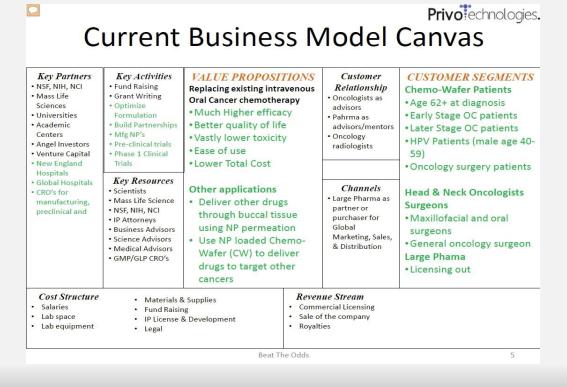
The Lean Launchpad and the Business Model Canvas

Dr. Jack M. Wilson

Distinguished Professor of Higher Education, Emerging Technologies, and Innovation



Entrepreneurship is more of an Art than a Science

- For many decades the **Business Plan** was the sine qua non of any new venture, but that is no longer as true.
- We will look at some alternatives as well as at the traditional business plan.
- -from business plan competitions to the lean launch pad. Entrepreneurship today is in a state of flux as the field has recoiled from the prescriptive approach of the last decade in which the business plan, and business plan competitions, defined the science of entrepreneurship. The annoying fact that many, if not most, new businesses simply did not use business plans was viewed as something undesirable and needing to be corrected.
- As scholars looked at start-ups in a systematic fashion, they also observed that even those that did have business plans rarely executed those business plans in a linear fashion. In fact, most successful new businesses ended up on a trajectory that was not envisioned in the original plan. The ability of a new venture to change its business model dramatically in mid-course has come to be known as a **pivot**. This has led to many scholars abandoning the idea of the business plan altogether.

Steve Blank

- Steve Blank became the leading apostle of business plan rejection about five years ago. In 2009 he wrote that "In the real world, most business plans don't survive the first few months of customer contact. And even if they did – customers don't ask to see your business plan. Steve advocated for the supremacy of business models and he enshrined the concept of the pivot as part of his mantra of the "Customer Development Process" with the concepts of
 - "minimum viable product (MVP),"
 - "iterate and pivot",
 - "get out of the building," and
 - "no business plan survives first contact with customers."
- <u>http://steveblank.com/about/</u>
- http://steveblank.com/2009/05/07/business-plan-competitions-2/
- http://www.businessinsider.com/the-lean-launchpad--teaching-entrepreneurship-as-a-m
- <u>https://www.udacity.com/course/how-to-build-a-startup--ep245</u>
- <u>http://www.entrepreneur.com/article/219772</u>
- http://nciia.org/sites/default/files/u7/Educators%20Guide%20Jan%202014.pdf



Steve Blank says:

- After decades of watching thousands of startups follow this standard regimen, we've now learned at least three things:
 - As business plans are full of untested assumptions, they rarely survive first contact with customers. As the boxer Mike Tyson once said about his opponents' prefight strategies: "Everybody has a plan until they get punched in the mouth."
 - No one, aside from venture capitalists and the former Soviet Union, requires fiveyear plans to forecast a series of unknowns. These plans are generally fiction, and conceiving them is almost always a waste of time.
 - Startups are not smaller versions of large companies. They do not unfold in accordance with master plans. Those that ultimately succeed go quickly from failure to failure, all the while adapting, testing new iterations, and improving their initial ideas as they continually learn from customers.
- Existing companies execute a business model, startups search for one. This distinction is at the heart of the Lean Startup approach. It shapes the lean definition of a startup:
 - a temporary organization designed to search for a repeatable and scalable business model.
 - <u>http://nciia.org/sites/default/files/u7/Educators%20Guide%20Jan%202014.pdf</u>

To be fair to many others in the field, his insights into the shortcomings of the business plan were not entirely new, and were probably more a reaction to the way the business plan had become unexamined enshrined dogma that hampered development rather than helped. The problem was not that doing a business plan was bad, but that **too many people actually believed** that the business plan was an actual "plan" in the sense that large companies create plans. Most of those who taught entrepreneurship already knew that the business plan was something that required regular testing and revision.

