



DOE SBIR/STTR Phase I R1 Conference August 9, Rockville, MD

Funding Founders: Funder's View 3 Truths, 2 Lessons, 1 Advice

Ferey Faridian







Your Presenter: Ferey Faridian



Partner, Newport Board Group - a national firm of CEO advisers and Board Members serving middle market companies and PE/Mutual funds



Larta PA to over 130 SBIR/STTR High-tech CEOs/PIs since 2008



Past DOE Phase I & II grantee

Career: CEO in VC backed companies, VC Partner, PE Principal, investment Banker, Fortune 500 Corporate Strategy Consultant

Investment screening on over 1,000 companies

Engineering and fast-track product development background

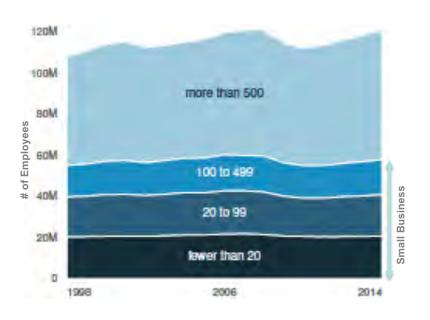
PhD EE University College, London, MBA, Finance Cambridge University





The Challenge for the Small Business Founder ... is to make it Big!

29.6m Small Businesses in U.S.



99.9% OF U.S. BUSINESSES

57.9m Employees

47.8% OF ALL U.S. JOBS

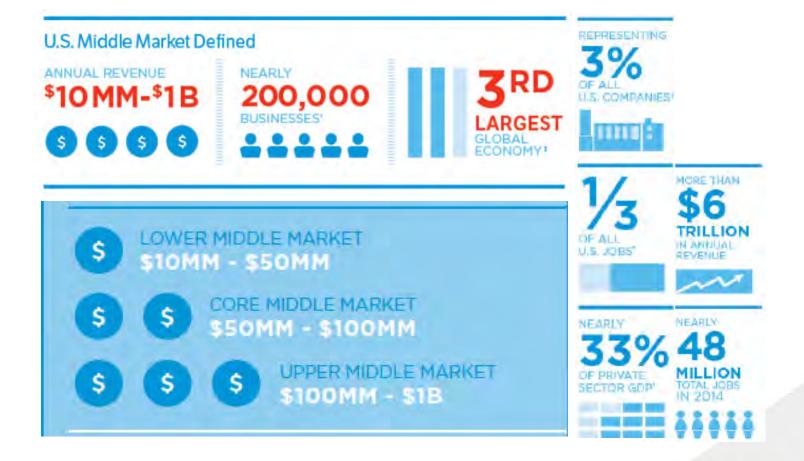
Small Businesses Drive Economic Growth and Job Creation







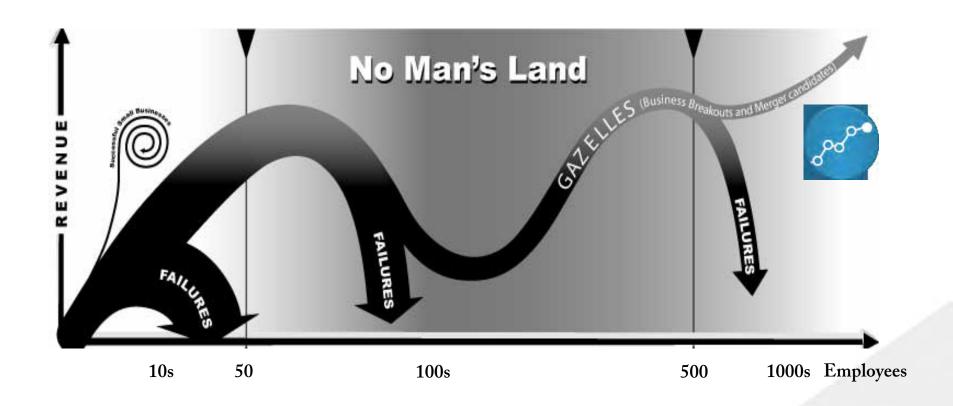
The Next Level of Big is ... The Mighty Middle Market







