

# Keio University Global Innovator Acceleration Program 2014 COURSE WORK Day 3

Graduate School of System Design and Management EDGE Program Team

2014 Keio EDGE

## Introduction

## Instructor: Hiroshi Hashiguchi

- Tuck School of business at Dartmouth College
  - MBA, general management
- Mercedes-Benz Japan
  - In-house management consultant for dealers' turnaround
- Accenture
  - Management consulting for large companies in strategy group
- Management consulting startup, representaive
  - Support for large companies' new business development
  - Support for venture businesses, PE's and VC's
- NARUMI corporation, director
  - Hands-on turnaround manager
  - Director both for current business operation and new business development
- Euphoria co.,ltd, CEO
  - Management consulting
  - IT systems for sports management/healthcare

## **OSORO**

**Before** 

**OSORO** 

Decorative and high quality

OR

Functional and low quality

High quality

**AND** 

**Functional** 

**Tableware** 

OR

Storage container

**Tableware** 

**AND** 

Storage container

Chinaware

OR

Silicone ware



Chinaware

AND

Silicone ware

## **Before**

Functional and low quality





#### Decorative and high quality

OR



## **OSORO**



## Design Awards OSORO has received







reddot design award best of the best 2013







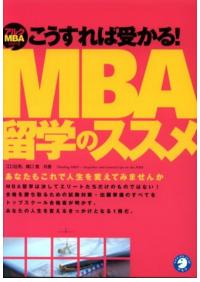




## **Books**









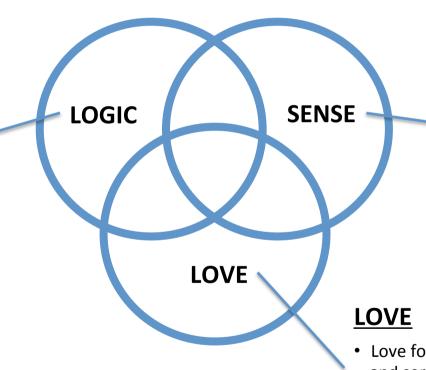


# 3 factors of design: LOGIC/SENSE/LOVE

We introduced three essential factors of design:

#### **LOGIC**

- Logical thinking and communication
- Logical estimation of profitability
- Logical investment decisions



#### **SENSE**

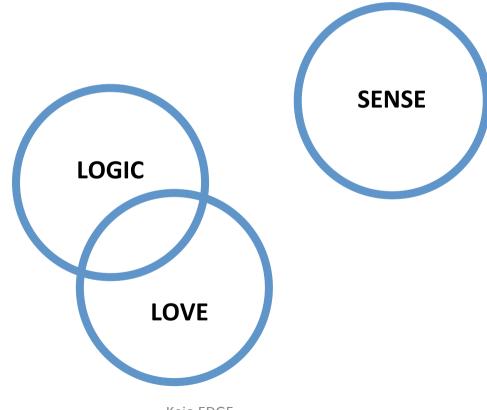
- Strong empathy for customers' unmet needs, pains and gains
- Sense for integrating what he/ she experienced into insights
- Sense of story telling

- Love for customers, products and services
- Strong belief on what he/she is doing

<sup>&</sup>quot;Design Management" by Manabu Tago, Hiroko Tago, and Hiroshi Hashiguchi

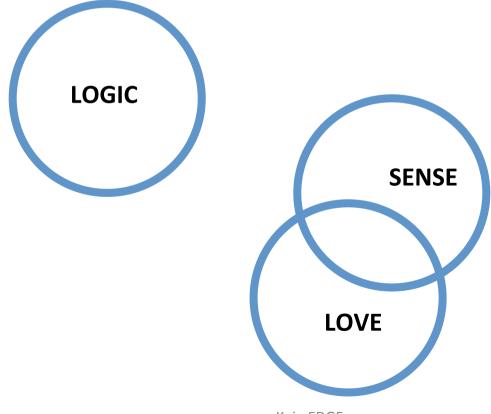
# **Typical Problem #1**

- Less SENSE
- Highly seeds-driven, but few empathy for customers



# **Typical Problem #2**

- Less Logic
- Good looking, artistic, high quality, but not sustainable in terms of profitability

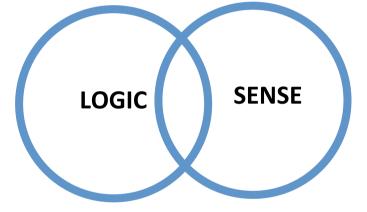


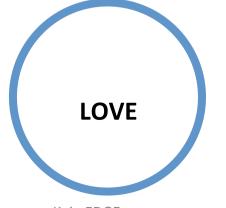
## **Typical Problem #3**

Less LOVE

Starting business only because it looks hot and

profitable.





#### For a minimum and maximu

#### LOGIC

What is there to be done now recarding tables.

Of course, it can make your table colorful. Through food, it is our desire to make tills a richer one for many people. Wouldn't it be wonderful, if by using this clishware, your load life could be made healthier, unconsciously wasting less and it being environmentally triendly. That is exactly what OSORO is aiming for, exactly that kind of lifestyle. If everyone could be amart, and could cherish the time spent with your loved ones, and could awaken to the importance to the earth's environment—. Being compact as a minimum tool, we can maximize your happy life. Begin to experience a certain consciousness with OSORO.

#### ミニマムにして、マキシマム。

いま、「うつわ」にできること。 OSORD はこの問いかけから生まれました。

テーブルを明るく彩るのはもちろんのこと。あらゆる人へ、食を適して豊かな暮らしを履けていく――それが、私たち NARUMI の使命です。 そのうつわを使うことで、食生活が健康的になり、時間のムゲがなくなり、地球環境にも配慮できたなら、どんなに幸せなことでしょう。 OSORO がめざすのは、まさにそんな暮らしのありかた。誰もがもっとスマートに、愛する人との時間を大切にし、社会貢献に目覚めていく――。 必要最低限のコンパクトなフールで、最大限に幸せな暮らしを針えていく。OSORO からはじまるさまざまな"気づき"が、ここにあります。

















#### 省スペース

OSORO のデザインの特徴は、なんと いっても驚異的なスタッキング級力。 食器機いっぱいのうつわを OSORO に 換えれば、なんと 3 分の 2 もの変まス ベースが。料理のジャンルを選ばない スタイリングで、和洋中の食器選びの お覧るも、もう必要ありません。

#### 節水

OSORO なら、食材の保存や顕確、語り 付けらこれひとつで OK。野菜をゆで るために大量の水を使う必要もなく、 洗いものが驚くほど少なくなります。 食器洗浄機を使えば、さらに膨水。食 帯汚れの落めやすい新素材の採用で、 質異的な膨水効果を発揮します。

#### CO<sub>2</sub> 削減

ご存じでしたか?電子レンジでの調理はガスに比べ、大幅に COs の排出量を減らします。その削減率は、根率では50%、業野菜や果菜はじつに 65%! さらに、0SORO のシリコンアイテムを使えばラップも不要。ゴミを増やさず、地球環境に貢献できます。

#### 時短

これひとつで、食に関わるあらゆる シーンに温度する OSORO。 手間や洗 いものを減らすなど、各シーンの時間 知識から、ゆとりの時間が生まれます。 忙しい現代人の無代もした、のから健康 までサポートするパートナーになりた い。OSORO からの願いです。

#### Economizing space

The characteristic of OSORO's design is in its overwhelming stacking capability. With OSORO, even for a cupband full of dishware, it will give you an extra 2/3 of space. Sigled so it does not limit the genre of food you serve, you don't have to keep acquiring different types of dishes such as Japanese, Western or Chinese.

#### Conserving water

With GSDRO, you maily only need one of these types for stocking, cooking and serving food. There is no need to use large volumes of water to boil vegetables or only require surprisingly amail volumes for washing up. If you use a distinusher, you can conserve even more. By adopting a new material so the food remains do not stick, it shows surprising

#### Cutting down on CO2

Did you know that you could cut down drastically on CD: emission when cooking with a microseve than with gas? You can cut back SDL with root wegetables and a surprising 45% with leaf and fruit vegetables! Moreover, by using DSDRO's allicane item, there is no need for plastic wrap. Having less trash to deal with, you could help save the gree emicronned.

#### Saving time

With only one of these, OSORIO can help in all food acenes. By cutting down on procedures and weathing up, you can save time in each acens, which allows you more time to spare for yourself. OSORIO can be the period partner for busy confemporaries, supporting their health in the mind and body. This is our wish.



#### 「食卓をめぐる"不合理な真実"」

たくさんの"便利"に支えられた、私たちの食生活。 しかしそこには、自分でも気づいていない余計な手間やデメリット、 経済や環境にとっても多くのムダが、まだまだたくさん残されているのです! 名付けて「あなたの知らない"不合理な真実"」。直撃収材でお届けします!



