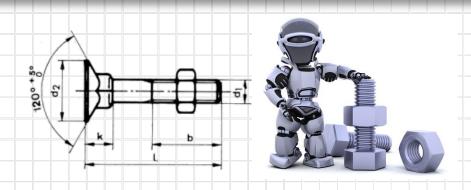


The Nuts and Bolts of New Ventures MIT Course 15.393 (35th Year)



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Session 1 – Part 1

Introduction to New Ventures





Why Are You Here?

- You don't know anything about Entrepreneurship and want to understand what it's about
- You see something that "Sucks" and want to make it better
- You have an Idea or Invention and want to bring it to life in some way – To Change The World
- Being an Entrepreneur is Glamorous and I can make a lot of money



January 2024



So Many Questions You Need To Answer

- How Do I Start? What Do I Do?
- What is the Problem that I am solving?
- How does my Solution Solve that Problem?
- "Who Cares About my Idea?" Specifically Who Cares?
 - Who is my Customer?
 - How do I find these people?





Questions You Need To Answer

- How will I make money so I can have a sustainable venture - this is the Business/Venture Model
- How long will it take to bring my solution to market?
 What will it cost? What resources will I need people, money etc.
- Will I need set up some sort of entity to do all this and attract investors and people? Corporation? LLC?





January 2024



Questions You Need To Answer

- How Do I Keep People from Stealing my Ideas?
- Will I need co-founders and what will be our relationship with each other and the entity?
 Founders Agreement?
- How will I negotiate with employees, consultants, investors, strategic partners?





Questions You Need To Answer

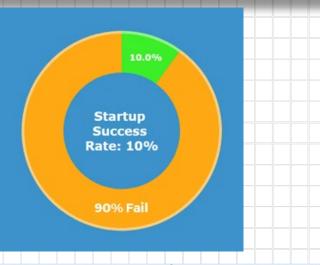
- How do I figure out what I don't know?
- What are the "pot holes' in the road that may come up and how will I recognize them and hopefully avoid or minimize them?
- There are a lot of moving pieces here Why Do This?



What's The Reward?







FAILURE RATES OF STARTUPS

FALL SHORT OF MEETING

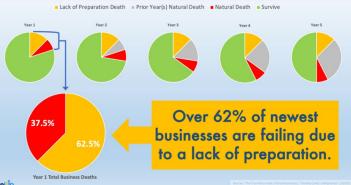
PROJECTIONS

FAIL TO SEE PROJECTED









LIQUIDATE **40%** LOSE MOST OR ALL INVESTMENT





us sources including Harvard Business School, University of Tennessee Research, StatisticBrain.com, and others.





Entrepreneurial Impact: The Role of MIT

Edward B. Roberts and Charles Eesley MIT Sloan School of Management

February 2009

- 2009 Kaufman Study
- 25,800 currently active companies founded by MIT alums (120K total)
- Employ about 3.3 million people
- Annual world revenues of \$2 trillion
- equivalent of the 11th
 largest economy in the world.



KAUFFMAN The Foundation of Entrepreneursl







Why This Course?

- Not About Theory -- It's About DOING
- Planning and Executing New Ventures
 - Not Just Business Sloan School of <u>Management</u>
- Our Goal Increase Your Probability of Success so You are in the 10% that Succeed
- Entrepreneurship is a Lifetime, Incurable Disease
 - Not Fatal, Highly Contagious and Transforming
 - A Full Contact Sport





What Will You Get?

- You invest 6 evenings in this course
- You Get new or enhanced skills:
 - How to Evaluate a venture idea from an impact and economic viewpoint
 - ➤ How to figure out Who is My Customer, Who Wants What I Have?
 - Where and How do I get the financial resources to launch and grow my venture?
 - > How do I Scale my venture and make it Sustainable?
 - > How do I Build and retain a top notch Team employees and advisers?
 - ➤ How do I Negotiate deals and resolve team conflicts?
 - What are the Legal Pitfalls I need to know about?
 - How do I Pitch my venture idea?







Personal Questions For You

There are a lot of moving pieces here:

- Do I Really Want To Do This?
- Should I Do This?
- Why Am I Doing This?
- Now or Later?
- Is This For Me?





