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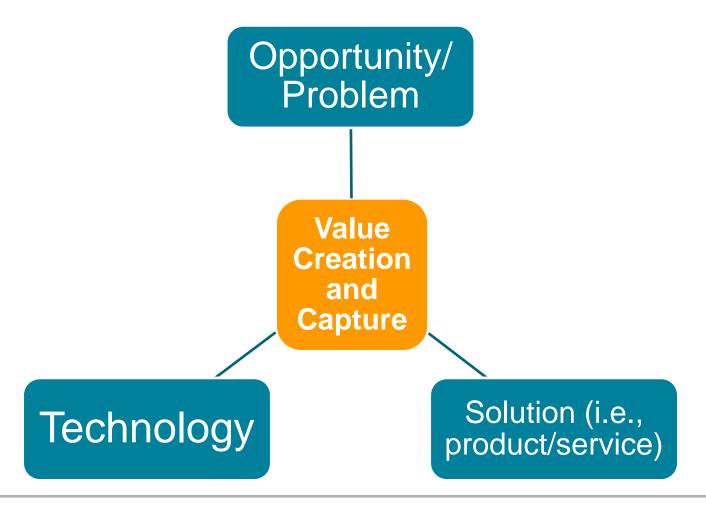
What does "business model" mean for you?

Business models explain how firms create and capture value.

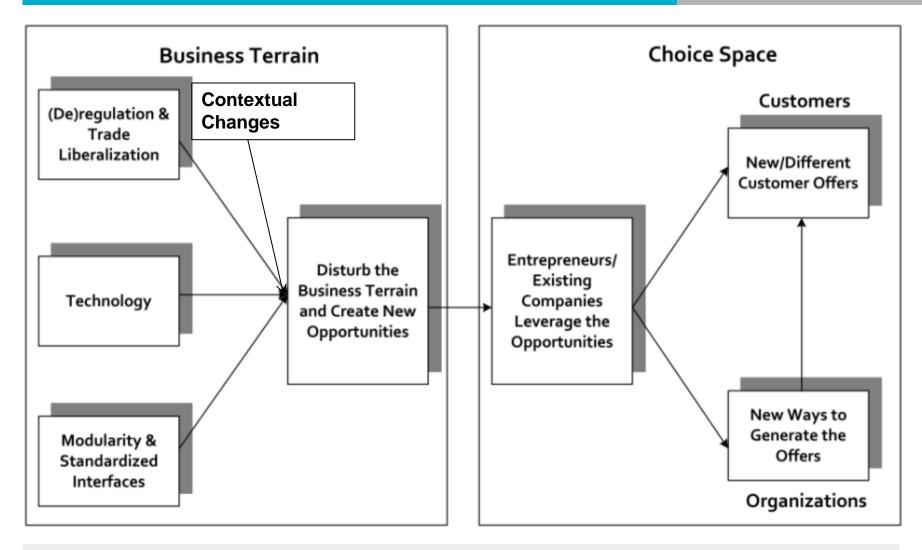
Amit and Zott (2001)

Amit, R., and Zott, C. 2001. "Value Creation in E-Business", Strategic Management Journal (22), pp. 493-520.

The Business Model Concept Brings Everything Together



What enables new opportunities?



Keen, P., and Williams, R. 2013. "Value Architectures for Digital Business: Beyond the Business Model," MIS Quarterly (37:2), pp. 643-647.

Program today

- 1. Fundamentals of the business model concept
- 2. The business model canvas tool
- 3. Lean approach for business model development

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What do you need the business model concept for?

A business model is important for:

- Understanding and communicating of business logic by capturing and visualizing it
- Innovating, designing and changing business activities
- Simulating and patenting of designed business logic
- Enabling measurement, analysis, evaluation and inter-firm comparison of business logic
- Improving of decisions related to a firm's success or new ventures

Al-Debei, M. M., und Avison, D. 2010. "Developing a unified framework of the business model concept", *European Journal of Information Systems* (19:3), S. 359–376. Osterwalder, A. 2004. "The Business Model Ontology - A Proposition in a Design Science Approach." Veit, D., Clemons, E., Benlian, A., Buxmann, P., Hess, T., Kundisch, D., u. a. 2014. "Business Models: An Information Systems Research Agenda", *Business & Information Systems Engineering* (6:1), S. 45–53.

What is the difference between a business plan and a business model?

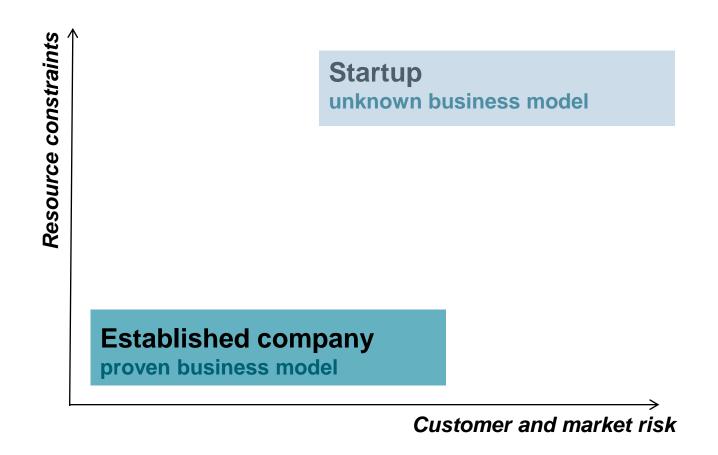
A business plan

- Is a document that describes a firm's business model
- Always takes into account the competitive environment
- Includes financing and financial scenarios and forecasts



Laudon, K. C., and Traver, C.G. 2017. *E-commerce 2017: Business. Technology. Society* (13th ed.). Timmers, P. 1998. "Business Models for Electronic Markets", *Electronic Markets* (8:2), S. 3–8.

"Startups are all about the unknown..."



