

Curricular design focusing on innovation competences

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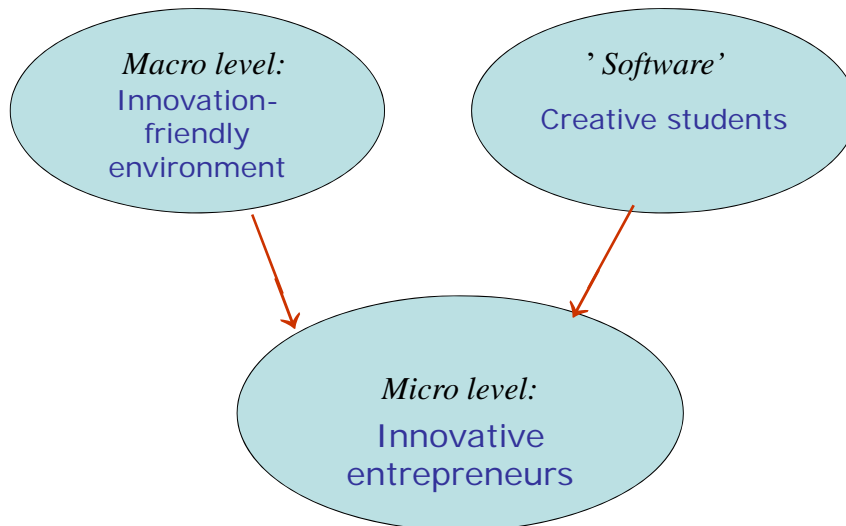
KTH, Stockholm, Sweden

Taraz State University, Kazakhstan. 2018-04-18

Higher education in the 21st century

- Globalization: people, market, capital, goods, services
 - increased competition, knowledge-based & digital economy
- Social/political pressure:
 - relevance, transparency, accountability
- Internal changes
 - deregulation/decentralization, from elite to mass education
- Education as business
 - student mobility, efficiency & effectiveness, value for money

Three components of InnoCENS



What is *creativity* ?

- Use of imagination or original ideas to create something ([Oxford Dictionary](#))
- Ability to produce original and unusual ideas, or make something new and imaginative ([Cambridge Dictionary](#))
- A phenomenon where something new and somehow valuable is created. The created item can be intangible or physical (e.g. technical inventions, artistic works) ([Wikipedia](#))
- A mental characteristic that allows a person to think outside of the box, which results in an innovative or different approaches to a particular task ([businessdictionary.com](#))

What is *invention* ?

(businessdictionary.com)

- A new scientific or technical idea, and the means of its embodiment or accomplishment
- To be patentable, an invention must be [novel](#), have [utility](#), and be non-obvious. To be called an invention, an idea only needs to be proven as workable.
- But to be called an [innovation](#), it must also be replicable at an [economical cost](#), and must satisfy a specific [need](#). That's why only a few inventions lead to innovations because not all of them are economically feasible.

What is an *innovation* ?

- a new idea
- realized in the form of new, better, more effective technologies, products, services, processes,
- validated and proven on free markets or in non-commercial activities (*social entrepreneurship*)

Creativity, Invention vs Innovation

Creative scientists

(Newton, Einstein)

Creative artists

(Da Vinci, Mozart)

Creative inventors

(Edison, Nobel)

Innovators

(Entrepreneurs)

(Nobel, Elon Musk)

Innovation competences

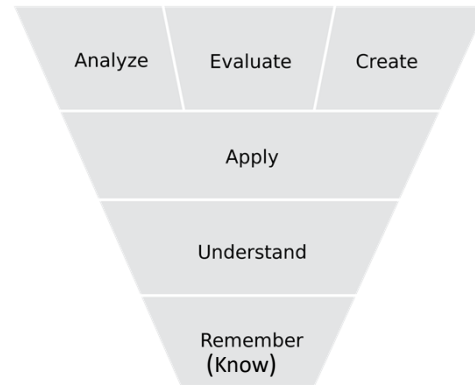
- Creativity: ability to think creatively, originally, differently, outside of the box,
- Entrepreneurial mindset & skills
 - ✓ Commercialization: IP, patent, licensing, technology transfer, spin-off,
 - ✓ Startup: business model, market, customers, IP, team, finance, business plan
- Other personal & social skills which facilitate the realization of creative ideas

Bloom's Taxonomy (revised)

Higher-level thinking skills



Create
Evaluate
Analyze
Apply
Understand
Know



Lower-level thinking skills

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Bloom's Taxonomy (1/2)

- 1. Know** (*recalling important information*)
 - define, repeat, record, list, recall, name, relate, underline.
- 2. Understand** (*explaining important information*)
 - discuss, describe, recognize, explain, identify, locate, report, review, tell
- 3. Apply** (*solving close ended problems where there is a clear answer*) – e.g. interpret, apply, employ, use, demonstrate, dramatize, practice, illustrate, operate, schedule, sketch.

Bloom's Taxonomy (2/2)

- 4. Analyse** (*solving open problems where there is no single clear answer*) – e.g. distinguish, analyse, differentiate, appraise, calculate, experiment, test, compare, contrast, criticize, diagram, inspect, debate, question, relate, solve, examine, categorize
- 5. Evaluate** (*making critical judgements based on sound knowledge base*) – e.g. judge, appraise, evaluate, rate, compare, revise, assess, *estimate*
- 6. Create** (*creating unique answers to open problems*) – e.g. compose, plan, propose, design, formulate, arrange, assemble, collect, construct, create, set up, organize, manage, prepare.

What is professional competence ?

- A combination of knowledge, understanding, skill, capability and attitude that enables an individual to perform certain *professional* tasks
- Competences deals with "what is expected in a *professional* workplace."
- Emphasis on **performing an actual job**, not gaining knowledge/skills for their own sake or as a hobby.
- A tool for better communication with employers and stakeholders - employability

Competences & Learning Outcomes

- Desired competences are defined on the basis of input from internal and external stakeholders (e.g. employers)
- LOs are statements of what a student is expected to know, understand and be able to do after completion of a course
- LOs are mostly formulated by the teaching staff, taking into account the programme's desired competences
- Learning/teaching activities help students to learn
- Assessment procedures ensure students have achieved the LO
- Learning Outcomes lead to skills/Competences
- Competences make graduates employable, useful for the society

Competences of a study programme

- Knowledge and understanding of the subject
- Practical skills
- Intellectual skills required to make use of existing knowledge and create new knowledge
- Generic (soft/transversal/transferable) skills

Competences for MSc in *Geodesy and Geoinformatics*

- 1) Broad knowledge in land survey, mapping and GIS
- 2) Specialised knowledge in spatial data acquisition and spatial analysis
- 3) Practical skills to do field measurements, process data and evaluate the results
- 4) Practical skills to structure, visualize and analyze spatial data using GIS software
- 5) Ability to choose proper methods for specific conditions and requirements
- 6) Skills to evaluate possibilities and limitations of existing geodetic methods
- 7) Insight on the needs of new technologies/solutions in geodesy/geoinformatics
- 8) Be able to communicate effectively and present scientific work in oral/written form
- 9) Project management skills and ability to work in group and in [project form](#)
- 10) Insight on ethical, environmental and sustainable development issues and their relevance in professional work

MSc in *Geodesy and Geoinformatics*

- | | |
|---|--------|
| 1) Adjustment theory | (7,5c) |
| 2) Map projections & reference systems | (7,5c) |
| 3) Global Navigation Satellite Systems (GNSS) | (7,5c) |
| 4) Physical geodesy | (7,5c) |
| 5) Laser scanning technologies | (7,5c) |
| 6) Integrated navigation | (7,5c) |
| 7) Spatial databases | (7,5c) |
| 8) Geovisualization | (7,5c) |
| 9) GIS architecture | (7,5c) |
| 10) Spatial analysis | (7,5c) |
| 11) Remote sensing and image processing | (7,5c) |
| 12) GIS project | (7,5c) |
| 13) MSc thesis project | (30c) |

