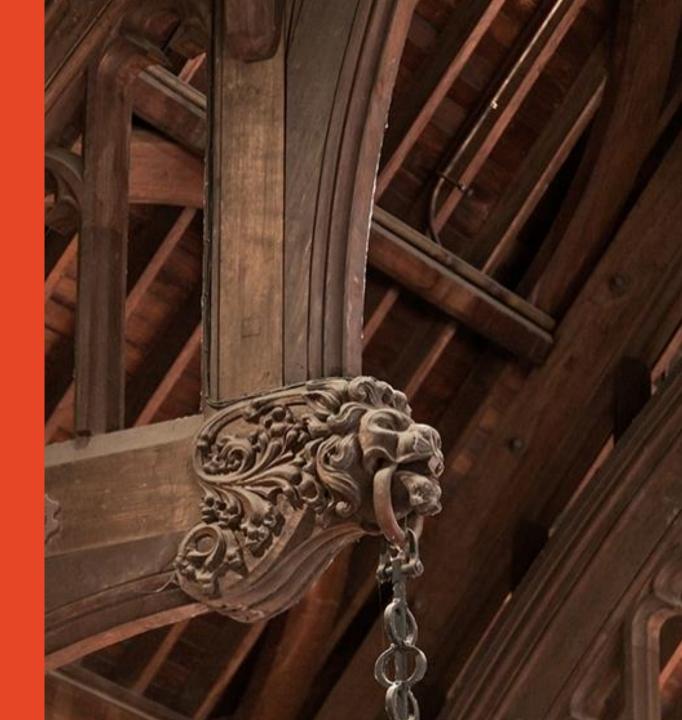
## INFO5992 Understanding IT Innovations

Week 12: Innovation by Startup companies and Opportunities

A/Prof Jinman Kim

Semester 1, 2017





### **Copyright warning**

#### **COMMONWEALTH OF AUSTRALIA**

Copyright Regulations 1969

#### WARNING

This material has been reproduced and communicated to you by or on behalf of the University of Sydney pursuant to Part VB of the Copyright Act 1968 (**the Act**).

The material in this communication may be subject to copyright under the Act. Any further copying or communication of this material by you may be the subject of copyright protection under the Act.

Do not remove this notice.

#### **UoS Outline**

Lecture Topics	Activity			
UoS Introduction; Definition of Innovation; Innovation System; Innovation in Australia	N/A  Tute 1 – Massive Open Online Courses – Enabling technologies and Peerreview			
Introduction to Technological / IT innovation				
Dynamics of Technological / IT Innovation; Source of Innovation; Adoption of Technology; Dominant Design	Tute 2 – Design Dominance in the Smartphone market			
Disruptive Innovation; Industry Value Chain; Value Network analysis	Tute 3 – Innovative Tech Practice – Cognitive services			
	Group Presentation Introduction – Topics Released			
Distributed innovation I: Open / Closed innovation; Platform innovation; Web APIs;	Mid-semester Quiz			
Crowdsourcing / crowdfunding	Group Presentation – Topic Selection			
	Individual Assignment Introduction			
Distributed innovation II: User innovation; Free and Open source software; Open Data	Peer-review Introduction			
	<b>Tute 4</b> – Innovative Tech Practice – Open source Geolocation and Maps			
Easter (Break)				
Platform ecosystems	Group Presentations I – IT Innovation Case Studies			
	Peer-review of Group Presentations			
Group Presentations II – IT Innovation Case Studies	Peer-review of Group Presentations			
Group Presentations III – IT Innovation Case Studies	Peer-review of Group Presentations			
Judging Innovation - Innovation in Industry sectors	Group Presentations IV – IT Innovation Case Studies			
	Peer-review of Group Presentations			
Innovation ecosystem; Sydney's innovation ecosystem	Tute 5 – Sharing Economy			
Organisational Culture; Structure supporting innovation (Bill Simpson – Data61)	Individual Assignment Submission			
Innovation by Start-up companies and Opportunities	Tute 6 – Business Model Canvas			
Organisational Culture; Structure supporting innovation	UoS comments / questions			
UoS Review				
	UoS Introduction; Definition of Innovation; Innovation System; Innovation in Australia  Introduction to Technological / IT innovation  Dynamics of Technological / IT Innovation; Source of Innovation; Adoption of Technology; Dominant Design  Disruptive Innovation; Industry Value Chain; Value Network analysis  Distributed innovation I: Open / Closed innovation; Platform innovation; Web APIs; Crowdsourcing / crowdfunding  Distributed innovation II: User innovation; Free and Open source software; Open Data  Faster (Break)  Platform ecosystems  Group Presentations II – IT Innovation Case Studies  Judging Innovation - Innovation in Industry sectors  Innovation ecosystem; Sydney's innovation ecosystem  Organisational Culture; Structure supporting innovation (Bill Simpson – Data61)  Innovation by Start-up companies and Opportunities  Organisational Culture; Structure supporting innovation			

#### **Agenda**

- Innovation by Startup companies and Opportunities
- Week13 Exam Review / Exam Info
- Bring any Questions to ask
- Presentation marks will be released this week
- Report mark to be released in the next few weeks will try before the exam!

Exam date and location are xxx

#### **Your Grades**

- They are listed on an course Excel sheet
- Will continue to publish the results onto Blackboard
- If you do not see any marks on Blackboard, do not worry! It will not be there as it will be in the course Excel sheet
- Happy to discuss you in regards to your grades email or setup a time to discuss

# Innovation by Startup Companies



#### Recap week1: Innovation as "Creative Destruction"



Schumpeter

- Economy is in a state of constant tumultuous change
- Innovation propels the economy
- Entrepreneurs within new firms drive innovation:
  - All companies react adaptively to change
  - Creative responses to change come via innovative acts by entrepreneurs
- Different forms of innovations:
  - New products; New organisations (e.g. mergers); New markets
  - Innovating firms emerge after technological breakthrough

#### Organising for Innovation: Overview

- A company's size and structure impact its ability to innovate
  - Some structures may foster creativity and experimentation
  - Others may enhance efficiency of product development
  - Some structures may enable both simultaneously
- Traditionally large companies have done most technological innovation inhouse in R&D labs
- Trend towards more "open innovation"
  - involving other organisations and individuals in their innovation

