How do I know if my idea is a good one?

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Ask your Customer!

Wrong Way

"Death by Demo"

"Here's my idea. What do you think?"

"How would you solve the problem?

Right Way

This is called

Customer Discovery

Customer Segments

Phase 1 Customer Discovery

Phase 2 Customer Validation

Phase 3 Customer Acquisition

What is Customer Discovery

- > What is the pain/problem
- > Who is having the pain/problem
- > How bad is the pain or
- >How are the "who" currently dealing with it
- > How is that solution working for them

Why this is Important

Your idea is......

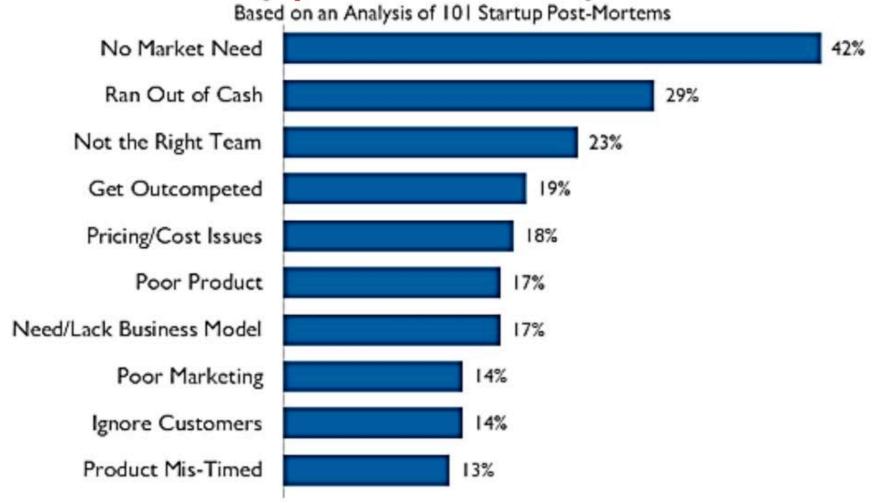
a

Hypothesis

at this stage

10

Top 70 Reasons Startups Fail



http://www.cbinsights.com/blog/startup-failure-reasons-top/

Best Way to Validate your Hypothesis "Get out of the Building!"

Steve Blank

- Face to face interviews Best
- Skype
- Shadowing
- Telephone



The technique

15 Minutes

5-7 questions

Rule: You are not allowed to talk about your idea!

How to do this

- Brainstorm all possible questions
- Prioritize 5 questions and 5 backup questions
 - Use questions that are measurable
 - E.g. "on a scale of 1-10..."; "how many times in the past three months..."
 - Include questions that are qualitative
 - "What do you like most about; Least about...."
 - Scale question "Why did you give it that number"
 - Follow up on new thoughts (outliers)

How to do this

- Plan who you want to interview
 - Demographics that describes your stakeholders
 - Buyers/Decision-makers
 - Users
 - Influencers
 - Where will you find them
- Practice

Get Started

"I am doing some research for XXX. Do you have **15 minutes** to answer a few questions"

- May need to say "this is not a sales call"
- 'Student Card' works well
- Start with Friends to practice
- Then go after people you don't know
 - For B-B, C-level is not always the best
- Consider asking
 - Who else should I talk to?
 - What else should I have asked?

Hints for Questions

- Try to avoid "Have you ever....?"
 Use "How often in the past (pick a relevant time period) have you....?"
- Careful of "Would you ever....?" type questions. Instead, try to frame your question on past behavior which is a much more reliable predicter of how the customer will actually act.

Hints for Questions

 Asking job title/position and how long someone has been in the job/position or status helps you to judge the level of experience (and doesn't count in the '5 question' quota.

 You will need a different set of questions for the different stakeholders.

How Many?

Recommended

100+

Stakeholders

(can include some Customer Validation)

Making it Work

- > Keep notes you'll forget.
- > Stop and assess periodically
- > Adjust questions and plan as needed

Benefits

- Avoids unnecessary 'pivots' (lost time and money)
- Get first hand knowledge of your target audience
- Can measure degree of enthusiasm and interest through observation
- Potential customers are 'giving' you the compelling sales pitch
- Helps prioritize what is most important
- Investors will want to know.....

...Is it a **REALLY Big Problem?**

...Is it a Really Big Problem?

- How many people or companies have this problem? (Is it a big target market?)
- How much time or money is spent (or lost) each year because of this problem?
 (The more it costs them, the more they are motivated to pay for your solution)
- How well is their current solution working for them? (They will happily switch to your solution because their current one isn't working very well.)

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- Is it a "Need-to-Have" vs "Nice-to-Have?"
- Will it be a big opportunity that will attract investors?

"..... will it scale?"

- Do your product/service margins increase with volume?
 - COGs
 - Installation/Customization
 - Service/maintenance
 - Staff ratio to sales

Examples of Businesses/Products that Scale Well

- Software (MS Word, Excel, Quickbooks)
- Apps (Pandora, Twitter, BudgetSimple)
- Mass Market items (My Keepon, FitBit)
- Hardware that is standardized or uses standard parts (Air conditioners, remote controls)

..... How will I sell this?

- How will this be done?
- Who will do this?

Start thinking about this on DAY 1

B to C Case Study

flagtag

Users earn real-life prizes in a gamified, augmented reality, Easter egg hunt







How we add value



- Find discounts
- Discover new businesses
- Have fun while saving via gamified incentives



- Leverage an efficient marketing scheme
- Bring new faces through the door
- Receive analytics with respect to user habits and coupon efficiency



Customer Discovery Survey Results

Key Demographics for Student Stakeholders

CMU: 100 Interviewed – 56 male, 44 Female

Pitt: 50 Interviewed – 25 Male, 25 Female

Chatham: 50 Interviewed – 3 Male, 47 Female

(Later interviewed 100+ more at Carlow, Duquesne and Point Park Universities)



flagtag Sample questions

"On a scale of 1-10, how likely are you to deviate from your go-to restaurant for a better deal at a competing restaurant?"