Tonight's Plan

- Who are You?
- Introduce our Teaching Team
- New Ventures Overview
- Break Team Building
- Bob Jones "Finding Your Customer"



Who Are You?

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- Students:
 - Engineering
 - Science
 - Architecture/Planning
 - Management/Economics
 - Other
- Non-Student Participants:
 - Alums
 - Staff
 - Others

Interest Group	# People
Al/Machine Learning	153
Biotech	66
Cleantech	50
Education	60
Energy	40
Enterprise Hardware/Software	55
Environment	48
Fintech	59
Health Care	68
Medical Devices	50
Internet	68
IoT - Internet of Things	56
Mobile Apps	44
Social Entrepreneurship	87
Developing World Problems	63
Other	3
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Who Are We?

- Highly <u>UnPaid</u> Volunteer Speakers Who Have Done/Are Doing What They Will Be Talking About
- Teaching Assistants
 - Week 1: Sam Oppenheimer
 - Week 2: Aaron Thornton





Who Are We?

- Joe Hadzima
 - Involved in launching 120+ new ventures
 - Senior Lecturer MIT Sloan School
 - Former Law Partner, Sullivan & Worcester LLP
 - Founding Judge, MIT \$100K Competition
 - Global Chairman Emeritus, MIT Enterprise Forum, Inc.
 - Managing Director, Main Street Partners
 - Co-Founder and President, <u>IPVision, Inc.</u> and Neurostim Technologies
 - jgh@mit.edu







Who Are We?

nutsandbolts-ta@mit.edu

- Sam Oppenheimer
- 2025 MIT Sloan MBA Candidate
- Co-founder of Dooka, an African B2B marketplace
- Masters in Physics from Oxford University
- Co-Managing Director MIT
 \$100K Competition
- LinkedIn





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Who Are We?

nutsandbolts-ta@mit.edu

- Aaron Thornton
- 2025 MIT Sloan MBA Candidate
- Deputy Cybersecurity Department
 Head at the U.S. Navy, Hopper
 Information Services Center in
 Washington DC
- S.B Mech Eng, George Washington
 University; M.S. Mech Eng, Penn
 State
- LinkedIn





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All You Need To Do Is:

- It is a Really Simple Concept (whether you are doing a mobile app, a biotech company or a non-profit social developmental company):
 - Create Value
 - Capture/Harvest some of the Value Created (so you can do it again)



The 3 Whys

- Why This?
 - Why is this Idea Worth Pursuing or Investing In?
 - Size of Market? Problem Worth Solving?
- Why Now?
 - Why is Now the Right Time to Do This?
 - Convergence of Opportunity and Solution?
- Why This Team?
 - Why Do I Think These People Will Win?
 - Prior Experience? Compelling Venture Model?
- The 4th Why: Why Won't This Work?





Lessons Learned

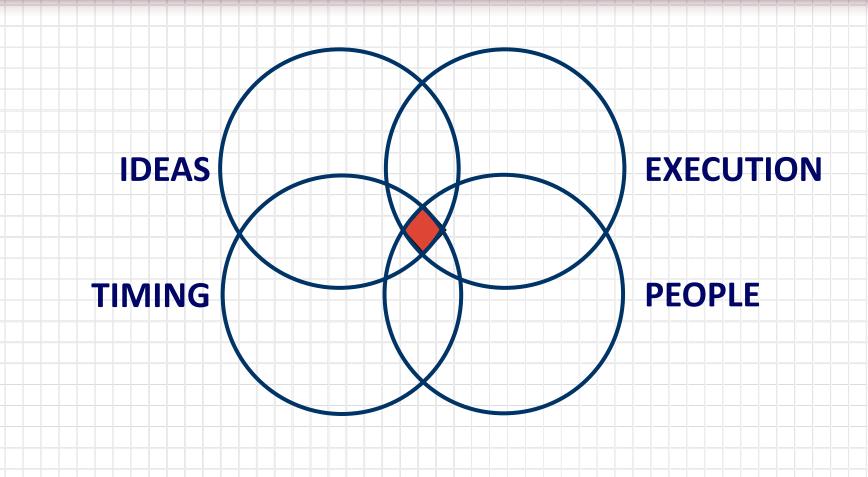
- What Have I Learned and How I Can Help You Succeed?
- 4 Critical Components for Success