### Size and structural dimensions of companies



Schumpeter

- Size: Is Bigger Better?
  - In 1940s, Schumpeter argued that large firms would be more effective innovators
  - This is because they are:
    - Better able to obtain financing
    - Better able to spread costs of R&D
      - can spread over more products
  - Large size may also enable:
    - Greater economies of scale and learning effects
  - Taking on large scale or risky projects

Source: Schilling (2013)

#### Size and structural dimensions of companies

- However, large companies might also be disadvantaged for innovation because...
  - R&D efficiency may decrease due to loss from managerial control
  - Large companies can have more bureaucratic inertia
  - More commitments tie companies to current technologies
    - Learning effects (see Week 3); dominant design
- Small firms are often more flexible and entrepreneurial
  - Can change direction quickly based on changing circumstances or new observations (pivot)

 Innovation favors agility - It's easier for a small company to be agile than a large company

The University of Sydney Source: Schilling (2013) Page 10

# How can a couple of people beat and displace major global corporations?









VS



https://www.quora.com/Why-did-Altavista-search-engine-lose-ground-so-quickly-to-Google

http://www.forbes.com/sites/adamhartung/2011/01/14/why-facebook-beat-myspace/#7fae4f177023

#### What's an entrepreneur?

- Dictionary definition:
  - "the owner or manager of a business enterprise who, by risk and initiative, attempts to make profits"
- (Collins English Dictionary, 2016)
- From French: someone who undertakes an activity

http://www.collinsdictionary.com/dictionary/english/entrepreneur

## What's an entrepreneur?



- According to Schumpeter:
- May be in small or large companies
- Is not necessarily an entrepreneur all the time
  - May be a manager in a large company carrying out dayto-day management activities
- May or may not be person who provides funding
  - Not necessarily the "risk-taker" (in economic sense)
- Schumpeter:
  "it is leadership rather than ownership that matters"

### What's a startup company?

# Traditional approach: Treat startup as small version of large company

- Traditional approach (still often used today)
- Startups treated as small version of large company
  - Founders used techniques learned in business schools as used by big companies
- Most businesses needed a business plan to start
- Business plan needed for investment (bank, venture capital, etc)

# Traditional approach: Treat startup as small version of large company

- Business plan focused on:
  - 1. Identifying business opportunity (addressable market)
  - 2. Problem to be solved
  - 3. Planned solution to the problem
  - 4. Forecast for income, profit, costs etc (e.g. for 5 years)

### Traditional business plan

- The business plan usually has:
  - Exec summary
  - Description of product/service
  - Industry analysis
  - Customer analysis
  - Competitor analysis
  - Marketing and sales plan
  - Operations and HR plans
  - Financial plan



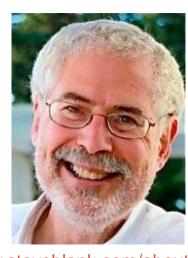
Frequently unsuccessful for tech startups as:

- For tech startups, there are many uncertainties
- The plan may have many untested assumptions
- Much of the plan may rely on these untested assumptions
- The business plan is often rigid and hard to change direction quickly

# Established companies and startups are very different types of things

### What's a startup company?

- Term first used in the 1970s
- Most used for starting technology companies
- Steve Blank:
   "a temporary organization in search of a scalable, repeatable, profitable business model"
- The Startup Owner's Manual (2012)



www.steveblank.com/about
Steve Blank
Engineer / entrepreneur /
Lecturer at Stanford and others

### What's a startup company?

- Eric Ries:
   "a human institution designed to deliver a new product or service under conditions of extreme uncertainty"
- The Lean Startup (2011)



www.theleanstartup.com
Eric Reis
Software developer/
entrepreneur

#### Established companies vs startups

Established companies...

Startups...

Execute a business model

Search for a business model

## How do I get an idea for a startup?

### Paul Graham: How to get startup ideas



Paul Graham, Founder of Y Combinator

Some of their startups: Reddit, Scribd, Dropbox, Airbnb, Stripe, Heroku, Weebly, ...  The way to get startup ideas is not to try to think of startup ideas. It's to look for problems, preferably problems you have yourself.

The very best startup ideas tend to have three things in common:

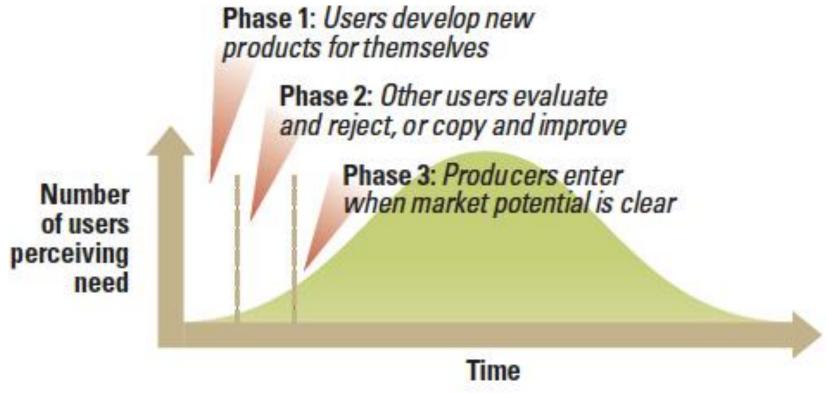
- they're something the founders themselves want,
- that they themselves can build,
- and that few others realize are worth doing.
- Microsoft, Apple, Yahoo, Google, and Facebook all began this way.

http://paulgraham.com/startupideas.html

#### Recap wk6: Many innovations start at "user innovation"



Eric Von Hippel MIT Sloan School of Management



http://sloanreview.mit.edu/article/the-user-innovation-revolution/

#### Paul Graham: How to get startup ideas

- Real problems:
  - Address real problems, not made-up problems
- The "Well":
  - Build something a small number of people want a lot, rather than something a large number of people want a little
- Getting yourself ready
  - Be at the leading edge of a field (even if just a user)
  - "Live in the future, then build what's missing"
  - External stimulus hitting a prepared mind
- Noticing:
  - Not "think up ideas" but "notice"
  - It's OK to work on projects that produce "toys" as it prepares you to notice
  - "Live in the future and build what seems interesting"

http://paulgraham.com/startupideas.html

# Differences between established companies and startups

### Some differences between established companies and startups

	Established companies	Startup companies	
Markets for products	Known Mostly unknown (hypothesis only)		
Customers	Known	Mostly unknown (hypothesis only)	
Products	Known	Mostly unknown (hypothesis only)	
Future product features	Learn from customers	Learn from potential customers and test hypotheses	
Business model	Company executes the current business model	Company searches for the best business model	
Product	Full specifications as needed by market	Minimum feature set (for speed to market and flexibility for change)	
Product development	Smooth execution using proven methods	Pivots (until find market, customers, products, business model)	
Structure	Relatively stable	Fluid	