取材班「こんにちは! 暮らしにひそむ魔外なムダ を徹底追求、毎日の家事をもっとスッキリさせよう! というこの企画。今日は、東京都にお住まいの不知火 真実(しらぬい・まみ)さんのお宅にお邪魔しました!:

不知火「よろしくお願いします。私なりに暮らしのム ダをはぶきながら、社会や環境に貢献したいと 思ってます。少しは気を使っているほうだと思うんで

取材班「たとえば?」

不知火「毎朝、子どもや夫にお弁当を作るとき、お肉 に下味を付けて冷凍しておいて、すぐ料理できるよう にしておけば、手早く簡単だし、まな板や包丁など、 洗いものも少なくて清む……とか?」

取材班「それで冷凍庫にお肉がこんなに! すごい 量のタッパーですね!」

不知火「ええ。何かと使い回しが効くので。棚の中 にもほら、いつも整理を心がけています」

取材班「これはすごい! でもこんなに積み上げちゃっ て、下のほうとか取り出しにくくないですか? あしシ リコンスチーマーとか、レンジ用の調理器具や便利 グッズがたくさんホコリをかぶってる。これ、ほとん ど使っていないでしょう?」

不知火「でも、ふと思い出して使いたくなるかもしれ ないじゃないですか! お皿もそうだけど、調理器具を 集めるのが好きなんです!」

取材班「わ。見てください、この<mark>フライパンや</mark>鋼 の数! プロ顔負けのコレクションですね!」

不知火「それほどでもないけど (頭)。でも、冷凍し た食材を電子レンジで解凍して、フライパンや鍋で調 理しながら、もう1品作りたい……って思うと、道具っ ていくつあっても足りないな、って思いません?」

取材班「食器棚も満杯だ! すごく積み上がってる けど、この大きいのとか、ちゃんと使いこなしてます

不知火「それはホームパーティ用に……もう何年もやっ てないけど。あと、私は洋食が好きなのに、夫が和食 好きで、洋食器と和食器ってうまく積み重ねられない じゃないですか。だから食器棚がもう満杯で、こうやっ て"見せ収納"してます」

取材班「ほんとだ! まるで "うつわタワー" (策)。 でもこれだけお皿があると、洗いものもたいへんで は?あ、食器洗浄機が物置きと化してる!」

不知火「あっ(集)。食洗機の方が節水になるの は知ってるけど、お皿が多すぎで……。 でも、まとめ て自分で洗ったほうがいいかな?って。ダメですか?」

取材班「わお。冷蔵庫の中もいっぱいだ! これは…… 昨日の残りのおかずですよね。このボリュームは、あ と3日ぶんはあるのでは!?」

不知火「ついつい、多く作り過ぎちゃうんです……。 それで、今度は冷蔵庫がいっぱいになっちゃって」

取材班「しかも、せっかくの盛り付けがラップでベシャ ンコ。それをチンしてまた夕食に?」

不知火「夫はいつも残業で遅く帰ってくるので、いつ もそうです。食べながらよく「わびしい……」っ

てつぶやいてるけど、しょうがないし (汗)」

取材班「タッパーがあれだけあるんだから、移してお けばいいじゃないですか。 ラップを使い捨てる のも、環境にはよくないですよね?」

不知火「だって移し替えるのが面倒だし、洗いものだっ て増えるし…。子育てや家事でじゅうぶんだしいので、 これ以上、手間をかけたくないんです!でも、 子どもの未来のことを考えると、何かしなくちゃっ て思う。って、わがままですよね (泣)」

取材施「いえいえ、よくわかりますよ! だからこそ、こ うやって毎日の生活を振り返って、知られざる "不 合理な真実"に気づくことが大切なんです。ではど うしたらいいか? それを一緒に考えていきましょう!」

(※このルボ企画はフィクションですが、 みなさんの実生温へと続きます)



#### The "Inconvenient Truth" around the dinner table

Our food life is supported by many "conveniences"

Yet there are many unnecessary procedures, demerits and ineffectiveness to the economy and environment that you do not realize! So here, is an interview to give you an idea of the "inconvenient truth" you might not know of!

Interviewer: "Hill We're here to investigate the unexpected ineffectiveness hidden in your lives and to clear the way in performing daily chores. Today, we are visiting the home of Mami Shiranui who resides in Tokyo!

Ms. Shiranui, "Hi. I believe I try to live my life without being too ineffective, while supporting society and the environment. I think I'm pretty conscious about it.....

Interviewer, How would that be?

Ms. Shiranui: Well, every morning, when I make box lunches for my kids and husband, I marinate the meat and freeze it so it can be cooked right away. It can be quick and easy, and I don't have to clean the chopping board and kitchen knife

Interviewer, So that's why you have so much meat in the freezer. Wow, there are so many food containers!

Ms. Shiranui, Yes, it can be quite useful. Look here on the shelf. I try to be organized.

Interviewer: Wow, that's great! But you have it stacked up so much. Isn't it hard to get something at the bottom? Oh, a silicone steamer, microwave cooker, and many

convenient tools that are collecting dust. You hardly ever use them, right?

Ms. Shiranui: Well, I might just decide to use it one day! Not just plates, but I like collecting kitchen tools!

Interview: Oh. look here. You have so many frying pans and pots! You're collection's like a professional cook!

Ms. Shiranui: Well, not that much (she's being humble) But defrosting the frozen food in the microwave, and cooking it in a frying pan or a pot, and I decide to make one more dish..... then it's never enough pans, don't you

Interviewer, Your cuphoard is full tool It's stacked up so high. Do you ever use this big one?

Ms. Shiranui, Well, in case we have a dinner party..... Although we haven't had one years. Also, I personally like Western food, but my husband likes Jananese, but it's hard to stack plates for western dishes and Japanese dishes together. So my cupboard is so full, that I decided to show my ware like this.

Interviewer, Oh my, it's like a tableware tower (surprised). But with all these plates, isn't it hard to wash? Your dishwasher has turned into a storage tool

Ms. Shiranui: Um, I know that you can conserve more water with a dishwasher, but I just have too many plates..... So I thought it might be better if I just wash it myself. Is this harf?

Interviewer: Wow, your refrigerator is full too! This one.....is yesterday's leftover, right? From what it looks like, it seems you're going to last at least 3 more days.

Ms. Shiranui: I tend to overdo the portion..... so I end up with a full refrigerator.

Interviewer, And your food is flat from the plastic wrap. Are you going to microwave it for dinner?

Ms. Shiranui: My husband is always late from work, so yes, that is what I normally do. He mumbles often that it doesn't look so tasty, but then what can I do (slightly

Interviewer, You have so many food containers that maybe you can store. Using plastic wrap excessively is not good for the environment, is it not?

Ms. Shiranui. Well, it's a hassle transferring it to different container, and you end up with more things to wash..... It's busy enough taking care of the baby and doing the housework, so I'd rather it didn't take too much of my time! But I do feel something needs to be done, especially when I think about the future of my children. Do I sound egotistic (she laughs)?

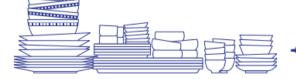
Interviewer: Oh, no, I understand! That's why it's important to glance back at your daily life like this to see the "Inconvenient Truth". Now, what can we do? Why don't we think about this together!

(\* Although the interview is fictitious, it is based on real life experiences)







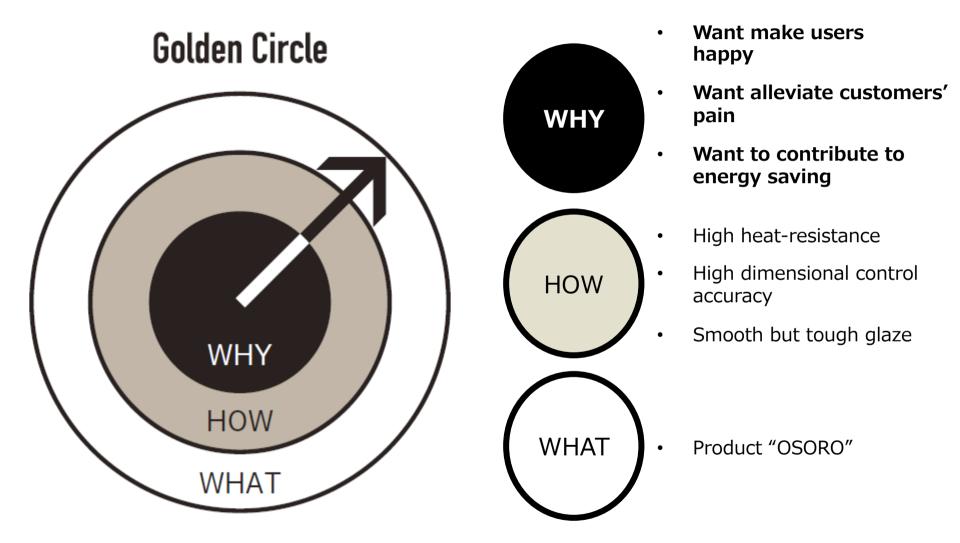




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# "Why?" of OSORO



Simon Sinek, Illustrated by MTDO

## **Contents**

- Entrepreneurship
- Business Model / Value Proposition
- Marketing / Growth
- ☐ Unit Economics /Managerial Accounting / Finance