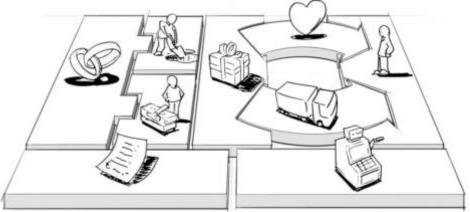
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The business model canvas tool

- A strategic management template for developing new or documenting existing business models
- Allows visual charting, sketching and brainstorming
- Consists of 9 building blocks, based on extended business model components
- Proposes questions for each building block

Introduced by Osterwalder based on his research work



Osterwalder, A. and Pigneur, Y. 2010: Business Model Generation: A Handbook for Visionaries, Game Changers, and Challengers.

Business Model Canvas

https://www.youtube.com/watch?v=41q_zn8jMaE&t=76s

The business model canvas tool

The Business Model Canvas

Designed for:

Designed by:

Key Partners



Value Propositions

With one of the Laterna's publishes are we'nding to saled!
What handles of products and process are set offering to each (Laterna's September 1).

Customer Relationships

What have of eviationally allow work of our Turbonier lagranal in report as to establish and roundare with the of Which area have see established? Now see that independ with the rest of our houseast resolution costs; and that it

Customer Segments

For serior are seryouting solut.
We are not reported solutioned

Key Resources



Channels

No presentating the ow! No proce Ocean religion? White our wall bed? Not you are you pay of payed.



Cost Structure



Revenue Streams







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9 out of 10 startups fail.

Chakrabarti, R. 2017. 9 Out of 10 Start-ups Fail. Here's Why! in Entrepreneur Retrieved 15. Mai, 2018, from https://www.entrepreneur.com/article/295798.

You need 58 new products for one successful one.

Why?

A startup is not a smaller version of a big company

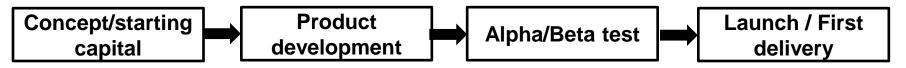


Example "Webvan" (Dotcom Blase, end of the 20th century):

- Revolution of the US food retail sector because of online orders
- Founded in 1996 → 1999: Had already collected 400m euro venture capital
- Hiring experienced managers
- Setting up a website, warehouses and fleet delivery trucks, as well as positive customer experiences
- → Only 24 months after the IPO, Webvan went bankrupt. Why?

Relan, P. 2013. "Where Webvan Failed And How Home Delivery 2.0 Could Succeed", in TechCrunch.

In the 20th century, every company used some kind of product management model to introduce a new product



Traditional product management models are POSSIBLY appropriate if established companies:

Already know the customers

Know that the market is stable and well-defined

Can determine product characteristics in advance

Know what the competitors are like...

Only very few startups and companies match these criteria. Still, too often, all parties involved in the startup cling to such a plan, which, in some circumstances, could have destructive consequences

Deadly Sin #1:

Assuming you know what the customer wants

- On day one, a startup is a faith-based initiative built on guesses.
- Often, a delivery for a customer is hastily prepared without even talking to them before.

→ To succeed, founders need to get out of the building and ask customers about their needs.

Deadly Sin #2:

The "I know what features to build" flaw

- Is implicitly driven by Deadly Sin #1.
- Without direct and continuous customer contact, it is unknown whether the developed product features will match those the customers want.

→ It is essential to constantly be in contact with the customers during the entire development stage.

Deadly Sin #3:

Focusing on the launch date

- Pressure from executives and investors results in everyone adhering to the scheduled launch date by all available means.
- Often, overhastily, the product is finshed off not fully developed.
- Often, people tend to forget "WHO" buys the product and "WHY" the customers want to buy it.
- This stage has an extremely high need for capital.
- Only after the launch, many startups realize that the customer rush is smaller than expected.

The rapid growth of Webvan strictly followed the milestones put down in the business plan – the startup did not take into account that there were not enough customers available...

Deadly Sin #4:

Emphasizing execution instead of testing, learning, and iteration

- Initital hypotheses need to be tested and proven before they can be regarded as facts.
- Startups need to be in constant search mode and question everything to find their perfect Business Model.

→ The skill to learn from mistakes is a feature of a successful startup.

Webvan hired directors for sales promotion, marketing and product management, who worked according to strict strategies. Shortly after the product launch, they already employed 50 employees.

Deadly Sin #5: Writing a traditional business plan that does not allow for trial and error

- In the starting period, traditional metrics like profit and loss account, balance sheet and cashflow get in the way. What is important is the cash burn rate.
- Board members and executives mostly only want information on milestones like beta tests and the first customer delivery. Thereby, a long list of tests and experiments gives evidence about the progress.

→ If the executive board does not ask the right questions, they will waste time.

Webvan did not have a milestone that said "Pause for a moment and evaluate what is happening" – otherwise, they would have noticed the difference between the 2000 actual and the 8000 planned orders a day.

Deadly Sin #6:

Prematurely scaling your company based on a presumption of success

- Traditional plans leave little room for error, learning, iteration and customer feedback.
- Recruitments and expenses should only then be increased when sales and marketing bring about predictable, reproducible and scalable processes.
- No business plan survives first contact with customers.

Webvan's hasty attempts at scaling led to mistakes being acknowledged when it was already too late.

Why are there specifically high failure rates for IT-associated startups?

How IS may increase competition in an industry (Recap)

Increasing threat due to e.g. Potential threat of Better access to Increasing bargaining new entrants distribution channels power due to e.g. Lower capital and Supply chain personnel costs Decreasing differentiation due to e.g. integration → Rivals within an industry may use dependency the same or similar technology Bargaining power Bargaining power **Industry** of suppliers of buyers competitors Increasing bargaining power due to e.g. Many choices for one buyer Increasing threat of Threat of Increasing availability of substitution, e.g. information (transparency) substitute Technology enables NETFLIX guenstiger.de products disruptive innovations

Porter, M. E. 2001. "Strategy and the Internet," Harvard Business Review (79:3), pp. 62-79.

