Financing Intrepreneurial Ventures

- What investors want?
- What is their basis of evaluation of a firm?
- What are the different sources of capital and how they compensate for risk?
- Why do venture capitalists demand such high return?
- Why equity financing may or may not be appropriate for certain businesses?

At the end of the day, investors





At the end of the day, investors want to get their money back



At the end of the day, investors want to get their money back along with a healthy return.



Therefore, the heart of corporate valuation





Therefore, the heart of corporate valuation is how much future cash a firm can generate.



Value = NPV(Σ future cashflows)



Value = $NPV(\sum future cashflows)$

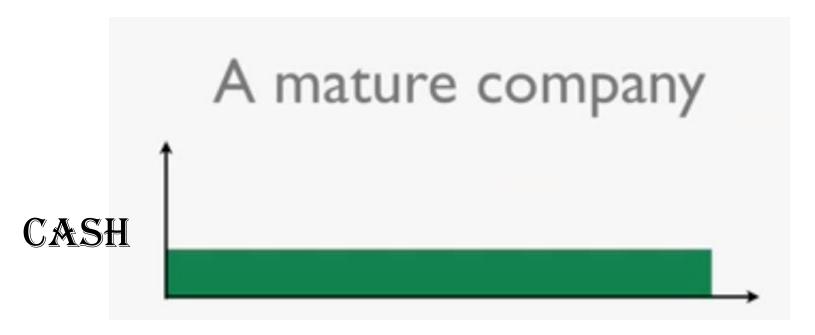


EXPECTED

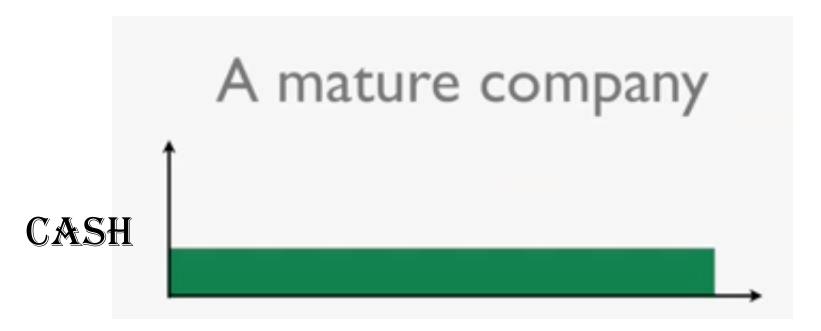
A mature company



- Predictable future cash flows
- No anticipated changes in their environment







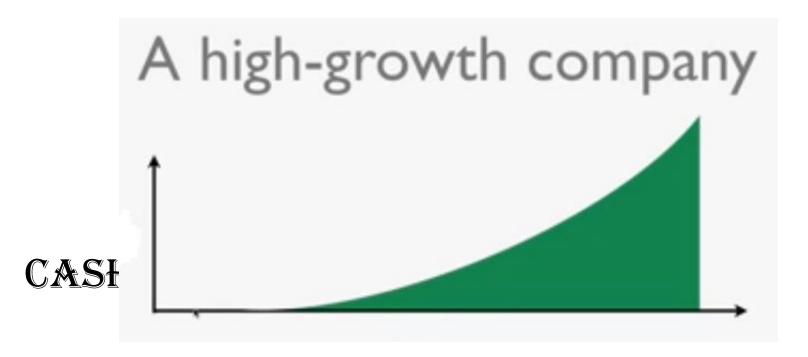


TIME

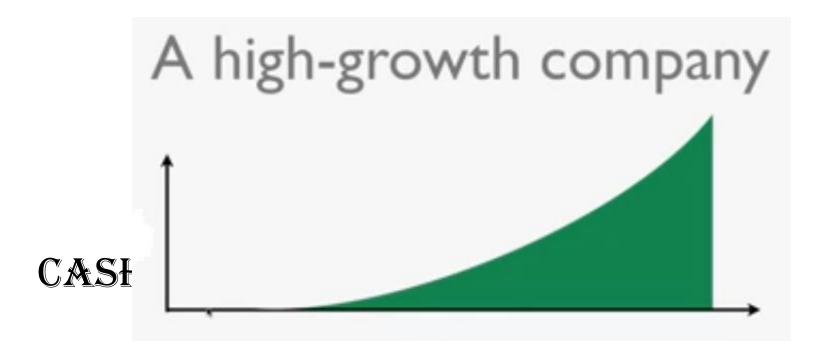


A high-growth company



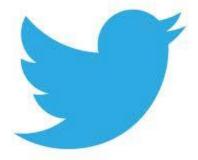








TIME



And how they compensate for risk

	Risk tolerance	Cost*	Compensating mechanisms
Bank	Yery low	P+I	Collateral
Lease	Low	P+5	Collateral, industry focus
Mezzanine	Medium	P+15	Convertible debt
Angel	High	20-40	Equity, board, management
Venture Capital	High	40+	Equity, board, ratchet
Friends & Family	?	?	Their love for you

^{*} Annualized return expressed as a percentage

And how they compensate for risk

	Risk tolerance	Cost*	Compensating mechanisms
Bank	Yery low	P+I	Collateral

With **bank financing**, you go directly to a **bank** and apply for a loan.

^{*} Annualized return expressed as a percentage

And how they compensate for risk

	Risk tolerance	Cost*	Compensating mechanisms
Bank	Yery low	P+I	Collateral
Lease	Low	P+5	Collateral, industry focus

Lease financing is one of the important sources of medium- and long-term **financing** where the owner of an asset gives another person, the right to use that asset against periodical payments. The owner of the asset is known as lessor and the user is called lessee.

^{*} Annualized return expressed as a percentage

And how they compensate for risk

	Risk tolerance	Cost*	Compensating mechanisms
Bank	Yery low	P+I	Collateral
Lease	Low	P+5	Collateral, industry focus
Mezzanine	Medium	P+15	Convertible debt

Mezzanine financing is basically debt capital that gives the lender the rights to convert to an ownership or equity interest in the company if the loan is not paid back in time and in full. It is generally subordinated to debt provided by senior lenders such as banks and sour venture capital companies.