Based on work of Steve Blank

eg <a href="http://www.slideshare.net/sblank/why-product-managers-need-sneakers?from=ss\_embed">http://www.slideshare.net/sblank/why-product-managers-need-sneakers?from=ss\_embed</a>

#### Towards more systematic methods for startups

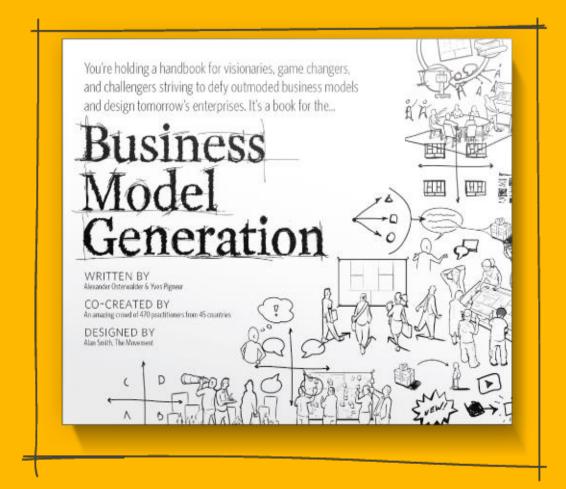
- Emerging "management science" for startups
- Techniques to help startups build successful innovative companies despite level of uncertainty
- Some influential books:
  - "Four Steps to the Epiphany", Steve Blank, 2005
  - "Business Model Generation", Alexander Osterwalder, Yves Pigneur,
     Alan Smith, and 470 others across 45 countries, 2010
  - "The Lean Startup", Eric Ries, 2011
  - "The Startup Owner's Manual", Steve Blank and Bob Dorf, 2012
  - "The Value Proposition Design", Alexander Osterwalder, Yves Pigneur,
     Greg Bernarda, Alan Smith, 2015
  - "The Leader's Guide", Eric Reis, 2015 (Kickstarter campaign)

### The startup – 3 key principles

- Business Model Canvas"Sketch Out Your Hypotheses."
- Agile software development
   "Quick, Responsive Development."
- Customer Development "get out of the building"
  - including hypothesis-driven experiments with customers, pivoting etc

Steve Blank, Why the Lean Start-Up Changes Everything, Harvard Business Review, 2013, <a href="https://hbr.org/2013/05/why-the-lean-start-up-changes-everything">https://hbr.org/2013/05/why-the-lean-start-up-changes-everything</a>

#### **Business Model Canvas**



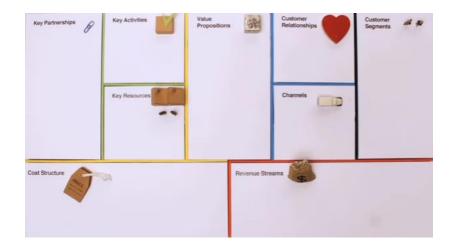


#### The Business Model Canvas

- Created by Alexander Osterwalder et al, 2010
- Involved 470 practitioners in 45 countries
- Studied hundreds of business models and extracted key aspects into a model to make a common framework and tested it



Alexander
Osterwalder
<a href="http://alexosterwalder.com/">http://alexosterwalder.com/</a>



https://youtu.be/QoAOzMTLP5s http://www.slideshare.net/Alex.Osterwalder/presentations

#### **Business Model Canvas**

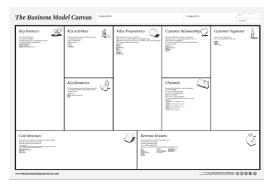
Customer Relationships   Customer Relationsh	he Business Mod	lel Canvas	Designed for:			Designed by:		On; De Start See
White fast Piezauses do see Visia Piezauses Visia Piezauses do see Visia Piezauses Visia Vis	Who are our Key Partners? Who are our Key Partners? Which for Recourses are we acquiring from partners? Which for Recourses one was acquiring from partners?	Wilhart Kay Activities do our Value Propositions require? Our Distribution Channels? Customer Relationships? Reviews steams?		What value do we deliver to the cestom Which one of our customer's problems : What bundles of products and services: Which customer needs are we satisfying	or? re we helping to solve? serve offering to each Customer Segment?	What type of robits odd p dose each of our fustorner Segments expect as to establish and maintain with them? Which creas how we astablished? How are they integrated with the rest of our business model? How cody are they?	Forwhom are we creating W to are our most imports	rvalue?
Whot are the exist important constrainment in our business model?  Which lay Recurres are not approximal?  Which lay Recurres are not approximal?  Recurred to the currently pay if you when constrainment and the constrain		W hat Key Resources do our Value Propositions require Our Distribution Channels? Gustomer Relationships? Revenue Streams?				Through which Charmés de air Custemer Sagmants ward is be suchaffe them save unaching them now? How are our Charmés hings and? How are our Charmés hings and? Which cross are not cod efficiate? How save a hings also give his now the custemer such save a hings also give him to custemer such save a hings also give him with custemer such save a hings also give him to custemer such save a hings also give him to custemer such save a hings also give him to custemer such save a hings also give him to custemer such save and save a hings also give him to custemer such save and save		
i e e e e e e e e e e e e e e e e e e e	What are the most important costs infesses in our business model? Which fay Actuars are most expensive? Which fay Actuars are most expensive?				For what value are our customers really For what do they currently pay? How are they currently paying? How would they prefer to pay? How much does each Revenue Streams	willing to pay?  contribute to overall sevenues?		