# Entrepreneurship

## **Hyper Uncertainty**

- Entrepreneurs implement business under hyper uncertain environment.
  - love uncertainty
- Super high volatility is a great "chance" for entrepreneurs.
  - established players don't like it
- Decent plan doesn't have any value in many cases.
  - everything changes so quickly

## Act against Inertia

- Entrepreneurs act against inertia
  - widely accepted rules in an industry
  - common business practice among existing players
- Don't follow what majority of people say
  - you will change rules of the game

# Sense of ownership and Sense of urgency

- Entrepreneurs must have two senses:
  - Sense of ownership
  - Sense of urgency
- Put your hands on your business.
  - no one would take responsibility. YOU do.
  - no one would give a direction to you. YOU do.
- Take urgent action in anytime.
  - quickness/speed is the most powerful weapon for startups
  - "常在戦場"

## Get things done

- Entrepreneurs must have "get things done" mentality
  - no implementation, no value
  - last one mile

- No one would get things done for you
  - do delegation, but don't put your hands off

## **Invest on Future**

- Starting business is investing many resources on uncertain future:
  - time
  - money
  - effort
  - networks
- Investment is an exchange of two things:
  - Certain \_\_\_\_\_ at present
  - Uncertain in future

# Life of an entrepreneur is...

- risky and uncertain
- chaotic and unstructured
- troublesome and restless
- Insecure and unstable

but....

Totally exciting and fun!!

## Welcome aboard folks!!

# **Business Model / Value Proposition**

## What is Business Model?

- "A business model describes the rationale of how an organization creates, delivers, and captures value."
  - Alex Osterwalder et al "Business Model Generation"

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## **Business Model Patterns**

- There are major business model patterns.
  - multi-sided platforms
  - the long tail
  - free / bait & hook
  - no frills
- Knowing existing business model patterns helps you.
  - a source of inspiration for your own work with business models

# Multi-sided platforms

- Offers different solutions to different platforms
- Creates customer value to one group only if the other also presents.









# The long tail

- Focusing on <u>large</u>
   <u>number of niche</u>
   <u>products</u>
- Internet made it possible
  - virtually no limitation of stock shelf and showcase





# Bait & Hook (餌と釣り針)

- Offers a basic product or service at a very low price (the bait), and then taking profit from refills or associated products or services (the hook).
- Bait (photocopy machine)& hook (toner cartridge)
- Bait (T-shaped shaver) & hook (razor blade)





## Freemium

- A derivative of "bait & hook"
- Free + premium
- Give away a core product for free and then generate revenue by selling premium products







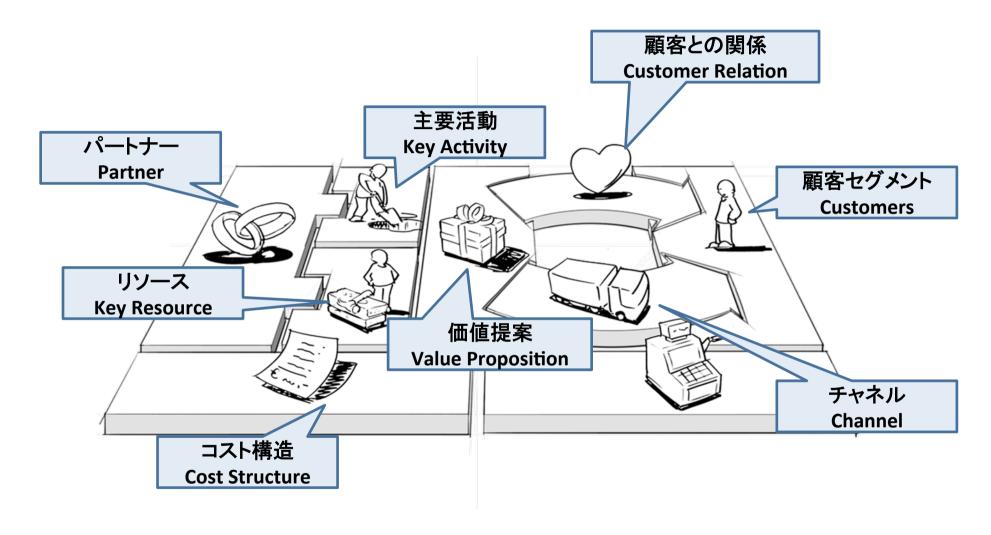
## No frills

- Remove non-essential feature to reduce costs
- Operational excellence is needed to make it possible
  - 15 minutes turn of SWA
  - 10 minutes cut of QB house





## **Business Model Canvas**



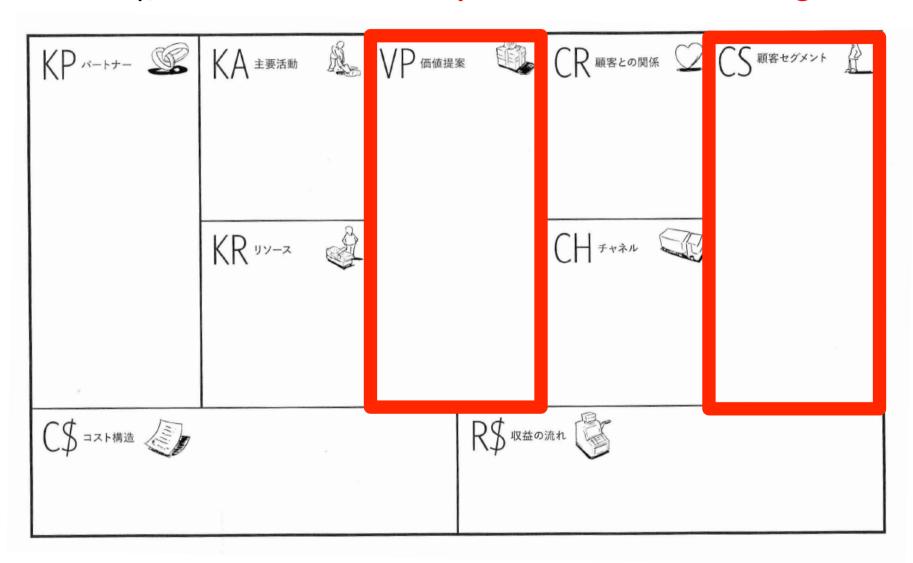
## **Business Model Canvas**

 Business Model Canvas is a communication tool for describing, visualizing, assessing, and improving business models.

- It doesn't create any business model by itself, it's a communication tool
  - easy to collaborate
  - easy to look

## **Business Model Canvas**

Today, we focus on Value Proposition and Customer Segments



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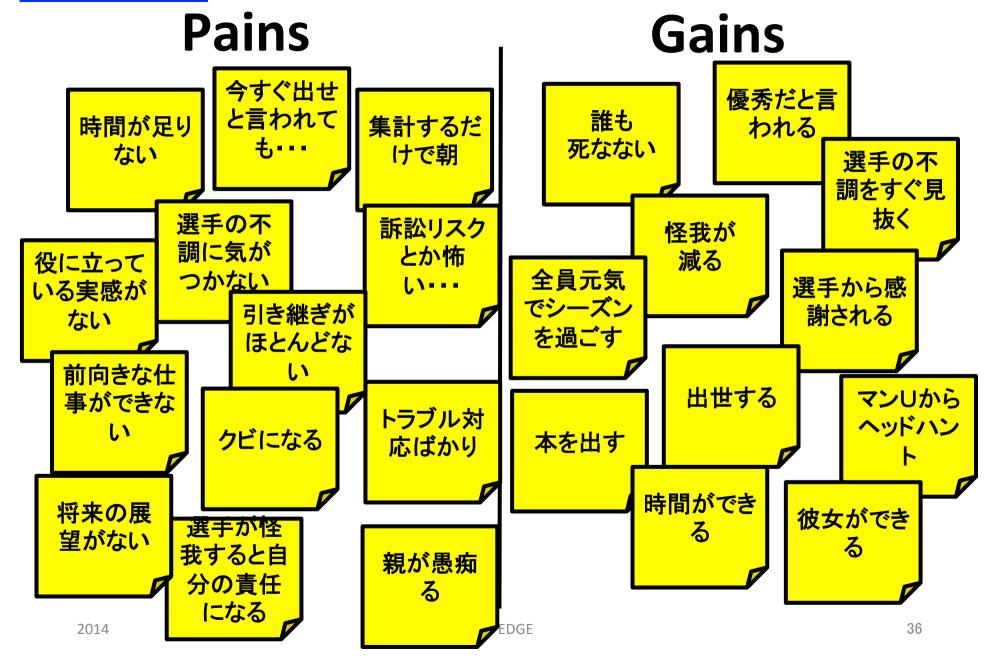


## **Customer Profile**

- Select a customer segment you want to profile
- Step into your customers' shoes
- Identify customer pains
  - what pains do your customers have?
  - annoying things, problems, obstacles, risks...
- Identify customer gains
  - what do your customers want to achieve?
  - outcomes, benefits, savings...