And how they compensate for risk

	Risk tolerance	Cost*	Compensating mechanisms
Bank	Yery low	P+I	Collateral
Lease	Low	P+5	Collateral, industry focus
Mezzanine	Medium	P+15	Convertible debt
Angel	High	20-40	Equity, board, management

An **angel investor** is an **investor** who provides financial backing for small startups or entrepreneurs. **Angel investors** are usually found among an entrepreneur's family and friends. The capital they provide can be a one-time injection of seed money or ongoing support to carry the company through difficult times.

And how they compensate for risk

Risk tolerance	Cost*	Compensating mechanisms

Venture capital financing is a type of financing by venture capital. It is private equity capital provided as seed funding to early-stage, high-potential, growth companies (startup companies) or more often it is after the seed funding round as a growth fundinground (also referred to as series A round)

Venture Capital	High	40+	Equity, board, ratchet
Friends & Family	?	?	Their love for you

^{*} Annualized return expressed as a percentage

And how they compensate for risk



Monies, usually in the form a loan, that a business owner gets from either family members or friends in order to help finance their startup or growing business.

Friends & Family	?	?	Their love for you
			* N. S.

^{*} Annualized return expressed as a percentage

Venture Capitalists

Why such a high rate?

Result	How many	Amount invested	Amount returned
Home run	1	\$1,000	\$15,000
Life style	2	\$2,000	\$2,000
Dogs	7	\$7,000	\$0
Totals	10	\$10,000	\$17,000

A \$10,000 investment that returns \$17,000 in five years yields 11.2% compound annual return.

What VC or Angel funding does to your business. Example 1: A restaurant

2011 2016

What VC or Angel funding does to your business. Example 1: A restaurant

2011 2016

Revenue	1,000,000	100%
cogs	350,000	35%
Gr. Margin	650,000	65%
G&A	500,000	50%
R&D	0	0%
S&M	100,000	10%
EBITDA	50,000	5%
Firm Value*	150,000	
Investment	125,000	
Equity %	45%	

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Firm Value: Assume 3x EBITDA

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Equity %	45%	

Firm Value:

= Assume 3x EBITDA

= 3* 50,000=150,000

Firm Value: Assume 3x EBITDA

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Firm Value*	150,000	
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Investors put up \$125K