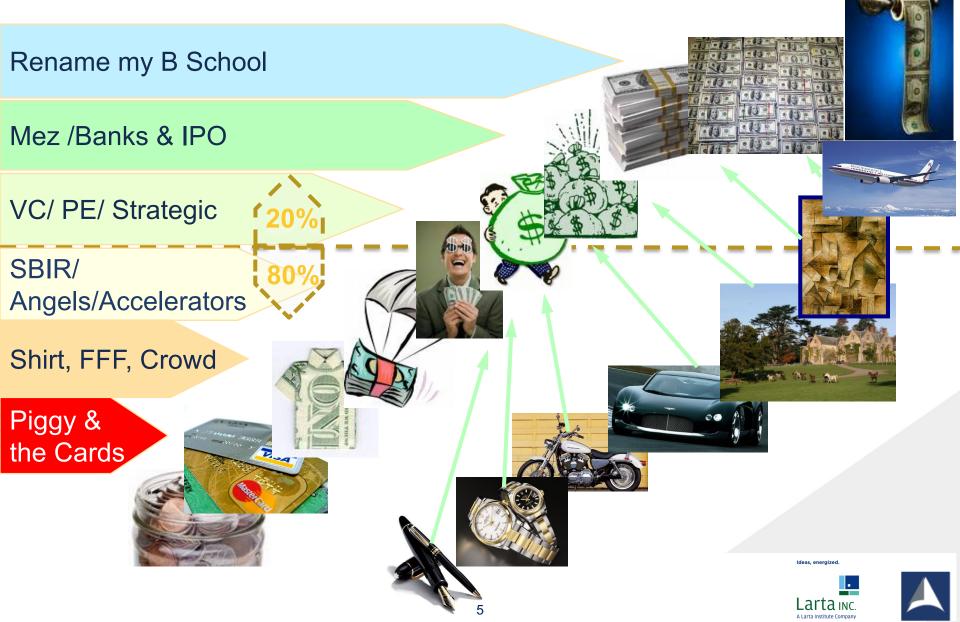
The reward for getting out of No Man's Land i.e. over 100 employees is greater than ever







So the Entrepreneur Dreams: Success = Tech. Innovation + Money...



...and the Founder Pitcheth

Big market!

A common claim

Unique offering!

Strong management!

Scalable business!

Great returns!

All we need is Money!

Good presentation!





...but the Funder Thinketh

Claim

Perception

A Common Perception

Big market!

Unique offering!

Strong management!

Scalable business!

Great returns!

Good presentation!

All we need is Money!

Zero sales!

No patents!

Need our own CEO!

Hockey stick!

High risk!

Hyperbole - Being sold to!

Inexperienced!







The 1st Truth

Investors are reasonable and truth-seeking They think in terms of Risk/Return in their Portfolio