I often told my students that the last step in the development of ANY plan was to step back and ask yourself what you were going to do when the plan did not go as planned.

Blank made the significant contribution of pulling together the alternate approaches, rebranding it, and it marketing it into key constituencies —with one of his students, **Eric Reis**. Their Lean-Launchpad model of entrepreneurship now bills itself as the "evidence based entrepreneurship" model and Blank has even trademarked the latter term.

NSF and the iCore Program

- The National Science Foundation embraced Blank's and Reis' formulation of new venture development when they launched their iCore program a couple of years ago. In many ways they viewed it as a more scientific approach to venture creation that used the method of hypothesis formation, quick testing, revision, further testing, and continuous refinement. Fields as disparate as science and creative writing would perceive this process as the continuous refinement of drafts while writing. It is indeed the way the world works. We build new models of anything we study as we find out more and more detail through research. And so it is with entrepreneurship.
- <u>http://www.nsf.gov/news/special_reports/i-corps/</u>
- In the new model, the business model canvas, originally proposed by Alexander Osterwalder becomes the starting point. (See an example below)
- <u>http://businessmodelgeneration.com/canvas</u>

- This transition continues to play out in entrepreneurship education programs across the country –as well as at UMass. The most used textbooks are built under the old paradigm. Business plan competitions continue to be held in spite of Steve Blank's pronouncement that "I hate business plan competitions."
- Just as physicists teach Newton's Laws and the Einstein Theory of Relativity –which extends and alters Newton's laws, entrepreneurship education needs to introduce students to the process of business planning as well as the limitations and the alternative formulations, like Blanks, that have emerged.
- We also need to alert students to allowing any model (including Blank's) to morph into a dogma that could constrain innovation.

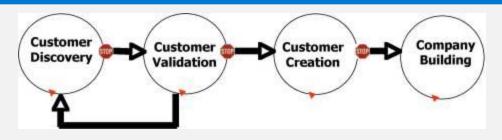
Customer Discovery

Customer versus Product Development

Steve Blank:

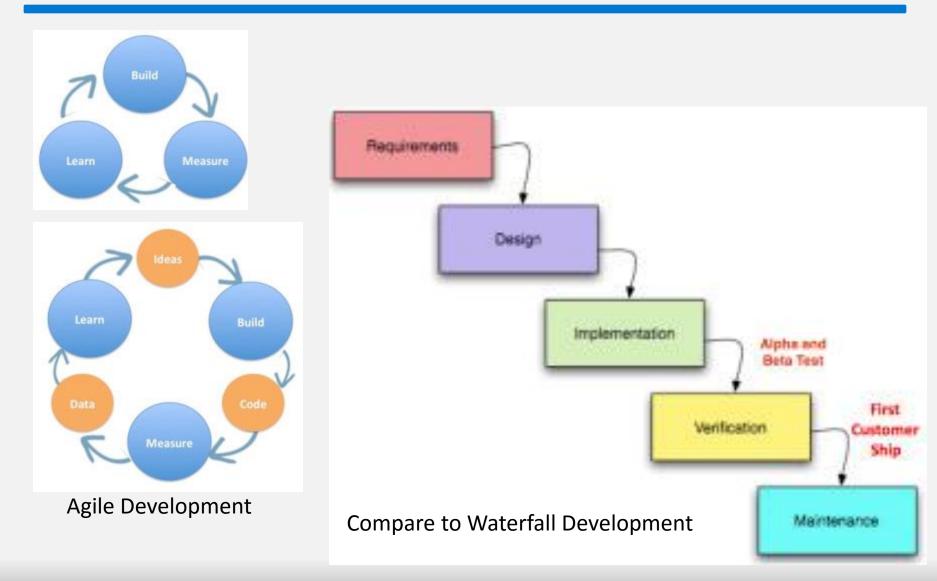
- Get out of the building (physically or virtually)
 - Talk to customers, ask them questions, and listen.
- Sales calls aren't your IQ test or PhD defense
- Stop talking and listen to the customers problem
- Hire a sales team at the Customer Validation step
- Match the sales team to market type
 - <u>http://steveblank.com/tag/customer-discovery/</u>