Low market entry barriers, global access (financing, markets), rapid advances

Digitalization

Entrepreneurship

New business models, data-driven, customer-centric

Challenges of Digital and Open Source Business Models

Quick adaptation and learning with new technologies and business models needed!

- Before running out of resources
- Seen in many successful new firms

Challenges of Digital and Open Source Business Models

Challenges for Algorithm-based Business Models: The Case of Spotify

- Spotify pays uploaders of playlists/music by number of listeners
- New uploads: Algorithmic check for uniqueness and existing copyrights
- Several people started uploading one-tone songs
- Gave listening tasks to Mechanical Turk
- Made over \$300,000 in per week until Spotify realized it
- All due to an automated and incentivizing business model



Challenges of Digital and Open Source Business Models

Open Source Business Models: The Case of Magento



- Started as a service company didn't scale well
- Released their software as open source to become a product startup
- Tried support BM but: "People just don't like that because if you have a good open source product, they don't need your support and services. They actually just want to use it." – Yoav Kutner
- Then shifted to dual licensing BM: Enterprise edition and a community edition differentiated on features – But one important thing is ecosystem and developers would just offer missing extensions for community edition in marketplace (often for free) – you are competing the ecosystem
- Enterprise customers see it and start asking why they pay so much only for support at the end
- Offered hosting service hosting became commodity
- Today: Platform as a Service scalable resources

Summary: Challenges to Startup Success in a Digital World

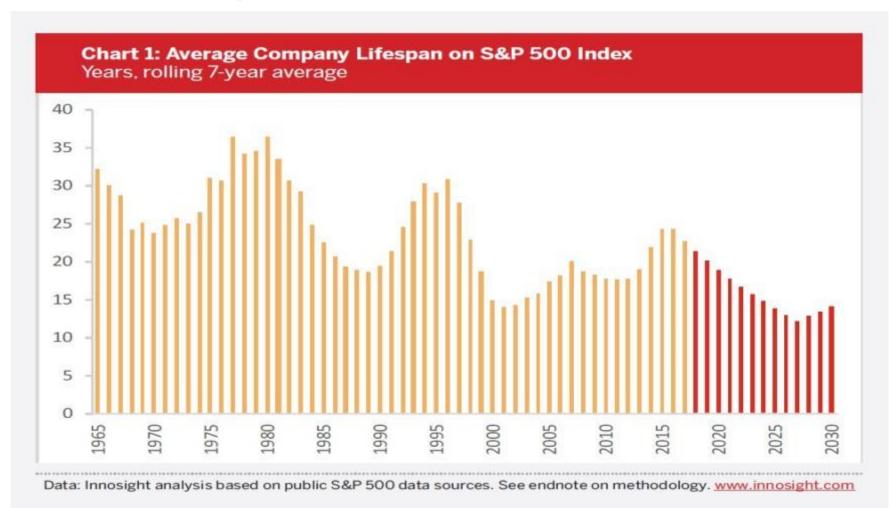
- Low entry barriers due to digitalization
- Easy access to production labs, digital workforce, data, users (e.g., maker movement, design crowd)

- Very rapid new technological developments
- Value creation/capturing logic for new technology unknown (e.g., Twitter)
- New technologies and related unknown business models bring more risk and complexity
- Specific effects such as the economics of information and digital products increase complexity and make competition fiercer
- Specifics of electronic markets such as network externalities also make things more complex

Steininger, D. M. 2016. Digital Entrepreneurship: Definitions, Business Models, and Network Externalities, Mannheim: Dissertation, University of Mannheim.

Challenges of Digital and Open Source Business Models

>> Increased Speed and Failure



What to do?

Use the lean approach and customer development!

Not only in startups ;-)

We do not need a perfect plan A!

But a path to a functioning plan...



STANFORD TECHNOLOGY VENTURES PROGRAM

Steve Blank

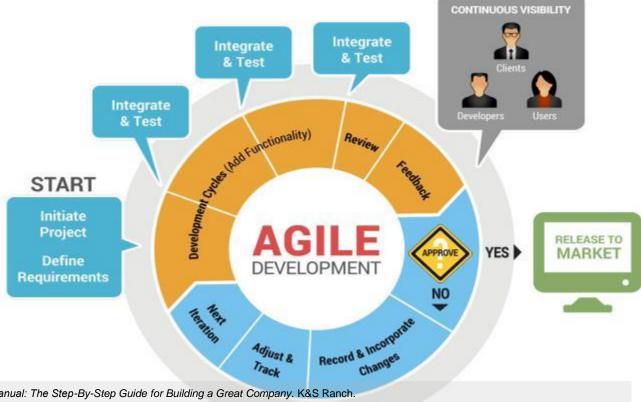
Serial Entrepreneur and Angel Investor

October 1, 2008

Tools for Developing Digital Business Models

The Lean Startup Approach combines:

- Steve Blank's customer development method and
- AgileSoftwareDevelopment

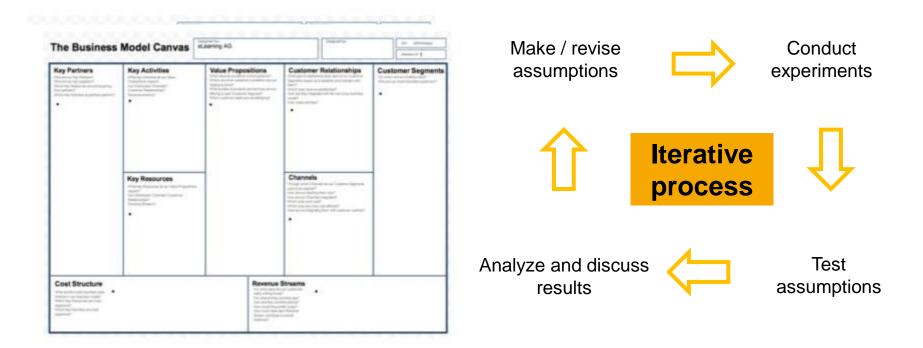


Blank, S. & Dorf, B. 2012. The Startup Owner's Manual: The Step-By-Step Guide for Building a Great Company. K&S Ranch. Geniuszone. 2018. Agile Software Development. Retrieved 15. May, 2018, from https://geniuszone.biz/agile-software-development/.