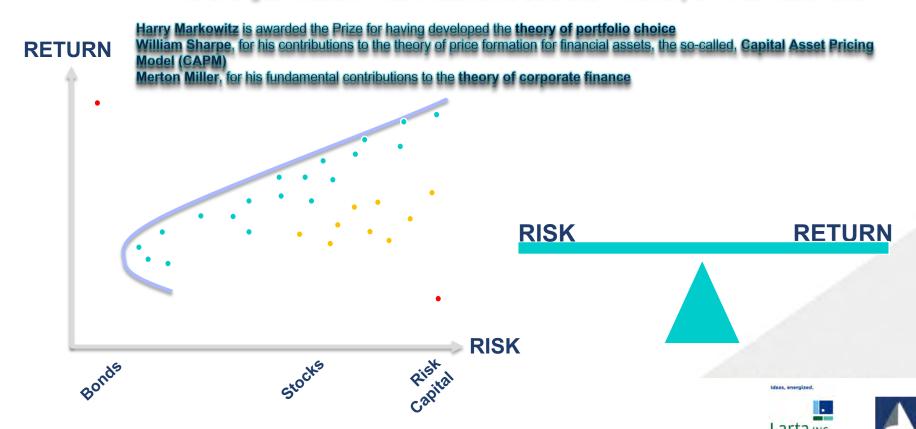


Portfolio Theory: The Efficient Frontier of Risk/Return



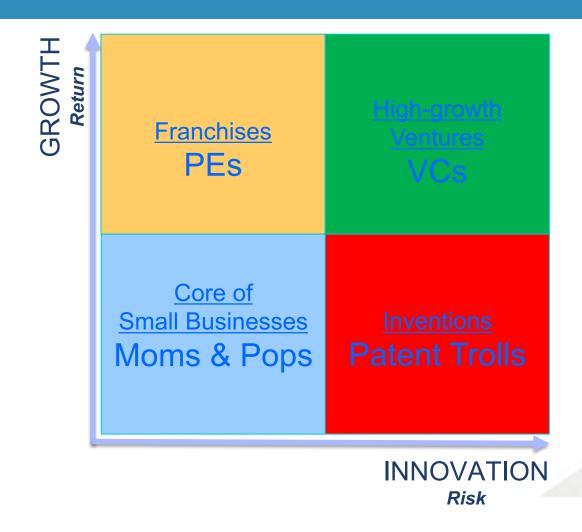


The Sveriges Riksbank Prize in Economic Sciences in Memory of Alfred Nobel 1990



Risk/Return is a Basis for the Investment Thesis

Lower for **PE**: Later Rounds, Numbers, Momentum, Growth Higher for **VC**: Early Rounds, People, Acceleration, Scale





How the VC assesses the attractiveness of an opportunity

Is it True? Is it Reasonable?

Quality Introduction, the team

The story, how it is pitched and due diligence

Risk/return assessment, analysis/mitigation & match to thesis

Market Risk - Selling, Competing and Scaling; Evidence

Management Risk – Mission; Team; Culture; Strategy

Model Risk - Production & IP; Competitive Offering

Money Risk - Funding & Exit; ROI; Sources & Uses





M is for...

Mitigating
The 4 Mms

Analysis Risk/Return

Market

Management

Model

Money

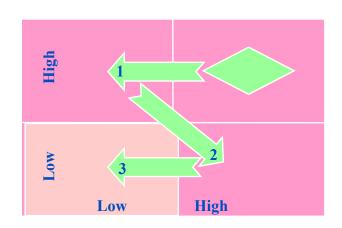
Market Risk!

Execution Risk!

Tech. Risk!

Financial Risk!

Financial Risk



Business Risk

Background Checks

Market Research (Secondary & primary)

Competitive Analysis, Regulations

Strategy (Assessment, Vision, Mission, Core

Competencies, Value Proposition, 5 Forces,

SWOT, KSF, Value Chain, Product roadmap,

Scorecard, KPIs, Canvas, ...)

Financial Modeling

Syndication







The 2nd Truth

Investors use mathematics to seek truth and reason

"What is reasonable is true and what is true is reasonable"-Hegel





The Investor's Quantum Theory of Success

Which is K & Which is P?

Role Reversal

VC $E=mC^2$ Weight and Acceleration

 $egin{aligned} \mathbf{PE} \ & E = pv \ & & & & & & & \\ \mathbf{Momentum} \ & & & & & & & \\ \mathbf{Momentum} \ & & & & & & \\ \mathbf{Momentum} \ & & & & & & \\ \mathbf{Momentum} \ & & & & \\ \mathbf{Momentum} \ & & & & \\ \mathbf{Momentum} \ & & & \\ \mathbf{Momentum} \ & & & \\ \mathbf{Momentum} \ & \\ \mathbf{Momentum} \ & & \\ \mathbf{Momentum} \ & & \\ \mathbf{Momentum} \ & \\ \mathbf{Momentum} \ & & \\ \mathbf{Momentum} \ & \\ \mathbf{Momentum} \$





