Fakultät Informatik - Institut Software- und Multimediatechnik - Softwaretechnologie - Prof. Aßmann - Software as a Business

14. Instruments for Competitive Advantage

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http://st.inf.tu-dresden.de/teaching/saab

- 1) Ultimative Competitive Advantage
- 2) Competitive Positioning Canvas
- 3) Stickiness and Virality
- 4) Moonshots

Obligatory Literature

- ► Mitchell, D. and Coles, C. (2003), "The ultimate competitive advantage of continuing business model innovation", Journal of Business Strategy, Vol. 24 No. 5, pp. 15-21. https://doi.org/10.1108/02756660310504924
- McGillicuddy, K.M. (2005), "The Ultimate Competitive Advantage", Journal of Consumer Marketing, Vol. 22 No. 5, pp. 292-293. https://doi.org/10.1108/07363760510611770
- UCA means several things:
 - UCA of a product or service: a non-beatable advantage
 - unfair advantage
 - moonshot
 - UCA of a company: to continuously improve your business model (business model innovation)



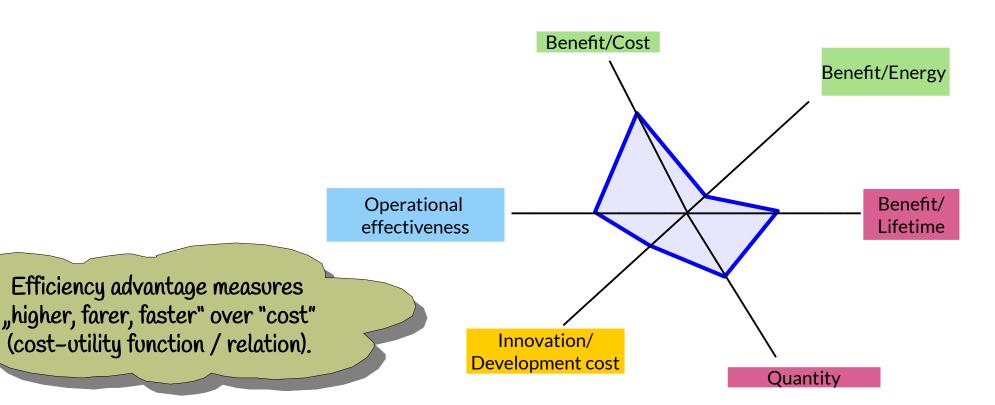


14.1. The Ultimate Competitive Advantage of a Feature or of a Product (UCA)

When we are talking about the features of our products, an UCA is important to beat the competition.

"Werden Sie Entrepreneur. Es gibt keine bessere Alternative." [Faltin]

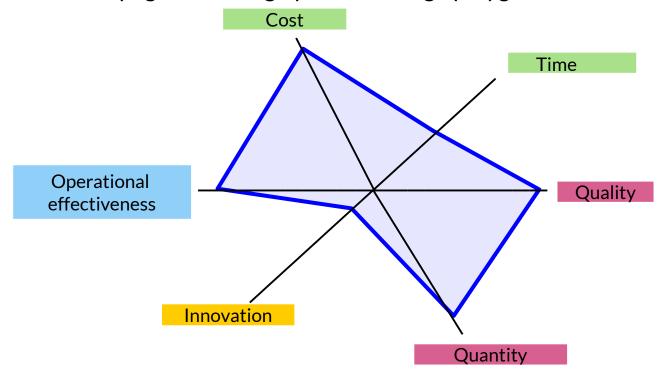
Spider diagrams visualize n-dimensional attribute analysis



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Ex.: Faltin's "Kopf schlägt Kapital"

- Faltin founded in 1997 the company "Teekampagne". Its ultimate competitive
 advantage is to reduce the product of price *quality*quantity (an efficiency product)
 - Importing entire containers of fresh, high-quality Darjeeling (one sort) from India by ship
 - Distributing very cheap by internet and mail in Germany in large packets of kilograms
 - Teekampagne has a high product / large polygone in the radar chart:





