk
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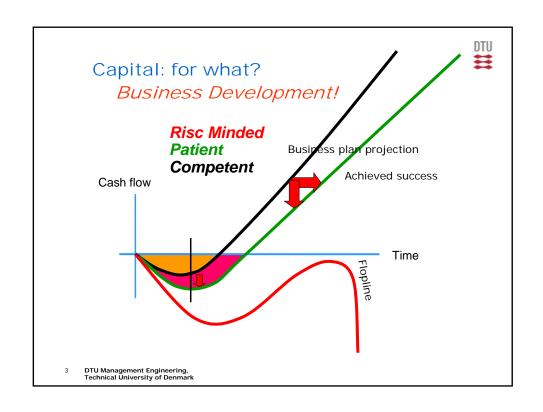


FINANCING Technology Ventures Agenda

- Capital: for what ?
- Capital: from where?
- Capital types related to Business Development
- Investor types
- The Investor's Quality Criteria
- Evaluation of Companies
- Example

Learning objectives:

- To enable you to identify your investment opportunities and to design your business model and your business plan accordingly.
- · To allow you to understand the investors
- · To communicate with experts
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The entrepreneur's most important Capital Sources

- Your own bloody money
- FFF Family, Friends & Fools
- In Kind Other people's resources
- Your first customer: The more pain, the better
- Investors' money If your business is scalable, has a significant potential, realization depends on speed and money and there is a Return on Investment ROI (an exit opportunity).

 VERY IMPORTANT PRECONDITION



Origins of Capital

· You make it unnecessary

Live on a Rock Start selling:

In kind

You have it: Savings, personal fortune

• You get it: Grants

You borrow it: Loan capital
 You sell shares: Share capital private equity

equity capital

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GRANTS

- Public Industrial Development Programs
- Ministerial focus area
- Private Foundations

Comments:

- Dream-capital for start-ups
- Hard to find but it happens

Note 1: EU limit: 200.000 EUR in public grants

Note 2: Grants are taxable income, but expenditures are tax deductible.



LOAN CAPITAL

- Banks
- Credit Institutions like FIH
- Private debt providers the loaners
- Special products like Vækstkaution, Mezzanine capital etc. See www.vf.dk

Comments:

- Cheap for the entrepreneur Expensive for the Company Paid back by the company. The entrepreneur preserves ownership
- Personal collateral mandatory in the start-up phase.

 If business flops: repayment after personal tax. No tax-deduction!
- Investor runs a business
 Never let this fact be forgotten during the moments of joy and enthusiasm
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LOAN CAPITAL - 2

The Convertible Loan

- Normal interest and repayment profile
- Can be converted into share capital on specific conditions and at specific milestones

Comments:

- Some advantages in the start-up phase
 Less initial dilution of the founders.
 Investor may convert to preserve ownership at new funding rounds.
- Check the conditions

Investor gets a strong handle bar on business development Conversion right linked to milestone specifications. Eg.: conversion rate linked to quantified performance.



SHARE CAPITAL - private equity

Investor buys shares in the company

- At kick-off with the founders
- Later: at capital increase (Funding rounds)

Comments:

- Expensive for the entrepreneur Cheap for the Company Nothing to pay back but founders get diluted. Think about that, when company valuation passes a gazillion and you own 1%.
- Possible mismatch in long-term objectives

 The investor wants a rapidly expanding business to be sold at the right time, whereas the founders may have completely different personal goals and they are probably also more risk adverse
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EXIT

The inherent consequence of equity financing Investor converts assets to cash and pull out