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2011

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Gr. Margin	650,000	65%
G&A	500,000	50%
R&D	0	0%
S&M	100,000	10%
EBITDA	50,000	5%
Firm Value*	150,000	7
Investment	125,000	
Equity %	45%	

Total value of the firm after investment:

275K = 150K + 125K

What VC or Angel funding does to your business. Example 1: A restaurant

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S&M	100,000	10%
EBITDA	50,000	5%
Firm Value*	150,000	
Investment	125,000	
Equity %	45%	

45%=125K/(150K+125K)

What VC or Angel funding does to your business. Example I: A restaurant

2011

2016

Revenue	1,000,000	100%
cogs	350,000	35%
Gr. Margin	650,000	65%
G&A	500,000	50%
R&D	0	0%
S&M	100,000	10%
EBITDA	50,000	5%
Firm Value*	150,000	
Investment	125,000	
Equity %	45%	



Revenue	100%
cogs	35%
Gr. Margin	65%
G&A	50%
R&D	0%
S&M	10%
EBITDA	5%
Firm Value	
Investment	
Equity %	

What VC or Angel funding does to your business. Example 1: A restaurant

2011

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R&D	0	0%
S&M	100,000	10%
EBITDA	50,000	5%
Firm Value	150,000	
Investment	125,000	

Equity %

2016

Revenue		100%
cogs		35%
Gr. Margin		65%
G&A		50%
R&D		0%
S&M		10%
EBITDA		5%
Firm Value		
Investment		
Equity %	45%	

A firm value of \$275K (\$150K + \$125K) needs to grow 5X to satisfy VCs.

What VC or Angel funding does to your business. Example I: A restaurant

2011

Revenue

COGS

000,000,1	100%
350,000	35%

Gr. Margin 650,000 65%

G&A 500,000 50% 0% R&D

S&M 100,000 10%

5% **EBITDA** 50,000 Firm Value 150,000

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125,000 Investment Equity % 45%

2016

Revenue		100%
cogs		35%
Gr. Margin		65%
G&A		50%
R&D		0%
S&M		10%
EBITDA		5%
Firm Value	1,375,000	
Investment		
Equity %	45%	

1375K=275K * 5

What VC or Angel funding does to your business. Example 1: A restaurant

2011 2016

Revenue	1,000,000	100%	Revenue		100
cogs	350,000	35%	cogs		359
Gr. Margin	650,000	65%	Gr. Margin		65
G&A	500,000	50%	G&A		509
R&D	0	0%	R&D		0
S&M	100,000	10%	S&M		10
EBITDA	50,000	5%	EBITDA		5
Firm Value	150,000		Firm Value	1,375,000	
Investment	125,000		Investment		
Equity %	45%		Equity %	45%	

Reverse engineering the figures!

What VC or Angel funding does to your business. Example 1: A restaurant

2011

2016

Revenue	1,000,000	100%
cogs	350,000	35%
Gr. Margin	650,000	65%
G&A	500,000	50%
R&D	0	0%
S&M	100,000	10%
EBITDA	50,000	5%
Firm Value	150,000	,
Investment	125,000	
Equity %	45%	

100% Revenue COGS 35% Gr. Margin 65% G&A 50% R&D 0% **S&M** 10% **EBITDA** 458,000 5% Firm Value 1,375,000 Investment Equity % 45%

1,375,000/3=458,333.33: roughly 458,000

What VC or Angel funding does to your business. Example I: A restaurant

2011

1,000,000 Revenue 100% COGS 350,000 35% 650,000 65% Gr. Margin G&A 500,000 50% R&D 0% 0 S&M 10% 100,000 **EBITDA** 50,000 5% 150,000 Firm Value 125,000 Investment 45% Equity %

2016

Revenue	9,160,000	100%
cogs		35%
Gr. Margin		65%
G&A		50%
R&D		0%
S&M		10%
EBITDA	458,000	5%
Firm Value	1,375,000	
Investment		
Equity %	45%	

9,160,000 = 458K/.05

What VC or Angel funding does to your business. Example I: A restaurant

2011

1,000,000 Revenue 100% 35% 350,000 650,000 65% Gr. Margin 500,000 50% 0% 0 10% 100,000 50,000 5% 150,000 Firm Value 125,000 Investment 45% Equity %