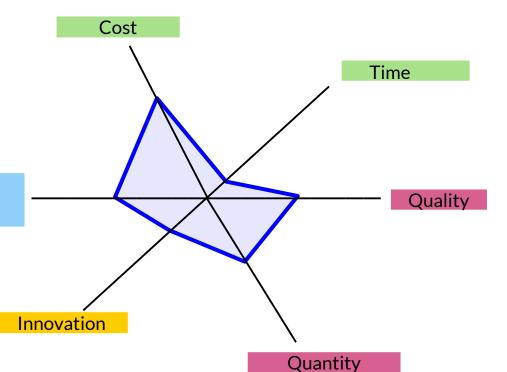
- http://en.wikipedia.org/wiki/Competitive_advantage
- In a market your company is not all one. Competition is strong. Therefore, you need to find a competitive advantage along one or several of the following olympic dimensions:
 - Cost leadership
 - Time to delivery
 - Feature Differenciation (uniqueness of feature)

Operational

- Quality of product
- Quantity of product
- Innovation
- Operational effectiveness

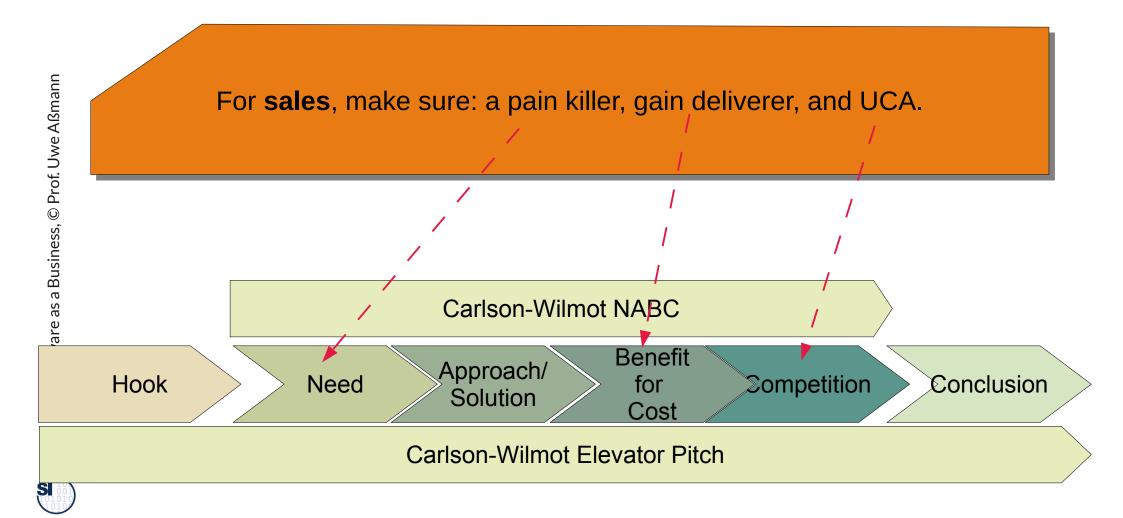
effectiveness

Olympic advantage measures "higher, farer, faster" (cost *or* utility function).



Ultimate Competitive Advantage (UCA) is about Beating the Competition by Factor 10

- A viral product/service is one about which news spreads easily, because people talk about it.
- A moonshot (UCA) is a feature that is 10 times better than that of the competitor