January 2024



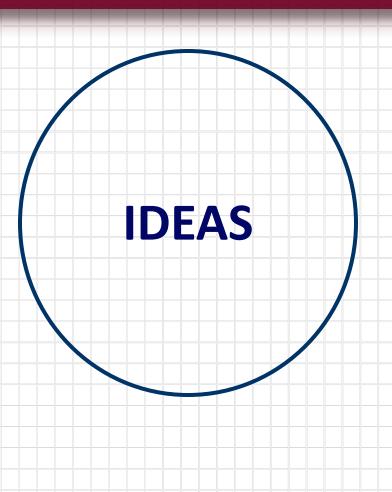
Lessons Learned



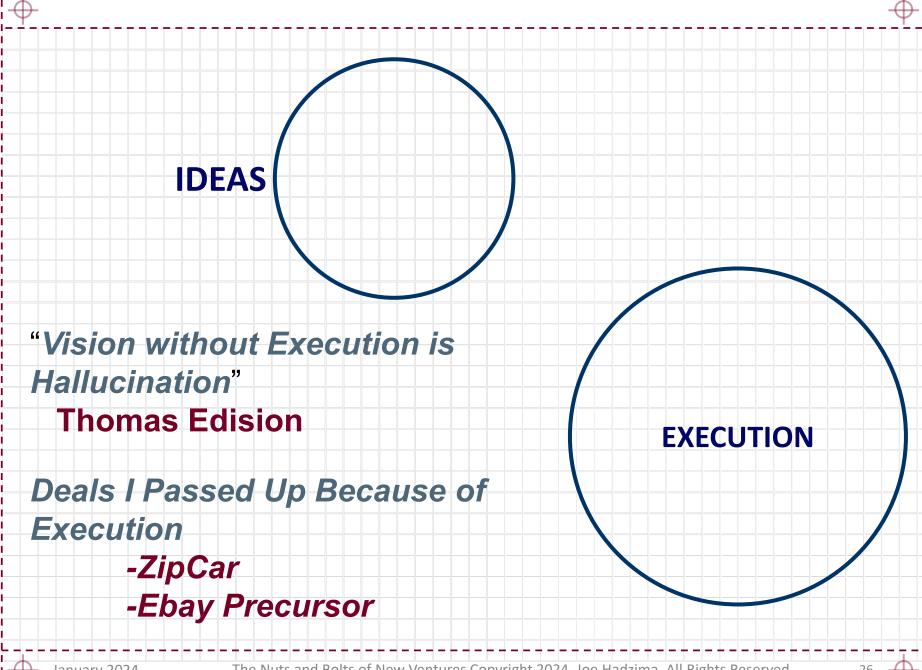


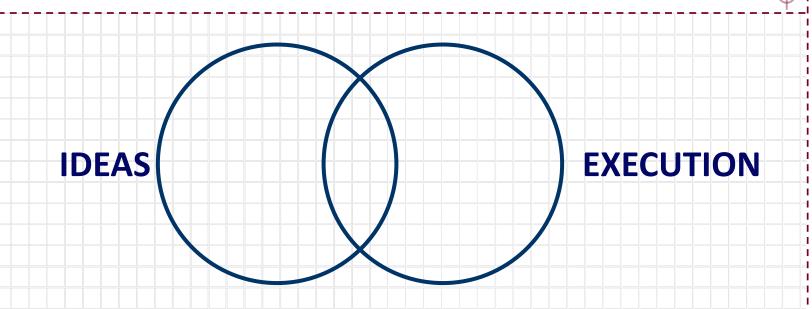


What Makes an Idea Valuable?