https://canvanizer.com/downloads/business\_model\_canvas\_poster.pdf

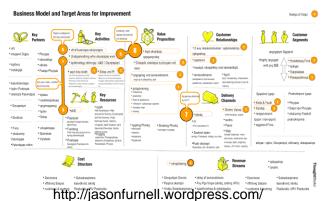
#### Filling in the Business Model Canvas

- Startup = the search for a business model
- Business model canvas = a representation of a business model
- A startup can track its search for a business model by iteratively filling in a business model canvas
- The Business Model Canvas:
  - Good for representing:
    - what's known (results of hypothesis testing); and
    - what hypotheses still need to be tested

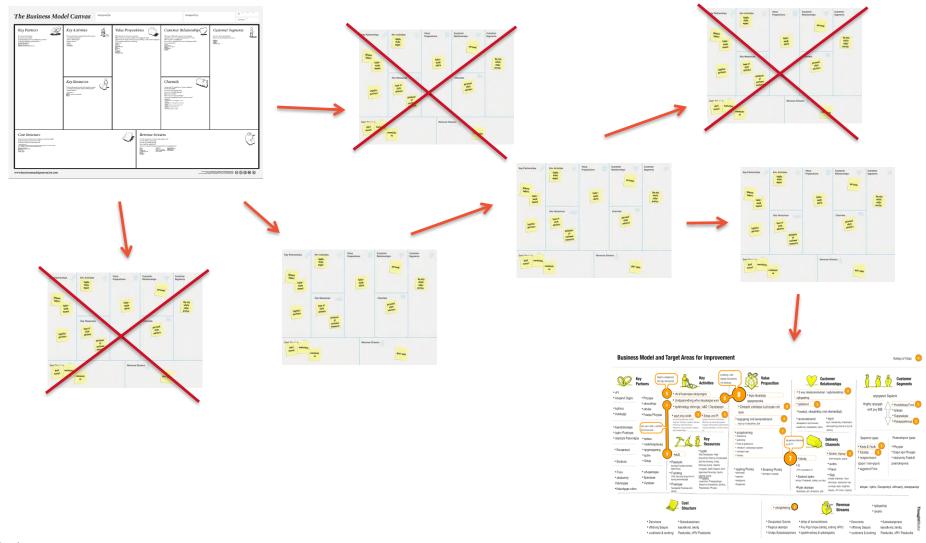
### Filling in the Business Model Canvas



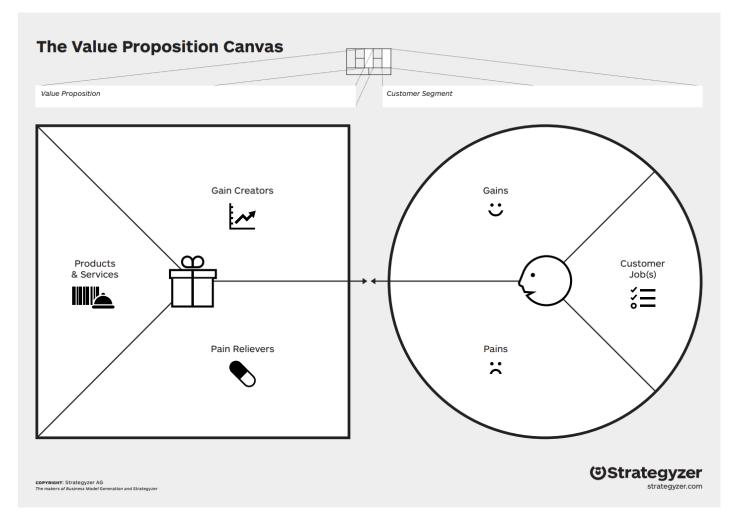




## Filling in the Business Model Canvas



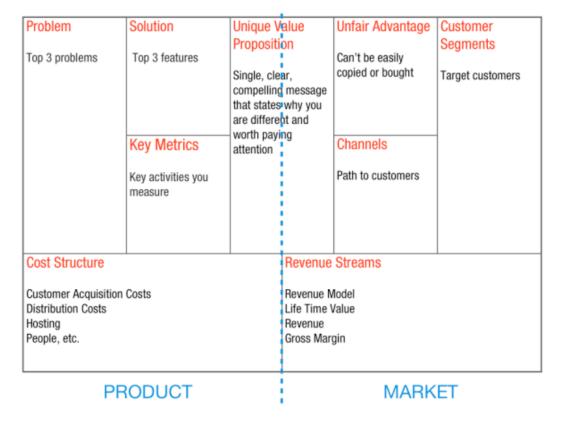
### Value Proposition Canvas (2015)



https://strategyzer.com/canvas/value-proposition-canvas

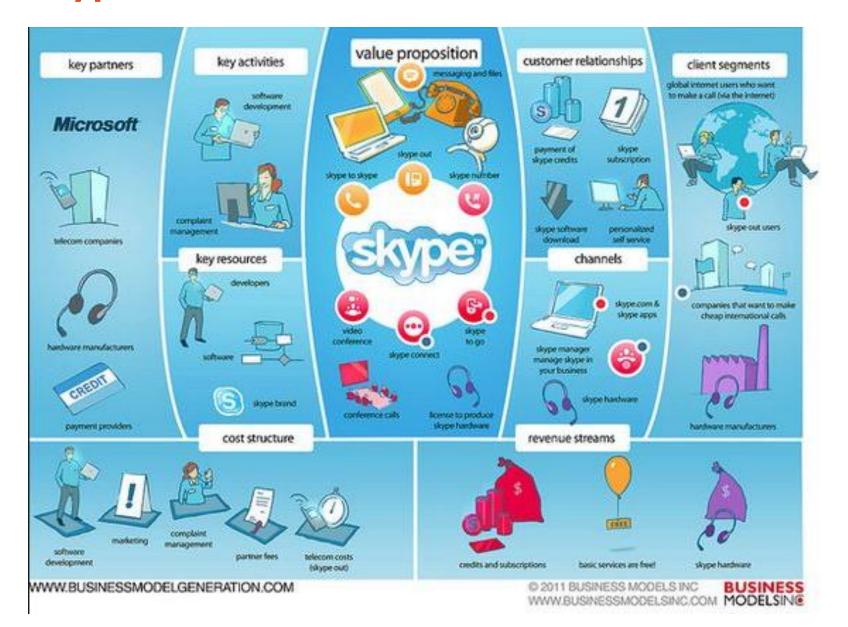
#### The Lean Canvas (Ash Maruya)