Tools for Developing Digital Business Models

Underlying framework: BM canvas / lean canvas

Customer Development and Agile Software Development: Iterative Process



Geniuszone. 2018. Agile Software Development. Retrieved 15. May, 2018, from https://geniuszone.biz/agile-software-development/. Osterwalder, A. and Pigneur, Y. 2010: Business Model Generation: A Handbook for Visionaries, Game Changers, and Challengers.

Tools for Developing Digital Business Models

- The problem is in the center of the approach
- Highly iterative process to turn plan A into a functioning plan
- Functioning plan: Reproducible, scalable
- Iterating and learning quickly before resources are exhausted
- "Get out of the building and meet customers" (Steve Blank)
- Uses the business model canvas in a modified version
- Can be used very well for product development in established companies



The 3 principles of the lean approach:

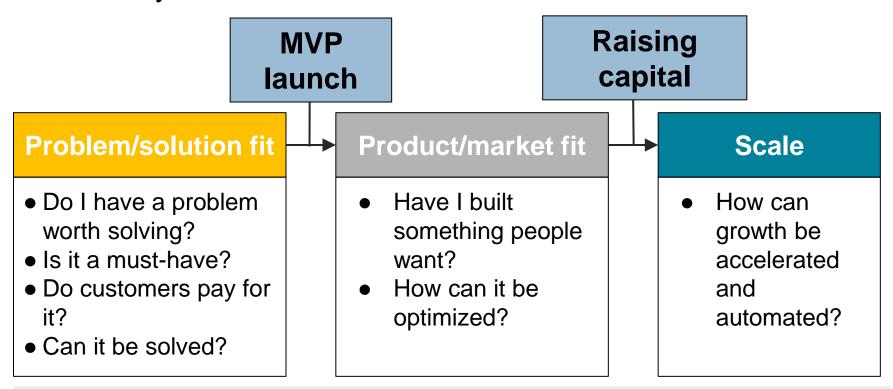
1. Document your plan A

The 3 principles of the lean approach:

1. Document your plan A >> lean canvas

The 3 principles of the lean approach:

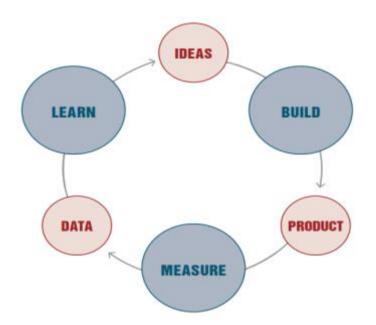
- 1. Document your plan A >> lean canvas
- Identify the risks of the sections



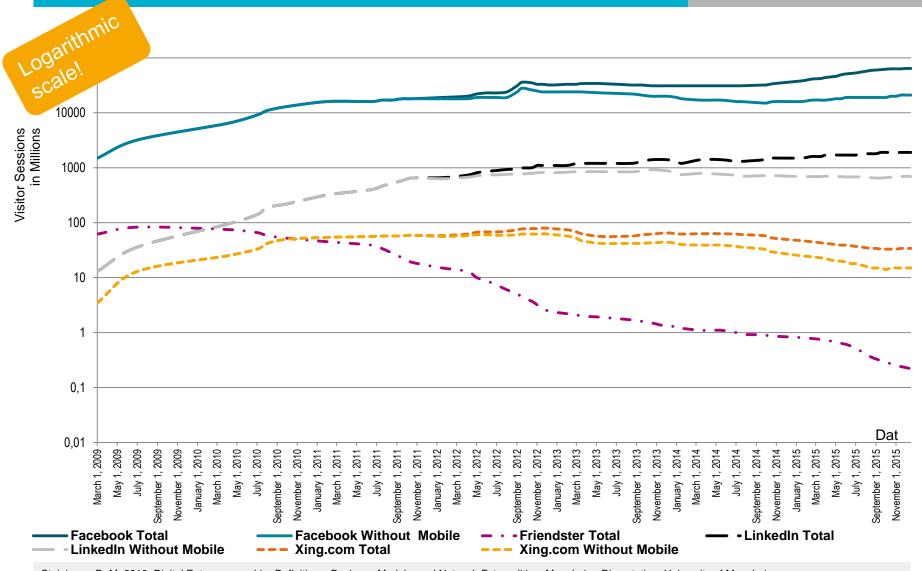
Blank, S. & Dorf, B. 2012. The Startup Owner's Manual: The Step-By-Step Guide for Building a Great Company. K&S Ranch.

The 3 principles of the lean approach:

- Document your plan A >> lean canvas
- Identify the risks of the sections
- Test and revise your plan systematically



Blank, S. & Dorf, B. 2012. The Startup Owner's Manual: The Step-By-Step Guide for Building a Great Company. K&S Ranch.



Steininger, D. M. 2016. Digital Entrepreneurship: Definitions, Business Models, and Network Externalities, Mannheim: Dissertation, University of Mannheim.



Friendster

- At its peak time the largest SNS (>115 million users)
- Seen as the early mover of leisure-oriented SNS
- Offered free basic membership
- Was discontinued in 2015
- Located in Silicon Valley, USA

©friendster.