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# Sample



# **Customer profile**

 If you would have multiple customer segments, focus on a segment at one time.

- Step into the customers' shoes.
  - feel their pains and gains
  - feel their unmet needs
  - feel an empathy for them

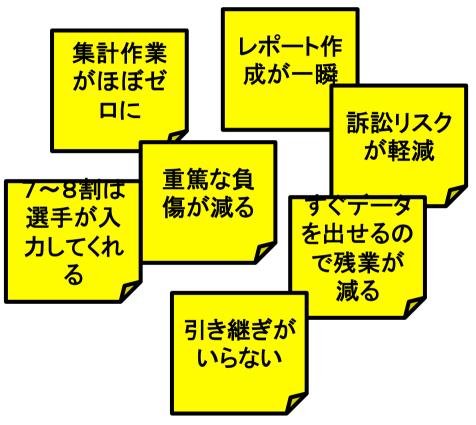


# **Value Propositions**

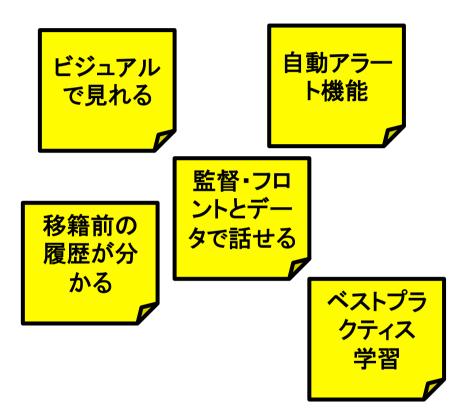
- Outline "pain relievers" your products and services will alleviate customer pains
  - Don't need to alleviate every single pain
- Outline "gain creators" your products and services will provide
  - Don't need to address every single gain
- Describe Value Propositions of your products and services
  - What value do you deliver to the customers?

# Sample

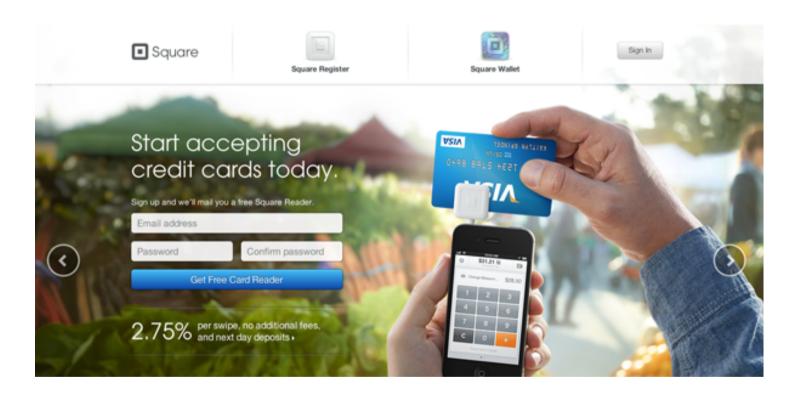
# Pain relievers



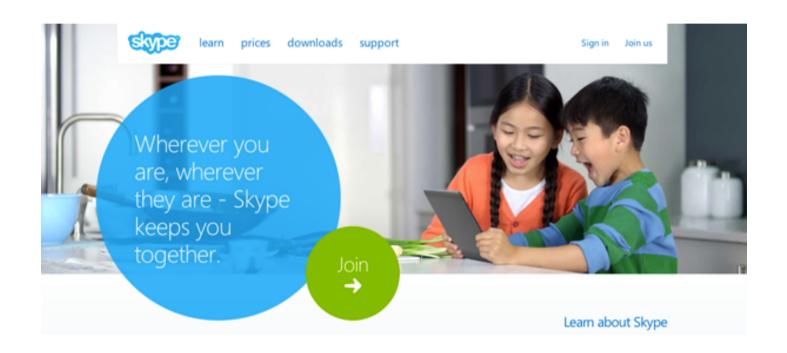
## **Gain creators**



# **Square's Value Proposition**



# **Skype's Value Proposition**



# **Evernote's Value Proposition**



# **Value Propositions**

- After describing your value propositions, ask simple questions to yourself:
  - Is it unique?
  - Is it easy to understand?
  - Is it difficult to copy?
- Even if a similar business model had already existed, don't be disappointed too much.
  - Can't you differentiate your model?
  - Can't you outperform rivals?
- Your pain relievers / gain creators do not need to solve all the pains and gains of customers.
  - Focus on extreme pains and essential gains

## **BMC** = Business Plan?

- Do not use Business Model Canvas as a format of official business plan.
- It is an internal tool for discussion and creation.
- Use a business plan format for external communication, including a pitch to VCs

# an example of business plan structure

#### **Executive Summary**

#### The Team

#### **Mission Statement**

#### The Business Model

#### **External Environment**

#### **Implementation Roadmap**

#### **Financial Analysis**

#### **Risk Analysis**

- ✓ Executive Summary
- ✓ Management profile
- ✓ Vision, Mission and Values
- ✓ How Our Business Model Works
- ✓ Value Propositions
- ✓ Target Markets
- ✓ Key Resources and Activities
- ✓ The Economy
- ✓ Market Analysis and Key Trends
- ✓ Competitor Analysis
- ✓ Competitive Advantages of Our Business Model
- ✓ Milestones
- ✓ Roadmap
- ✓ Breakeven Analysis
- ✓ Sales Scenarios and Projections
- ✓ Capital Spending
- ✓ Operating Costs
- ✓ Funding Requirements
- ✓ Limiting Factors and Obstacles
- ✓ Critical Success Factors
- ✓ Specific Risks and Countermeasures

# Marketing / Growth

# Marketing?

## There are a lot of definitions of marketing

"Marketing is the process of planning and executing the conception, pricing, promotion, and distribution of ideas, goods and services to create exchanges that satisfy individual and organizational goals."

(AMA: American Marketing Association)

"The art and science of applying core marketing concepts to choose target markets and get, keep, and grow customers through creating, delivering, and communicating superior customer value" (Philp Kotler and Kevin Keller)

"The aim of marketing it to make selling superfluous." (Peter Drucker)

# Marketing?

- Marketing is not about making decent plans
- Marketing is not about making hype or buzz
- Marketing (Market + ing) is comprehensive activities to make the business growth

- In order to spread your innovative idea, you have to make the business growth
- Innovative idea + Growth = Innovation

# Where is your market?

- Typical questions from stakeholders:
  - "Where is your (primary/secondary) market?"
  - "How big is your market?"
  - "Is your business scalable?"

- You cannot target at all over the world from the beginning (because you are a small startup)
  - Define your primary market first
  - Get monopoly on the market and spread it to others

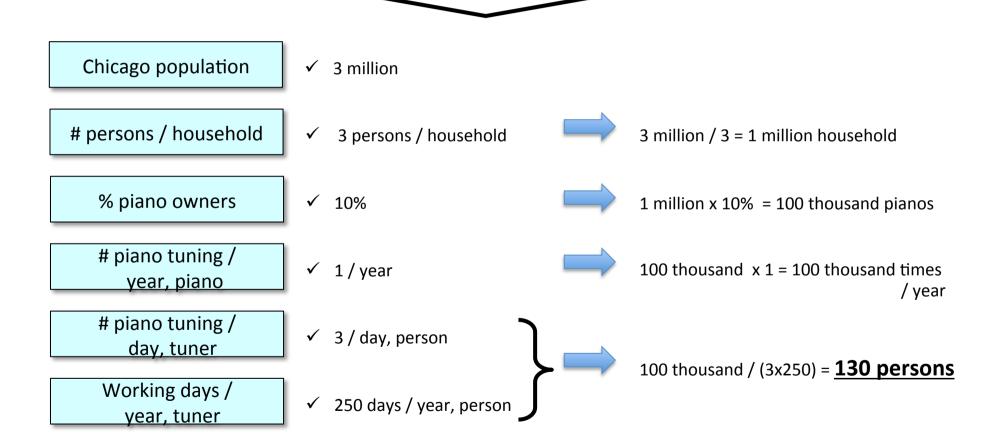


# **Market Sizing**

- Estimate the market size you are primary targeting at.
  - Accurate estimation is impossible.
  - Use "Fermi estimate" as your best effort.
- Moneywise sizing is preferable, but populationwise sizing is ok too.
- Jot down your estimation process including all the hypothetical numbers so that you can update them later on.
- Once you finished market sizing for primary market, do it for secondary market.
  - Don't target at all over the world.
  - Be realistic.