IPO: Initial Public Offering

Trade Sale

Management buy-out/buy-in

Earn-outs

Repayment of loans

Enforcing preferences

Rare but rewarding

Acquisition

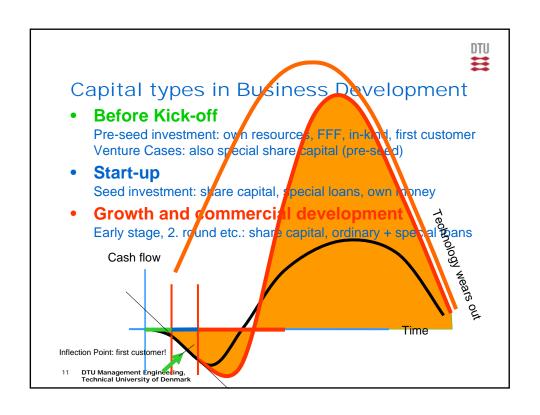
Not best but ROI > 0

Even worse but ROI > 0

Not sustainable for VC

Cutting the loss

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Investors

Pre-seed

FFF: the Business Angels

DK: Innovation environments (financial incubators)

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US: Small Business Agency (SBA)

Seed - Early Stage

SEEDCapital Denmark

Business Angels

Venture Capital companies (VC)

Vækstfonden

Second round, follow-on

VC and Corporate Venture Capital

Credit Institutions

Banks

Vækstfonden

Some stock exchanges like First North



Impact of the economical crisis:

Increased risk and scarce capital force the investors to avoid loss and protect their portfolio – so –

Investors move up in the market =>

No money in the seed – early stage segment =>

Business start-up strategies adopt to

- FFF
- First Customer opportunities and
- Slow self-financed sustainable growth

Venture cases become even more rare

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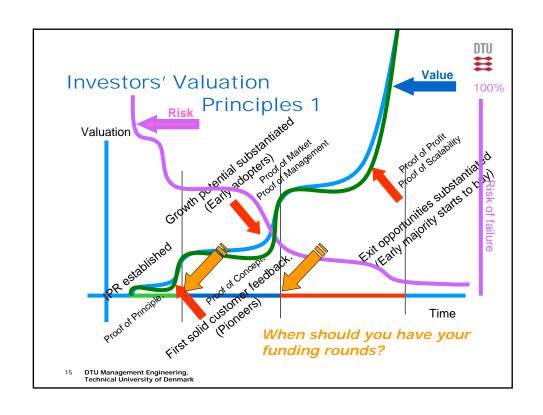
Investor's Criteria for Interest

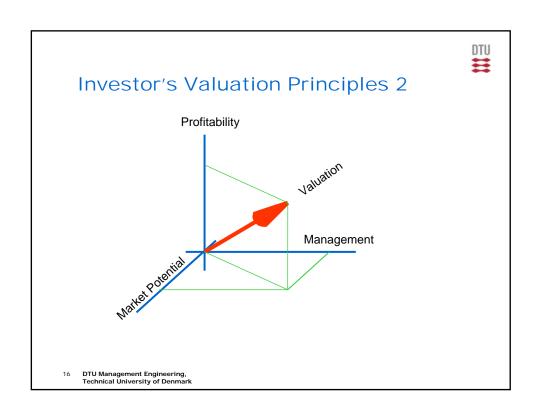
4P

- Perspectives Pain, market size/share exit-op.
- Persons Track records, competencies, ambition
- Platform Proof of principle, concept, value, pull, profit
- Process The project acc. to the Business Plan

Comments:

- Must be a Venture Case: ROI > 10 in less than 5 years. (126 rule applies too: 100 mio in T/O, 20% profit in less than 6 yrs)
- The team is the single most important precondition
- Platform: the more commercial proofs, the better.
 Commercial proofs reflect risk and competence
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Negotiating with VC Investors

Or how to dance with wolves

- Capital always Wins
- Your opponent has done this many times
- Your opponent is not depending on you
- Your opponent has lots of time

Negotiating tactics:

- Freedom of Maneuvering

 Never enter negotiations without having fall-back positions.
- No major payments that jeopardize your project Your investor will find out at "due diligence"
- Don't go for money unless you can do without
 Make it clear from the beginning that you actually don't need it
- If you are asked for exclusivity: it costs (all claims cost)
 Exclusivity reduces your freedom of maneuvering
- Consider to get more investors into the game transparently
- The more proofs before investment the better
- Strategic partners also an asset
- Get yourself a management team and battle-proven advisors before opening the game
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EXAMPLE: GBQ Ltd.