2016

Revenue	9,160,000	100%
cogs		35%
Gr. Margin		65%
G&A		50%
R&D		0%
S&M	916,000	10%
EBITDA	458,000	5%
Firm Value	1,375,000	
Investment		
Equity %	45%	

COGS

G&A

R&D

S&M

EBITDA

What VC or Angel funding does to your business. Example I: A restaurant

2011

1,000,000

350,000

650,000

500,000

100,000

50,000

150,000

125,000

45%

0

100% 35% 65% 50% 0% 10% 5%

2016

Revenue	9,160,000	100%
cogs		35%
Gr. Margin		65%
G&A		50%
R&D	0	0%
S&M	916,000	10%
EBITDA	458,000	5%
Firm Value	1,375,000	
Investment		
Equity %	45%	

Revenue

Gr. Margin

COGS

G&A

R&D

S&M

EBITDA

Firm Value

Investment

Equity %

What VC or Angel funding does to your business. Example I: A restaurant

2011

1,000,000 100% 35% 350,000

650,000 65% Gr. Margin

500,000 G&A 50% R&D 0% 0

S&M 10% 100,000

EBITDA 50,000 5%

150,000 Firm Value

125,000 Investment

45% Equity %

2016

Revenue	9,160,000	100%
cogs		35%
Gr. Margin		65%
G&A	4,580,000	50%
R&D	0	0%
S&M	916,000	10%
EBITDA	458,000	5%
Firm Value	1,375,000	
Investment		
Equity %	45%	

Revenue

COGS

What VC or Angel funding does to your business. Example I: A restaurant

2011

1,000,000 Revenue 100% 35% COGS 350,000 650,000 65% Gr. Margin G&A 500,000 50% R&D 0% 0 S&M 10% 100,000 **EBITDA** 50,000 5% 150,000 Firm Value 125,000 Investment 45% Equity %

Revenue	9,160,000	100%
cogs		35%
Gr. Margin	5,954,000	65%
G&A	4,580,000	50%
R&D	0	0%
S&M	916,000	10%
EBITDA	458,000	5%
Firm Value	1,375,000	
Investment		
Equity %	45%	

What VC or Angel funding does to your business. Example I: A restaurant

2011

1,000,000

350,000

650,000

500,000

100,000

50,000

150,000

125,000

45%

0

100%

35%

65%

50%

0%

10%

5%

2016

Revenue	9,160,000	100%
cogs	3,206,000	35%
Gr. Margin	5,954,000	65%
G&A	4,580,000	50%
R&D	0	0%
S&M	916,000	10%
EBITDA	458,000	5%
Firm Value	1,375,000	
Investment		
Equity %	45%	

Revenue

Gr. Margin

COGS

G&A

R&D

S&M

EBITDA

Firm Value

Investment

Equity %

What VC or Angel funding does to your business. Example 1: A restaurant

r	2011			2016	
Revenue	1,000,000	100%	Revenue	9,160,000	100%
COGS	350,000	35%	cogs	3,206,000	35%
Gr. Margin	650,000	65%	Gr. Margin	5,954,000	65%
G&A	500,000	50%	G&A	4,580,000	50%
R&D	0	0%	R&D	0	0%
S&M	100,000	10%	S&M	916,000	10%
EBITDA	50,000	5%	EBITDA	458,000	5%
Firm Value	150,000		Firm Value	1,375,000	
Investment	125,000		Investment	t	
Equity %	45%		Equity %	45%	

900% growth

What VC or Angel funding does to your business. Example 1: A restaurant

2011

900% growth

2016

Revenue	1,000,000	100%
cogs	350,000	35%
Gr. Margin	650,000	65%
G&A	500,000	50%
R&D	0	0%
S&M	100,000	10%
EBITDA	50,000	5%
Firm Value	150,000	
Investment	125,000	
Equity %	45%	



Revenue	9,160,000	100%
cogs	3,206,000	35%
Gr. Margin	5,954,000	65%
G&A	4,580,000	50%
R&D	0	0%
S&M	916,000	10%
EBITDA	458,000	5%
Firm Value	1,375,000	
Investment		
Equity %	45%	

Can the physical plant grow to accommodate # of meals? Does firm generate enough gross margin to make growth investments? Are there enough customers to support 900% growth?