# Sample of Fermi estimate

## Q: How many piano tuners in Chicago?



# **Knowing your market**

- You should know your market well.
  - size
  - trend
  - customer profile
  - other players
- You should know:
  - how competition in your market is fierce
  - how market environment is attractive for your business
- So many people focus only on their own resources (strength and weakness), but ignore other players.

# Competitiveness

- Do not get into hyper competitive market
  - avoid a war of attrition
- Differentiate yourself from others
  - build unique and innovative value proposition
  - change the rule of the game

# **Blue Ocean Strategy**

 Blue Ocean Strategy is about changing the industry's rule of game

or

Keio FDGF

Differentiate yourself from existing players

## **Red Ocean?**

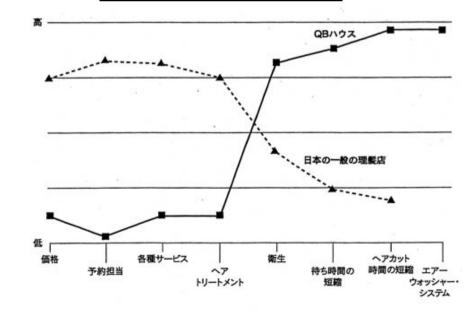
# players : approx. 130,000

Market size: 700 bil. JPY

• Trend: shrinking longtime

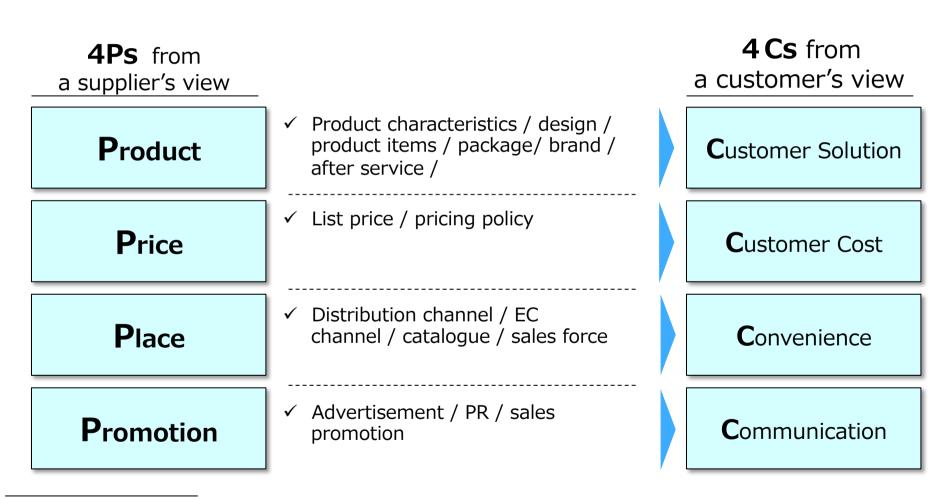
(market of existing barbers)

## **Blue Ocean?**



# **Marketing Framework: 4Ps**

4Ps is the most famous framework of marketing.



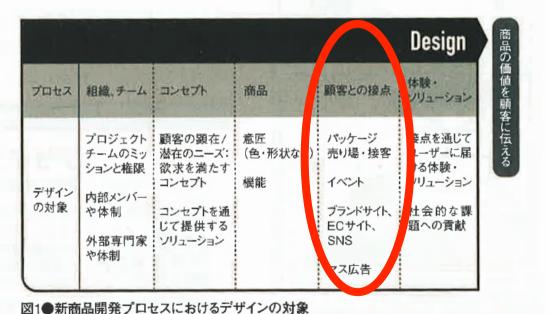
Philip Kotler and Kevin Keller

## 4Ps

- 4Ps is a classic framework for designing your marketing mix.
- It is not merely for planning but for implementation.
- Four factors are closely related each other.
  - If pricing would be changed, others would be changed.
  - If channel would be changed, others would be changed.

# Consistency in every touch point

- We should deliver consistent messages via consistent tone and manners to customers.
- An inconsistent experience at a single touch point makes customers disappointed.
- That is why we need to share "why" among all the teams.



出所: 「日経ものづくり」2014年12月号 Illustrated by MTDO

図1●新商品開発フロセスにおけるアサインの対象 商品だけではなく、組織・チーム、コンセプト、顧客との接点、顧客の体験・ソリューションなど、デザインの対象は広範に及ぶ。

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## 【参考】日経ものづくり2014年12月 P114~P117



Whv? EO™€中京社 SELECTION

一気通貫のものづくりを実現する

第2回 橋口 賞●ユーフォリア代表取締役

#### 商品の価値を顧客に確実に伝えるために

デザインマネジメントに取り組む 上で、前提になるのは、「自分たちの 現状と、それがこれからどう変化し ようとしているのか」という現実を認 識することだ。皆さんが携わってい る事業はどんな状態だろうか。既存 事業の成長は鈍化し、あるいは市場 の縮小が続いて、その中で競争はま すます激化しているという環境にい る人も多いのではないか。コスト削 減や性能向上という今までの取り組 みだけでは現状を打破できない、新 しいアプローチが必要だと感じてい る人も多いはずだ。

#### デザイン視点でのアプローチ

デザインマネジメントは、こうした 状況において特に効果的である。こ れまでのやり方の改善ではなく、新 しいやり方を生み出すための手法だ からだ。「今までのやり方を、よりうま くやる」ことで現状を打破できない のであれば、「やり方そのものを変え る しかない。そのときにデザインマ ネジメントが役立つ。

デザインにそんな力があるのだろ うか? 皆さんは疑問に思うかもしれ ない。実は私もそうだった。私は技 術者ではなく、大学院では経営学を

専攻した。デザインとな じみが薄い点では皆さ んの多くと同じだと思う。 メルセデス・ベンツ日

本やアクセンチュアの戦 略グループで仕事をし

た後、鳴海製陶(本社名古屋市)の 取締役を務めていた時に、私は約 20人のデザインチームを所管するこ とになった。その時の率直な感想は 「困ったことになった」というもの。「デ ザインの勉強をしたこともないのに、 デザイン担当役員が務まるのだろう かしと思った。

この感想そのものが、デザインを 極めて狭義の範囲でしか捉えてい ないことの証左である。「デザインと は色と形を決めること」だという考 えに捉われ、美術的なバックグラウ ンドがない自分には担当するのは離 しいと考えていた。しかし、デザイン マネジメントという手法を知ってから 大きく変わった。意匠デザイナーで なくともデザインマネジメントを実施 できるのだ。デザインとものづくり、 もっと言えば経営はほぼ全ての領域 にわたって分かちがたく重なり合っ ている。ぜひ、技術者もデザインマネ ジメントの指揮を執ってもらいたい

#### デザインマネジメントとは何か

デザインの視点を根幹に据えた経営手法のこと。デザイン の対象になるのは意匠だけではなく、商品のコンセプトやビ ジョン、それを実現するための設計/技術、広告宣伝、さらに はプロジェクトの進め方やユーザー体験など広範に及ぶ。

> と思う。以下、デザインマネジメント の具体的なプロセスを紹介したい。

#### 組織・チームをデザイン

デザインマネジメントのカバー範 囲は極めて広い。

図1に、新商品開発のプロセスに おけるデザインの対象を示した。こ こでは便宜上、左から右への一方向 の流れとして描いているが、実際の プロジェクトでは何度もコンセプトの デザインをやり直したり、組織・チー ムのデザインに立ち戻ったりする必 要がある。大切なことは、デザインの 対象となる領域が、意匠デザインに とどまらず、その前後に大きく広がっ ていることを頭に入れることだ。

最初にデザインの対象になるのは 組織・チームである。組織・チーム のミッションの設定や人選、付与す る権限に加え、どれくらいの時間軸 でミッションの達成を求めるかなど がデザインすべき内容である。わざ