The Investor's Simple Math



Annual Returns	5yrs	7yrs
5x	38%	26%
10x	58%	39%







The Ultimate Truth

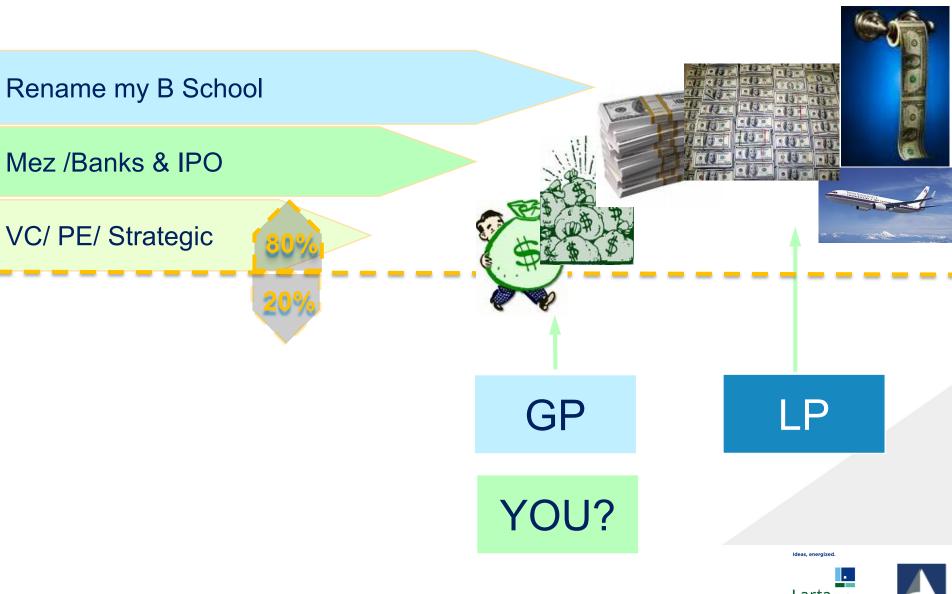
Investors are human and have dreams in the pursuit of happiness

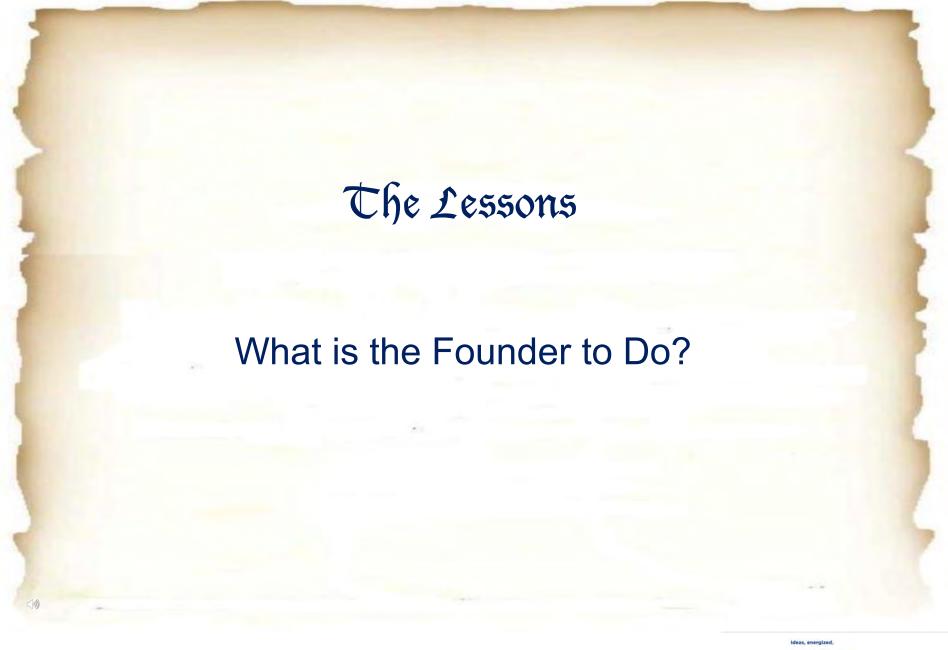




Investor's Dream of Success:

Money + Compound Interest + Portfolio Strategy = Geometric Progression







Lesson 1. Prepare for Growth and Exit



MARKET



MANAGEMENT

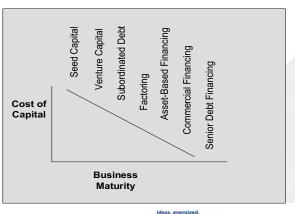


MODEL



MONEY





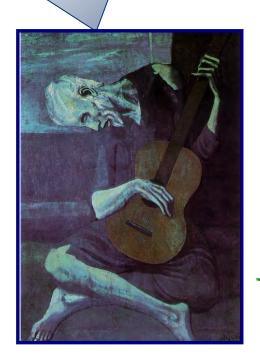




Lesson 2. Persevere (To Convince have Conviction)

"Be sure of it; give me the ocular proof" - Shakespeare in Othello

BUILD Product/Service 1,000 lines of Code, IP System Documentation Beta customers, Regulatory



SELL
Accretive Revenues from
Products/ Services
Partnerships, Contracts





SCALE
Profitable Business
Scaling/ Financing
Order Pipeline

From a Culture of Control to Professionalization & Excellence





The Advice

The merit is not in the funding but in the longer game... in achieving the economic and societal impact of your mission!

"Charms strike the sight, but merit wins the soul" - Alexander Pope





Thank You!

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Examples of VC Lists

- 1. https://massinvestor.com
- 2. https://www.crunchbase.com/search/principal.investors
- 3. https://www.cbinsights.com/investor-analytics
- 4. https://pitchbook.com
- 5. http://www.whogotfunded.com
- 6. https://www.vcprodatabase.com
- 7. http://www.thefunded.com
- 8. https://docs.google.com/spreadsheets/d/1ebGZ6-ivf 3woBGC4Kz 3217DhjGsefoRu 5iP3nuFQ/edit#gid=0
- 9. https://www.vcgate.com/res_venture_capital_database.asp
- 10. https://www.preqin.com/type/venture-capital/1/13
- 11. http://www.ventureintelligence.com/pelogin.php
- 12. https://financial.thomsonreuters.com/en/products/data-analytics/market-data/indices/venture-capital-index.html
- 13. https://angel.co/accelerators/apply
- 14. https://seed-db.com/accelerators
- 15. https://shop.pehub.com/pratts-guide