Modified version of the Business Model Canvas that is designed specifically for startups



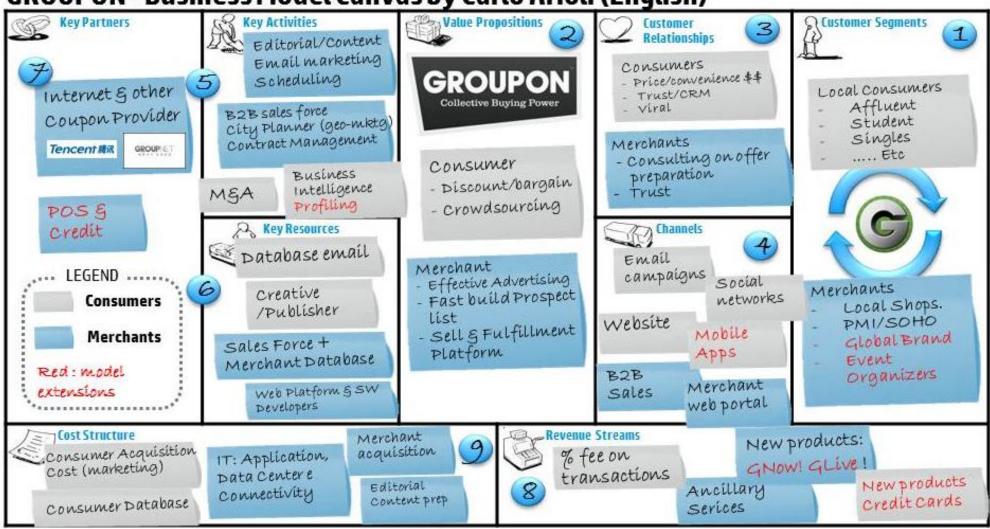
Lean Canvas is adapted from The Business Model Canvas (http://www.businessmodelgeneration.com) and is licensed under the Creative Commons Attribution-Share Alike 3.0 Un-ported License.

#### **Example: Skype**



#### **Example: Groupon**

GROUPON - Business Model Canvas by Carlo Arioli (English)



#### **Tutorial 6**

- We will study the development of a BMC.
- Within your group, you are asked to select a company and build your own BMC. The company can be one you have learned during your Innovation report.
- Alternatively, if you have an idea for a company (start up of your own!), you
  may use your company idea.
- Towards the end of the class, your group is to present the BMC to the class.
   When presenting to the class, you can either use the whiteboard, or print copies of your completed BMC and distribute it in the class.

### You can use the BMC in several ways

- Download the template at <a href="https://strategyzer.com/canvas/business-model-canvas">https://strategyzer.com/canvas/business-model-canvas</a> This will simply require your email address and you can download a pdf file. If the link does not work, you can find a PDF version on the Blackboard
- Use the PPT template available from the Blackboard
- You can use the free website which provides simple interactive tools to develop your BMC <a href="https://canvanizer.com/new/business-model-canvas">https://canvanizer.com/new/business-model-canvas</a> This also requires your email address.

## An example Tool

fo5306				Share Car Canvas His Canvas Set
Cey Partners ? <u>Insert</u>	Key Activities ? Insert	Value Proposition 2 Insert	Customer Relationships ? Insert	Customer Segments ? Insert
	Key Resources ? <u>Insert</u>		Channels ? <u>Insert</u>	
ost Structure		Revenue Strea	ams ? Insert	

https://canvanizer.com/canvas/wWYI2J5eMRz5u

# These methods are not just for startups!! Any company can and should use them

# Managing Projects for Innovation

Agile Development



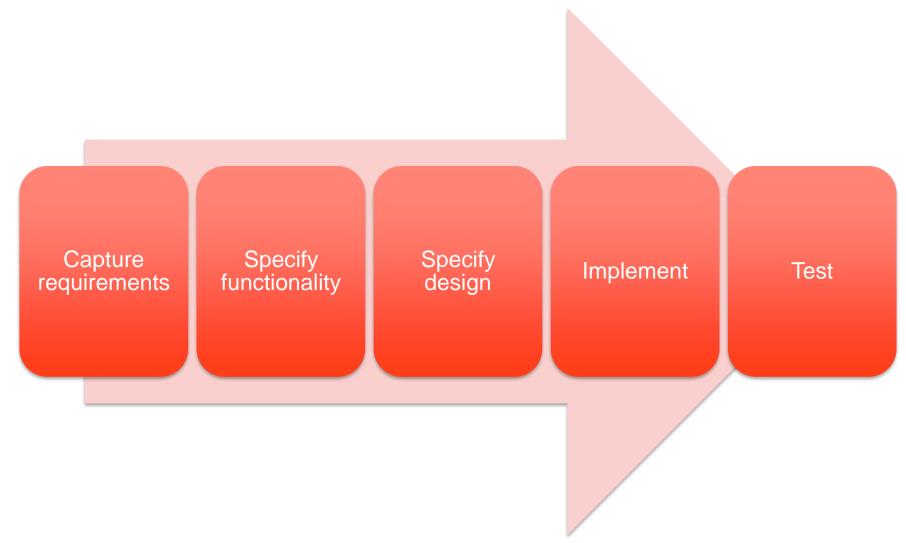
# How can project management be done for invention and innovation?