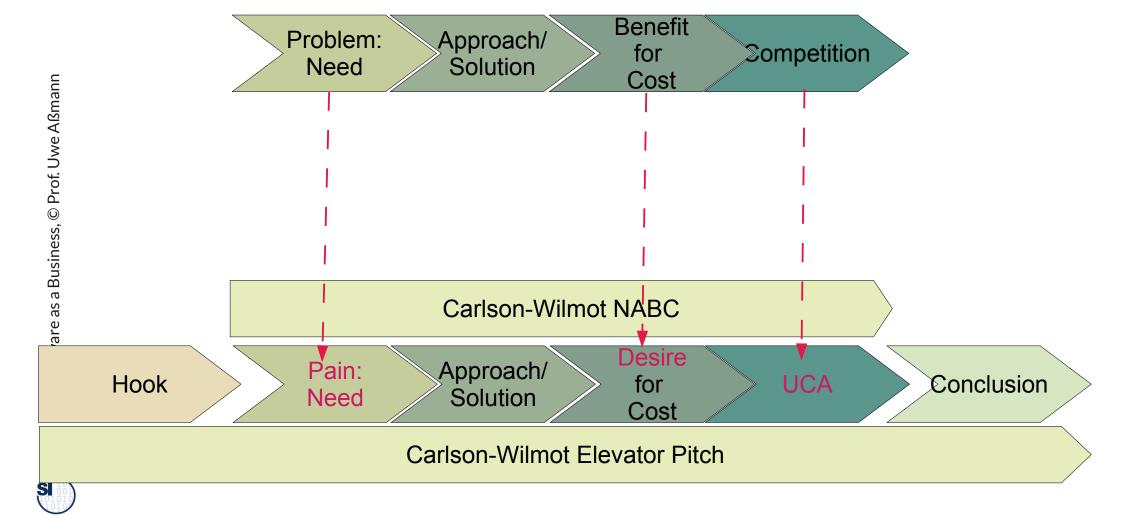
Domain Porting: Olive Oil

- http://www.artefakten.net/ Founder: Conrad Bölicke, Focussing on olive oil, with the same business model as Teekampagne
- http://www.zait.de, Founder: Thomas Fuhlrott: Olive oil products
- https://www.waschkampagne.de/ Founder: Wolfgang Kunz, Ecologic washing
- Similar companies with "Kopf schlägt Kapital": https://www.entrepreneurship.de/kopf-schlaegt-kapital/



What is a Good Pitch?

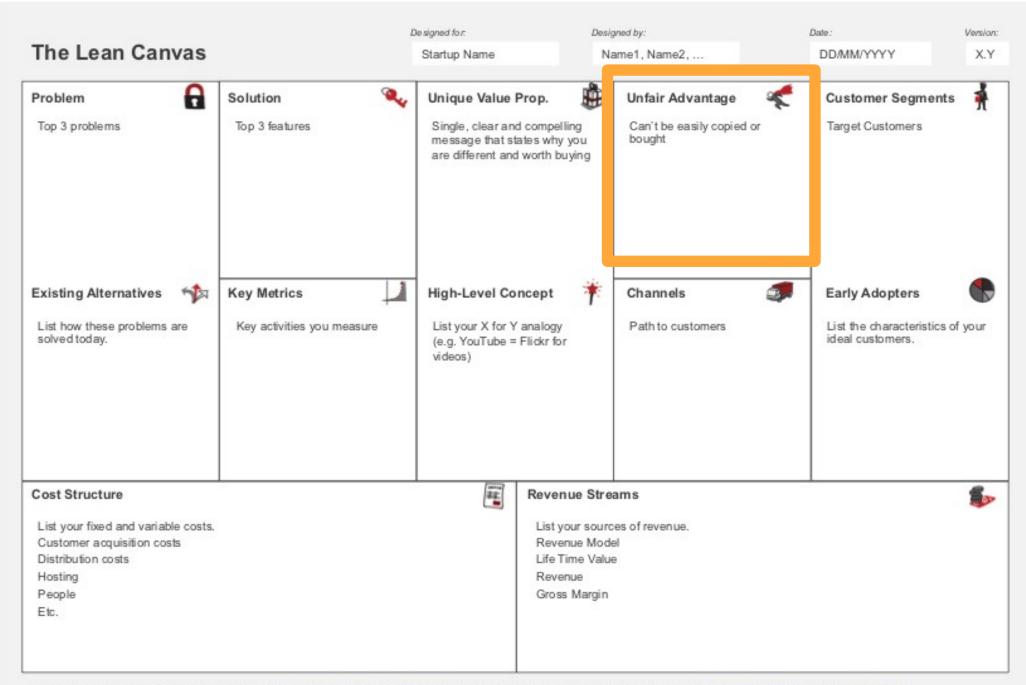
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14.1.2. The Dimensions of a Competitive Advantage



Lean Carwas is adapted from The Business Model Carvas (www.businessmodelgeneration.com/carvas). PowerPoint implementation by: Neos Chronos Limited (https://neoschronos.com). License: OC BY-SA 3.0

Dimensions

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In the BMC, the fields can be used to derive competitive dimensions:

- Customer orientation
- Cost
- Sustainability
- Value proposition
 - Need
 - Maslow
 - · Safety, Protection, Health
 - Gain
 - Beauty
 - Quality of service

- Copy-ability (fair or unfair advantage)
 - Intellectual property
 - Market positioning



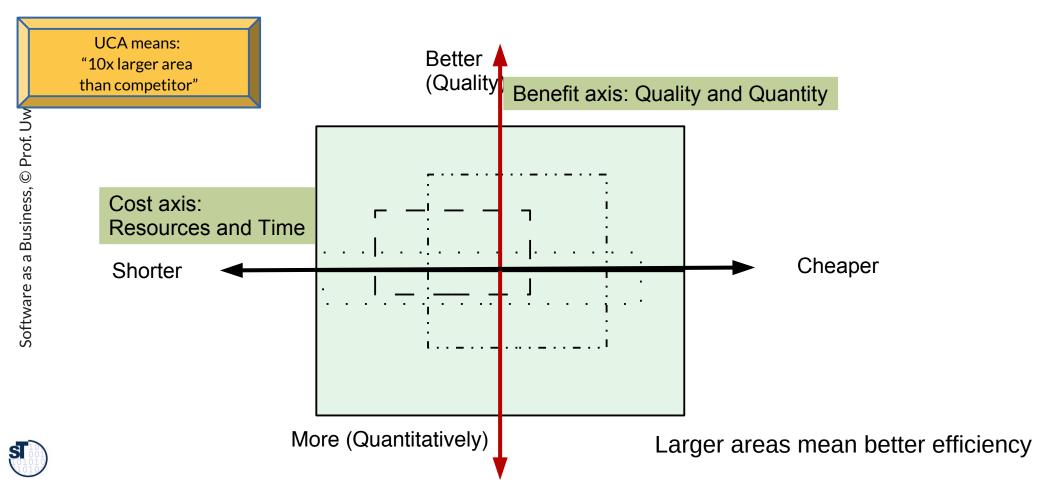


14.1.3. Combinations of Dimensions of a Competitive Advantage

4d analyses for measuring your competitive advantage

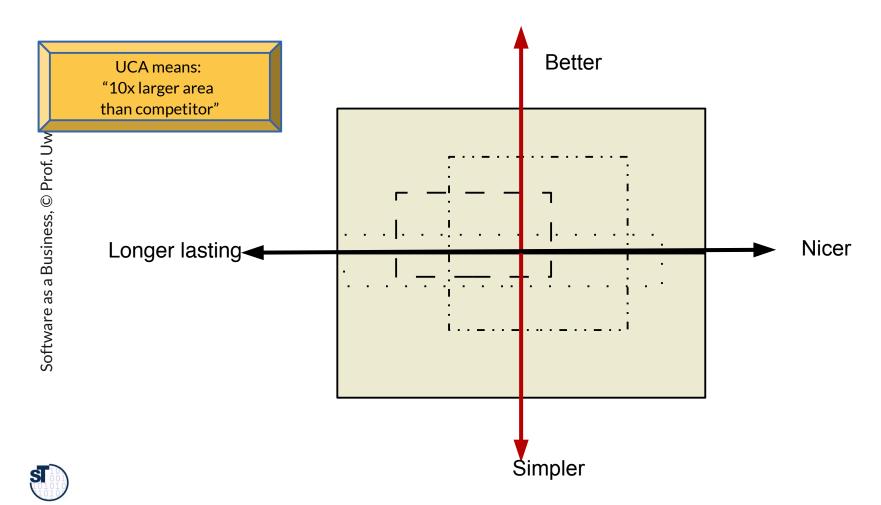
Comparative Cost-Benefit Analysis (CoTiQQ Efficiency 4-D Analysis)

- ► CoTIQQ (Cost, Time, Quantity, Quality) is a special 4-D analysis for one project with cost and benefit axis and a fixed area, several 4-D analyses can be derived, which can be used to compare different projects for efficiency.
 - Without fixed area, the CoTiQQ analysis for operational goals results
 - Teekampange has a CoTiQQ-UCA



