

#### DTU PhD 2010 e'ship class

3. lecture, Wednesday 28 April 2010

# Financing Technology Ventures

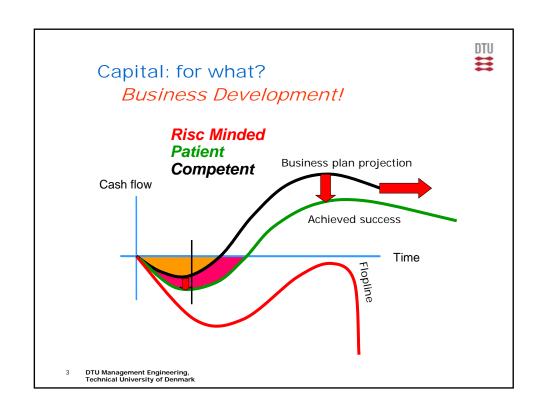
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# FINANCING Technology Ventures Agenda

- 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.





# The entrepreneur's most important Capital Sources

- Your own bloody money
- FFF Family, Friends & Fools
- In Kind Other people's ressources
- Your first customer: The more pain, the better
- Investors' money
   If your business has a significant potential and realisation depends on speed and volume.

  VERY IMPORTANT PRECONDITION
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# Origins of Capital

You make it unnecessary

Live on a Hock Start saling! In kipu

- You have it: Savings, personal fortune
  - You cents
  - You bor owit: \_\_\_\_oan capital
- You sell states: Share capital private equity equity capital

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## **GRANTS**

- Public Industrial Development Programs
- · Ministerial focus area
- Private Foundations
- Etc.! See www.vf.dk

# **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 deductable.



#### LOAN CAPITAL

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

#### **Comments:**

- Cheap for the entrepreneur Expensive for the Company Paied 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 overshadowed 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 are diluted. Think about that, when company valuation passes a gazillion.
- Possible mismatch in longterm 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** 

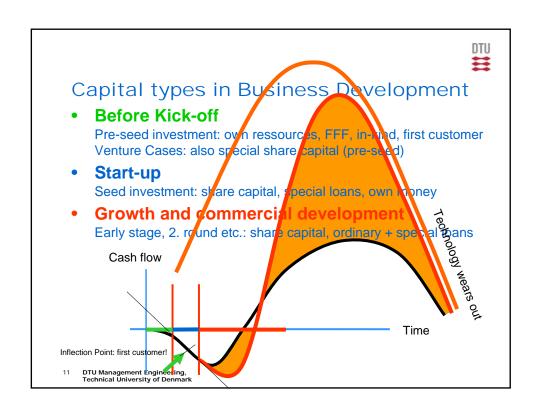
Not best but ROI > 0

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

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 forces 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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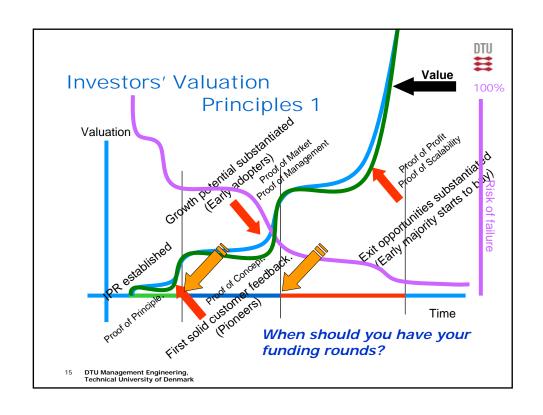
### Investor's Criteria for Interest

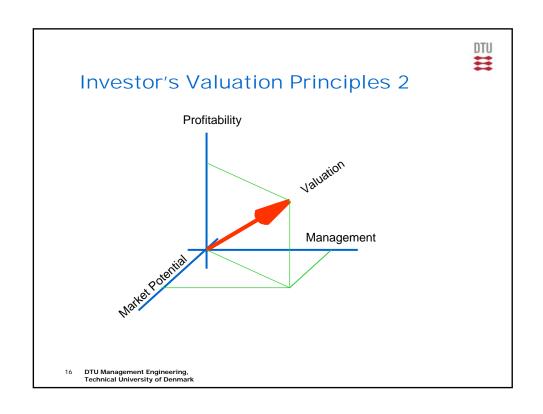
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- Perspectives Pain, market size/share exit-op.
- Persons Track records, competencies, ambition
- Platform Proof of principle, concept, value, pull, profit
- Process The project acc. to the Business Plan

#### 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 singlemost important precondition
- Platform: the more commercial proofs, the better.
   Commercial proofs reflect risk and competence
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# Dancing with Woolves

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 Maneovering

  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 maneovering
- 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 a battle-proven consultant before opening the game
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#### EXAMPLE: GBO Ltd.