The Competence Matrix for *Geodesy and Geoinformatics*

| COMPETENCES | COURSES | 01. Adjustment theory | 02. Map projections & RS | 03. GNSS | 04. Physical geodesy | 05. Laser scanning | 06. Engineering geodesy | 07. Spatial databases | 08. Geovisualization | 09. GIS architecture | 10. Spatial analysis | 11. Image processing | 12. GIS project |
|--|---------|-----------------------|--------------------------|----------|----------------------|--------------------|-------------------------|-----------------------|----------------------|----------------------|----------------------|----------------------|-----------------|
| broad knowledge in land survey, mapping and GIS | | X | X | X | X | X | X | X | X | X | X | X | X |
| specialized knowledge in some areas and current research topics | | X | X | X | X | X | X | X | X | X | X | X | X |
| practical skills to carry out measurements, process field data and evaluate results | | X | X | X | | X | X | | | | | | |
| practical skills to structure, visualize and analyse spatial data using GIS | | | | | | X | x | X | X | X | X | X | X |
| ability to choose proper methods for specific conditions and requirements | | | X | X | | X | X | | X | | X | | X |
| ability to evaluate possibilities and limitations of existing geodetic methods | | | X | X | | X | X | | | | | | X |
| insight on needs of new technologies and new solutions in geodesy and geoinformatics | | | | X | X | X | X | X | X | X | X | X | X |
| skills to communicate effectively | | | | | | X | X | | | | X | X | X |
| ability to manage project and work in groups & project form | | | | | | X | X | | | | X | | X |
| awareness on ethical issues as well as climate change + sustainable development | | | | | X | X | X | X | | | X | | X |

General formulations of LO & competences

- Knowledge and understanding:
 - 1) broad knowledge and understanding of the scientific foundation of the subject area concerned and proven empirical knowledge, as well as current research & development topics
 - 2) deeper knowledge in some parts of the subject field
- Abilities and skills
 - 1) ability to critically, independently and creatively identify, formulate complex problems and conduct needed R&D work which contributes to creation of new knowledge
 - 2) skills to create, analyze and critically evaluate different technological solutions

General formulations of LO & competences

- Abilities and skills

- 3) skills to plan and implement qualified tasks under certain conditions, and evaluate the results
- 4) skills to systematically integrate knowledge to analyse, judge and handle complex phenomena, problems and situations; skills to model, simulate and evaluate processes even with limited information
- 5) ability to develop and design products, processes and systems with respect to human conditions and needs, as well as socioeconomical and ecological sustainability
- 6) teamwork skills & skills to interact with people of different backgrounds
- 7) ability to communicate in oral or written form, in national or international context, present and justify scientific conclusions

GEOWEB workshop on quality assurance in geodesy education, University of Novi Sad, Serbia. 2018-03-26.

General formulations of LO & competences

- Values and attitudes

- 1) Ability to make judgement taking into account relevant social and ethical aspects in research and development work
- 2) Insight in both possibilities and limitations of science and technology, its role in the society, and a person's responsibility on how science and technology is used and its socioeconomical, environmental and work condition-related impact
- 3) Ability to identify personal needs of new knowledge and take responsibility for continuously improving knowledge and competences

GEOWEB workshop on quality assurance in geodesy education, University of Novi Sad, Serbia. 2018-03-26.

Innovation competences

- Ability to think creatively, differently and outside of the box
- Ability to critically evaluate existing solutions, identify needs for improvement and seek new solutions
- Ability to integrate knowledge and technologies from multiple technical disciplines or business branches
- Ability to take initiatives on interested tasks with devotion and entrepreneurial mindset
- Ability to develop teamwork and build collaboration networks
- Basic knowledge on innovation and entrepreneurship, skills to transform new ideas and scientific results into viable business

Innovation Competence matrix

| Innovation COMPETENCES | | Model 1 | Model 2 | Model 3 | Model 4 | Model 5 | Model 6 | Model 7 | Model 8 | Model 9 | Model 10 | Model 11 | Model 12 |
|------------------------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|
| 1 | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | |

Transversal competences project at UPV

Luis A. Ruiz



UNIVERSITAT
POLITÈCNICA
DE VALÈNCIA

Workshop on Innovation Pedagogy and Entrepreneurship
Taraz, Kazakhstan. April 16-21, 2018





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1. Introduction

Background and basic definitions

2. The Project

Why? What is needed?

3. The Competences

What should the students get?

4. Implementation

How and When will it get done?

5. Evaluation

How can we know the results?♪



Introduction

✓ **Competences**

Set of knowledge, skills and attitudes necessary to perform a given occupation and the ability to mobilize and apply these resources in a given environment successfully

✓ **Specific:** are those of a field or degree and are aimed at achieving a specific profile of the graduate

✓ **Transversal** (*generic, core, key, transferable, etc.*)

- Those competences that are key and transferable in relation to a wide variety of personal, social, academic and work contexts throughout life.
- They constitute a fundamental part of the professional and formative profiles of all or most of the qualifications

Transversal competences are common to all students of the same university, regardless of the degree they are studying

Introduction

The **transversal competences** are :

- ✓ **Integrators**, since they favor the integral formation of our students
- ✓ **Transferable** in academic, work, personal, social contexts ...
- ✓ **Interdependent**, working a competence usually develop others
- ✓ **Multifunctional**, that is, versatile and capable of responding to different types of problems
- ✓ **Evaluable**, they must be broken down into learning outcomes to be able to prove the level reached by students♪

Introduction

*In the Knowledge Society, each citizen will require a wide range of competences to **adapt** flexibly to a **world** that is changing rapidly and that shows multiple interconnections (EU Education and Training, 2010).*

These generic competences are of great relevance for the **European Qualifications Framework**

Employers emphasize the great importance of transverse or generic competences in the professional performance of university graduates.

The **strategic plan UPV2020** says:

"Universitat Politècnica de València aims to move towards training models that allow students to acquire the necessary competences to obtain an adequate job placement"

As a consequence, at UPV the degrees explicitly incorporate the requirement that students are trained in these competences and that they be evaluated

The Project

The main goal of the project consists of:

- Establish a **strategy for the systematic evaluation of transversal competences**, defining where they are acquired and how they should be evaluated
- **Accredit the acquisition** of the competences to students graduated in any of the official degrees of UPV

Specific competences are taught, worked, acquired and certified. However, generic competences have been defined in the curricula and assigned to subjects, but they are not systematically worked or evaluated, so their acquisition is not guaranteed.



The Project


The **specific objectives** are :

- Simplify and **clarify** what we mean by transversal competences, taking into account national and international references
- **Define** the 13 transversal competences at UPV
- **Incorporate** the competences to the formation of the students using different ways or strategies
- **Design evaluation** processes and accreditation of transversal competences that are flexible and innovative
- **Implement** the processes of **evaluation and accreditation** of these competences in all the degrees taught at the university.
- Provide **visibility** of the results to society



The Project

Why to develop **the project**?:

- To provide UPV graduates with an **added value** that can differentiate them from other graduates and, consequently, make the offered studies more attractive
 - To value the training of our graduates for **employers**
 - To explain and validate the acquisition of competences for **international accreditations**
- 

The Competences



✓ CT-01. Comprehension and integration



Understanding and integration of knowledge both, from one's own specialization and in other broader contexts

To understand means to "*perceive and have a clear idea of what is called, is done or happens, or discover the deep meaning of something*"

To demonstrate that something has been understood, the person identifies and recovers the information, and explains it with his words, interpreting and integrating the ideas from his perspective

The Competences



✓ **CT-01. Comprehension and integration**

It implies interpreting the information in a reflexive and precise way.

To achieve this, activities can be focused on:

- Compare concepts, principles and theories
- Sort objects, events, ideas
- Analyze and synthesize
- Sequencing, ordering
- Discover reasons that support an argument

The Competences



✓ **CT-01. Comprehension and integration**

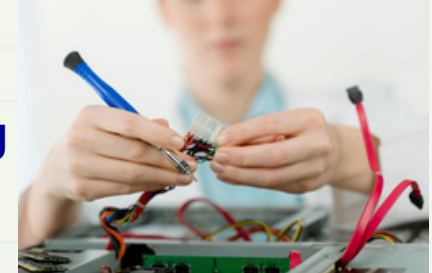
Activities can be developed following different types of methodologies, such as:

- | | |
|------------------------|------------------|
| • Group activities | • Questions |
| • Oral exhibitions | • problems |
| • Forums and debates | • Projects |
| • Readings | • Report writing |
| • Laboratory practices | • Seminar |

The Competences



✓ CT-02. Application and practical thinking



Apply the theoretical knowledge and establish the process to achieve objectives, carry out experiments, analyze and interpret data to draw conclusions

The student, in **real life**, needs to be **prepared to face situations** in which it is not enough to apply recipes or formulas

Proposed decisions/solutions must be argued and accommodate the available resources.