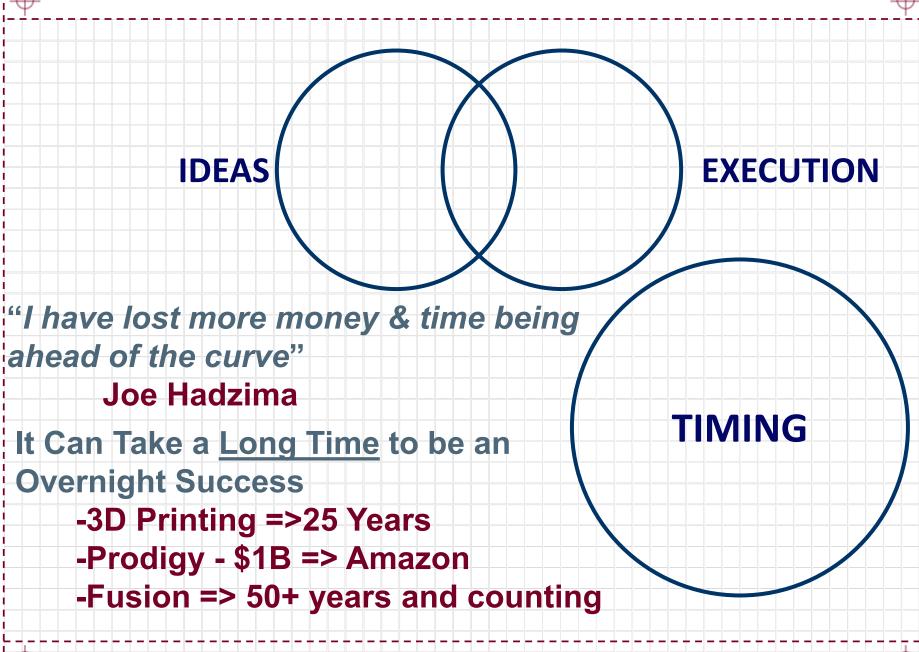
- Ideas are a Dime a Dozen
- Value to Someone –Who?
- How Much Value?
 - Cost toProduce/Deliver
 - How to Capture?
- Is it Easily Copied?