### **Background**

- In innovation projects, there are many unknowns:
  - Feasibility of idea may be unknown
  - Product or process concept may be vague
  - Target customers may be unknown
  - The way to make revenue may be unknown
- Some companies attempt to use traditional project management approaches for innovation projects

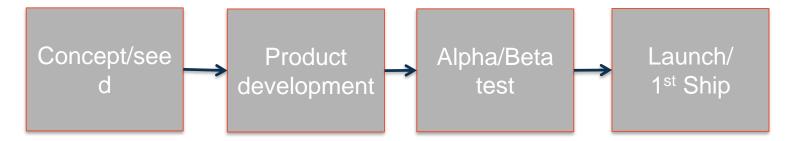
This often fails

#### Traditional "waterfall" approach to software development

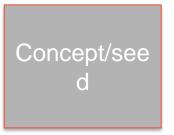


#### New Product Introduction model:

Works where customers are known, product features can be specified in advance, market well-defined, basis of competition understood



New Product Introduction model:





Come up with concept

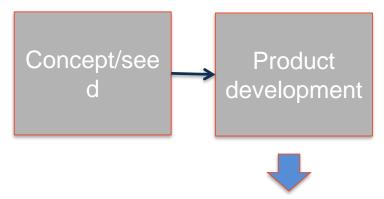
Define product and product features

Determine customers

Do market research (statistical and some interviews)

Develop business plan

New Product Introduction model:



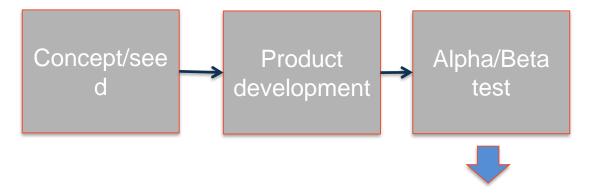
Specify market requirements

Develop product/service - typically using waterfall model:

Requirements, design, implementation, testing, maintenance

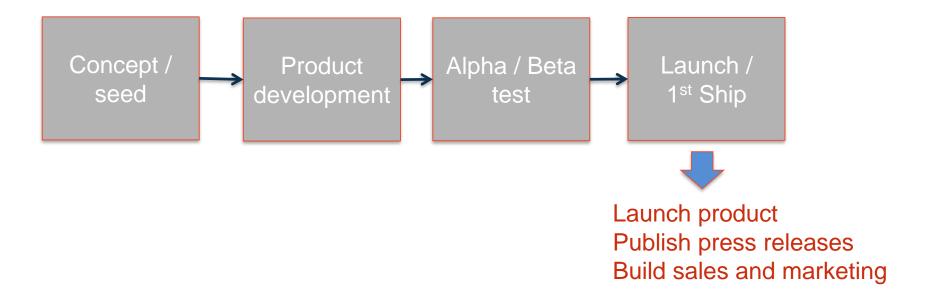
Promote future product/service

#### New Product Introduction model:



Sign up alpha/beta customers
Run alpha/beta trials
Develop sales and marketing materials
Get channel partners and build sales organisation

New Product Introduction model:



What's wrong with this model when there is high degree of uncertainty?

(eg where customers are unknown, needed features unknown, basis for competition not known)

### Problem with traditional approaches

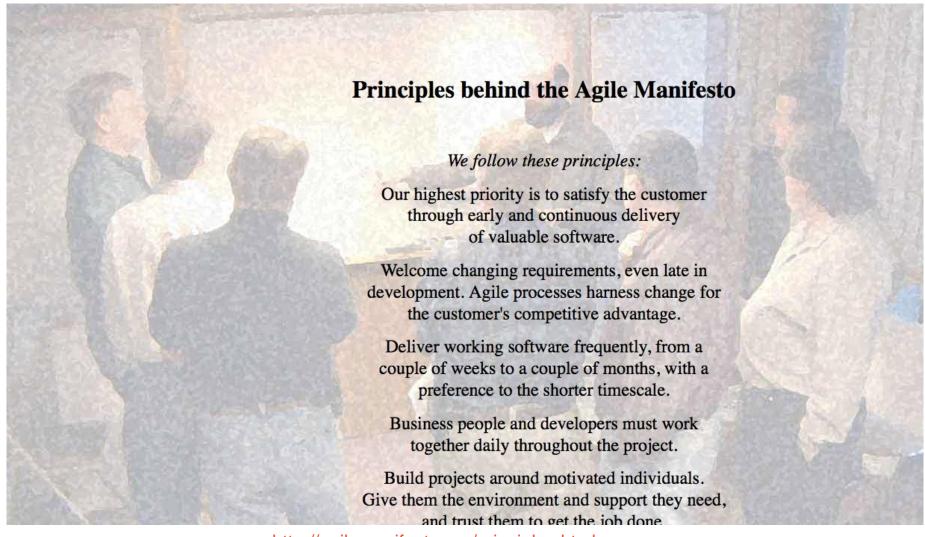
- Impossible to know all requirements in advance
  - The project takes time so the requirements at the time of capture may be different from those at the time of delivery
  - Some requirements are only clear when users are using the product
  - Too long to get customer validation of product

#### "The Agile Manifesto" (2001)

- We are uncovering better ways of developing software by doing it and helping others do it.
   Through this work we have come to value:
  - Individuals and interactions over processes and tools
     Working software over comprehensive documentation
     Customer collaboration over contract negotiation
     Responding to change over following a plan
  - That is, while there is value in the items on the right, we value the items on the left more.

http://agilemanifesto.org

#### "The Agile Manifesto" (2001)



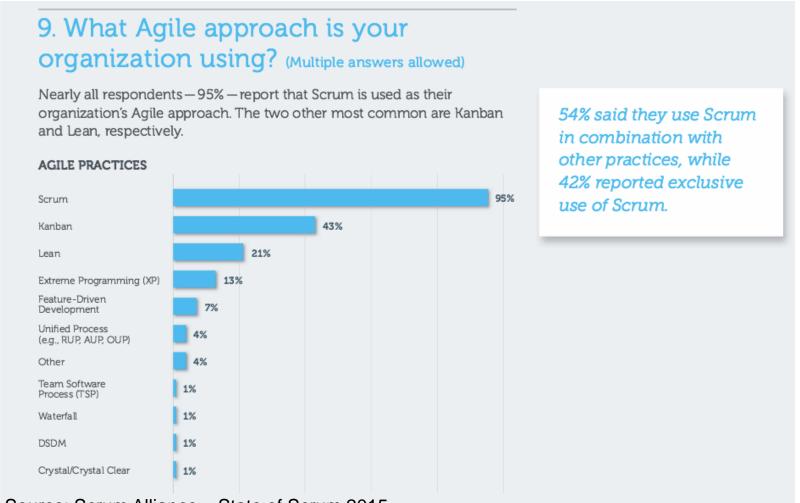
http://agilemanifesto.org/principles.html