This competence develops the way of thinking directed to action, which allows adapting to new situations, making decisions and, consequently, **ACTING**

The Competences



CT-03. Analysis and problem solving



Analyze and solve problems effectively, identifying and defining the significant elements that constitute them

Problems are new situations that require individuals to respond with new behaviors. The objective is that the student is able to apply structured procedures to solve problems, learning, understanding and applying knowledge autonomously

The Competences



✓ CT-04. Innovation, creativity and entrepreneurship

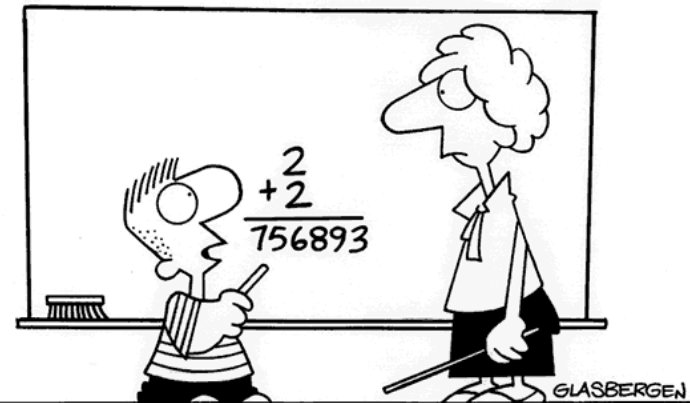
Innovate to respond satisfactorily and in an **original way** to personal, organizational and social needs and demands with an **entrepreneurial attitude**

The development of this competence requires:

- to think differently (**creativity**), and
- to commit certain resources on their own initiative in order to explore an opportunity, assuming the risk that this entails (**entrepreneurship**)



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**"In an increasingly complex world,
sometimes old questions require new answers."**

The Competences



✓ CT-05. Design and project



Design, direct and evaluate an idea effectively until it is finalized in a project

A project is an effort of **designing and creating** a unique service or product, by performing a series of tasks and an effective use of resources.

It favors the student to learn by doing and **integrating knowledge and skills** from different disciplinary areas, developing high-level intellectual skills, promoting learning and autonomous work, teamwork and self-evaluation.

The Competences



✓ CT-06. Teamwork and leadership



Work and lead teams effectively to achieve **common goals**, contributing to their personal and professional development

Teamwork involves creating and developing a climate of **mutual trust** between the components that allows working in a responsible and **cooperative** manner

To SHARE: share knowledge, commitment and responsibility. Assumes the distribution of tasks and roles and respect for the rules of the game established by and for the group

The Competences



✓ CT-07. Ethical, environmental and professional responsibility

Act with ethical, environmental and professional responsibility with oneself and others

Ethical responsibility refers to guiding human action in a **rational sense**, as it relates to actions and their **moral value**

Environmental responsibility is the imputability of a positive or negative assessment for the **ecological impact of a decision** (damage caused to other species, to nature or future generations).

Professional responsibility is included within the moral responsibility, reaching the inside of our conscience to **avoid** any **voluntary** failure and decrease **involuntary** failures



The Competences



✓ CT-08. Effective communication



Communicate effectively, both orally and in writing, appropriately using the necessary resources and adapting to the characteristics of the situation and the audience

It means having the ability to **transmit** knowledge and express ideas and arguments in a clear, rigorous and convincing way

The Competences



✓ CT-09. Critical thinking



Develop a critical thinking interested in the foundations on which the ideas, actions and judgments, both their own and those of others, are based

It involves **questioning** the underlying assumptions in our habitual ways of thinking and acting and, based on that critical questioning, be prepared to think and do differently.

Critical thinking is the thought of the questions: why things are like this ?, Why can not things be otherwise ?, etc.



The Competences



✓ CT-10. Knowledge of contemporary problems



Identify and interpret contemporary problems in their field of specialization, as well as in other fields of knowledge, paying special attention to aspects related to sustainability.

The need to understand contemporary political, social, legal and environmental issues and values, as well as the mechanisms for expansion and dissemination of knowledge. It is about developing the ability to "**stay up to date**" of current events in their field of knowledge and in society in general.

it is very important that students learn to evaluate complex situations using different approaches, such as: economic aspects, quality of life, environmental repercussions, local and national policies ...

The Competences



✓ CT-11. Long-life learning



Use learning in a strategic, autonomous and **flexible** way, throughout life.

This competence is closely related to the idea of training reflective professionals, who are not satisfied with reproducing routinely known solutions, but seek to generate new solutions.

Reflective practice is based on three pillars:

- action or know-how
- knowledge we develop on top of our own knowledge
- control we have on how we use our knowledge in a specific activity

The Competences



✓ CT-12. Planning and time management



Plan appropriately the time and schedule the necessary activities to achieve the objectives, both academic-professional and personal.

It implies being able to **organize and distribute** correctly the **time** we have available and distribute it according to the **activities** necessary to achieve our short, medium and long term goals

The Competences



✓ CT-13. Instrumental specific



Use the techniques, skills and updated tools necessary for the practice of the profession

Use of the **tools and technologies** necessary for the professional practice associated with each degree. The student will be able to identify the most appropriate tools in each case, knowing their utilities and being able to integrate and combine them to solve a problem, perform a project or an experiment.♪

The Competences

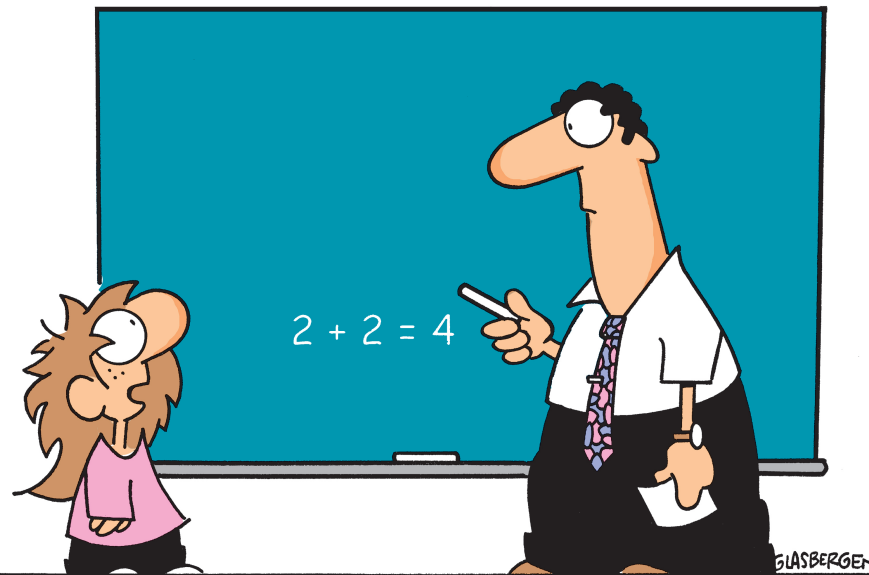


✓ CT-13. Instrumental specific



Use the techniques, skills and updated tools necessary for the practice of the profession

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“How can I trust your information when you’re using such outdated technology?”

Implementation

✓ **INCORPORATION OF UPV TRANSVERSAL COMPETENCES**

There are **three lines** to incorporate the UPV transversal competences to the studies:

- Curricula
- Bachelor or master theses
- Extracurricular activities

Implementation

✓ INCORPORATION OF UPV TRANSVERSAL COMPETENCES

LINE 1. Through the **study plans**:

- Step 1: Inclusion of transversal competences in **verification** documents.
- Step 2: Assignment of transversal competences to the different subjects/courses of the curricula.
 - > "**control point**" courses
- Step 3: Specification in the **program contract** and in the **teaching guide** of the courses.
- Step 4: Follow-up and review by the Schools/Faculties to verify that the incorporation of transversal competences into the curricula is being carried out correctly.