Sources of funds

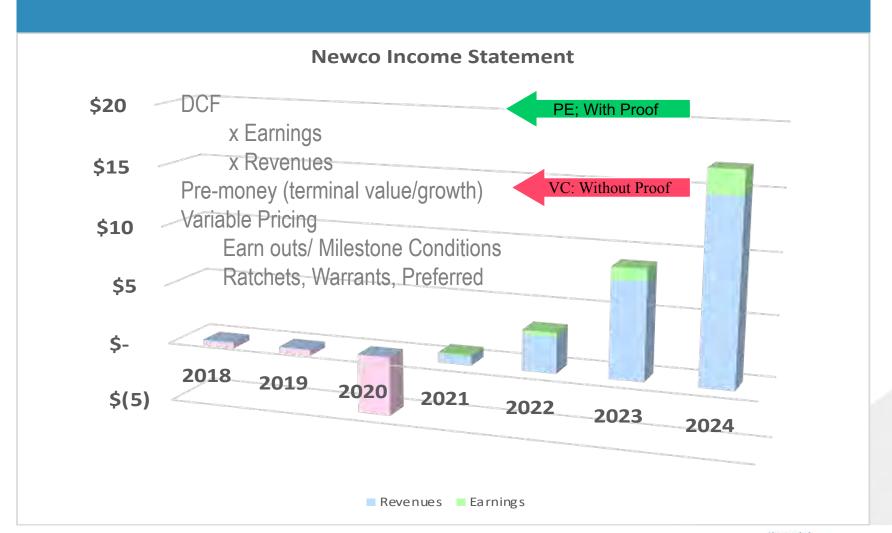
Options

- Credit Cards
- > FFF
- Angel Investors
- Venture Capitalists
- Venture Debt
- Banks and Factoring
- Crowd Funding & ICOs
- Grants

Cost

- **10-25%**
- **>** 10%
- \$250K FOR 25%
- > \$5M FOR 50%
- **10-13%**
- > 5-7.5%
- O-100%
- ▶ 0%

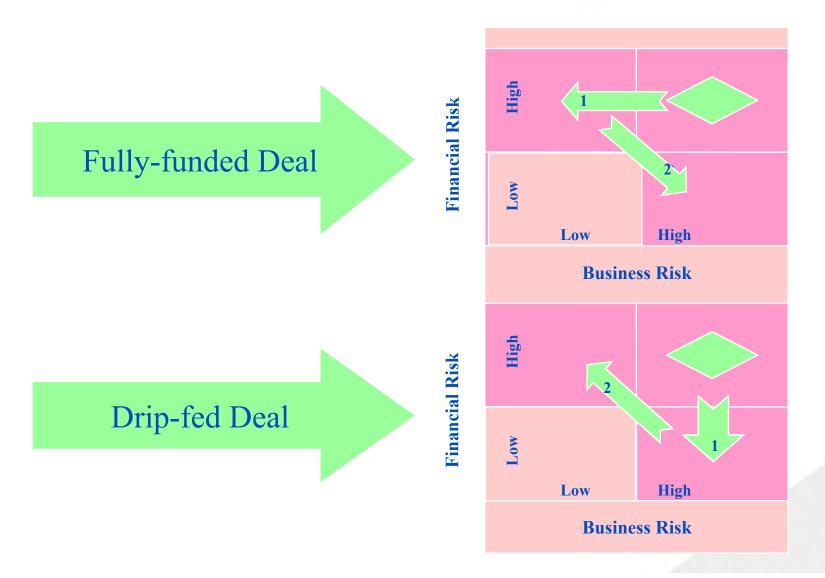
Valuation is about stages of risk and return: look at profitability factors, growth





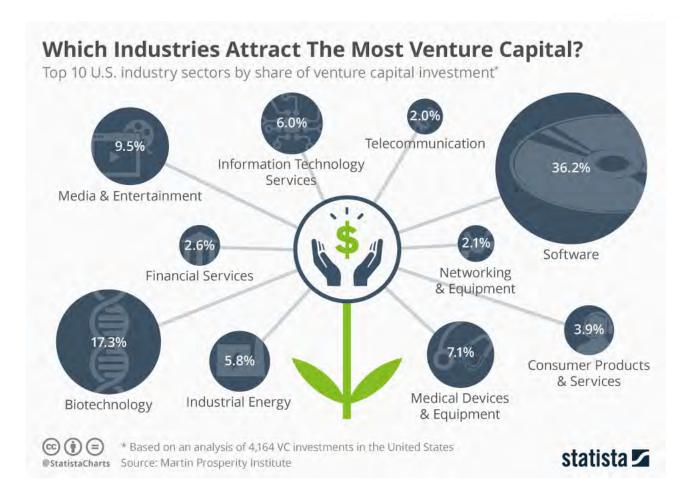


Speed of money: Managing Financial Risk









https://www.statista.com/chart/5528/which-industries-attract-the-most-venture-capital/





Venture Capital

Pros

- Large funding
- Ideal for scalable business
- Value-added services
- Leverageable (venture debt)

Cons

- High dilution
- Board Seat
- Control
- Time consuming
- High-maintenance?