What VC or Angel funding does to your business. Example 2: A software company

2011

Revenue	1,000,000	100%
COGS	50,000	5%
Gr. Margin	950,000	95%
G&A	150,000	15%
R&D	250,000	25%
S&M	400,000	40%
EBITDA	150,000	15%
Firm Value*	450,000	
Investment	125,000	
Equity %	22%	

Revenue	100%
cogs	5%
Gr. Margin	95%
G&A	15%
R&D	25%
S&M	40%
EBITDA	15%
Firm Value	
Investment	
Equity %	

^{*} Assume 3X EBITDA (although this may be low for high margin, high growth companies).

What VC or Angel funding does to your business. Example 2: A software company

2011

2016

Revenue	1,000,000	100%
cogs	50,000	5%
Gr. Margin	950,000	95%
G&A	150,000	15%
R&D	250,000	25%
S&M	400,000	40%
EBITDA	150,000	15%
Firm Value	450,000	
Investment	125,000	
Equity %	22%	



Revenue		100%
cogs		5%
Gr. Margin		95%
G&A		15%
R&D		25%
S&M		40%
EBITDA		15%
Firm Value		
Investment		
Equity %	22%	

A firm value of \$575K (\$450K + \$125K) needs to grow 5X to satisfy VCs.

What VC or Angel funding does to your business. Example 2: A software company

2011

2016

Revenue	1,000,000	100%
cogs	50,000	5%
Gr. Margin	950,000	95%
G&A	150,000	15%
R&D	250,000	25%
S&M	400,000	40%
EBITDA	150,000	15%
Firm Value	450,000	
Investment	125,000	
Equity %	22%	



Revenue		100%
COGS		5%
Gr. Margin		95%
G&A		15%
R&D		25%
S&M		40%
EBITDA		15%
Firm Value	2,875,000	
Investment		
Equity %	22%	

2875K=575K * 5

What VC or Angel funding does to your business. Example 2: A software company

2011

Revenue	1,000,000	100%
cogs	50,000	5%
Gr. Margin	950,000	95%
G&A	150,000	15%
R&D	250,000	25%
S&M	400,000	40%
EBITDA	150,000	15%
Firm Value	450,000	
Investment	125,000	
Equity %	22%	

2016

Revenue		100%
COGS		5%
Gr. Margin		95%
G&A		15%
R&D		25%
S&M		40%
EBITDA		15%
Firm Value	2,875,000	
Investment		
Equity %	22%	

Reverse engineering the figures

What VC or Angel funding does to your business. Example 2: A software company

2011

1,000,000 100% Revenue 5% 50,000 COGS Gr. Margin 95% 950,000 15% G&A 150,000 R&D 250,000 25% S&M 400,000 40% 150,000 **EBITDA** 15% Firm Value 450,000 125,000 Investment Equity % 22%

2016

Revenue		100%
COGS	THE STATE OF	5%
Gr. Margin		95%
G&A		15%
R&D		25%
S&M		40%
EBITDA	958,000	15%
Firm Value	2,875,000	
Investment		
Equity %	22%	

1 2,875,000/3=: roughly 958,000

What VC or Angel funding does to your business. Example 2: A software company

2011

Revenue	1,000,000	100%
cogs	50,000	5%
Gr. Margin	950,000	95%
G&A	150,000	15%
R&D	250,000	25%
S&M	400,000	40%
EBITDA	150,000	15%
Firm Value	450,000	
Investment	125,000	
Equity %	22%	

2016

Revenue	6,386,000	100%
cogs	THE STATE OF THE S	5%
Gr. Margin		95%
G&A		15%
R&D		25%
S&M		40%
EBITDA	958,000	15%
Firm Value	2,875,000	
Investment		
Equity %	22%	

16,386,000 = (958,000/.15)

What VC or Angel funding does to your business. Example 2: A software company

2011

Revenue	1,000,000	100%
cogs	50,000	5%
Gr. Margin	950,000	95%
G&A	150,000	15%
R&D	250,000	25%
S&M	400,000	40%
EBITDA	150,000	15%
Firm Value	450,000	
Investment	125,000	
Equity %	22%	