Implementation

✓ **Verification document of a new degree/curricula**

Contents

1. Description of the degree
2. Rationale
3. Objectives
 - *Generic and specific competences*
4. Access and admission policy
5. Structure of studies and curriculum
6. Academic staff
7. Resources, materials and services
8. Foreseen results (indicators)
9. Quality assurance
10. Calendar

Official document of new proposal or modification of a curriculum leading to obtaining a higher education degree

*The competences proposed in the title must be **evaluable** and its acquisition must be **guaranteed by all students** and be in accordance to the qualifications established in the European Higher Education Area (**EHEA**)*

Implementation

✓ Example of *Teaching guide* of a course

Remote Sensing And Cartographic Updating

| | |
|----------------------|--|
| Degree | Master's Degree in Geomatics Engineering and Geoinformation [Elective] |
| Department | Dept. of Cartographic Engineering, Geodesy and Photogrammetry |
| Area | Cartographic Engineering, Geodesy And Photogrammetry |
| Credits | 6 |
| Duration | Semestral |
| Language of delivery | English Spanish |
| Years delivered | 2014/2015 al 2017/2018 |

Course Description (2017)

Course Outline

Student Outcomes

Recommended Prior Knowledge

Syllabus

Distribution

Assessment

References

Information

Teachers

Scheduled exams

Summary Course Description

PDF Course Description

Implementation

✓ Example of *Teaching guide* of a course

Student Outcomes

| Subject matter | Student Outcome |
|----------------|---|
| Geomatics | Students should have the learning skills which allow them to continue studying in a largely self-directed or autonomous way. |
| Geomatics | Poseer y comprender conocimientos que aporten una base u oportunidad de ser originales en el desarrollo y/o aplicación de ideas, a menudo en un contexto de investigación |
| Geomatics | To apply the acquired knowledge and the problem-solving capacity in new or unfamiliar environments in a broader and multidisciplinary context related with their field of study |
| Geomatics | To be able to integrate the knowledge for facing the complexity of formulating judgements from an information that -being limited and uncompleted - includes reflections on the social and ethical responsibilities related to the application of that knowledge and judgements |
| Geomatics | Que los estudiantes sepan comunicar sus conclusiones - y los conocimientos y razones últimas que las sustentan - a públicos especializados y no especializados de un modo claro y sin ambigüedades |
| Geomatics | Diseñar una idea de manera eficaz hasta concretarla en un proyecto en el ámbito de la Ingeniería Geomática y Geoinformación. |
| Geomatics | Trabajar y liderar equipos de forma efectiva para la consecución de objetivos comunes, contribuyendo al desarrollo personal y profesional de los mismos en el ámbito de la Ingeniería Geomática y Geoinformación. |
| Geomatics | Conocer, integrar y aplicar los métodos geoestadísticos y de análisis estadístico multivariante para la modelización espacial de variables geográficas y la resolución de problemas de ingeniería y territorio. |
| Geomatics | Conocer, utilizar y desarrollar equipos para la adquisición de datos georreferenciados en aplicaciones de ingeniería civil, gestión de recursos naturales y análisis territorial. |
| Geomatics | Conocer, manejar e integrar la legislación básica catastral, de registro de la propiedad y territorio, así como el manejo de datos catastrales, junto con otros datos en sistemas digitales para la visualización, análisis y gestión optimizados de dicha información georreferenciable. |
| Geomatics | Conocer, analizar y relacionar los aspectos básicos de la estructura y planificación territorial, el uso de datos cartográficos y saber modelizar los posibles riesgos ambientales. |
| Geomatics | Entender y utilizar sensores LIDAR aerotransportados y planificar las campañas de adquisición, el procesado y análisis de los datos y su integración para la caracterización de los entornos agroforestales, urbanos, fluviales y costeros. |
| Geomatics | Conocer y utilizar los sensores y técnicas de teledetección necesarias para la identificación y caracterización de cambios en el territorio y saber integrarlos con otros datos espaciales para resolver problemas de actualización de bases de datos cartográficas. |
| Geomatics | Conocer las técnicas y métodos de visualización 2D y 3D de la información espacial y utilizarlas en la modelización de escenarios para aplicaciones industriales, de obra civil y territorio. |

Implementation

✓ Example of *Teaching guide* of a course

UPV-Generic Student Outcomes

| Subject matter | Student Outcome |
|----------------|--|
| | (10) Awareness of contemporary problems issues |
| Geomatics | <ul style="list-style-type: none">• Developed activities related to the acquisition of competence: Seminarios prácticos en grupos reducidos• Detailed description of the activities: El estudiante analiza de forma dirigida aplicaciones reales en el marco de programas de observación de la Tierra nacionales e internacionales, en particular el uso de bases de datos geoespaciales en la resolución de problemas medioambientales y globales.• Assessment criteria: Presentación oral e informe escrito realizado por grupos reducidos |

Implementation

✓ Example of *Teaching guide* of a course

Assessment

| Type | Outline | Acts | Weight |
|--------------------------|---|------|--------|
| Open-answer written test | Controlled test against the clock where the students must draw up their answers. Reference material may be consulted if such right is conceded | 2 | 50% |
| Academic studies | Development of a project that can extend from brief and simple essays to extense and complicated projects, such as final year projects and PhD thesis | 2 | 10% |
| Portfolio | Document drawn up by a student that contains the tasks carried out in a certain subject during the course | 1 | 20% |
| Project | A didactic strategy where students develop a new and unique product through the fulfilment of several tasks | 1 | 15% |
| Observation | Strategy based on observation of tasks, practical training | | |

Distribution

| Syllabus | Teoria Aula | Pràctica Laboratori |
|--|-------------|---------------------|
| Programas de observación de la Tierra y bases de datos cartográficas | 4 | 4 |
| Definición, análisis y extracción de información de objetos | 4 | 6 |
| Métodos de selección de variables y clasificación | 6 | 6 |
| Modelos de estimación de variables espaciales cuantitativas | 3 | 6 |
| Evaluación de la calidad | 2 | 2 |
| Procesos de actualización y análisis temporal | 11 | 6 |
| Total hours: | 30 | 30 |

Implementation

✓ INCORPORATION OF UPV TRANSVERSAL COMPETENCES

LINE 2. Through the **bachelor** and **master theses**:

Provide an appropriate learning scenario for developing transversal competences, facilitating their integration and transfer

The **procedure** includes collecting information through 3 questionnaires:

- Questionnaire 1: **students** fill in when they present their thesis. The student compulsorily assesses the level he considers he has acquired in each of the TCs (from 1 to 5) and there is a free field in which he can make comments. This is not anonymous but it is explicitly stated that its evaluation will not have academic effects.

Implementation

✓ INCORPORATION OF UPV TRANSVERSAL COMPETENCES

LINE 2. Through the **bachelor** and **master theses**:

- Questionnaire 2: it is completed by the thesis **evaluation committee**. The commission evaluates each TCs. There is also a field of observations.
- Questionnaire 3 (*volunteer*): the **tutor** of the work assess the level reached by the student in the various TCs.

Implementation

✓ **INCORPORATION OF UPV TRANSVERSAL COMPETENCES**

LINE 3. Through **extracurricular activities**:

Competencies are learned over long periods of time and in very different contexts, both academic and extra-academic. In this project this learning experiences are considered, and students can incorporate **evidences** obtained in **other contexts** about their level of development in the different TC.

Some examples :

- (1) promoted by the UPV by centers, departments, institutes, services ...
- (2) developed outside the UPV: sports teams, associations, cooperation ...

Evaluation

1. Accreditation system for transversal competences UPV

- ✓ Track 1. Evidences collected through the courses considered “**control point**”.
- ✓ Track 2. **Questionnaires** integrated in the bachelor and master theses
- ✓ Track 3. **Evidences** related to TCs that can be recognized institutionally.

The level of acquisition of TCs is reflected in two complementary ways:

- through the **diploma supplement** and
- through the **portfolio** of the TC of each student.