From Customer Discovery to Company Building

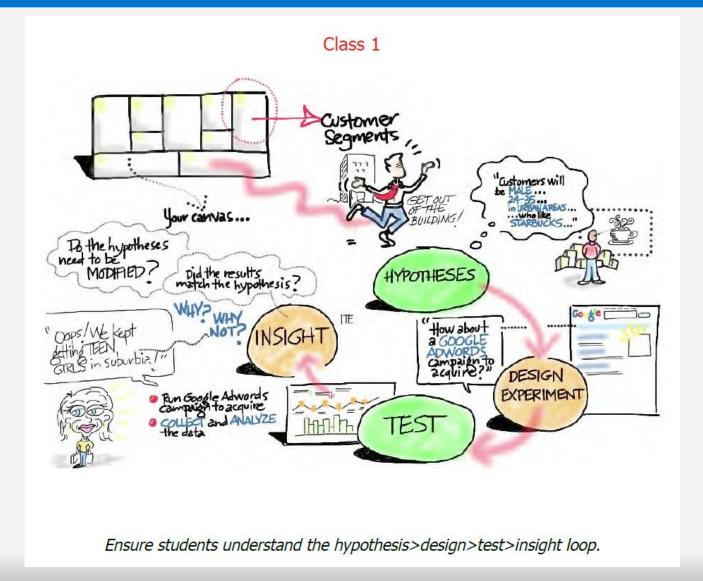


- **Customer Discovery** first captures the founders' vision and turns it into a series of business model hypotheses. Then it develops a plan to test customer reactions to those hypotheses and turn them into facts.
- **Customer Validation** tests whether the resulting business model is repeatable and scalable. If not, the team returns to Customer Discovery.
- **Customer Creation** is the beginning of execution. It builds end-user demand and drives it into the sales channel to scale the business.
- **Company-building** transitions the organization from a startup to a company focused on executing a validated model.

Build, Measure, Learn (repeat)



Agile Process



MVP- Minimum Viable Product

- In product development, the minimum viable product (MVP) is the product with the **highest return on investment versus risk**.
 - The term was coined and defined by Frank Robinson, and popularized by Steve Blank, and Eric Ries
- An MVP is not a minimal product, it is a strategy and process directed toward making and selling a product to customers.
- It is an iterative process of idea generation, prototyping, presentation, data collection, analysis and learning.
 - One seeks to minimize the total time spent on an iteration.
 - The process is iterated until a desirable product/market fit is obtained, or until the product is deemed to be non-viable.

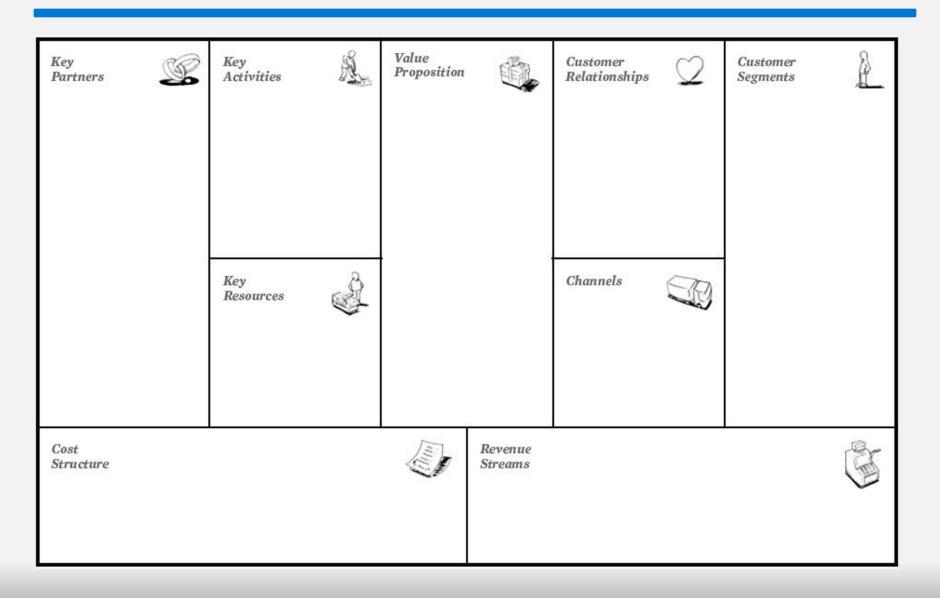
 http://steveblank.com/2013/07/22/an-mvp-is-not-a-cheaper-product-its-aboutsmart-learning/