Debt: Term Loans, Revolving Line of Credit, Monthly Recurring Revenues (MRR) line, Venture debt, Factoring (Revenues, Order Book, Assets, IP)

Pros

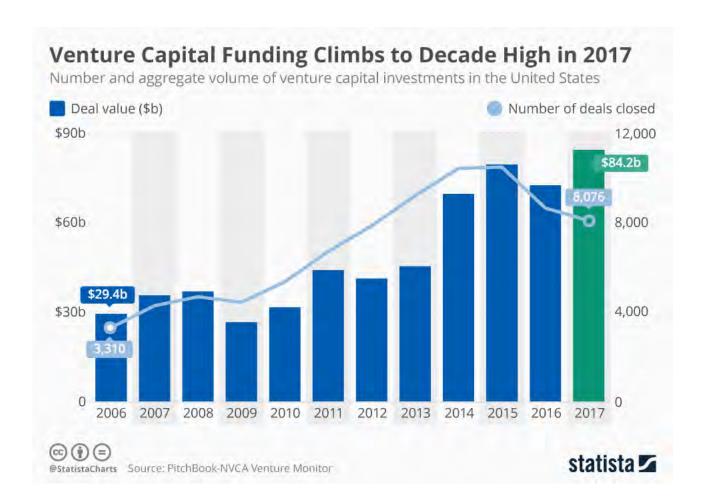
- No equity or control loss
- No personal guarantees
- Great to leverage for scale when the going is good

Cons

- Covenants and conditions
- Warrants
- Interest rates 7-15%
- Dangerous when the going is tough
- ➤ 10-13%, 4 yrs, fees, warrants, 30%-100% of last round for runway extension







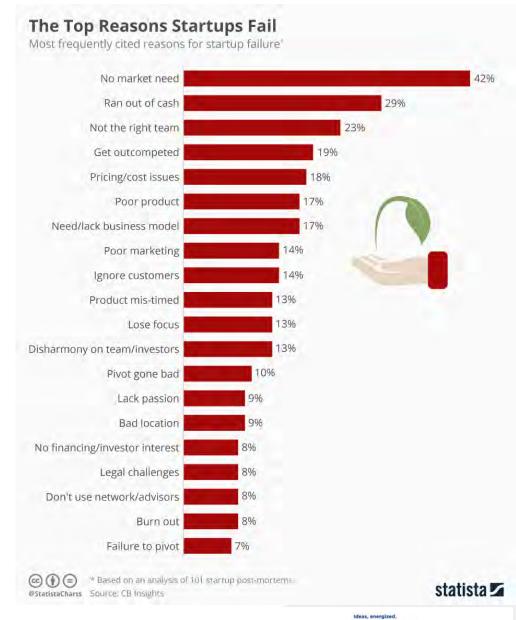
https://www.statista.com/chart/11443/venture-capital-activity-in-the-us/





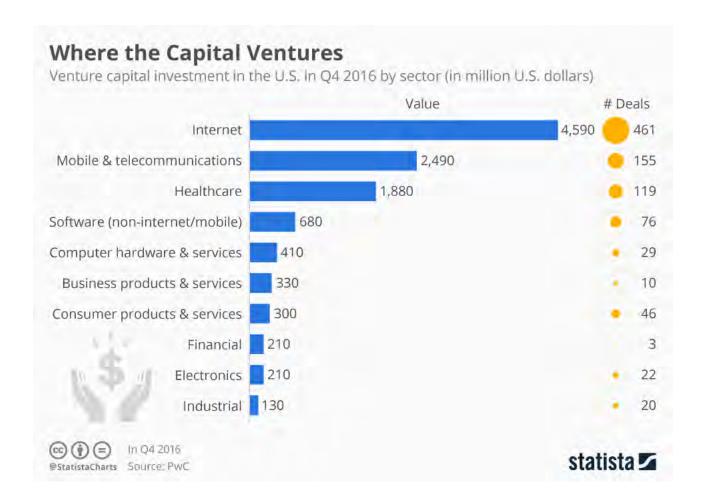
What types of financing has your company used within the past 12 months to meet your capital needs? (Check all that apply)