Evaluation

2. Qualification of transversal competences in the courses

The student, throughout the studies, can find **two types of evaluation**:

- ✓ Of the subject: traditional evaluation (from 0 to 10)
- ✓ Of the transversal competence in the “control point” courses.
- ✓ Each transversal competence is evaluated according to the following **criteria**:
 - ✓ A: the competence is achieved excellently
 - ✓ B: the competence is completely achieved
 - ✓ C: the competence is partially achieved
 - ✓ D: the competence is not reached, that is, the criterion does not reach the minimum level
 - ✓ Blank: do not have enough evidence to assess it




Evaluation

When to evaluate the acquisition of transversal competences through “control point” courses?

Since the transversal competences are acquired in a long evolutionary process, at least **three instants** have been established to evaluate their level of acquisition :

- at least once during the first two years of the bachelor degree (**level of domain I**);
- a second time in courses “control point” of the third and fourth year of bachelor (**level of domain II**);
- during the master (**level of domain III**).

In a **complementary** manner, the bachelor and master **theses** will also evaluate the degree of acquisition of transversal competences





Evaluation

How to evaluate the acquisition of transversal competences through “control point” courses?

- Definition of evaluation **activities** (problems, projects, oral presentations, portfolios, discussions, group work, tests, etc.)
- The use of **rubrics** (evaluation matrix)

A **rubric** or **evaluation matrix** is:

“a resource for the evaluation and qualification of learning, knowledge or performance of students in a specific activity and that establishes indicators (evidences) and a rating scale for each one of them”.

That is, a rubric **sets the criteria** on which the teacher will focus his attention to evaluate the activity




Evaluation

Elements of the rubrics

- The three **levels of domain**, or stages for evaluation of the student.
- The **indicators**, which are concretions of the learning result that defines that level of domain
- The **descriptors**, which define the behavior of the student with respect to the indicator evaluated
- To homogenize these rubrics and the evaluation of transversal competences, a **scale of 4 values** has been established: D, C, B, A (to score a level of development of the competence: not reached (D), in development (C), adequate (B) or excellent (A))

The **final evaluation** is based on the weights the teacher assigns to each of the indicators and the descriptors



Evaluation

Detail of a rubric *(for a teacher to evaluate a TC in a particular activity)*

UPV TC-08b. EFFECTIVE WRITTEN COMMUNICATION

Level of Domain III (Master level)

Learning result that the student must acquire at this stage:

Write texts of scientific and technical quality and use resources that propitiate the reflection of a specialized audience

| INDICATORS (concretions of the learning result) | DESCRIPTORS (define the behavior of the student with respect to the indicator that is evaluated) | | | |
|--|---|---|---|---|
| Grammar Correctness <i>Her/his correct grammar helps to transmit ideas clearly and understandable</i> <i>Examples of evidences:</i> <ul style="list-style-type: none"><i>Use properly punctuation marks (points, commas, etc.) so that when reading facilitate the understanding.</i><i>Do not make mistakes of specialized or technical spelling, does not employ foreign words ...</i> | D Not reached | C In development | B Good/adequate | A Excellent/exemplary |
| | <i>The misuse of the punctuation marks difficults an easy understanding of the text</i> | <i>Even if the text is grammatically correct, its reading is boring, monotonous and/or little fluid</i> | <i>The grammatical correctness helps to transmit ideas clearly and understandable</i> | <i>The personal constructions adapt specifically to the reader, his style is clear and understandable, as well as fluid and enjoyable</i> |
| | | | | |
| | | | | |

Conclusions

- ✓ UPV TC project aims to **ensure** that all **students** graduated at UPV are **accredited and evaluated** for a set of basic competences
- ✓ TC are **implemented** through the curricula, the BSc and Ms theses, and external activities
- ✓ They are **evaluated at three different stages** of the studies: level of domain I, II and III
- ✓ They are **evaluated by means of**:
 - ✓ “Control point” courses using activities and rubrics
 - ✓ Questionnaires at BSc and Ms theses
 - ✓ Other evidences in the extracurricular activities
- ✓ The level of acquisition for each student is **reflected in** the **Diploma Supplement** and the **Portfolio**

Thank you for your attention!

Daddy,
do you like
my picture?



Honey,
if you'd like me
to be objective,
I'll have to create
a rubric.



freshspectrum.com

Company Logo

National University of Architecture and Construction of Armenia



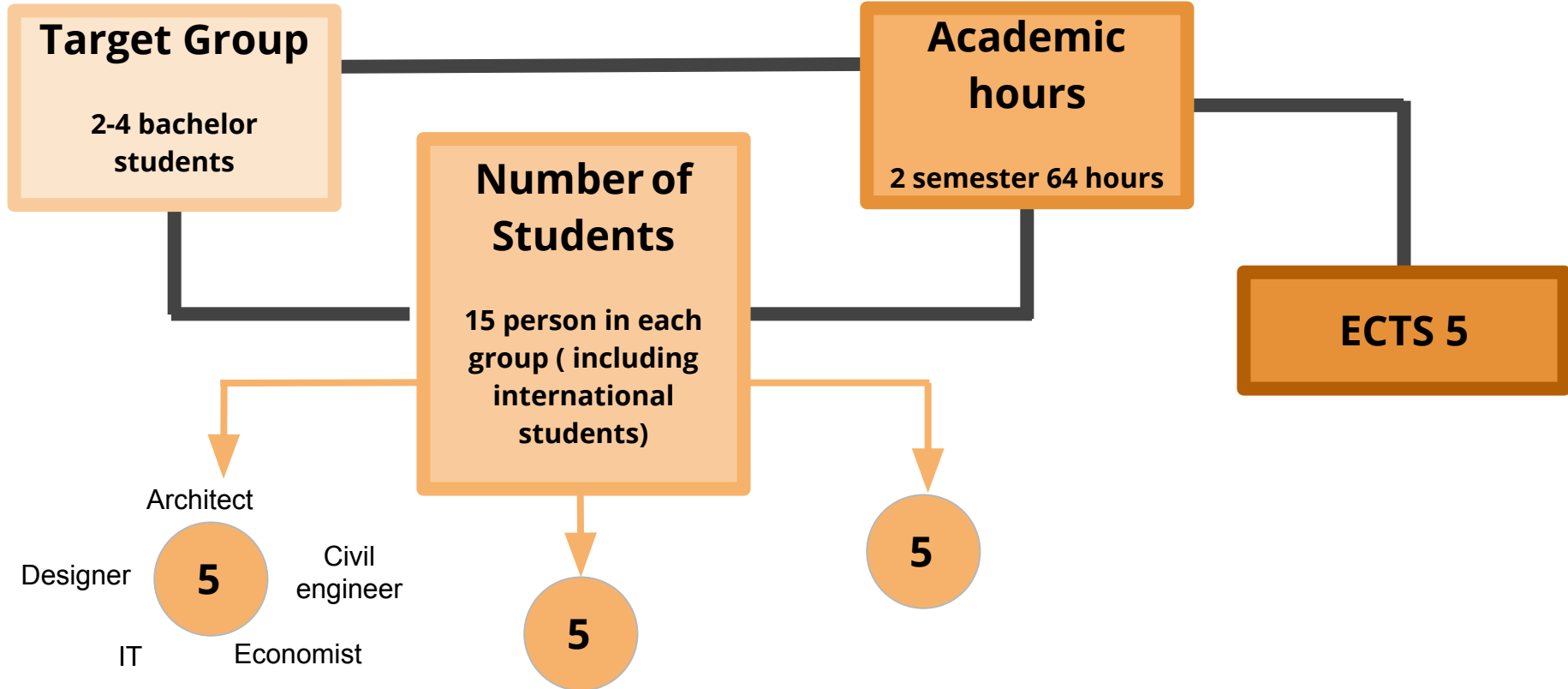
Lianna Aghajanyan Hermine Samvelyan
Andranik Akarmazyan

Innovation Pedagogy

Turku University of
Applied Sciences

Turku, Finland, September 2017

Course Name : Project Management in Architecture and Construction Industry



Learning Objectives

```
graph TD; LO[Learning Objectives] --> LO_Box; PKR[Pre Knowledge requirements] --> PKR_Box; AER[Assessments of end results] --> AER_Box; LO_Box --- PKR_Box; LO_Box --- AER_Box; PKR_Box --- AER_Box;
```

Pre Knowledge requirements

General skills and knowledge according to each specialization.