Pivot

- What you learn in the customer development process or in the buildmeasure-learn process will OFTEN cause you to change direction.
- The Pivot
- This is not a sign of failure.
- It is a sign of success.

- Many teams believe "a company is all about my invention." Your goal is to teach them "it's all about the business model."
- The MVP, pivots, and Customer Development conserve cash,
 - and can accelerate the time it takes to discover a viable product-market fit.

Blank Business Model Canvas



The business model canvas (Nine Sections)

- Value Proposition What value does the company bring to the customers?
- Customer Segments What market segment(s) are being targeted by the company?
- **Channels** How do they reach the customers –go to market (market, deliver, support)?
- **Customer Relationships** How does the business develop and retain the customer relationships?
- **Key Activities** What activities need to occur to make the company successful?
- **Key Resources** How does the company get its resources?
- **Key Partners** *Who are the key partners?*
- Revenue Streams How does the company generate its revenues?
- **Cost Structure** What costs does the business incur?
 - <u>http://en.wikipedia.org/wiki/Business_Model_Canvas</u>

Example- Zynga's Business Model Canvas

http://freethinkingbrian.files.wordpress.com/2013/09/zynga_business_model_canvas.jpg

The Business Model Canvas

Key Partners	Key Activities	Value Proposi	tions	Customer Relationships	Customer Segments	
Facebook	Game Creation Processes	Free To Play	_	Customer Support and Forums on Zynga.com	Casual Gamers	
PayPal Amex	Customer Support	Mindless Entertainme	ent	Zynga's facebook page	Advertisers	
Zazzle	Maintaining existing	Social Intera	iction			
SVNetwork	games					
Advertisers (Bing, McDonalds, General	Key Resources			Channels		
Mills etc)	Game Designers / 😻 Artists / Developers /			Facebook		
7-Eleven Target	Testers			Zynga Live (Coming soon)		
Best Buy GameStop	Sales & Marketing teams			300117		
InComm	Existing Games for Cross Promotion					
Cost Structure Usual cost of operating a business (Rent, Sa	laries etc.)	Linin .	Revenue Stree			
R&D on new Game Ideas			Traditional /	Advertising Revenues		
Maintenance			Revenue from Advertiser sponsored offers (Lead			
Acquisition of competitors Generating fresh content for existing games			Generation)			
Promotional Events (Fan Meetups etc)			In-app Virtual Goods sales			

LinkedIn Business Model Canvas - http://bmimatters.com/

Key Partners	Key Activities	s	Value Prop	ositions	Re	lationships	c	ustomer Segments	
	Platform Development					ame-side work Effects			
			Manage Professional Identity and Build Professional Network		Cross-side Network Effects			Internet Users	
Equinix (for data center facilities)	Key Resources		Identify and Rea the Right Talen			(Channels	Recruiters	
Content Providers	LinkedIn Platform	n	Reach the Target Audience			edIn Website, obile Apps		Advertisers and Marketers	
			Access to Database C APIs and	ontent via	F	ield Sales		Developers	
		Revenue Streams							
Web Hosting costs	Marketing and Product Sales Development			Free Offerings and Premium Subscriptions		าร	Marketing Solutions		
General and Administrative									