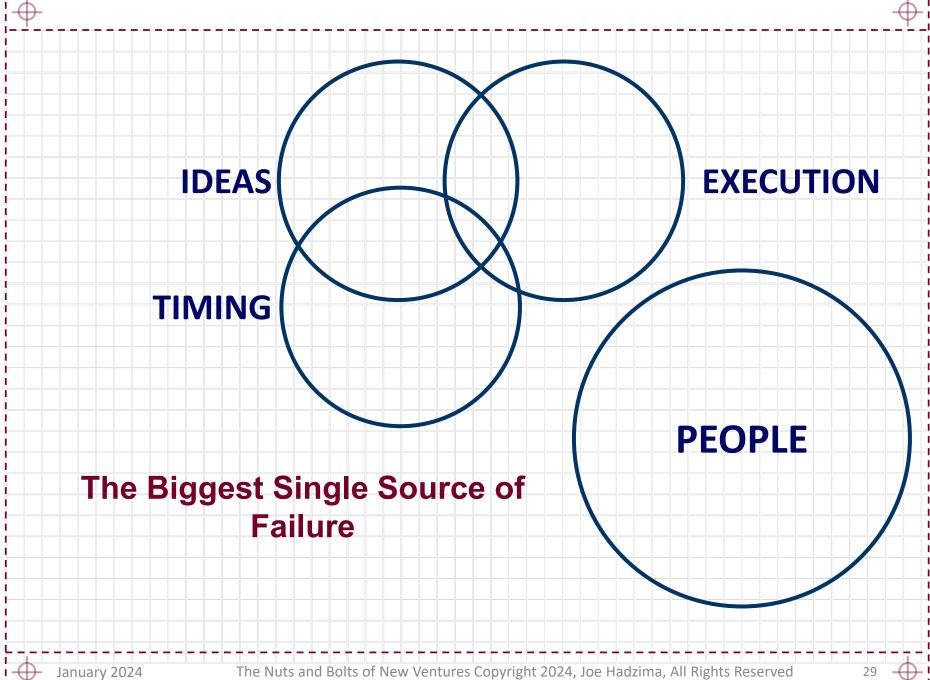


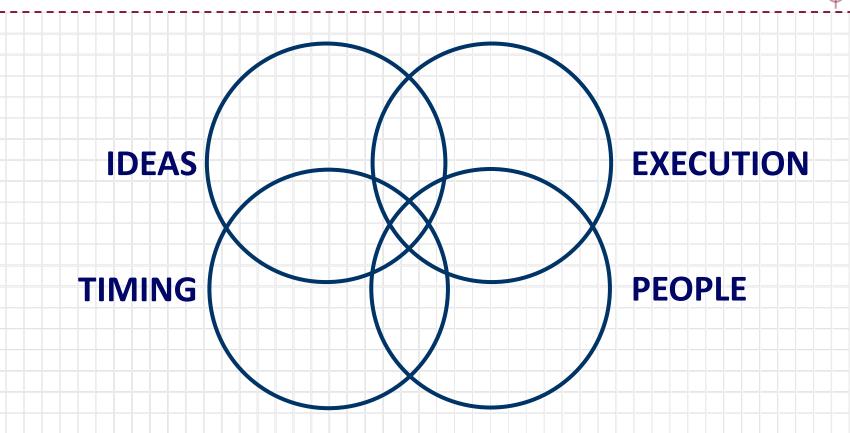


MIT Ecosystem is about Ideas + Execution: "Mens et Manus"

LESSON: Ideas + Execution are Necessary but NOT Sufficient for Success



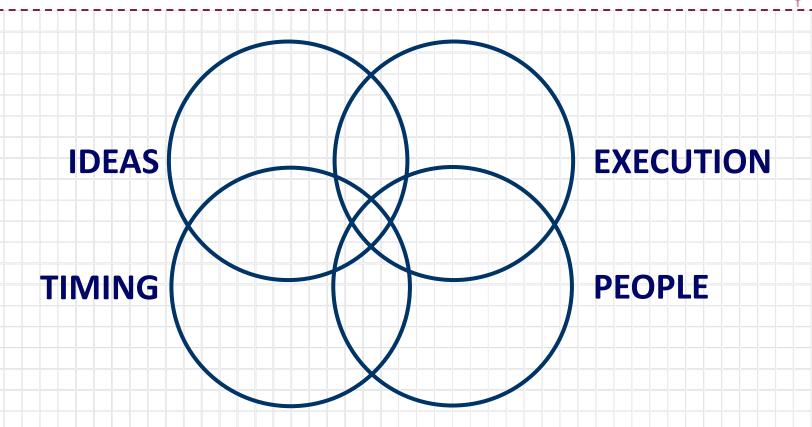




One day Alice came to a fork in the road and saw a Cheshire cat in a tree. "Which road do I take?" she asked. "Where do you want to go?" was his response. "I don't know" Alice answered. Then, said the cat,

"It doesn't matter."