Facebook

- The largest global SNS (>2000 million users)
- Market leader of leisure-oriented SNS
- Late mover
- Most offers and features free of charge
- Heavily funded by VC from beginning
- ▶ IPO in 2012
- Located in Silicon Valley, USA



Challenges of Digital and Open Source Business Models



The case of LinkedIn vs. Xing

- LinkedIn (Silicon Valley, USA)
 - One of the largest global SNS (>570 Mio.)
 - Market leader of professional SNS
 - Most offers and features free of charge
 - Heavily funded by VC from beginning
 - IPO in 2011
- Xing (Hamburg, Germany)
 - European leader of professional SNS (>17 Mio.)
 - Offers free basic membership
 - Early IPO in 2006
 - Struggling to retain users







"I went to my first hackathon and fell in love. The next day I was totally beat but couldn't wait to do the next one. Two weeks later I asked some people, 'When's the next one?' and they said it wasn't planned. I sent out an e-mail saying, "Hey, I'm going to get some Chinese food and hack all night." It was super successful, and most of the company was there"

Steininger, D. M. 2016. Digital Entrepreneurship: Definitions, Business Models, and Network Externalities, Mannheim: Dissertation, University of Mannheim.



"Reid Hoffman was a big fan of 'now build it and break it and then fix it' and then also, how did it go? 'If you launch a product that is perfect for the customer, you have waited too long with launching'. That is also a quote that you will constantly hear from him.

For example, our first jobs product was relatively simple and there were features missing on the right and left side but it was usable.

It was not good, not beautiful, but it was usable and we were able to see what worked and what didn't and then further build on that and further develop [...]. Exactly, yes exactly. That [lean startup approach] was a big thing of Reid Hoffman"

Steininger, D. M. 2016. Digital Entrepreneurship: Definitions, Business Models, and Network Externalities, Mannheim: Dissertation, University of Mannheim.

Also established firms use the lean approach



- Day-1 principle
- Joy of experimentation and improvisation
- Proud of fault tolerance
- Meetings begin with summary of latest failure
- Famous fails: fire smartphone, first marketplace

"We always experiment instead of only following one idea"

- Jeff Wilke – CEO -

An example of how to use lean business modeling





The 3 main problems

EXAMPLE: Use the Kipling Method

Rudyard Kipling used a set of questions (5W + 1H) to help trigger ideas and solve problems.

– WHAT

What is the problem? (What are the symptoms?)

WHERE

Where does the problem occur? (respectively, where did it emerge?)

– WHEN

When does the problem occur? (respectively, when did it first occur?) But also: When do you know the problem is solved?

– WHY

Why did the problem occur?

WHO

Who is affected by the problem? (respectively, who needs to be involved in the solution?) (Persons, departments, organizations, etc.?)

– HOW

How does the problem show itself? But also: How can you solve the problem?

Creatingminds. 2018. The Kipling method (5W1H). Retrieved 15. May, 2018, from http://www.creatingminds.org/tools/kipling.



The 3 main problems

- It is timeconsuming to share many photos/videos
- Parents have no free time
- There are numerous requests



The 3 main problems

Ex.:

- It is timeconsuming to share many photos/videos
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Target customers





The 3 main problems

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Target customers

- Parents (Doers)
- Family andFriends(Observers)
- Early Adopters:
 Parents of small children



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A message stating why your product /service is different and worth buying.



Customer Segments

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A message stating why your product /service is different and worth buying.

Ex.:

- Fastest way to share photos/videos
- High-level: sharing without upload



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Value proposition

- A customer value proposition gives an overall view of a company's bundle of products, services and client advice
- It is the sum of the total benefits a customer is promised to receive in return for a payment (or other value transfer)



Blank, S. & Dorf, B. 2012. The Startup Owner's Manual: The Step-By-Step Guide for Building a Great Company. K&S Ranch.

What are the 5 most important competitive attributes that characterize a game console's offer?

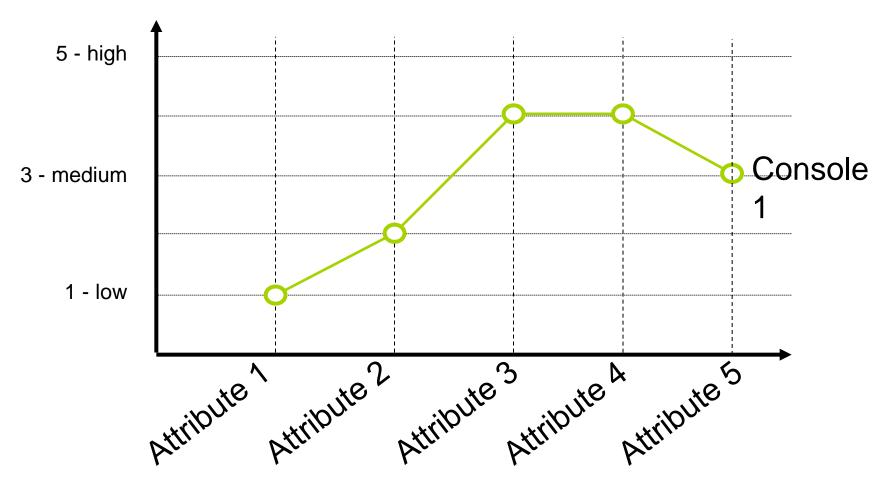






- 1. Most important attribute
- 2. Second most important attribute
- 3. ...
- 4. ...

Visualizing and comparing value propositions





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3 most important features



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EXAMPLE: Visioning

- A vision is a 'motivating view of the future'. It creates pull. It gives direction.
- Imagine brilliant and innovative future. Think about what you are trying to achieve.
- Go out into the future. Look around and see what is there.
- Use dynamic and emotive words to paint motivating pictures.
- Phrase it in the present tense to make it more immediate.
- Use active verbs that talk about what is happening.
- Test it with others to ensure it works for them too.
- Visioning works because we are an imaginative species and are motivated by what we perceive as a possible or desired future.

Example: 200 years ago, today, in 200 years



Creatingminds. 2018. Visioning. Retrieved 15. May, 2018, from http://creatingminds.org/tools/visioning.htm.