Revenue	6,386,000	100%
cogs	100 to 100 to 100 to 100 to	5%
Gr. Margin		95%
G&A		15%
R&D		25%
S&M	2,554,000	40%
EBITDA	958,000	15%
Firm Value	2,875,000	
Investment		
Equity %	22%	

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Firm Value	450,000	
Investment	125,000	
Equity %	22%	

Revenue	6,386,000	100%
COGS	100 to 100 to 100 to 100 to	5%
Gr. Margin		95%
G&A		15%
R&D	1,596,000	25%
S&M	2,554,000	40%
EBITDA	958,000	15%
Firm Value	2,875,000	
Investment		
Equity %	22%	

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EBITDA	150,000	15%
Firm Value	450,000	
Investment	125,000	
Equity %	22%	

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COGS	ATTENDED TO THE PERSON	5%
Gr. Margin		95%
G&A	957,000	15%
R&D	1,596,000	25%
S&M	2,554,000	40%
EBITDA	958,000	15%
Firm Value	2,875,000	
Investment		
Equity %	22%	

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Firm Value	450,000	
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Equity %	22%	

Revenue	6,386,000	100%
COGS	THE STATE OF	5%
Gr. Margin	6,069,000	95%
G&A	957,000	15%
R&D	1,596,000	25%
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Investment	125,000	
Equity %	22%	

Revenue	6,386,000	100%
COGS	319,000	5%
Gr. Margin	6,069,000	95%
G&A	957,000	15%
R&D	1,596,000	25%
S&M	2,554,000	40%
EBITDA	958,000	15%
Firm Value	2,875,000	
Investment		
Equity %	22%	

What VC or Angel funding does to your business. Example 2: A software company

5%

2011

1,000,000 100% 50,000

Gr. Margin 95% 950,000

15% G&A 150,000 R&D 250,000 25%

S&M 400,000 40%

150,000 **EBITDA** 15%

450,000 125,000 Investment

Equity % 22% 2016

Revenue	6,386,000	100%
cogs	319,000	5%
Gr. Margin	6,069,000	95%
G&A	957,000	15%
R&D	1,596,000	25%
S&M	2,554,000	40%
EBITDA	958,000	15%
Firm Value	2,875,000	
Investment		
Equity %	22%	
	COGS Gr. Margin G&A R&D S&M EBITDA Firm Value Investment	COGS 319,000 Gr. Margin 6,069,000 G&A 957,000 R&D 1,596,000 S&M 2,554,000 EBITDA 958,000 Firm Value 2,875,000 Investment

Growth is over 600 percent

Revenue

COGS

Firm Value

What VC or Angel funding does to your business. Example 2: A software company

2011

Revenue	1,000,000	100%
cogs	50,000	5%
Gr. Margin	950,000	95%
G&A	150,000	15%
R&D	250,000	25%
S&M	400,000	40%
EBITDA	150,000	15%
Firm Value	450,000	
Investment	125,000	
Equity %	22%	

2016

Revenue	6,386,000	100%
COGS	319,000	5%
Gr. Margin	6,069,000	95%
G&A	957,000	15%
R&D	1,596,000	25%
S&M	2,554,000	40%
EBITDA	958,000	15%
Firm Value	2,875,000	
Investment		
Equity %	22%	

What physical plant? Geography doesn't limit customers. And tons of gross margin flexibility.

What VC or Angel funding does to your business. Example 1: A restaurant

2011

900% growth

2016

Revenue	1,000,000	100%
cogs	350,000	35%
Gr. Margin	650,000	65%
G&A	500,000	50%
R&D	0	0%
S&M	100,000	10%
EBITDA	50,000	5%
Firm Value	150,000	
Investment	125,000	
Equity %	45%	



Revenue	9,160,000	100%
cogs	3,206,000	35%
Gr. Margin	5,954,000	65%
G&A	4,580,000	50%
R&D	0	0%
S&M	916,000	10%
EBITDA	458,000	5%
Firm Value	1,375,000	
Investment		
Equity %	45%	

Can the physical plant grow to accommodate # of meals? Does firm generate enough gross margin to make growth investments? Are there enough customers to support 900% growth?

Lessons

- Investors want their money back with a healthy return.
- · Value is in the eye of the beholder.
- Understand the potential sources of capital available to your venture and write your business plan accordingly.

Thank You for fistening!

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References

- · Source: Alex Glassy (2011).
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