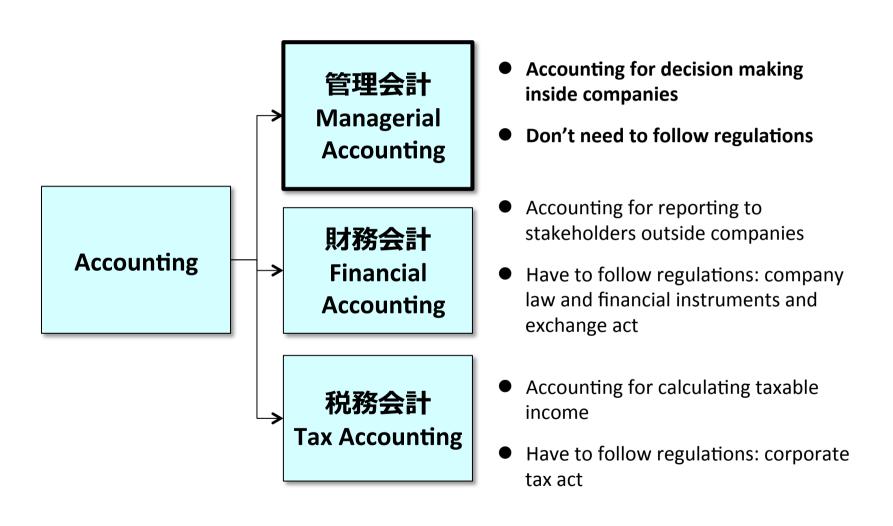
本コラムは、本誌が主催するセミナー「ものづくり塾」から鮮灌した実務情報を提供します。誌面に加えて著者から直接学べるセミナー情報も紹介します。「一気進費

# **Unit Economics / Finance**

# **Accounting and Finance**

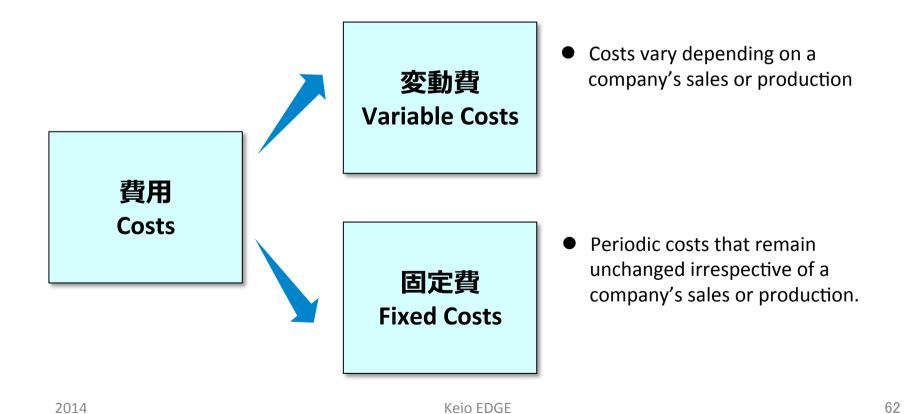
- Entrepreneurs need to be familiar with accounting and finance for;
  - making correct decisions
  - doing communications with stakeholders

# **Managerial Accounting**

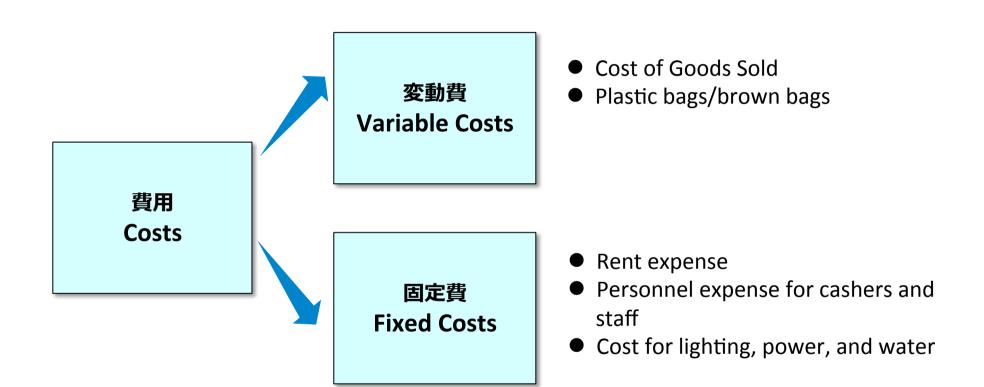


# Cost behavior: variable costs and fixed costs

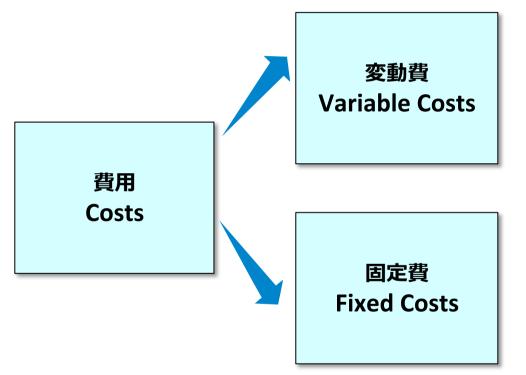
 Costs could be split into variable costs and fixed costs based on cost behavior



# **Example: supermarkets**

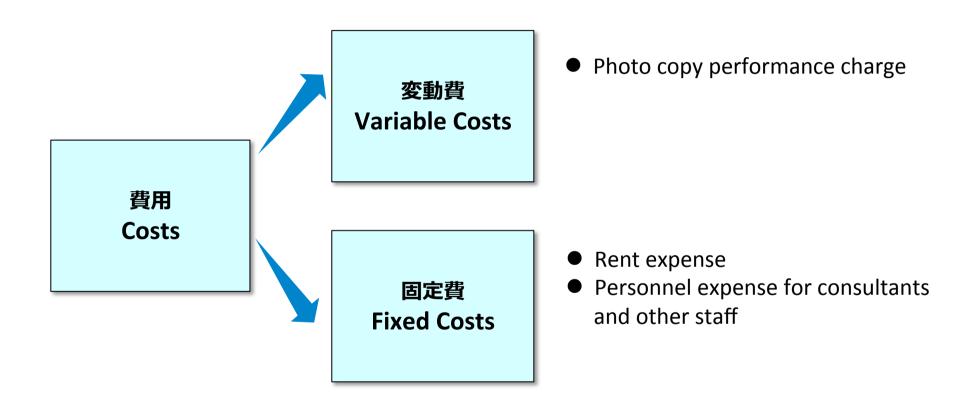


# **Example:** steel-manufacturing company



- Raw materials
- Gas, oil, electricity and water expense for production
- Processing cost
- Subcontract cost for manufacturing
- Office rent expense
- Depreciation cost
- Personnel expense for nonmanufacturing staff

# **Example: Consulting Firm**



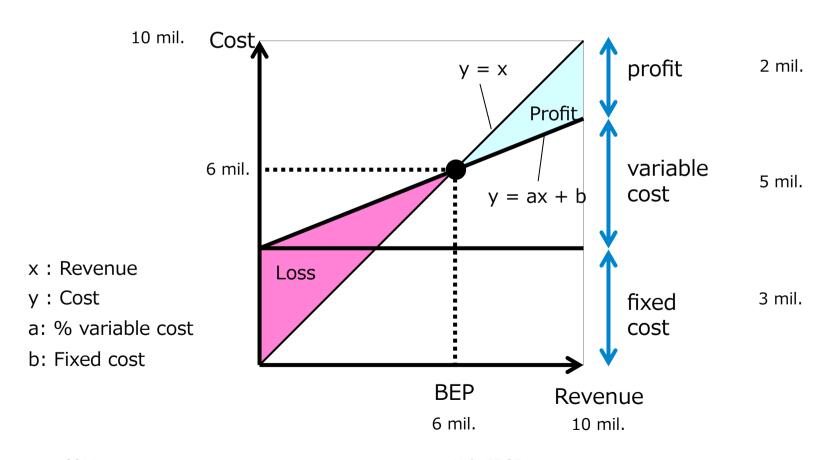
# Marginal profit

 After dividing costs into variable and fixed cost, you can calculate marginal profit.

Marginal profit changes depending on revenue/production increase or decrease

## **Break-Even Point**

損益分岐点 Break-Even Point = The point at which revenue equal to total costs (zero profit)



## **Break-Even Point**

 You can calculate break even point by using the following formula.

```
BEP Revenue – variable cost – fixed cost = 0

Marginal profit = fixed cost

BEP Revenue x marginal profit ratio = fixed cost

BEP revenue = fixed cost / marginal profit ratio
```

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## **BEP** calculation

### Q:

Calculate break-even points of the following two companies. (round the number)

Company A		Company B
• Revenue	100	• Revenue 100
<ul><li>Cost</li><li>Variable cost</li><li>Fixed cost</li></ul>	80 30 50	<ul><li>Cost 80</li><li>Variable cost 50</li><li>Fixed cost 30</li></ul>
• Profit	20	• Profit 20