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3 most important features

Ex.:

- Without upload
- Photo integrated
- Automated message



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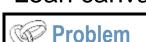
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Channels
Path to customers

Ex.:

- Friends
- Parents preschoolers
- Birthday parties
- AdWords/Facebook
- Word-of-mouth



The 3 main problems

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Solution

3 most important features Fx.:

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Revenue Model, Customer Lifetime Value, DB



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LEANSTACK | Continuous Innovation Platform. Retrieved 15. Mai, 2018, from https://leanstack.com/Revenue Streams

Revenue Model, Customer Lifetime Value, DB Ex.: 30 days free trial/ 49 \$ a year



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Cost Structure

Customer acquisition, logistics, hosting, staff



Revenue Streams

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LEANSTACK | Continuous Innovation Platform. Retrieved 15. Mai, 2018, from https://leanstack.com/welcome



The 3 main problems

Ex.: It is time-

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~10k/month

Solution

3 most important features Ex.:

- Without upload Photo
 - integrated **Automated** message



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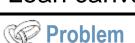
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Early Adopters: Parents of small children

Revenue Streams

Revenue Model, Customer Lifetime Value, DB Ex.: 30 days free trial/ 49 \$ a year

Cost Structure Customer acquisition, logistics, hosting, staff Ex.: Hosting Heroku (in the beginning: 0 dollars), 40hrs*65\$/h =



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integrated



Measurable key activities



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Customer **Segments**

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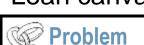
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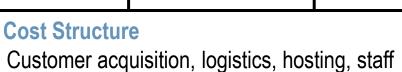
3 most important features Ex.:

- Without upload Photo
 - integrated **Automated**
 - message ★ Key



Metrics

- A- Registration - A- 1. set up gallery
- A- share album
- R invitation
- R- after trial > pay



Value Propositions

A message stating why your product /service is different and worth buying.

Ex.:

- Fastest way to share
- photos/videos High-level: sharing without

upload

- Ex.: Friends
- Parents preschoolers
- Birthday parties
- AdWords/Facebook

Channels

Path to customers

Word-of-mouth



Target customers

Ex.:

- Parents (Doers)
- Family and Friends

children

Early Adopters: Parents of small

(Observers)

Revenue Streams

Revenue Model, Customer Lifetime Value, DB Ex.: 30 days free trial/ 49 \$ a year

Ex.: Hosting Heroku (in the beginning: 0 dollars), 40hrs*65\$/h = ~10k/month



The 3 main problems

Ex.: It is time-

consuming to share many photos/videos Parents have no

free time There are numerous requests

Solution

3 most important features Fx.:

- Without upload Photo
 - integrated **Automated** message
- Metrics Measurable key activities
- A- Registration
- A- 1. set up gallery - A- share album
- R invitation
- R- after trial > pay

Cost Structure Customer acquisition, logistics, hosting, staff

3 Value

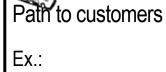
Propositions

A message stating why your product /service is different and worth buying.

Ex.:

Fastest way to share photos/videos

High-level: sharing without upload



Friends Parents preschoolers

Channels

- Birthday parties
- AdWords/Facebook Word-of-mouth

Unfair Advantage

Difficult to copy /

buy

Customer **Segments**

Target customers

Ex.:

Parents (Doers)

Family and Friends (Observers)

Early Adopters: Parents of small

children



Revenue Streams

Revenue Model, Customer Lifetime Value, DB Ex.: 30 days free trial/ 49 \$ a year

Ex.: Hosting Heroku (in the beginning: 0 dollars), 40hrs*65\$/h = ~10k/month

EXAMPLE: Perspectives of competitive advantage

Competitive advantage (EXAMPLE)

- Can be analyzed from two perspectives: market-based (MBV) <> resource-based (RBV)
- Marked based (external) view of competitive advantage:
 - Competitive advantage grows out of value a firm is able to create for its buyers that exceeds the firm's cost of creating it
 - Value is what buyers are willing to pay
 - Superior value stems from:
 - Offering lower prices for the same product
 - Providing benefits that legitimate a higher price
 - Generic strategies for competitive advantage
 - Cost leadership
 - Differentiation
 - Focus



Barney, J. 1991. "Firm Resources and Sustained Competitive Advantage," *Journal of Management* (17:1), pp. 99 -120. Porter, M. E. (1998): *Competitive Strategy: Techniques for Analyzing Industries and Competitors* (1st ed.), Free Press.

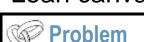
EXAMPLE: What are strategic resources?

Resource-based (internal) view of competitive advantage: (EXAMPLE)

- Competitive advantage grows out of resources the firm controls, including all assets, capabilities, organizational properties, firm attributes, information, knowledge etc.
- Questions to identify the competitive advantage arising from a resource:

Valuable?	Rare?	Costly to imitate?	Exploited by org.?	Competitive implications
No			No	Competitive disadvantage
Yes	No			Competitive parity
Yes	Yes	No		Temp. competitive adv.
Yes	Yes	Yes	Yes	Sustained competitive adv.

Barney, J. 1991. "Firm Resources and Sustained Competitive Advantage," *Journal of Management* (17:1), pp. 99 -120.



The 3 main problems

Ex.:

It is timeconsuming to share many photos/videos Parents have no

free time There are numerous requests

~10k/month

Solution

3 most important features Ex.:

- Without upload Photo
 - integrated **Automated**
 - message



- A- Registration
- A- 1. set up gallery - A- share album
- -R invitation
- R- after trial > pay



A message stating why your product /service is different and worth buying.

Ex.:

Fastest way to share

photos/videos High-level: sharing without upload

Ex.: Friends

- Parents preschoolers
- Birthday parties
- AdWords/Facebook



Difficult to copy / buy

Ex.: Community

- Network
- externalities Lock-In

Channels

Path to customers

Word-of-mouth



Customer **Segments**

Target customers

Ex.:

Parents (Doers)

Family and Friends (Observers)

Early Adopters: Parents of small children



ing, staff Ex.: Hosting Heroku (in the beginning: 0 dollars), 40hrs*65\$/h =



Rev Market Rev

lue, DB

Ex.: 30 days free trial/ 49 \$ a year



The 3 main problems

Ex.:

It is timeconsuming to share many photos/videos Parents have no

free time There are numerous requests

Solution

3 most important features Ex.:

- Without upload Photo
 - integrated **Automated**
 - message



- activities - A- Registration
- A- 1. set up gallery - A- share album
- R invitation
- R- after trial > pay

🖏 Value **Propositions**

A message stating why your product /service is different and worth buying.