	Dec. 20
Samings of the business	32%
Credit cards	31%
Lerge Bank Loan	15%
Community Bank Loon	14%
Private loan (friends or family)	13%
fendor credit	12%
essing	5%
Small Business Administration (SBA) loan	4%
Online or non-bank lender	3%
/enture capital/Angel investors	3%
Private placement of debt	3%
Credit Union Loan	2%
selling/pledging accounts receivable	2%
State/Regional Loan and Incentive Programs	2%
Private placement of stock	1%
Crowdfunding	1%
Public Issuance of stock	0%
Other	7%
Jaed no financing	31%





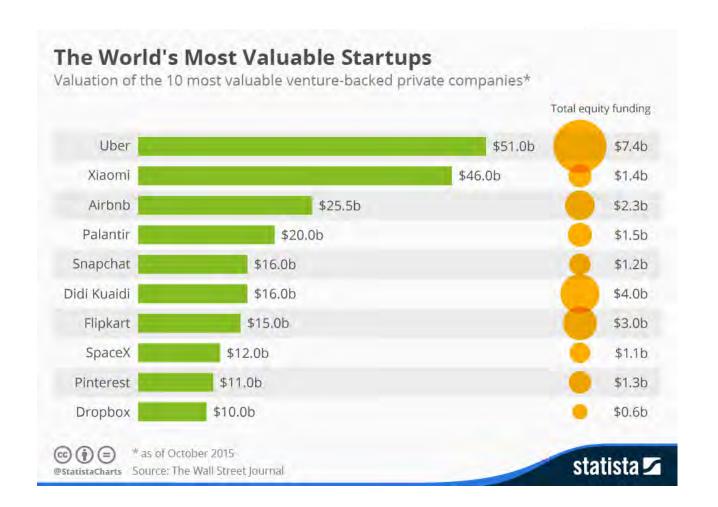




https://www.statista.com/chart/8388/where-the-capital-ventures-in-america/



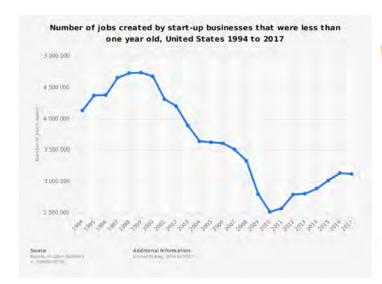


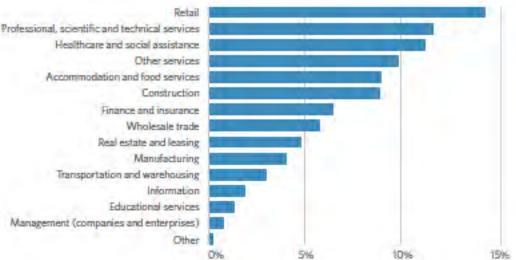


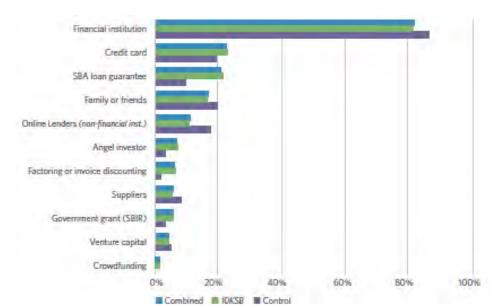
https://www.statista.com/chart/3904/worlds-most-valuable-startups/











US Small Business Industry Distribution

Small Business Funding Source Distribution

https://www.statista.com/statistics/235515/jobs-created-by-start-ups-in-the-us/

"The State of Small Business in America - 2016", Babson Study, Goldman Sacks 10,000Small Businesses