Teamwork abilities.
Practical knowledge.
The growth of competitive advantages in practical label market.
Calculation - analytical skills development.
Interdisciplinary work capabilities formulation.
Formulation and development of leadership and project management skills for engineering specializations.

Assessments of end results

Examination process involves one current attestation and final exam.

Innovation teaching components



First time applied methods of interprofessional and multidisciplinary group.

As a result plan to improve students practical and analytical skills.

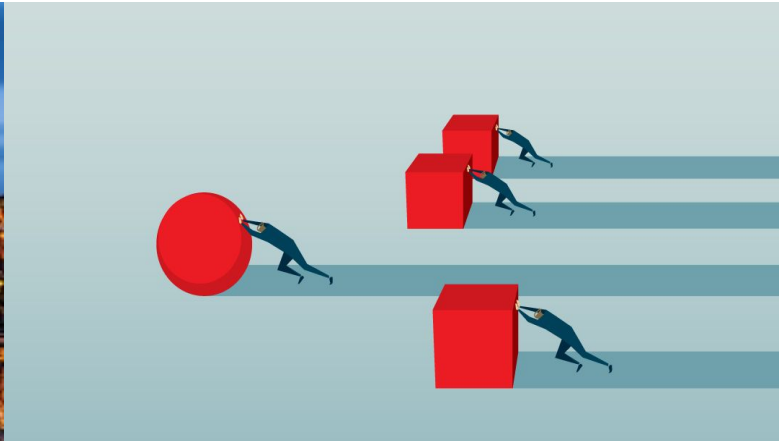
Online testing and assessment.

Self testing and self assessment.

Developed teamwork abilities by forming and implementing culture of engineering project management.

Thank you

... to be open to innovation by creating a learning new world!





Think out of the



box



Co-funded by the
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of the European Union



Innovation Competences Development and Assessment

Harri Lappalainen
Turku University of Applied Sciences Ltd.
Taraz, Kazakhstan
April 2018



Greetings from the happiest country in the world !

For more information, see <https://www.theguardian.com/world/2018/mar/14/finland-happiest-country-world-un-report>



“A better goal than being the most perfect one is to be the most unique one”

André Noël Chaker

Observation and development exercise

- Do you find similarities to your University?
- If yes, what **should be** modified in your University?
- How?



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[RSA ANIMATE: Changing Education Paradigms](#)



Co-funded by the
Erasmus+ Programme
of the European Union



Observation and development exercise

- Later during this workshop you will define
 - what **will be** modified in your University?
 - how?
 - by whom?

EU Agenda for Higher Education

Priorities for action

1. Tackling future skills mismatches and promoting excellence in skills development
2. Building inclusive and connected higher education systems
3. Ensuring higher education institutions contribute to innovation
4. Supporting effective and efficient higher education systems

Source: COM(2017) 247 final

INDOPED project

- “Modernizing Indonesian Higher Education with Tested European Pedagogical Practices”
- 5 European and 6 Indonesian partners
- Project period 10/2015-10/2018
- Funding from European Commission Erasmus+ Capacity Building programme

Lessons learned from INDOPED project (1/3)

Piloted methods increased students' (n=627) autonomy

- Independence from knowledge transmitted from teacher or handbook
- Enhanced personal and interpersonal innovation competences
- Capitalizing diverse resources, including interactions with peers
- Ability to collaborate in problem solving with teacher and peers
- Ability to work with limited resources (meeting deadlines)
- Self-rewarding motivation for learning

Lessons learned from INDOPED project (2/3)

Piloted methods affected to students' perceptions of lecturers

- Shift from the image of busy and unavailable clerk to friendly and cheerful partner
- Shift to willingness to take and share risks
- Increased tolerance for failure and making mistakes
- Collectivist values complemented by individualistic values (intelligence, ambition, creativity)



Lessons learned from INDOPED project (3/3)

Effects of pilots to lecturers (n=102)

- Increased lecturers' capacity for changing the culture of university education
- Helped the lecturers improve communication and supportive relationships with the students
- Increased all of the evaluated aspects of lecturers' capacity with life-long-learning attitude and passion for teaching
- Helped lecturers to become inspirational facilitators (motivating and appreciating creativity)
- Shifted the lecturers towards change-makers and promoters of new ideas



Additional information on INDOPED project



www.indoped.eu

The technical solution for curriculum work in TUAS

- A site in the TUAS Intranet
- Divided in three sections:
 - The mindmap with the texts
 - Formal guidelines (link list)
 - A chat box
- Open for all staff and students

Welcome to explore Innopeda Curriculum!

By clicking on the headers in the mind map below, you can get to know the innovation pedagogy approach which supports you with curriculum planning. You can start from the middle and move from the Learning Continuum to the first blue circle in the map. These headers are the **methods and tools** of innovation pedagogy, which help us to plan and implement a new approach to learning. The links in the blue circle are complete, and we are constantly working on the links in the red circle.

Thus, these pages are not complete but provide all of you the chance to participate in developing discussion and brainstorming on Yammer (on the right). We hope to see lots of active discussion here!

The curriculum is now a learning plan

The mind map gives you perspectives and means to think about learning in a new way. Through the links below the map, you can find preconditions for curriculum work to be taken into account in all curricula. Please read through the links with consideration!

Welcome to explore Innopeda Curriculum!