Ex.:

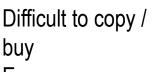
Fastest way to share

> photos/videos High-level: sharing without upload

- Ex.: Friends
- Parents preschoolers
- Birthday parties
- AdWords/Facebook
- Word-of-mouth







Ex.: Community

buy

- Network
- externalities Lock-In



Path to customers



Target customers

Ex.:

Parents (Doers)

Family and

Friends (Observers)

Early Adopters: Parents of small children



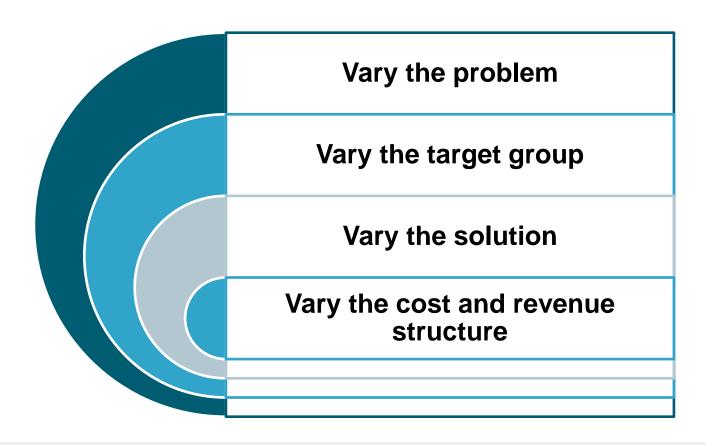
Ex.: Hosting Heroku (in the be

~10k/month

Break-even: ~2500 customers

omer Lifetime Value, DB 49 \$ a year

Generate alternative canvases:



Lean canvas: Service for video photographers



Problem

The 3 main problems

Ex.:

It is timeconsuming and error-prone to share videos

Most sites only

offer Thumbs

Alternatives: FTP, CDN

Solution

3 most important features

Fx.:

- Without upload
- Progressive streaming



→ Metrics

Measurable key activities

- A- First project
- A- Share video
- R invite customers
- R- after trial > pay

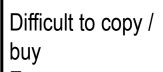
Value Propositions

A message stating why your product /service is different and worth buying.

Ex.:

- Fastest way to share videos
- High-level: sharing after upload

Unfair Advantage



Ex.:

Channels

Path to customers

Ex.:

- Premium Network
- Telephone sales
- Fairs

Customer **Segments**

Target customers

Ex.:

- Video photographers (Doers)
- Clients (Observers)
- Early Adopters: Music, sports, video games

Cost Structure

Customer acquisition, logistics, hosting, staff

Ex.: Hosting Heroku (in the beginning: 0 dollars), 2*40hrs*65\$/h =

~20k/month



Revenue Streams

Revenue Model, Customer Lifetime Value, DB Ex.: 30 days free trial/ 199 \$ a year

Break-even: ~1200

LEANSTACK | Continuous Innovation Platform. Retrieved 15. Mai, 2018, from https://CUSTOMERS

"Innovation comes from saying no to 1,000 things to make sure we don't get on the wrong track or try to do too much."

Steve Jobs

Discuss / evaluate canvases using these criteria:

- Customer needs (problem):
 - Prefer problems which are needed the most
 - There should be at least one problem you cannot ignore
- Accessibility (channels):
 - Prefer tests with customer segments that are easily accesible
 - This way, you get out on the street to learn faster



- Look for customer segments who tolerate higher prices
- Look for customer segments who cause lower costs
- Market size (customer segment):
 - Look for a segment that offers you a big enough market
- Technical feasibility (solution):
 - Is the solution feasible within the limits of the resources available?
 - Does the solution have a minimum amount of suitable features?



Choose the most appealing canvas and phrase the content as falsifiable hypotheses:

- "Being known as an expert attracts early adopters" (channel hypothesis)
- "One blogpost leads to 100 registrations"



Start with experiments and interviews:

- Product risk: What are you solving? (problem)
- Market risk: Who are the competitors? (existing alternatives)
- Customer risk: Who has the pain? (customer segments)



The problem interview

- 1. **Welcome:** Introduction
- 2. Collect demographics: Age, education, children, photos, how often?
- **3. Tell a story:** Set problem context
- 4. **Problem ranking:** Which is the most important one, others?
- 5. **Explore customer's worldview:** Work processes, assessment, dicuss hypotheses, what are minimum features?
- 6. **Wrapping up:** Do you want to get to know the product? Would you name us other interview partners who have children?
- Document results: Directly afterwards



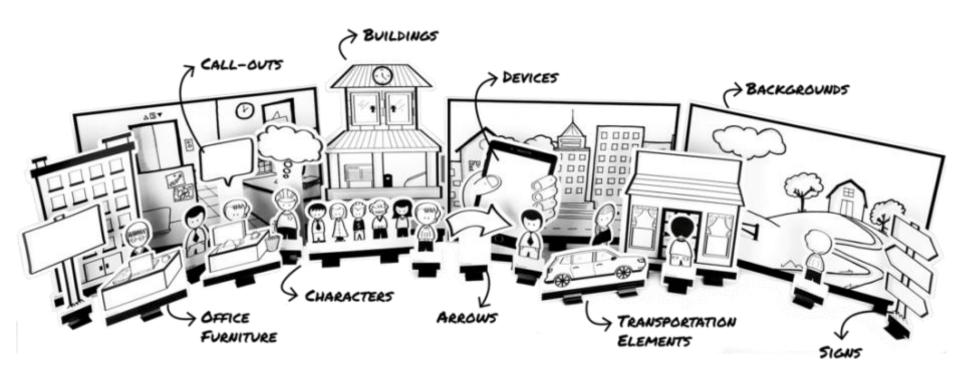
With the results of interviews

- Iterate and update canvas with new insights
- Build MVP on a small scale (scribble/demo/prototype)
- And keep learning and improving