Google Business Model Canvas - http://bmimatters.com/

	Go	oogle Bu	siness M	odel			
Key Activities		Value Propositions		Relationships		Customer Segment	
Products	s, Improve			Automation (where possible)		Internet Users	
				Dedicated Sales for large accounts		Advertisers, Ad Agencies	
		Extend Ad campaigns				Google Network Members	
Key F	Key Resources			Channels			
Data	centers			Global Sales and Support Teams		Mobile device owners	
IPs, Brand		OS and Platforms – Android, Chrome OS		Multi-product Sales force		Developers	
						Enterprises	
Cost Struct		Revenue Streams					
		,				d Revenues – gle_n/w websites	
	S&M, G&A		Ent	erprise Product Sales		Free	
e	R&D - F Products Existing Manage Infras Key F Data IPs,	Key Activities R&D – Build New Products, Improve Existing products Manage Massive IT Infrastructure Key Resources Datacenters IPs, Brand R&D Costs (mapersonnel) sition R&D Costs (mapersonnel) er	Key Activities Value Products R&D – Build New Web Sear Products, Improve Targeted A Adwords Extend Ad Infrastructure Extend Ad Datacenters Display Ad IPs, Brand OS and P Android, C Hosted w Google S&M G&A	Key Activities R&D – Build New Products, Improve Existing products Manage Massive IT Infrastructure Key Resources Datacenters IPs, Brand Value Propositions Web Search, Gmail, Google+ Targeted Ads using Adwords (CPC) Extend Ad campaigns using Adsense Datacenters IPs, Brand Cost Structure sition R&D Costs (mainly personnel) A&D Costs (mainly personnel) Activities	R&D - Build New Products, Improve Existing products Web Search, Gmail, Google+ Automation (w possible) Manage Massive IT Infrastructure Targeted Ads using Adwords (CPC) Dedicated Sale large accourt Key Resources Display Advertising Mgmt Services Dedicated Sale large accourt Datacenters Display Advertising Mgmt Services Global Sales a Support Tear IPs, Brand OS and Platforms - Android, Chrome OS Multi-product S force Cost Structure R&D Costs (mainly personnel) Ad Revenues - Google websites er S&M G&A Enterprise Product	Key Activities Value Propositions Relationships R&D – Build New Products, Improve Existing products Web Search, Gmail, Google+ Automation (where possible) Dedicated Sales for large accounts Manage Massive IT Infrastructure Targeted Ads using Adwords (CPC) Dedicated Sales for large accounts Key Resources Display Advertising Mgmt Services Display Advertising Mgmt Services Global Sales and Support Teams IPs, Brand OS and Platforms – Android, Chrome OS Multi-product Sales force Multi-product Sales force Cost Structure Revenue Streat Google websites Ad Revenues – Google websites Ad Goog er S&M G&A Enterprise Product Enterprise Product	

Privo

- Now let us take a look at a company that was founded and is led by Manijeh Nazari Goldberg, who took two degrees (engineering and computer science) from Umass Lowell and then one each from Harvard and MIT.
- Privo Technologies was formed to commercialize a discovery made in Robert Langer's laboratory at MIT that allowed the delivery of various drugs through encapsulation using nan-technology
 - Privo was a winner of the MIT 100 K Business Plan Competition
 - Their original idea was Nano delivery of insulin by chewing gum
 - Nano Drug Delivery
- In a very tough area of raising money to commercialize. It can take a billion dollars to bring a new drug to market.
- The next page will show their initial business plan canvas.



Privo Business Model Canvas

Privo echnologies.