#### Success of agile approaches on projects

SIZE	METHOD	SUCCESSFUL	CHALLENGED	FAILED
All Size Projects	Agile	39%	52%	9%
	Waterfall	11%	60%	29%
Large Size	Agile	18%	59%	23%
Projects	Waterfall	3%	55%	42%
Medium Size	Agile	27%	62%	11%
Projects	Walerfall	7%	68%	25%
Small Size	Agile	58%	38%	4%
Projects	Waterfall	44%	45%	11%

Source: The CHAOS Manifesto by the Standish Group 2015 referred to by <a href="http://www.infoq.com/articles/standish-chaos-2015">http://www.infoq.com/articles/standish-chaos-2015</a>

#### Types of agile development



Source: Scrum Alliance – State of Scrum 2015

https://www.scrumalliance.org/scrum/media/scrumalliancemedia/files%20and%20pdfs/state%2 0of%20scrum/scrum-alliance-state-of-scrum-2015.pdf

## Customer development Steve Blank

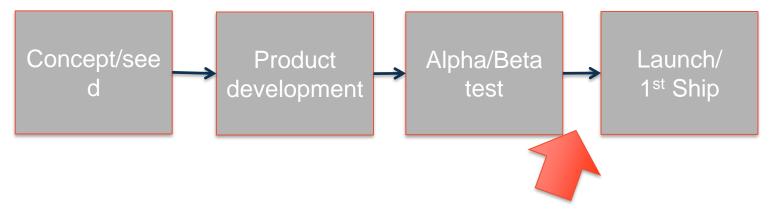


# What's wrong with the New Product Introduction Model (for startups)

- "The 9 deadly sins of the New Product Introduction Model":
  - 1. Assuming "I know what the customer wants"
  - 2. The "I know what features to build" flaw
  - 3. Focus on Launch date

- 4. Emphasis on execution instead of hypotheses, testing, learning and iteration
- 5. Traditional business plans assume no trial and no errors
- 6. Confusing traditional job titles with what a startup needs to accomplish
- 7. Sales and marketing execute to a plan
- 8. Presumption of success leads to premature scaling
- 9. Management by crisis leads to a death spiral

New Product Introduction model:



First contact between product and customer. Too late!

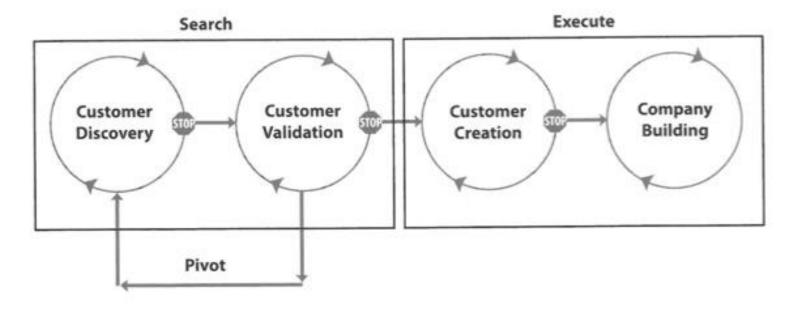
"No business plan survives first contact with customers" – Steve Blank

## Alternative approach for startups: Customer Development Process

#### **Customer Development Process:**

Works where customers are unknown, product features unknown, market unknown, basis of competition unknown – i.e.

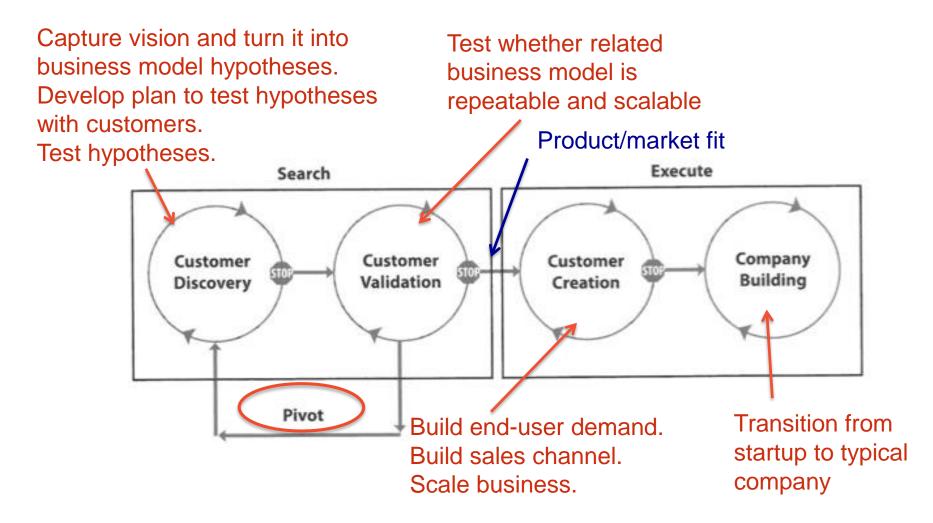
Designed to solve "the 9 deadly sins"



Customer Development Process (Figure 2.1)

Source: Steve Blank and Bob Dorf, "The Startup Owner's Manual" (2012)

## Alternative approach for startups: Customer Development Process



Source: Steve Blank and Bob Dorf, "The Startup Owner's Manual" (2012)

#### The Customer Development Manifesto (The 14 Rules)

- Rule 1. There are no facts inside your building, so get outside
- Rule 2. Pair Customer Development with Agile Development
- Rule 3. Failure is an integral part of the search
- Rule 4. Make continuous iterations and pivots
- Rule 5. No business plan survives first contact with customers so use a business model canvas (more soon)
- Rule 6. Design experiments and test to validate your hypotheses

• • •

#### The Customer Development Manifesto (The 14 Rules)

#### Rule 7. Agree on market type. It changes everything

- Bringing a new product into an existing market
- Bringing a new product into a new market
- Bringing a new product into an existing market and trying to:
  - Re-segment that market as a low-cost entrant
  - Re-segment that market as a niche entrant
  - Cloning a business model that's successful in another country