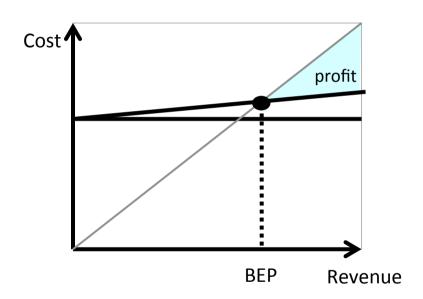
## **BEP** calculation

**Company A** 

**Company B** 

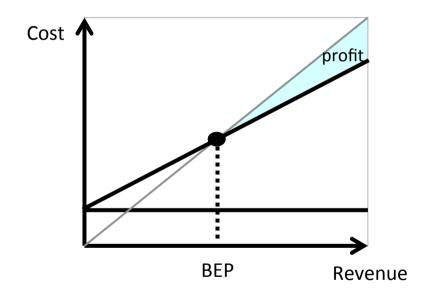
## **Cost Structure**

### **High fixed cost/Low variable cost**



- Higher BEP
- Once BEP is exceeded, you can enjoy higher profit

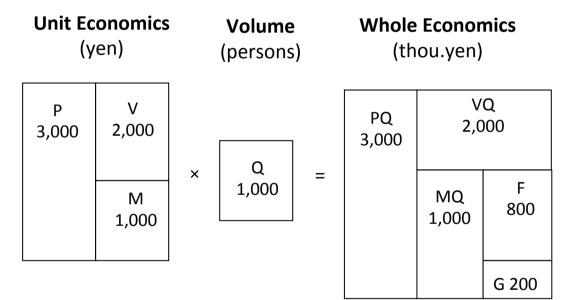
### **Low fixed cost/High variable cost**



- Lower BEP
- After BEP is exceeded, you can enjoy only skinny profit

# MQ(Margin-Quantity) Accounting

### **An Italian Restaurant Case Study**

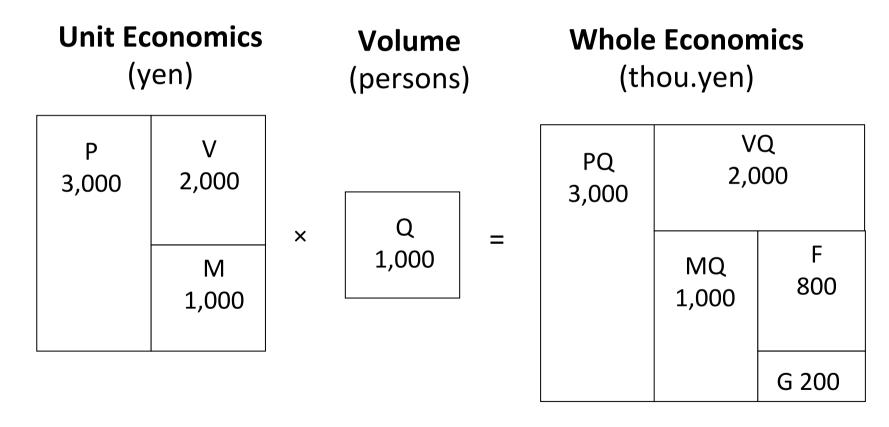


- P: Price
  - Revenue per customer
- V: Variable cost
  - Cost of food materials and etc
- M: Marginal profit
  - Price minus variable cost
- Q: Quantity
  - Number of customers
- F: Fixed cost
  - Personnel cost, rent cost, water, gas and electricity cost
- G: Gain
  - final profit



## **Quantity down**

- Volume is decreased by 10% because of a brand new restaurant's open
- How will the following numbers be changed?



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## **Quantity down**

**Unit Economics** 

(yen)

P V 2,000 M 1,000

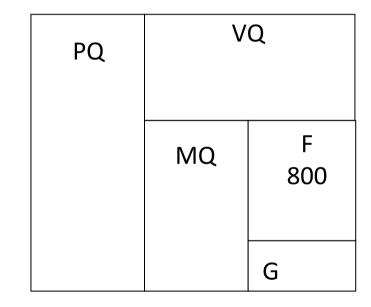
Volume

(persons)

× Q =

**Whole Economics** 

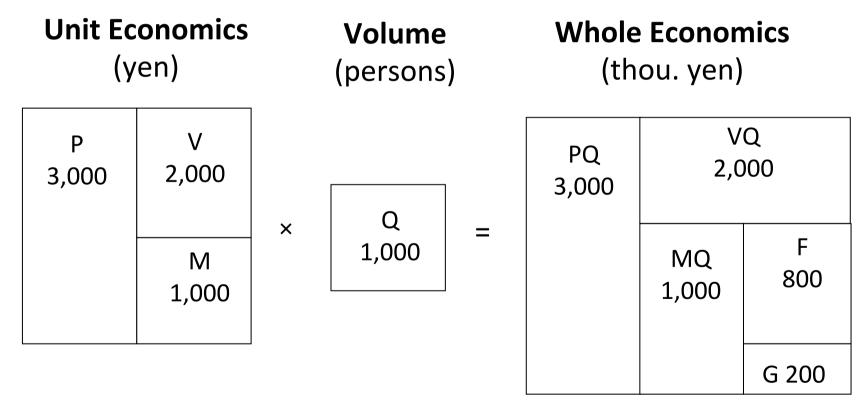
(thou.yen)





#### Price down

- You don't want to lose your customers by 10%. Then, you cut down P by 10% instead. Assume Q is not changed.
- How will the following numbers be changed?





#### Price down

**Unit Economics** 

(yen)

P V 2,000

Volume

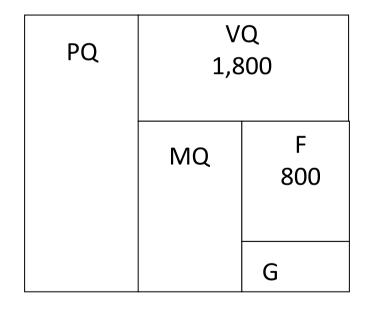
(persons)

Q =

X

**Whole Economics** 

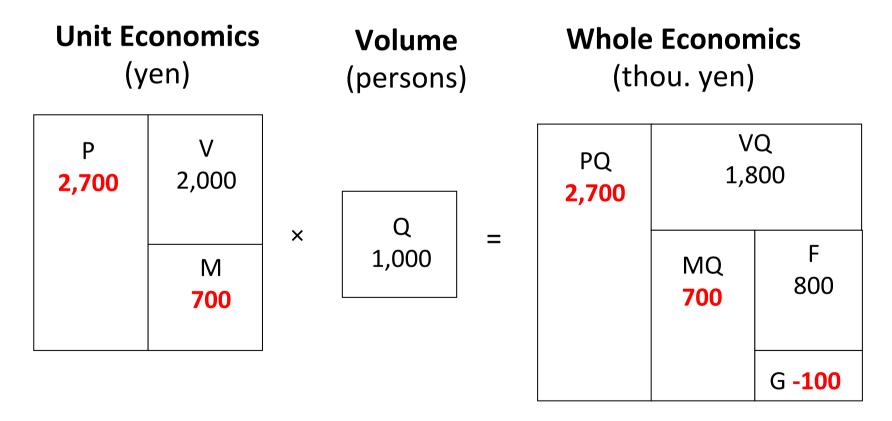
(thou.yen)





## **Quantity Up**

- In order to go back to break-even point (zero profit) from this situation below, how many Q is needed?
- Calculate Q at the point in which G=0 (i.e. MQ=F)



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## **Quantity Up**

#### **Unit Economics**

(yen)

#### Volume

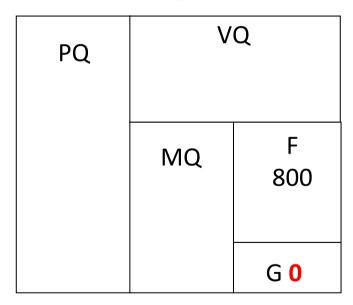
(persons)

Q =

X

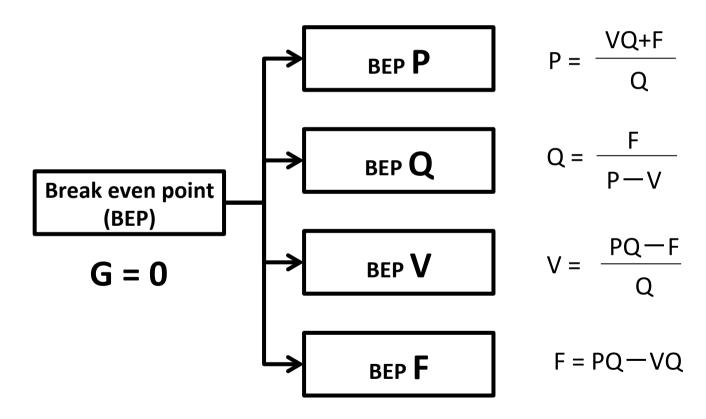
#### **Whole Economics**

(thou.yen)



#### **4 Break-Even Points**

 You can calculate four kinds of break-even points (BEP P, Q, V and F)