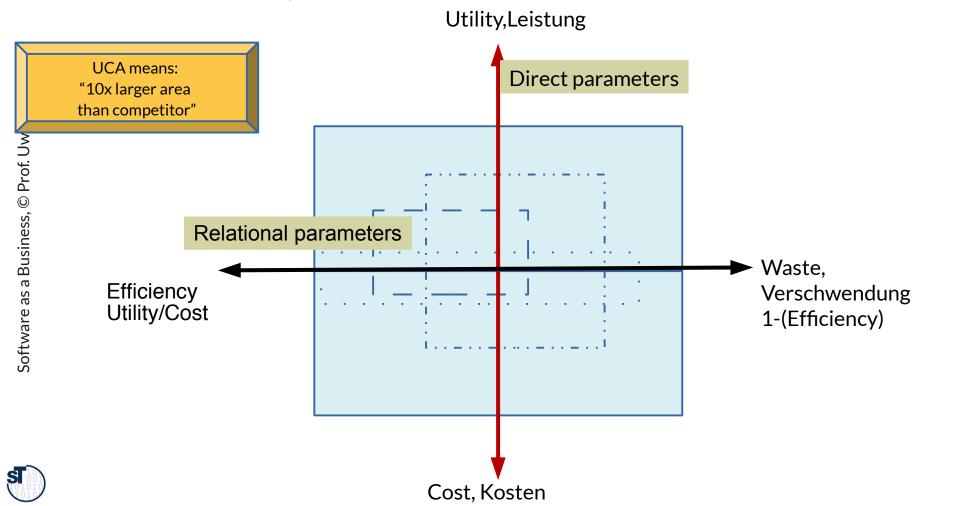
Comparative Utility Analysis with BeNiSiLo – Which Quality are we interested in?

- The utility of products, processes, projects is hard to measure, but contains at least 4 dimensions
- BeNiSiLo (Better, Nicer, Simpler, LongerLasting) compares several products in terms of their 4 basic qualites (utility analysis)



Efficiency Comparative Analysis UCEW

- UCEW is a 4-dimensional attribute analysis comparing the efficiency of several products, processes, services,
 - based on direct parameters (utility, cost) and indirect relations (efficiency, waste)



4 dimensions

 to be competitive at all Valuable at least indicates a temporary CA Rare market positioning Inimitable unfair CA maturity level of organization **Organized** • CMM

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14.2. Competitive Positioning Canvas

- For distinguishing rational from emotional factors
- Market positioning (unique, superior, indifferent)

COMPETITIVE POSITIONING CANVAS

Customer jobs-to-be-done Customers / Job(s) to be done		Rational decision factors		Emotional decision
		Pain Value Gain	Costs	factors
Needs and desires derived from customer jobs-to-be-done		Must have & nice to have traits Features Availability Uniqueness sophistication Offerings quality Configurability Support service	Price & cost of access Cheapest Value for money Competitive price Premium price Perceived free goodies Price & cost of access Cost of access Due diligence costs Reputation/Brand value	 Personalization Choice Uniqueness Popularity Fair price Reputation
Value proposition / Offering	Unique	 Capabilities Technologies Know-how and experience Access to natural resources Patents and intellectual property Features Novelty 	 Pricing model Bundling Distribution network 	 Perceived innovativeness Access to customers Distributors Perceived offering status Opinion leaders/influences
	Superior	 Quality of offering After-sales support Skills of labor Quality and quantity of natural resources Quantity of features 	 Price level Search costs to find offerings Due diligence costs 	 Reputation/Brand value User reviews Trust factors Offerings shelf size
	Indifferent	 Easily replicable traits Traits with a competitive disadvantage Functions required to get the job done but not explicitly valued by customers 	 Easily replicable traits Traits with a competitive disadvantage Functions required to get the job done without explicit customer price sensitivity 	 Easily replicable trains Traits with a competitive disadvantage Must have functional requirements without any emotional importance/relevance







Emotional vs. Rational Aspects

- https://www.innovate-d.com/insight-101/
- Emotional aspects play an important role for differenciation
- How do you increase the emotional aspect?
- CPC can be filled to support an NABC canvas (detailing the fields Benefit4Cost and Competition)
 - Use it for your MVV pitch!



