

DTU Master 2011 e'ship class
7. lecture, Monday 14 march 2011

Financing Technology Ventures

FINANCING Technology Ventures

Agenda

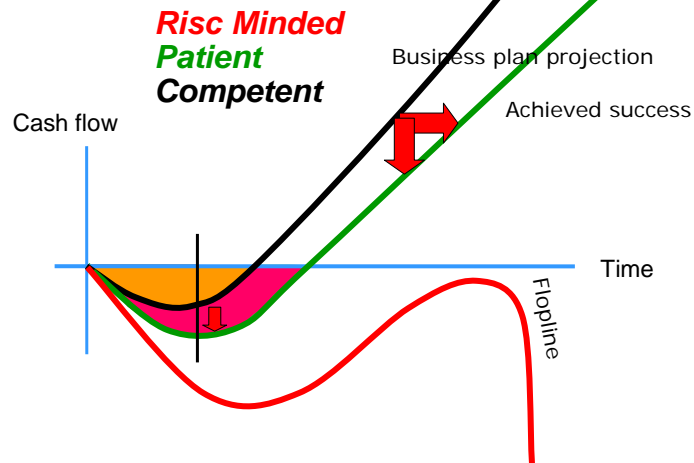
- ***Capital: for what ?***
- ***Capital: from where?***
- ***Capital types related to Business Development***
- ***Investor types***
- ***The Investor's Quality Criteria***
- ***Evaluation of Companies***
- ***Example***

Learning objectives:

- ***To enable you to identify your investment opportunities and to design your business model and your business plan accordingly.***
- ***To prepare you for meeting the investors***
- ***To communicate with experts at an educated level***

Capital: for what?

Business Development!



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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, and realization depends
on speed and volume. VERY IMPORTANT PRECONDITION*

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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

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

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.
- **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

EXIT

The inherent consequence of equity financing

Investor converts assets to cash and pull out

- | | |
|---------------------------------------|------------------------|
| • IPO: Initial Public Offering | Rare but rewarding |
| • Trade Sale | Acquisition |
| • Management buy-out/buy-in | Not best but ROI > 0 |
| • Earn-outs | Even worse but ROI > 0 |
| • Repayment of loans | Not sustainable for VC |
| • Enforcing preferences | Cutting the loss |

Capital types in Business Development

- **Before Kick-off**

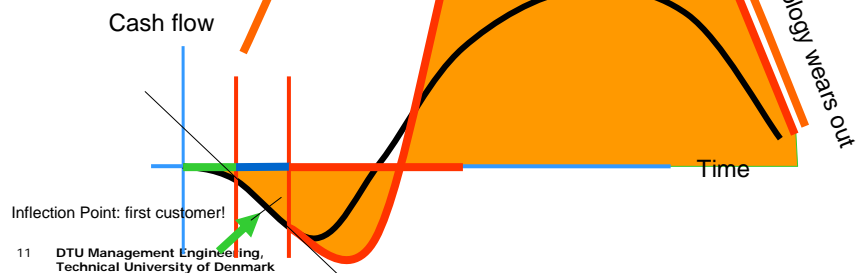
Pre-seed investment: own resources, FFF, in-kind, first customer
 Venture Cases: also special share capital (pre-seed)

- **Start-up**

Seed investment: share capital, special loans, own money

- **Growth and commercial development**

Early stage, 2. round etc.: share capital, ordinary + special shares



Investors

Pre-seed

FFF: the Business Angels
 DK: Innovation environments
 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 funding 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