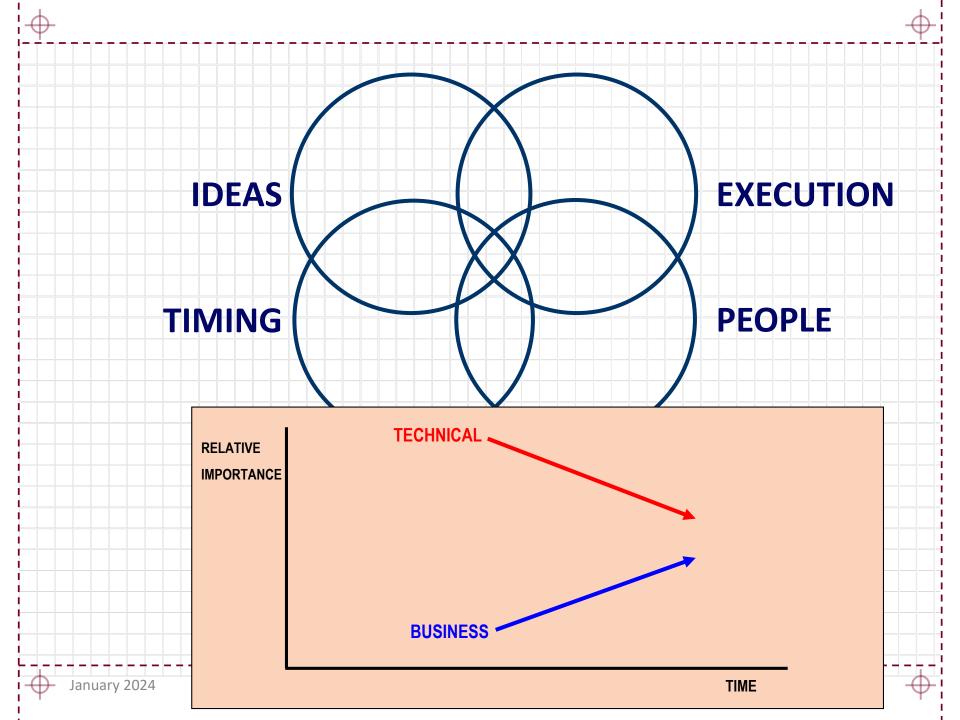


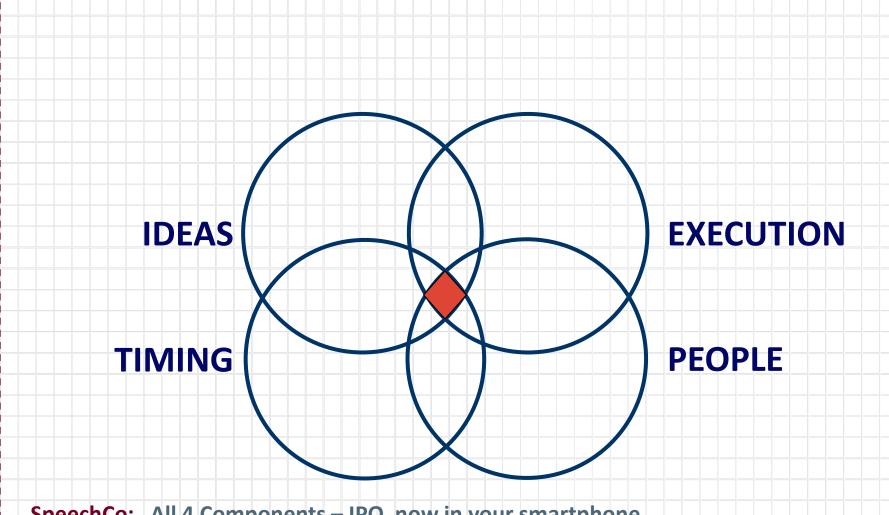


Other People Related Reasons:

- -Building Team Before Understanding Customer/Market Football Team - Basketball - Painful Pivot
- -Not Knowing That You Don't Know

E-Ink: \$15M => \$80M but it took \$160M



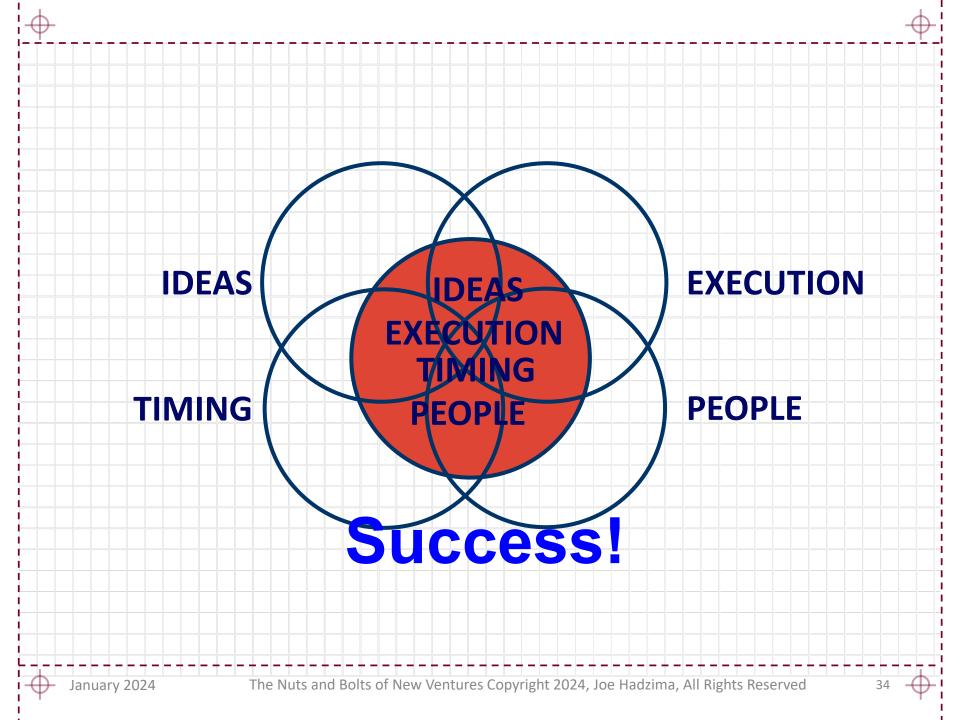


SpeechCo: All 4 Components – IPO, now in your smartphone

VideoCo: All 4 Components - Acquired in 2 years

HIV-Co: I&E&T not P - Almost failed, IPO, modest success - never reached full potential