Tools for Developing Digital Business Models

SAP Scenes for Developing User Stories



https://experience.sap.com/designservices/approach/scenes







Digital Prototyping without Programming

Digital prototyping explained by Google experts

https://www.youtube.com/watch?v=KWGBGTGryFk&t=252s

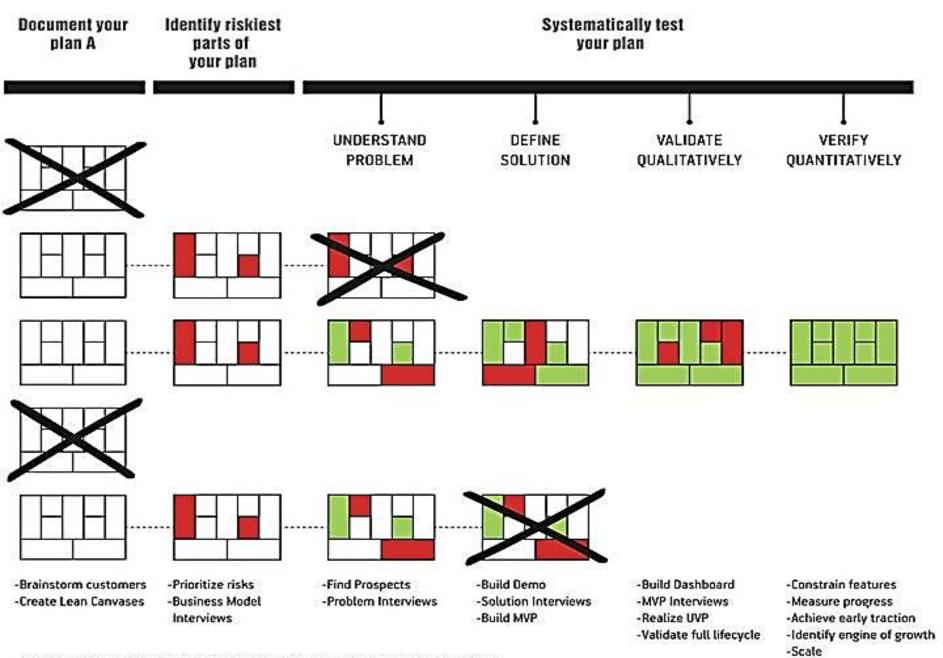
The solution interview:

- 1. **Welcome:** Introduction
- 2. Collect demographics: Age, education, children, photos, how often?
- **3. Tell a story:** Set problem context
- 4. **Demo:** Go through demo and show solution to problems, what is missing, what do they not need? How do they like it?
- 5. **Test pricing:** Ask if customers would buy it for defined price. Notice reactions: hesitating, direct consent
- 6. **Wrapping up:** Do you want to get to know the product? Would you name us other interview partners who have children?
- 7. **Document results:** Directly afterwards

Tools for Developing Digital Business Models

Crowdsourced Rapid User Tests





Summary

- Fundamentals of the business model concept
 - Explain how firms create value
 - Bring inputs of the firm to a potentially valuable economic output
- The business model canvas tool
 - Supports visioning, brainstorming as well as structuring your business idea into a (potentially) working business model
- Lean approach for business model development
 - Approach the process of business model development iteratively
 - Check for the "9 deadly sins"
 - Get out of the office to assess your risks realistically
 - Focus on a niche at the beginning

"There are no facts inside the building"

"Develop for the few and not the many"

Business modeling Customer development: resources & tools

Traffic:

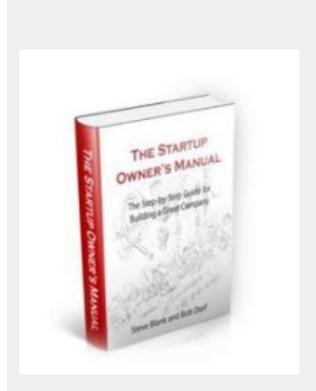
- Adwords
- Facebook ads

Test:

- Landing pages: <u>Unbounce</u>
- Interviews

Analyze:

- Heatmaps: Crazy egg
- Web: Google analytics
- A/B-Tests: <u>Unbounce</u>



Blog: http://steveblank.com

Thank you!



Readings

Primary literature

- Blank, S. & Dorf, B. (2012) The Startup Owner's Manual: The Step-By-Step Guide for Building a Great Company. Pescadero (California), K&S Ranch.
- Maurya, A. 2012. Running Lean: Iterate from Plan A to a Plan That Works,
 2. ed., Sebastopol, CA: O'Reilly & Associates.
- Osterwalder und Pigneur (2010): Business Model Generation: A Handbook for Visionaries, Game Changers, and Challengers, ISBN: 9780470876411, John Wiley & Sons.

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Additional literature

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- Wirtz, B. W., Schilke, O., and Ullrich, S. 2010. "Strategic Development of Business Models: Implications of the Web 2.0 for Creating Value on the Internet," Long Range Planning (43:2-3), pp. 272–290.
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 Köln, Deutschland: O`Reilly Verlag GmbH & Co. KG.
- Osterwalder, A., and Pigneur, Y. 2011. Business Model Generation: Ein Handbuch für Visionäre, Spielveränderer und Herausforderer, Frankfurt am Main, Deutschland: Campus Verlag GmbH.
- Blank, S. 2013. The Four Steps to the Epiphany: Successful Strategies for Products That Win, USA: K S Ranch.
- Ries, E. 2014. Lean Startup: Schnell, risikolos und erfolgreich Unternehmen gründen, München, Deutschland: Redline Verlag.