• • •

There Are Four Types Of Startups
Steve Blank

www.steveblank.com @sgblank Source: Steve Blank and Bob Dorf, "The Startup Owner's Manual" (2012)

https://www.youtube.com/watch?v=6y3WIrgp NY

#### The Customer Development Manifesto (The 14 Rules)

**—** ...

- Rule 8. Startup metrics differ from those in existing companies
- Rule 9. Fast decision-making, cycle time, speed and tempo
- Rule 10. It's all about passion
- Rule 11. Startup job titles are very different from a large company
- Rule 12. Preserve all cash until needed. Then spend
- Rule 13. Communicate and share learning
- Rule 14. Customer development success begins with buy-in

#### The Lean Startup

MVP, SyncDev, Product Market Fit, and more



#### The Lean Startup

- Eric Ries developed the concept of "The Lean Startup"
- Combines Steve Blank's Customer Development process with Agile Software Development

- Video of Eric Ries speaking, Oct 2011:
- https://www.youtube.com/watch?v=tNw4Ht75DvA
- (10 minutes)



www.theleanstartup.com
Eric Reis
Software
developer/entrepreneur

#### The Minimum Viable Product (MVP)

Definition (from Eric Reis):
 "the minimum viable product is that version of a new product which allows a team to collect the maximum amount of validated learning about customers with the least effort."

### **SyncDev**

 "When I first said 'minimum viable product' I never had to repeat myself. The words went viral right before my eyes."

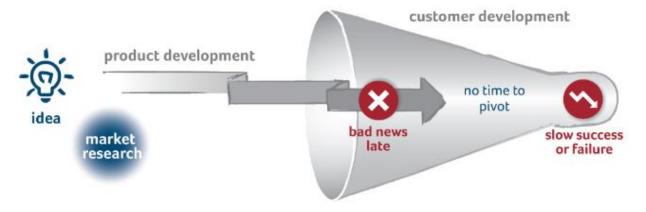
- "Frank Robinson independently came up with many of the concepts in Customer Discovery and Validation long before I wrote about them. Frank coined the term 'minimum viable product'. I liked it better than minimum feature set, which I used in my first book."
  - Steve Blank, Author and Entrepreneur



Frank Robinson, CEO, SyncDev, Inc.

#### Problem

Asynchronus Product & Customer Development



#### Solution

Synchronous Product & Customer Development



http://www.syncdev.com/minimum-viable-product/

#### The Minimum Viable Product (MVP)

THE ART OF THE MVP

https://www.youtube.com/watch?v=Fj0qsAyKPN8

#### **Product Market Fit**

- Definition (Marc Andreessen):
   "Product/market fit means being in a good market with a product that can satisfy that market."
- You can always feel when product/market fit isn't happening.
  - The customers aren't quite getting value out of the product, word of mouth isn't spreading, usage isn't growing that fast, press reviews are kind of "blah", the sales cycle takes too long, and lots of deals never close.



https://youtu.be/zfOsP3Pm

http://web.stanford.edu/class/ee204/ProductMarketFit.html

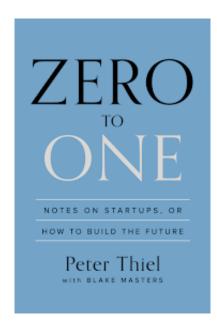
### Monopolies: "Winner takes all" markets



Peter Thiel, co-founder of PayPal, entrepreneur and investor

http://www.forbes.com/profile/peter-thiel/

- Focus on big vision rather than purely incremental niche-making by pivoting
- Focus on monopoly for a time in a market (eg Goolge, Twitter, Facebook) rather than continual competition



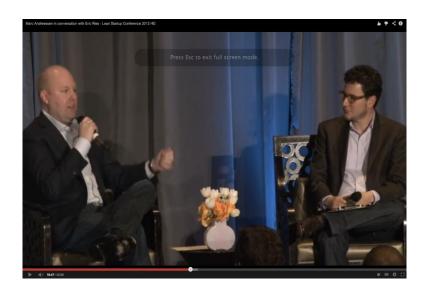
# Differences between the Lean Startup approach and the traditional approach (for established companies)



Steve Blank (2013)

#### Good sources of tips for startups

- Steve Blanks' blog <a href="http://steveblank.com">http://steveblank.com</a>
- Paul Graham's articles <a href="http://paulgraham.com/articles.html">http://paulgraham.com/articles.html</a>
- "Lean Startup" isn't all you need to know Marc Andreessen on role of lean startup <a href="https://youtu.be/GGui1AB66k8?t=2416">https://youtu.be/GGui1AB66k8?t=2416</a> (from 40:16 to end)



#### **Summary**

- According to Schumpeter, entrepreneurs inside new companies usually drive innovation causing creative destruction across markets
- A startup is "a temporary organization in search of a scalable, repeatable, profitable business model" (Steve Blank)
- Traditional new product introduction processes are not suitable for situations of uncertainty (eg most startups) as not enough is known about customers, needed features, etc
- Managing projects for innovation
  - Traditional project management approaches don't work well with uncertainty
  - Uncertainty is natural in all innovation
  - Agile approaches are needed for innovation
- The Customer Development process has been designed to help scalable startups find a scalable business model
- Startups are seeking "product/market fit"
- The Lean Startup approach provides a useful model for IT startups which combines Customer Development and Agile Development
- The Business Model Canvas, Value Proposition Canvas and Lean Canvas provide useful templates to help guide development of businesses

#### References

- Blank, S. (2013). Why the lean start-up changes everything. Harvard Business Review, 91(5), 63-72.
- Blank, S., & Dorf, B. (2012). The startup owner's manual. K&S; Ranch.
- Graham, P. (2012). How to get startup ideas. Paul Graham. <a href="http://paulgraham.com/startupideas.html">http://paulgraham.com/startupideas.html</a>
- Osterwalder, A., & Pigneur, Y. (2013). Business model generation: a handbook for visionaries, game changers, and challengers. John Wiley & Sons.
- Osterwalder, A., Pigneur, Y., Bernarda, G., & Smith, A. (2015). Value Proposition Design: How to Create Products and Services Customers Want. John Wiley & Sons.
- Ries, E. (2011). The lean startup: How today's entrepreneurs use continuous innovation to create radically successful businesses. Crown Books.
- Schumpeter, J. A. (1934). The theory of economic development: An inquiry into profits, capital, credit, interest, and the business cycle (Vol. 55). Transaction publishers.

#### Group Presentation - Session I