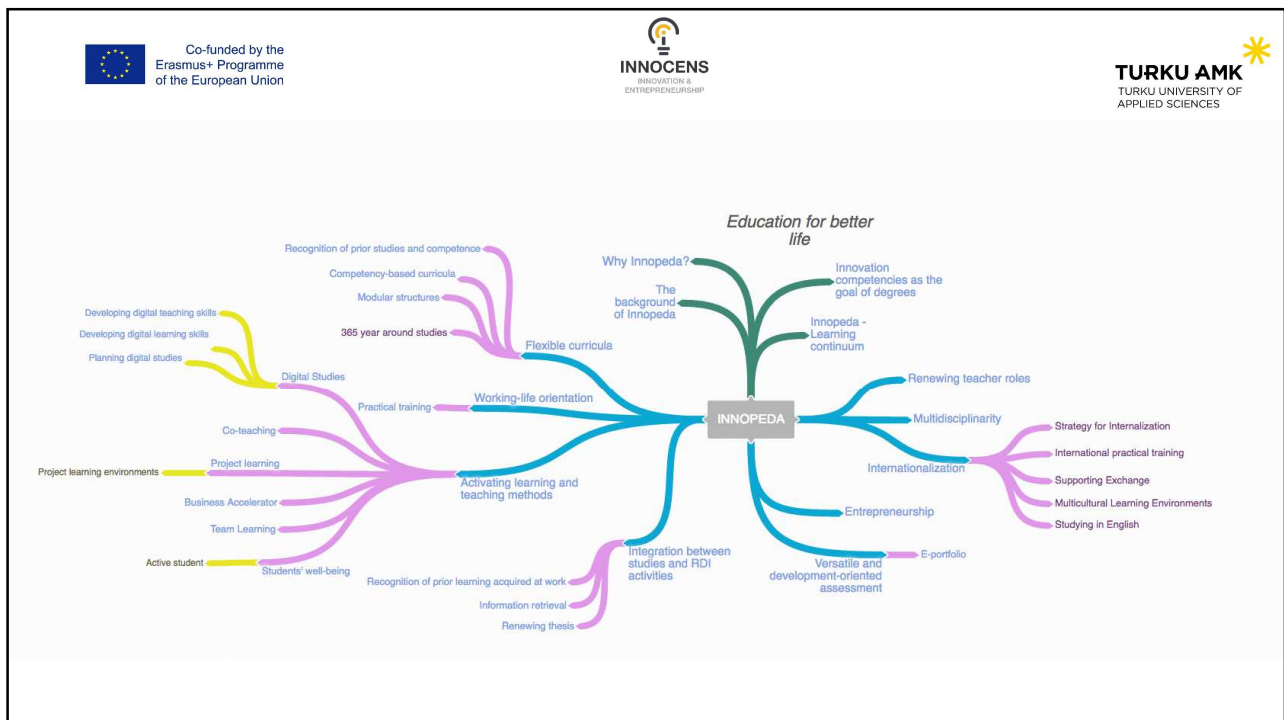
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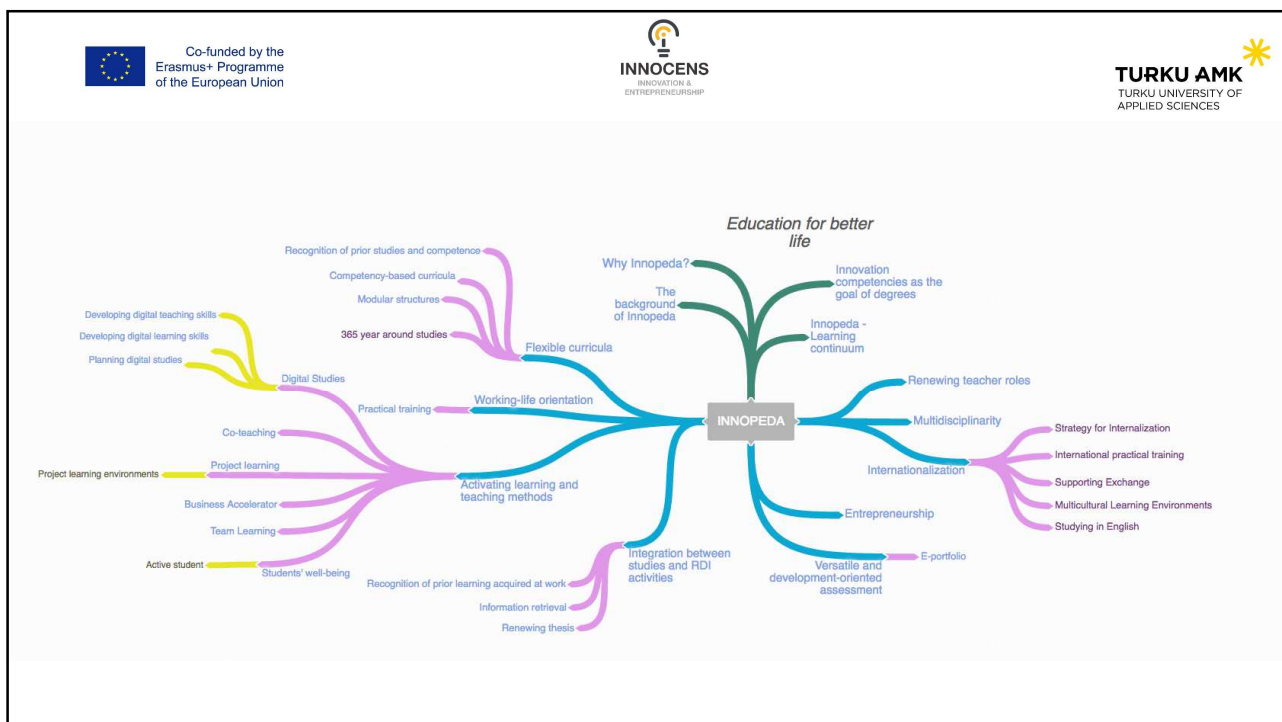
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When working with a remote connection, use this mind map: https://coggle.it/diagram/WSPd8G_UKQABaHk6/83aa5236c3c89e7b64c5303aa86982a149030d26839116f0c0e680f459ce3f





The background of innovation pedagogy includes

- **The expanded concept of knowledge**, which also accepts intuition and tacit knowledge on the correlation between knowledge and the world.
- **The humanist view of man**; man is self-directed, we trust people's will, goodness, creativity, the ability to grow and develop.
- **Socio-constructivist learning theory** (incl. socio-cultural, experiential...)



Education for a Better Life

-Innopeda® OPS

Aiming at an inclusive, sustainable society
With the value compass towards shared goals: appreciation, openness, quality, responsibility, community-orientation, trust. With the strategic plan, we build the technical innovation university of the future and develop well-being.

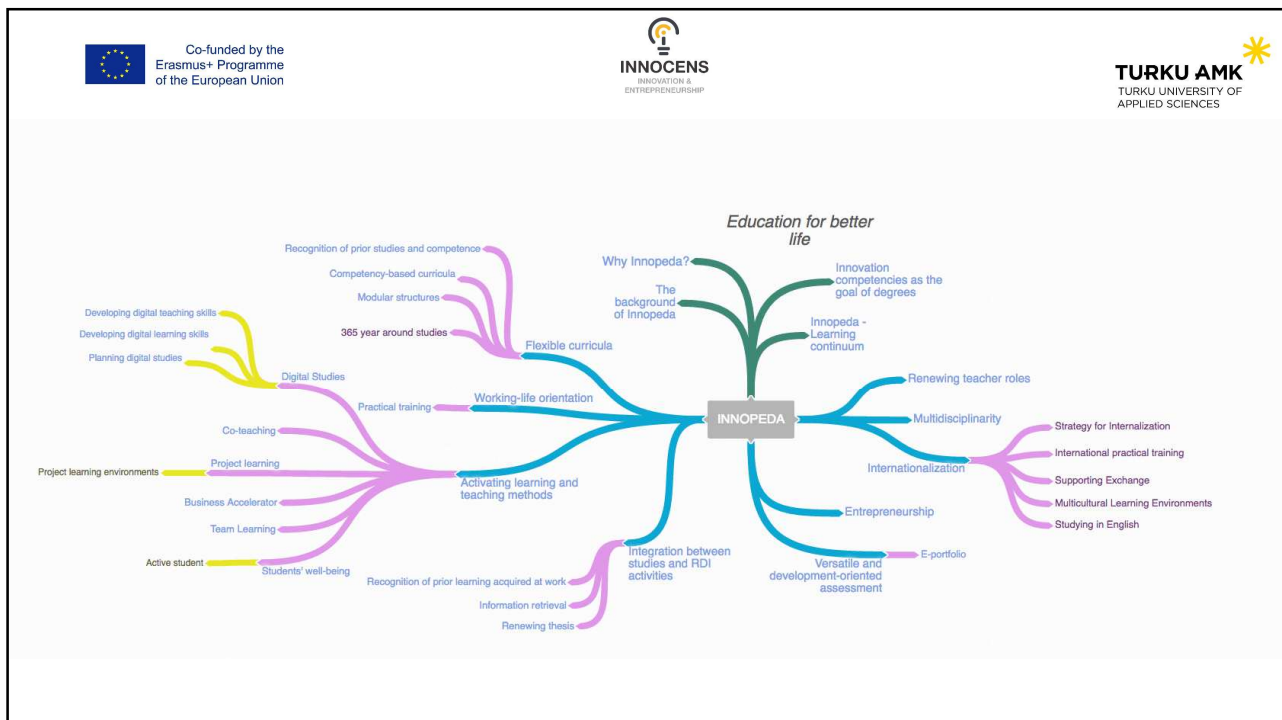
A view on the role of educational organizations now and in the future

- learning takes place also after the degree
- education takes place throughout life, not just at schools or educational institutes
- real life and education to walk hand in hand

Using innovation pedagogy as the approach

- knowledge, skills and attitudes to future work and life, e.g. life-long learning and growth mind-set
- turning point of teaching work

INNOPEDA CURRICULUM
as the means



https://messi.turkuamk.fi/tyotilat/352/Asiakirjasto/Curriculum%20texts/Innovation%20competencies.pdf

Innovation competencies as the goal of degrees

The aim of innovation pedagogy is to produce innovation competencies in all university of applied sciences degrees in addition to the field-specific competencies. In other words, innovation competencies are the competence goals of all degrees, regardless of the field of education. Thus innovation competencies create added value – in addition to strong field-specific competence, our students develop the competence required by future working life, helping both themselves and their future workplaces to succeed and create innovations. In the context of innovation pedagogy, innovations refer to improving competence which learns on the principle of continuous improvement. This leads to a sustainable idea, competence or other practice to be utilized in working life. Innovation competencies are learning results – the knowledge, skills and attitudes which are required by successful innovation activities.