Aha.io consultancy for startups

- Aha.io Tools
 - e.g., imitability ladder
- https://www.aha.io/pricing for startups, Aha consultancy is free





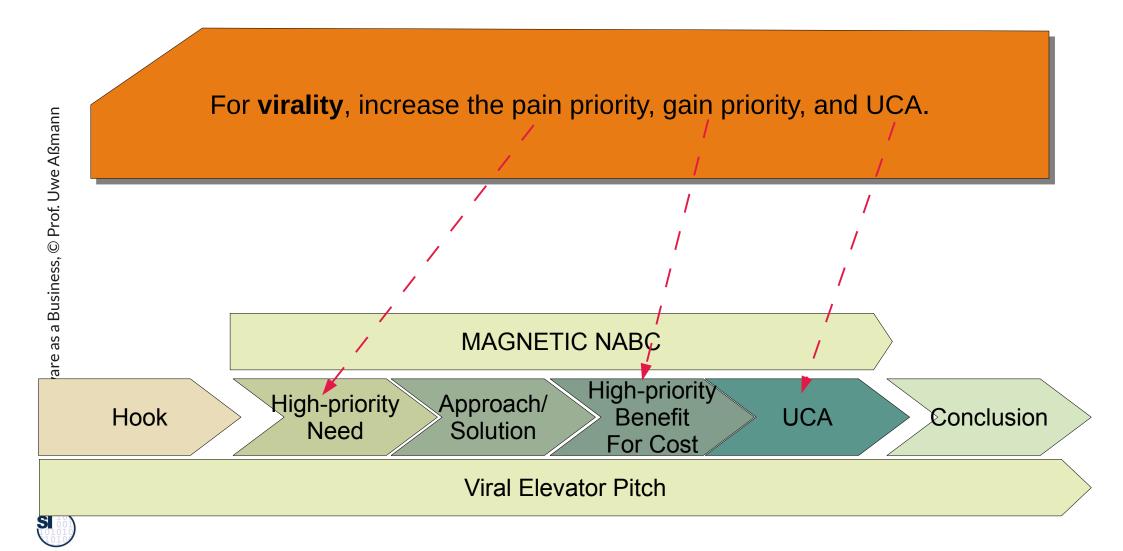
14.3. Stickiness and Virality of a Feature – The Influence of the Ultimate Competitive Advantage (UCA)

.. how to achieve that the news spreads itself (how to achieve mouth-to-mouth words)

Virality with magnetic-NABC

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A viral product/service is one about which news spreads easily, because people talk about it.



Pain-Gain-Stickiness as Pain/Gain Product

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A **sticky** product/service has high pain **and** gain priority. (green: infectious)

Software as a Business, © Prof. Uwe Aßmann Pain priority e-Cigarette E-call in Car Lipstick Navigator **iPad** iPod New tooth paste Gain priority

Pain-Gain-UCA-Virality

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Pain

priority

A *viral* product/service has high pain, high gain priority, and high (ultimate) competitive advantage. (visualized here with the size of green boxes)

e-Cigarette E-call in Car Lipstick Navigator iPad iPod New tooth paste Gain priority

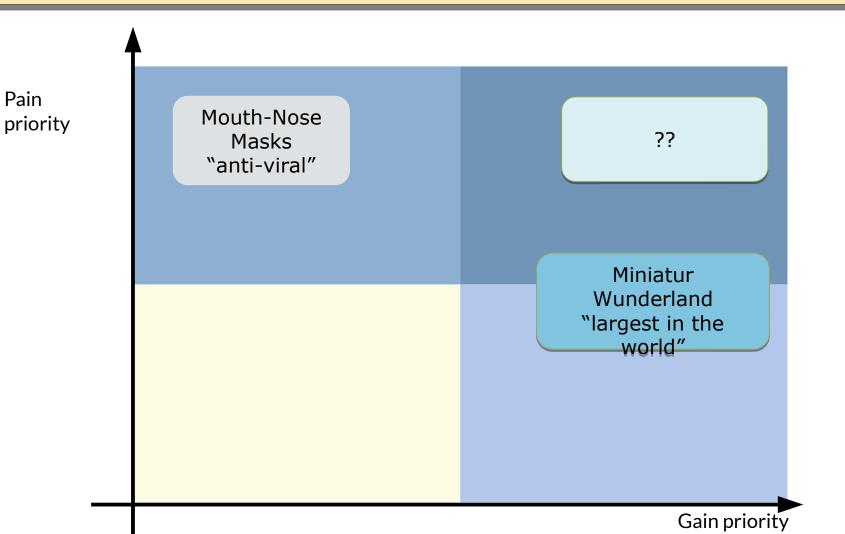
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Why is Miniatur Wunderland Viral?