Capital need: DKK 1.5 mio -> Proof of Business app. DKK 10 mio -> Proof of Profitability

Kick-off: DKK 550.000 to reach Proof of Concept

Founders + pre-seed investor

**Private equity** 

First Milestone: DKK 1.000.000 to reach Proof of Pull

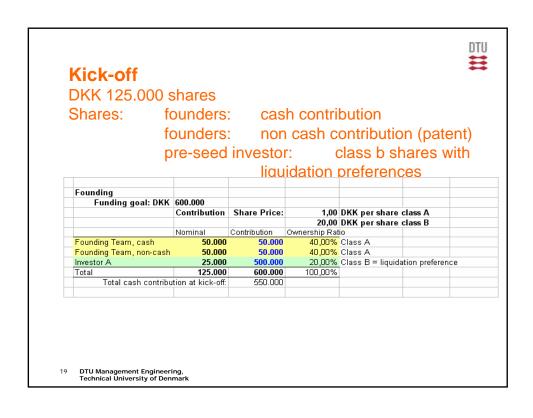
Pre-seed investor: private equity

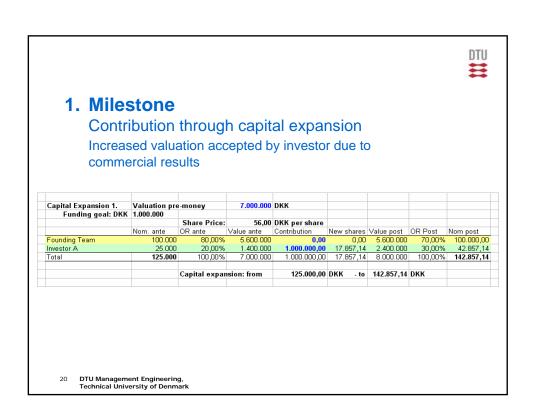
Second Milestone: DKK 10.000.000 ro reach Proof of Profit

Venture Capital Company: private equity Exit: Profits (EBITDA) > 20 mio, DKK/vr.

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

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## 2. Round

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

Achieved pre-money valuation: DKK 10 mio.

Capital Expansion 2.	Valuation pre-money		10.000.000	DKK				
Funding goal: DKK	15.000.000							
		Share Price:	70,00	DKK per share				
	Nom. ante	OR ante	Value ante	Contribution	New shares	Value post	OR Post	Nom post
Founding Team	100.000	70,00%	7.000.000	0,00	0,00	7.000.000	28,00%	100.000,00
Investor A	42.857	30,00%	3.000.000	0,00	0,00	3.000.000	12,00%	42.857,14
Investor B	0	0,00%	0	15.000.000,00	214.285,71	15.000.000	60,00%	214.285,71
Total	142.857	100,00%	10.000.000	15.000.000,00	214.285,71	25.000.000	100,00%	357.142,86
		Capital expar	sion: from	142.857,14	DKK - to	357.142,86	DKK	

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## **EXIT**

Venture-case criterion: Rule 126:

100 mio T/O, 20% revenues (EBITDA = DKK 20 mio.) in 6 years

Valuation principle: Price/earnings

With profits (EBITDA) = 20 mio. DKK and P/E  $\sim$  10 (Solid and perspective company): Price: 10 X 20 mio. DKK = 200 mio. DKK

Exit		Valuation :	200.000.000	DKK			
		Share Price:	560,00	DKK per share			
	Nominal	Ownership	Share value	Cash invested	Return on ca	ash investmer	ıt
Founding Team	100.000	28,00%	56.000.000	50.000	1.120		
Investor A	42.857	12,00%	24.000.000	1.500.000	16		
Investor B	214.286	60,00%	120.000.000	15.000.000	8		
Total	357.143	100,00%	200.000.000	16.550.000			