Early Business Model Canvas

Key Partners • NSF, NIH • Mass Life Sciences • Universities • Academic Centers • Venture Capital • Philanthropy	Key Activities • Diabetes Research • Developing trans-mucosal delivery techniques • Fund Raising • Grant Writing Key Resources • Scientists • Mass Life Science	 VALUE PROPOSITIONS Oral mucosal drug delivery Improve patient quality of life Improve compliance relative injections Minimize side effects Reduce hospital Stay Reduce overall cost of healthcare 		Customer Relationship • Endocrinologists as advisors Channels • Large Pharma as partner or purchaser	 CUSTOMER SEGMENTS Type II diabetic patients Patients who need to inject insulin Mucositis Patients that have gone through radiation therapy Oral cancer Patients with the cancer in their mouth
Cost Structure Salaries Lab space Lab equipment Materials & Supplie Fund Raising IP License & Develo Legal			• Comm	ercial Licensing f the company ies	
9/22/2013		Beat The	e Odds		3

© 2012 ff -Jack M. Wilson Distinguished Professor

Privo: Learn and Pivot

- As they moved forward they learned both from their successes and their mistakes –and got lots of advice along the way.
- They Interviewed
 - 20 Physicians
 - 40 Scientists
 - 12 Attorneys
 - 6 Multinational Pharmaceutical Co.
- They wrote many Grants (that were peer reviewed) for
 - NCI (National Cancer Institute)
 - NIH (National Institute of Health)
 - MLSC (Mass Life Science Center)
 - NSF (National Science Foundation)
 - Next (Rare Disease services)
 - NCL (Nano Characterization)
 - Deshpande MIT
- They met with the governments of 7 other countries

Pivot

- When an entrepreneurial venture learns from their customers, experience, mistakes, and other sources that they need to take a significantly new direction.
- At that point we say they **Pivot**.
- Research shows that this is very typical of a new venture and is not actually either rare or a fatal flaw.
- You have learned something new about the market -from the market.
- If you are walking down a hall looking for the exit door and you open a door and find that it is a closet, what would you do?
 - Close the closet door and open another door.
- When we compared Effectual Entrepreneurship (EE) to Causal Entrepreneurship (CE) we saw that they (EE) rejected set goals in favor of constant iteration.
- This is also an element of the Lean Launchpad.

Business Model after pivot (as of 2014)

Q

Privo echnologies.

Current Business Model Canvas

Key Partners • NSF, NIH, NCI • Mass Life Sciences • Universities • Academic Centers • Angel Investors • Venture Capital • New England Hospitals	 Fund Raising Grant Writing Optimize Formulation Build Partnerships Mfg NP's Pre-clinical trials Replacing existing intraven Oral Cancer chemotherapy Much Higher efficacy Better quality of life Vastly lower toxicity 		venous apy Sy	Customer Relationship • Oncologists as advisors • Pahrma as advisors/mentors • Oncology radiologists	CUSTOMER SEGMENTS Chemo-Wafer Patients • Age 62+ at diagnosis • Early Stage OC patients • Later Stage OC patients • HPV Patients (male age 40- 59) • Oncology surgery patients
 Global Hospitals CRO's for manufacturing, preclinical and 	Key Resources • Scientists • Mass Life Science • NSF, NIH, NCI • IP Attorneys • Business Advisors • Science Advisors • Medical Advisors • GMP/GLP CRO's	 Other applications Deliver other drugs through buccal tissue using NP permeation Use NP loaded Chemo- Wafer (CW) to deliver drugs to target other cancers 		Channels • Large Pharma as partner or purchaser for Global Marketing, Sales, & Distribution	Head & Neck Oncologists Surgeons • Maxillofacial and oral surgeons • General oncology surgeon Large Phama • Licensing out
Cost Structure • Salaries • Lab space • Lab equipment	 Materials & Fund Raisir IP License & Legal 			<i>ue Stream</i> ercial Licensing f the company ies	
		Beat Th	e Odds		5

11- Lean Launchpad and Business Model Canvas 24

Now THAT is quite a pivot!

- You can now see why effectual entrepreneurship focuses on the iterative relationship between means, goals, interactions, and commitments.
- EE is far less goal oriented and far more interested in how one can use the resources at hand to create something of value.