Investor's Criteria for Interest

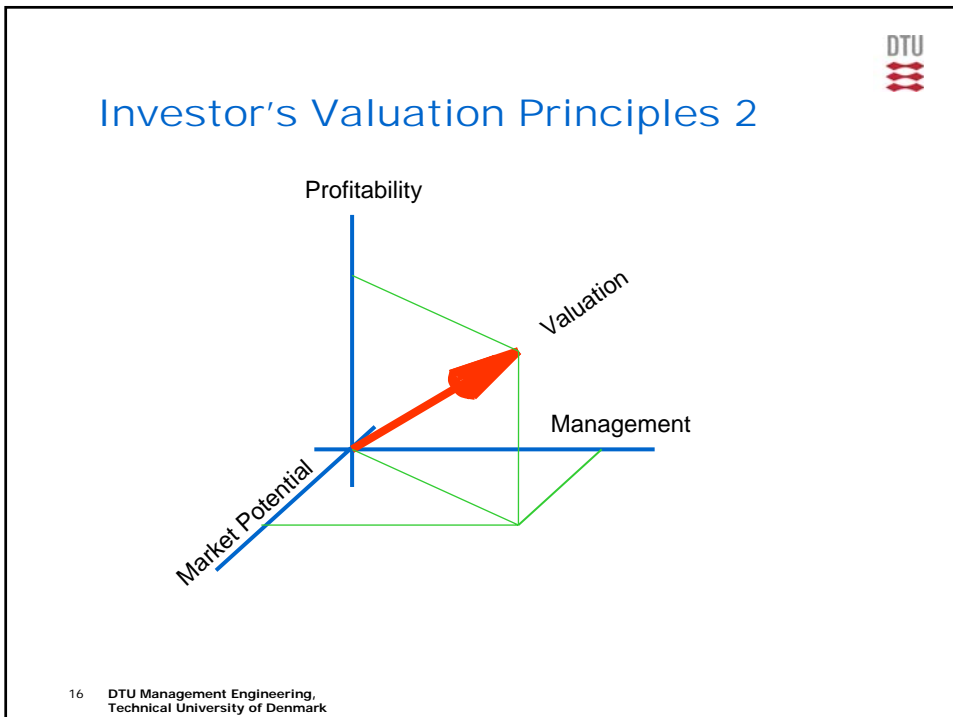
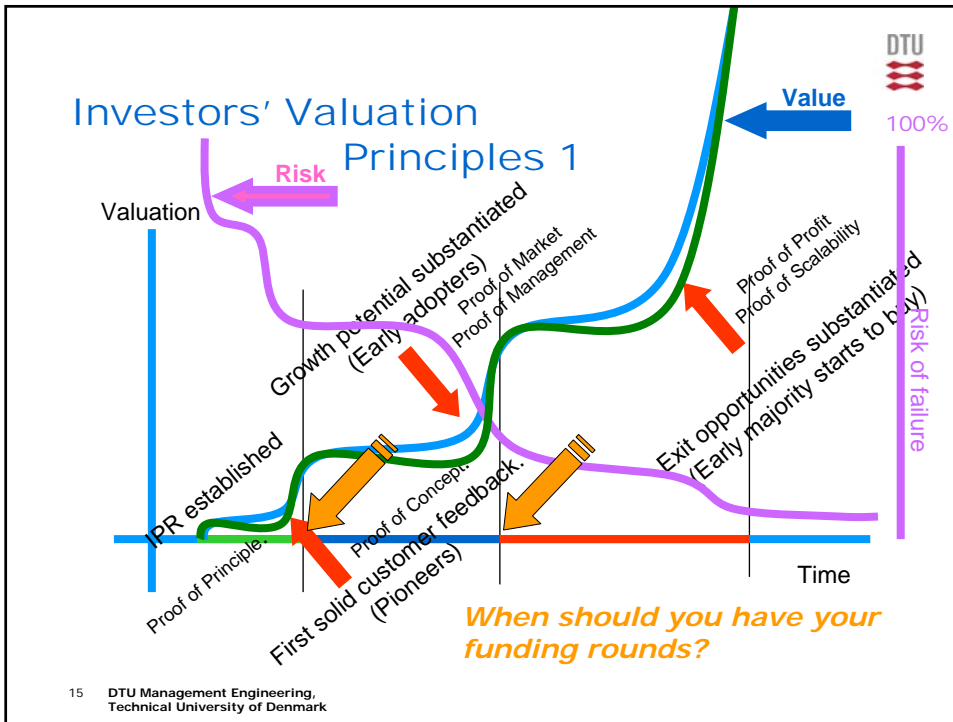
4P

- **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



Dancing with Wolves

Or how to deal with investors

- **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**

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/yr.

(Earnings Before Interest, Tax, Depreciation and Amortization)

Valuation based on Price/Earnings (P/E) ~ 10

Kick-off

DKK 80.000 shares

Shares: founders: cash contribution
 founders: non cash contribution (patent)
 pre-seed investor: class b shares with liquidation preferences

Founding							
Investment goal: DKK		1.055.000		Share Price:		1,00 DKK per share class A 40,00 DKK per share class B	
	Shares	Contribution	Ownership Ratio				
Founding Team, cash	30.000	30.000	37,50% Class A			Class A total:	55.000
Founding Team, non-cash	25.000	25.000	31,25% Class A			Class B total:	25.000
Investor A	25.000	1.000.000	31,25% Class B = liquidation preference				
Total	80.000	1.055.000	100,00%				
Total cash contribution at kick-off:		1.030.000					

1. Milestone

Contribution through capital expansion
 New shares are sold by cash contribution
 Increased valuation accepted by investor due to commercial results

Funding round 1.							
Investment goal: DKK		1.500.000		Valuation pre-money		5.000.000 DKK	
	Shares ante	OR ante	Value ante	Contribution	New shares	Value post	Shares post
Founding Team	55.000	68,75%	3.437.500	0,00	0,00	3.437.500	55.000,00
Investor A	25.000	31,25%	1.562.500	1.500.000,00	24.000,00	3.062.500	49.000,00
Total	80.000	100,00%	5.000.000	1.500.000,00	24.000,00	6.500.000	104.000,00
Capital expansion: from		80.000,00 DKK		- to -	104.000,00 DKK		

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.		Valuation 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	0,00	5.288.462	55.000,00	21,15%	
Investor A	49.000	47,12%	4.711.538	0,00	0,00	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			

EXIT

Venture-case criterion: Valuation principle: Price/earnings

With profits (EBITDA) = 25 mio. DKK and P/E ~ 10 (Solid and perspective company):

Price: 10 X 25 mio. DKK = 250 mio. DKK

Exit		Valuation :		250.000.000 DKK					
	Shares ante	Ownership	Share value	Cash invested	Return on cash 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					

The End of the Game