"On a scale of 1-10, how difficult would you say it is for you to organize a bunch of your friends in a group activity or outing?"

"How many apps on your phone have you paid for?"

"When was the last time you played CTF?" (why not more often?)

"Would you play CTF if it were an IM here?"



"On a scale of 1-10, how likely are you to deviate from your go-to restaurant for a better deal at a competing restaurant?"

- Takeaway: College students are more likely to seek a deal than commit to a restaurant.
- Product Design: Make sure a key component to the game is interaction with businesses.
- Marketing Message: "Capture the flag, but also capture great deals"



"On a scale of 1-10, how difficult would you say it is for you to organize a bunch of your friends in a group activity or outing?"

Takeaway: Organizing groups of friends is a pain point for college students

Product Design: The game setup in the app needs to be intuitive so it is a helper, not a pain.

Marketing message: "You make the friends; we'll make sure they are organized."



"How many apps on your phone have you paid for? What are they? (if answered yes)."

Results:

No females at CMU, Pitt or Chatham paid for any apps.

22% of males at CMU and Pitt had any paid apps on their phones – all were for games

Takeaway: Fees from app is not part of the revenue model. (nor were they planning on it –just wanted to check.)



"When was the last time you played CTF?" (why not more often?)

Takeaway: Students had not played recently and the reason was because of lack of time.

Product Design: Spread game over longer time period where you don't have to commit a block of time.

Marketing Message: "Play on your own schedule."



"Would you play CTF if it were an IM here?"

Responses: CMU: 80% - yes, 10% - maybe

Pitt: 48% - yes; 24% - maybe

Chatham: 2% - yes, 98% - no

Conclusions:

- Key was Time, Friends, And Incentives
- Chatham was not an active group

Tagtag Customer Discovery

What they did right:

- Interviewed a large number of students from a variety of campuses
- Results helped to significantly restructure initial game design
- Derived key marketing messages from the interviews that were successful in getting students to download the app

Tagtag Customer Discovery

Where they missed the mark

- Misinterpreted the concern for time to mean 'design a shorter game time' rather than less time for games at all.
- Asked an 'aspirational' question i.e. "Would you play.....?" Responders meant well but simply didn't act as they said they would.

Tagtag What They Learned

After going through AlphaLab and launching the app:

- Students:
 - Very willing to download the app and open it
 - Mostly interested in capturing the flag for the discounts but not at all in the game aspect.
 - A little slow to redeem the coupons (flagtag is paid a bonus for each redemption)
- Businesses
 - Very well received
 - Most effective of all the coupon options they had tried by 3X



End Result

Fall 2016

- Verified the business model
- Revised the app
 - Simply capture coupons no game aspect
 - Provided an incentive to redeem the coupons more quickly

Relaunched Spring 2017 Folded Summer 2017

B to B Example



Proposed Product

- Add-on hybrid system for tractor trailers
 - Uses regenerative braking to capture
 power when the vehicle is slowing down that can be reused to accelerate.
- Value proposition to the customer: Reduces fuel consumption by over 30% with an ROI of less than 1 year.



Sample Questions

- How much on average do you spend on fuel? % of annual budget?
- Have you done analysis on fuel usage that you can share?
- What are you currently doing now to reduce your fuel costs?
- On a scale of 1-10, how well are those techniques working?
- Why did you give each that number?

HYLIION Interviewed

- Fleet managers
- Fleet truck drivers
- Independent truck drivers
- Trailer manufacturers
- Mechanics that service the fleet
- Companies with proprietary fleets
- Industry association staff

HYLIION Where did they find them

- Industry conventions
- Truck stops
- Fleet owners' headquarters
- Trailer sales offices
- Telephone



Findings

- 6 million trailers in the USA
- Each trailer averages 6.5 mpg = \$85,000
 fuel costs per year per trailer
- 52 Billion gallons of fuel consumed yearly
- 31% = \$46 B in potential fuel savings
- \$25k per unit x 6M trailers = \$150B potential market

HYLIION Findings

- Largest value/ROI for long-haul fleets
- 15% of fuel is used to run the cab at night for heat/AC and electronics
 - Shaking cab results in poor sleep which can lead to accidents
 - (This was the 'outlier') that helped sell management
- Less wear and tear on the diesel engine
- Reduced emissions



Big Problem Big Market Great Product Great Business



- Therapy tool for therapists who work with severely autistic children
- Price: \$25k (includes hardware and software)
- Target audience: Clinics that specialize in therapy for severely autistic children

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Size of target audience: 100 clinics

Great Product; Lousy Business













Why nowwait was a good investment

"We want to **invest in large markets**, ...if you have a fantastic team with fantastic products but it's in a small market, there's a smaller type of outcome that can happen e.g they're swimming in a smaller pond. If you have a big and expanding market, it's great to have a great team and product, but if you don't, you still have a chance. "

".....We focus on **investing in trends shaping the landscape** over the next 10 years. **Casual dining is a multi-hundred-billion business in the U.S. alone**. Everybody's got to eat."

"......What they're doing solves an acute point, waiting to get in line, waiting to get a check. They have a very elegant solution."

Nick Solaro of Drive Capital, a Columbus, Ohio-based \$250M VC fund on their \$10M investment in NoWait in May 2014 (Source: Pgh Business Times)

Q&A

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