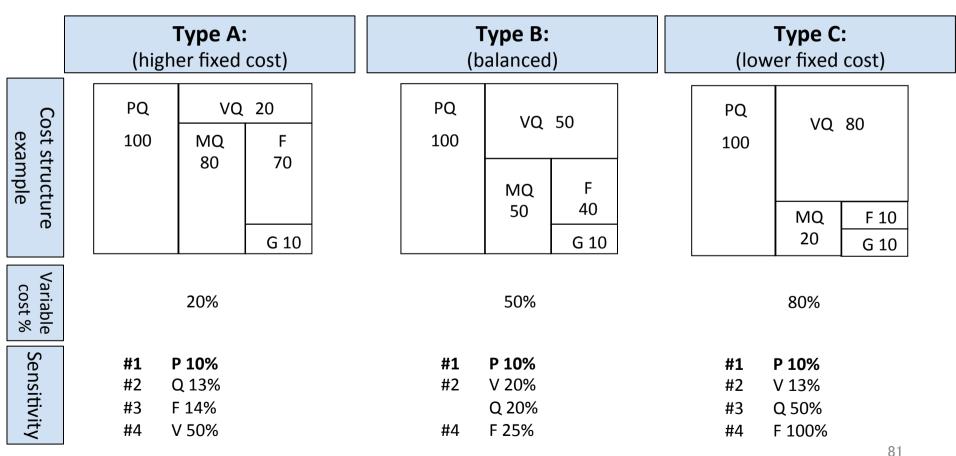
## **Sensitivity of Levers**

• In the Italian restaurant case, the most sensitive lever is P.

Rank	Levers	Status Quo	BEP	Sensitivity
1	P	@3,000yen	@2,800yen	6.7%
2	V	@2,000yen	@2200yen	10%
3	Q	1,000	800	↓ 20%
4	F	800,000yen	100,000yen	<b>1</b> 25%

## Difference by cost structure

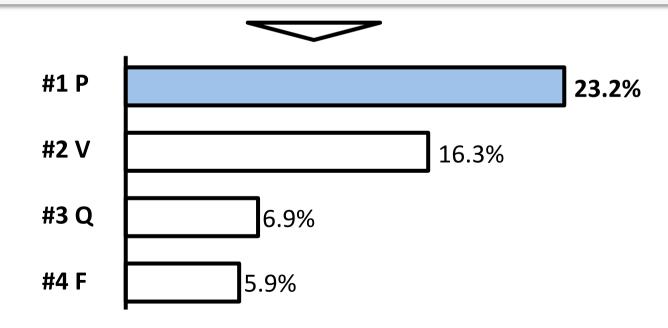
- Sensitivity of levers is different depending on cost structure
- P is the most sensitive lever in each case



## Research in Japanese companies

McKinsey research shows that <u>P is the most sensitive lever</u> in an average Japanese company (the research based on all the TSE 1<sup>st</sup> section listed companies)

Q: "By improving four levers: P, V, Q & F only **by 1%**, **how much EBIT would be improved**?"

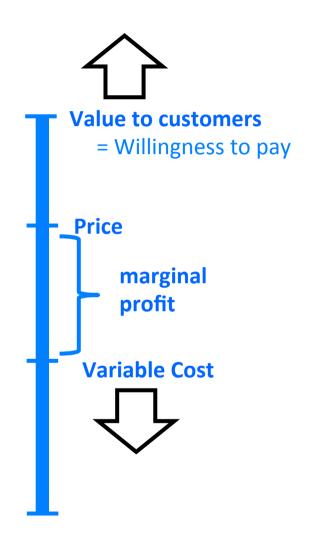


"McKinsey Pricing"

## **Pricing is important**

- The most sensitive lever is P.
- In real business, price increase is a tough action.
  - degree of demand change is uncertain
  - In B2B business, hard negotiation might be needed
- However, you should recognize how important pricing is.

#### **Unit Economics**



- Value to customers must be higher than price
- You want to increase value / decrease cost for getting more marginal profit
- Value is not fixed:
  - ✓ it depends on customers
  - ✓ it depends on what story you deliver

## VC's activities

**Sourcing** 

**Structuring** 

Value-add

**Exit** 

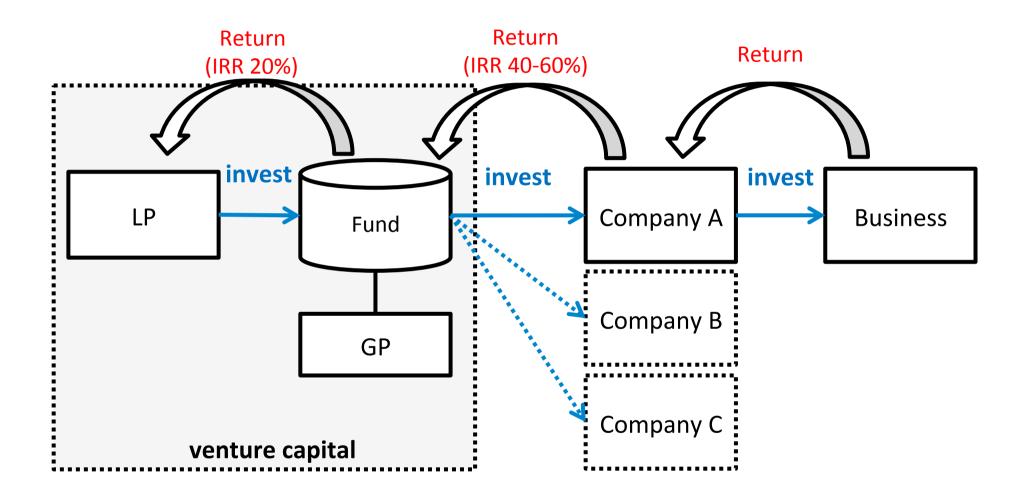
- Search for good startup companies
- Due diligence and make contracts with startups
- Acquire a share of stock
- Support portfolio companies
  - ✓ Strategy
  - ✓ Sales
  - ✓ Finance
  - ✓ Recruiting
  - ✓ Others...

 Sell a part / whole share of stock



©Reiji Yamanaka

#### Structure of a VC



#### Where do VCs check?

Sufficient market size? Marketability Unmet needs? Growing? Value proposition satisfies unmet needs? Product/Service Scalable? Competitive advantage? Competitiveness Sustainable? Management Can get things done? Good chemistries? team Good unit economics? **Profitability** Initial investment can be paid back? Return to funds Sufficient return to the fund?

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## For raising money from VCs

 You have to convince them that their investment will make sufficient return in future.

- You have to show that:
  - Market is attractive
  - Value proposition is unique and valuable
  - Implementation plan is doable
  - Unit economics is good enough
  - Business model is scalable

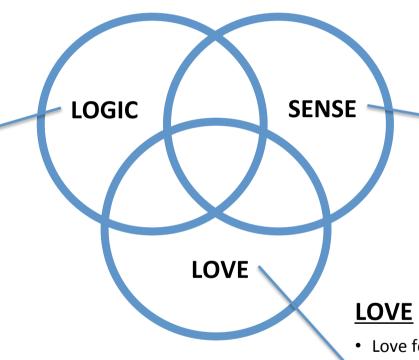
## Wrap Up

- Business model / value proposition
- Marketing / growth
- Unit economics / finance

# Three factors of design Logic / Sense / Love

#### **LOGIC**

- Logical thinking and communication
- Logical estimation of profitability
- Logical investment decisions



#### **SENSE**

- Strong empathy for customers' unmet needs, pains and gains
- Sense for integrating what he/ she experienced into insights
- Sense of story telling

- Love for customers, products and services
- Strong belief on what he/she is doing

<sup>&</sup>quot;Design Management" by Manabu Tago, Hiroko Tago, and Hiroshi Hashiguchi

## Entrepreneur's role

- Entrepreneur's role is.....everything:
  - Design value proposition
  - Design business model
  - Set price
  - Pitch business plan
  - Raise money
  - Do sales and marketing
  - Recruiting team members
  - Show direction and vision
  - Create corporate vulture
  - and so on.....
- But, you don't need to do everything by yourself.
  - Contact the right person at the right time
  - Connect to good network

## Entrepreneurs need to have...

- Decent track record
- Clear-cut vision
- Communication skill
- Creative confidence

and, charm!!

#### What is "investment"?

- Investment is an exchange of present certainty and future uncertainty.
- Investments are nested:
  - GPs invest money on VC funds
  - VC funds invest money on venture companies
  - Venture companies invest money on business
  - and so on..

Present Certainty exchange Future Uncertainty

## Entrepreneur's life is investment

- If you'd choose a life as an entrepreneur, that is investment.
  - taking uncertain future, instead of stable/certain life at an established entity

- No one gives a direction to you.
  - you should handle your own business and life with sense of ownership and urgency

## Last but not least

- Uncertainty IS a big opportunity for us.
- Be proactive, be positive, be energetic, and be passionate.
- Go for uncertain future!

# Good luck on your journey and have fun!!

## **EOF**