NanoCo: I&E not T or P – Great potential, failed





Mission / Vision Statement

- Also known as the Value Proposition
- One sentence that says what you do
- e.g. "We help X do Y by doing Z"
- X = target audience
- Y = goal or problem they want to solve
- Z = how you do it

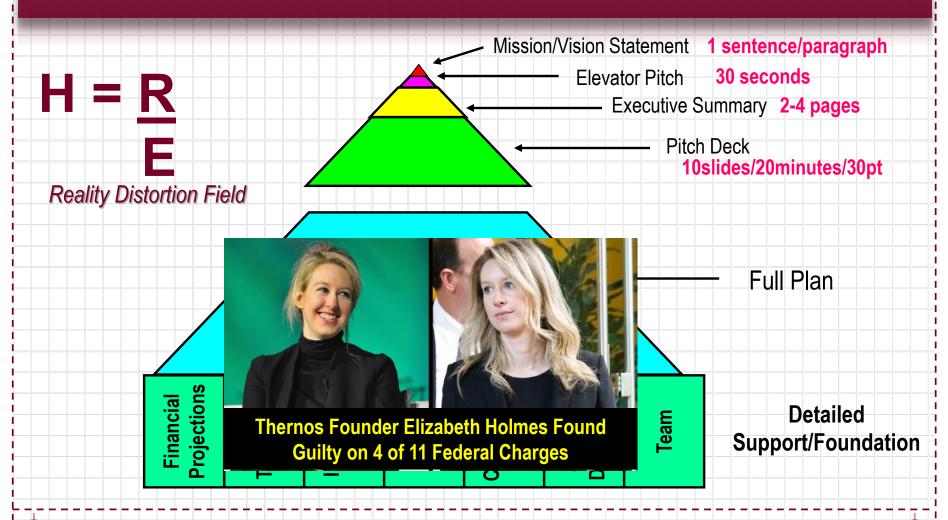
We help X do Y doing Z

We help people without 3D printers bring their ideas to life by providing 3D printing services and a marketplace for 3D-printed products.

Steve Blank's XYZ



A Supported Vision



A Dozen Real Challenges

Vinod Khosla invested in a startup that a Friend of mine co-founded. My friend ask him for guidance/advice. Vinod responded:

But "Luck Favors the Well Prepared"

We want to help You Be Prepared!



Tonight's Plan

- Introduce our Teaching Team
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BREAK Time & Interest Groups

- Interest Group Meet Ups 15 Minutes
 - Look for signs around the room
- When We Come Back
 - Course Logistics
 - Bob Jones "Finding Your Customer"



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The Nuts and Bolts of New Ventures Course Information

- MIT Course 15.393
- http://nutsandbolts.mit.edu (link to canvas.mit.edu on bottom of main page)
- 3 Credits Pass/Fail
- Class Attendance Required Canvas Quiz Attendance Codes each night by 10am the following day
- Written Requirement
 - Executive Summary or Pitch Deck Due Friday Feb 2 midnight
 -Of an Idea you are thinking about
 - Team Efforts Encouraged Team Formation Google Sheet
 - See link at <u>nutsandbolts.mit.edu/writingreq.php</u> Complete by 1/27





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Tonight's Plan

 Bob Jones – Founder of the "Consumption Function"



www.bluesdogsboston.com





Next Time

- "Negotiation Skills" with Mindy Garber
- "Organizational and People Issues" with Vivian Vitale and Panel
- Check nutsandbolts.mit.edu for details and readings – also see the MIT Canvas website for the Course Reader
- The MIT Canvas link is on the bottom of the nutsandbolts.mit.edu home page.