Capital need: DKK 2.5 mio -> Proof of Business DKK 15 mio -> Proof of Profitability

Kick-off: DKK 1.000.000 to reach Proof of Concept

Founders + pre-seed investor

Private equity

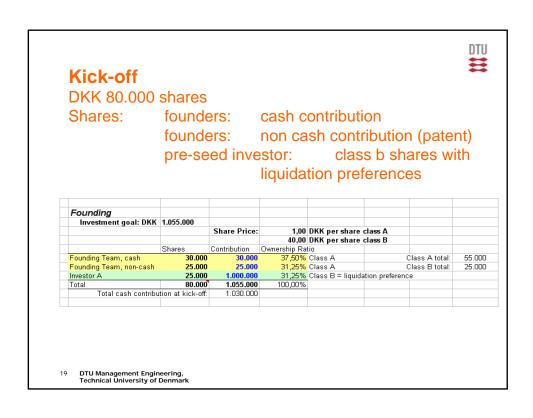
First Milestone: DKK 1.500.000 to reach Proof of Pull

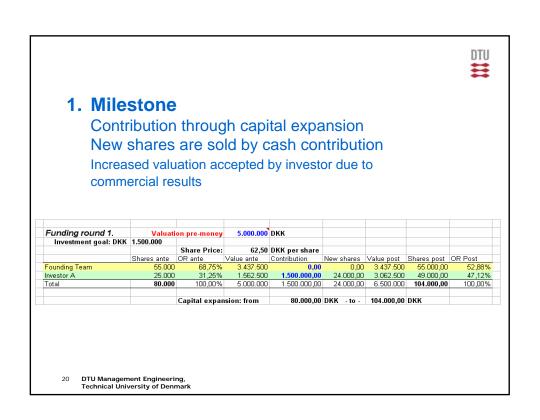
Pre-seed investor: private equity

Second Milestone: DKK 15.000.000 to reach Proof of Profit

Venture Capital Company: private equity Exit: Profits (EBITDA) > 25 mio. DKK/vr.

(Earnings Before Interest, Tax, Depreciation and Amortization) Valuation based on Price/Earnings (P/E) ~ 10







2. Round

Contribution through capital expansion New VC investor enters Funding goal: DKK 15 mio.

Achieved pre-money valuation: DKK 10 mio.

Funding round 2.	Valuati	on pre-money	10.000.000	DKK				
Funding goal: DKK	15.000.000							
		Share Price:	96,15	DKK per share				
	Shares ante	OR ante	Value ante	Contribution	New shares	Value post	Shares post	OR Post
Founding Team	55.000	52,88%	5.288.462	0,00	00,00	5.288.462	55.000,00	21,15%
Investor A	49.000	47,12%	4.711.538	0,00	00,00	4.711.538	49.000,00	18,85%
Investor B	0	0,00%	0	15.000.000,00	156,000,00	15.000.000	156.000,00	60,00%
Total	104.000	100,00%	10.000.000	15.000.000,00	156.000,00	25.000.000	260.000,00	100,00%
		Capital expansion: from		104.000,00	DKK - to -	260.000,00	DKK	

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EXIT

Venture-case criterion: Valuation principle: Price/earnings

With profits (EBITDA) = 25 mio. DKK and P/E ~ 10 (Solid and perspective company): Price: $10 \times 25 \text{ mio.}$ DKK = 250 mio. DKK

Exit		Valuation :		250.000.000 DKK				
			Share Price:	961,54	DKK per share			
		Shares ante	Ownership	Share value	Cash invested	Return on cas	sh investment	
	Founding Team	55.000	21,15%	52.884.615	30.000	Obscene		
	Investor A	49.000	18,85%	47.115.385	2.500.000	19		
	Investor B	156,000	60,00%	150.000.000	15.000.000	10		
	Total	260.000	100,00%	250.000.000	17.530.000			



Coming up: Sales & Marketing Request for input: "The Five-Liner" Coming to your mail-box soon