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A *viral* product/service has high pain, high gain priority, and high (ultimate) competitive advantage.



The "Lean Analytics" Stages and Their Metrics

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The Lean Analytics Stages are a simple stage system for product/service productmarket fit.

[LeanAnalytics] contains metrics for every stage

Scale (the business)

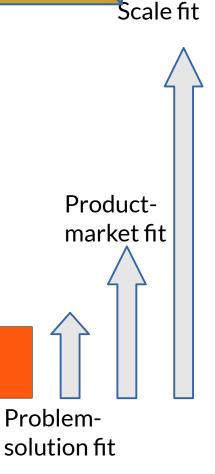
Revenue (Successful Sales)

Viraility (real pain, real gain, UCA)

Stickiness

(will the dogs eat dog food? Real pain, real gain)

Empathy (Tested Value Proposition)



UCA means:
"10x better
than competitor"

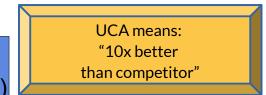


The Pirate Metrics AARRR for Web Site Visits

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- "Even pirates need metrics." (Dave McClure)
- Example: the story of Dropbox starting with a **smoke video** of a non-existing product
 - http://techcrunch.com/2011/10/19/dropbox-minimal-viable-product/

Referral (does a visitor recommend your website)



Revenue (does a visitor pay?)

Retention (stickiness) (does a one-time visitor return?)

Activation (which activities do they start on your website)

Acquisition (how do customers know from you?



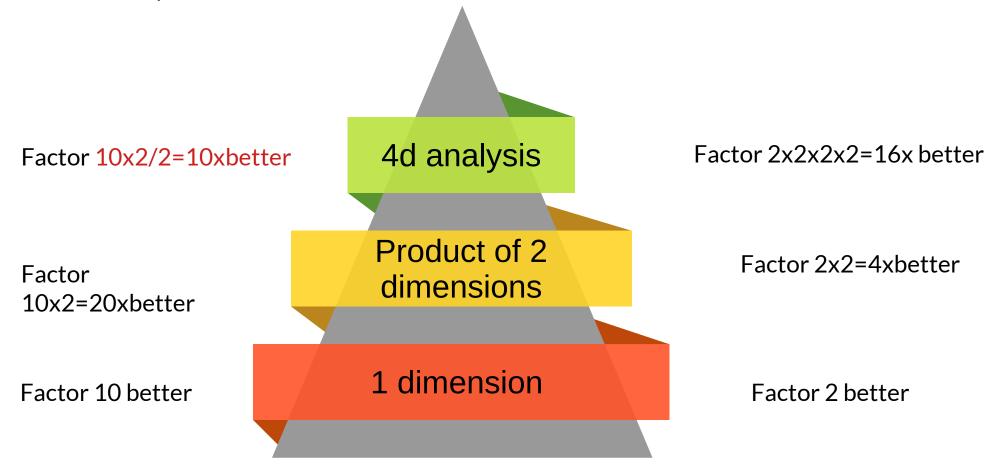


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13.4. Moonshots (Ultimate Competitive Advantage with Factor 10)

Moonshots: How to be 10x better

- Competitive dimensions do not add up, but multiply or divide
- Remember Teekampagne: UCA from (cost x quality)
- If you have a high CA in one dimension, you can allow to be doubly as expensive (division by 2)





The End

- Explain the influence of the UCA for virality.
- Why is the pirate metrics important for building good value propositions?
- How can you cross the border between Virality and Revenue in the LeanAnalytics stages?
- What is virality? What is UCA?
- How to you plan a moonshot business model? Is it possible to plan a moonshot systematically?
- Test your favorite business idea on pain priority, gain priority, UCA, stickiness and virality.