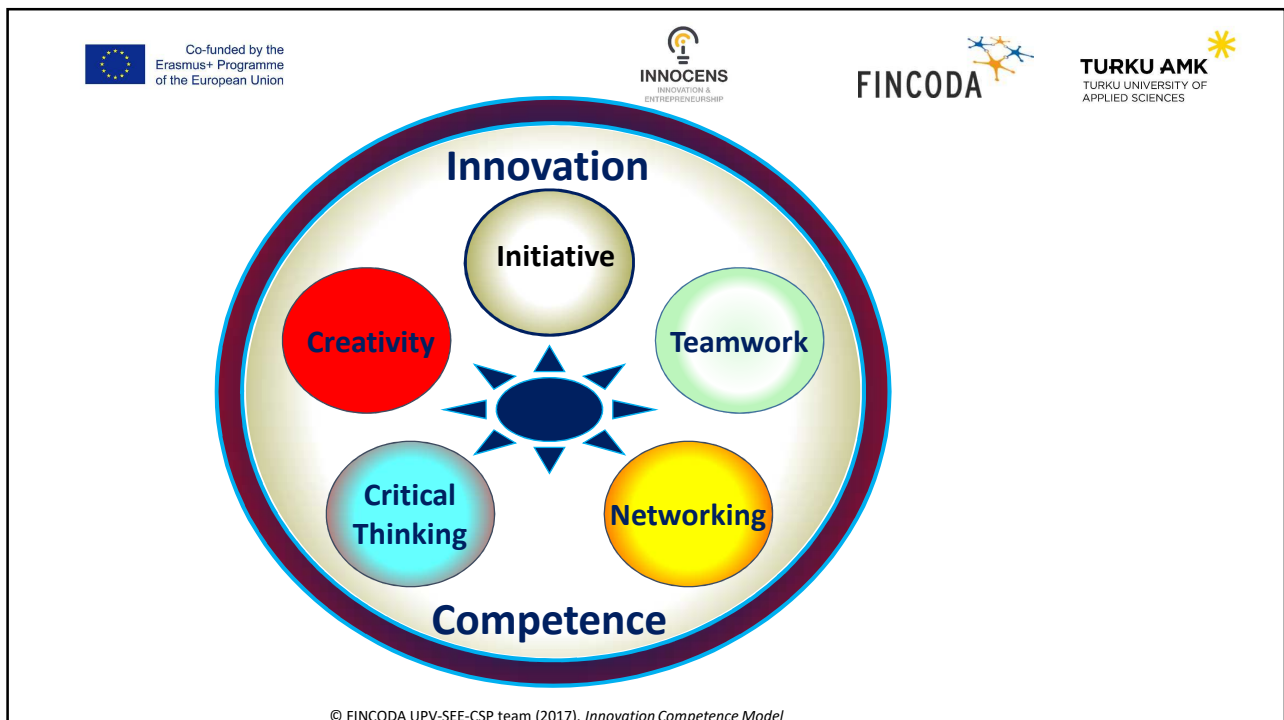
The innovation competencies defined by Turku University of Applied Sciences adhere to the European Qualifications Framework (EQF) and cover the joint university of applied sciences degree competence defined by the Rectors' Conference of Finnish Universities of Applied Sciences (Anehe). Innovation competencies are made of individual, interpersonal and networking competencies and they cover the following five dimensions of competence: creativity, critical thinking, initiative, teamwork and networking.

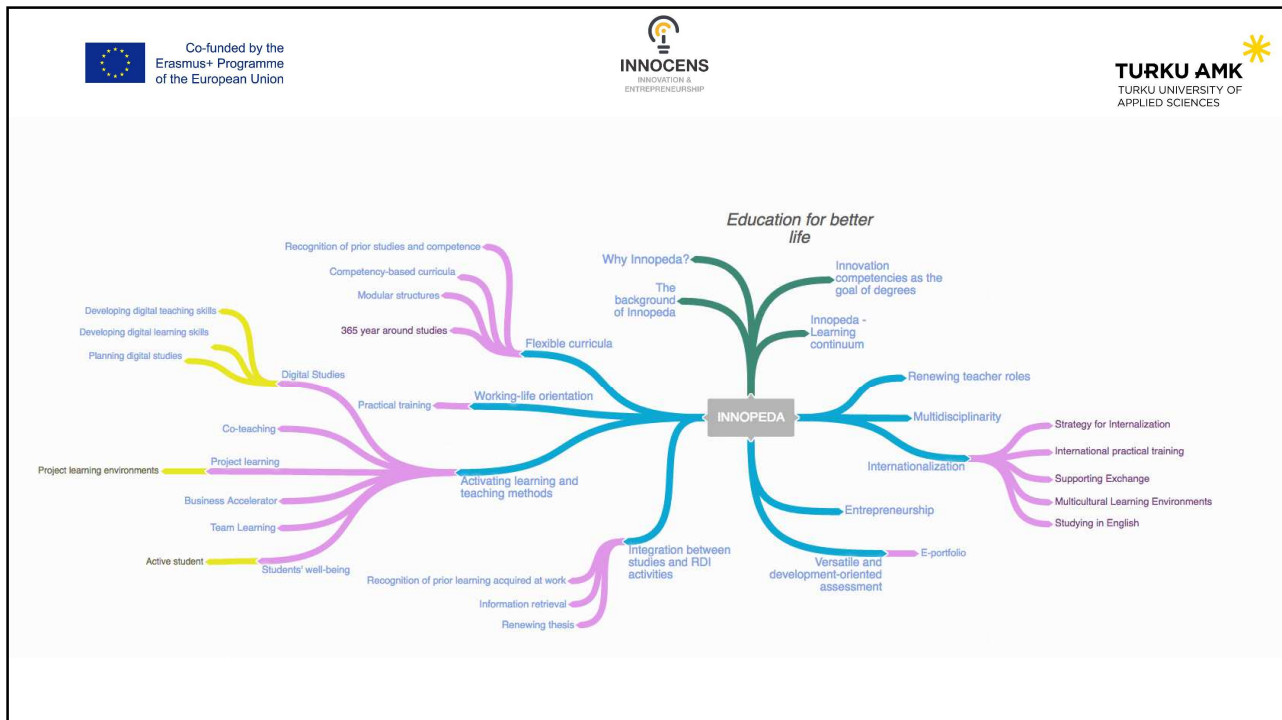
Because innovation competencies are the goal of all degrees, their development should also be evaluated. The holistic evaluation of innovation competencies means versatile evaluation and if necessary, it also includes the perspectives of self-evaluation, peer evaluation and external evaluation (by a teacher and possibly a working life representative).

At Turku University of Applied Sciences, the evaluation of innovation competencies in practice takes place in two contexts: throughout the entire degree in connection with the tutoring process and in connection with the courses. Evaluation throughout the degree takes place with the "Higher education study skills and working life skills" course with the help of the self-evaluation tool in SoleOPS (in the future, in Peppi). Thus the tutor teacher is important in terms of the development of students' self-evaluation skills on innovation competencies. However, innovation competencies are related to all studies. The development of innovation competencies takes place in the studies, not only on the "Higher education study skills and working life skills" course, so they have to be taken into account in the contents of the studies and in the ways of implementing them. The teacher attaches to the goals and evaluation of studies especially the innovation competencies which can be naturally developed and evaluated in the studies he/she instructs. It is useful to agree together with the teachers who are in charge of the studies in the degree which innovation competencies are evaluated in which studies.

EXAMPLES:
Make the innovation competencies visible and understandable for students:
• Discuss with the students what kind of competence is required in working life – the issues brought up will most likely be the ones we call innovation competencies
• Tell about the significance of innovation competencies, show e.g. research data on the change in working life and competence needs
• Offer guidance in the development of self-evaluation and reflection – the student (independent) learns to evaluate what he/she is good at and what needs to be practiced more
• Be inspiring – life-long learning is not a burden but a privilege

Attach to the goals and evaluation of studies especially the innovation competencies which can be naturally developed in the studies, in the studies you instruct, attach the evaluation of the development of the selected innovation competencies.





https://messi.turkuamk.fi/tyotilat/352/Asiakirjasto/Curriculum%20texts/What%20is%20Innopeda.pdf

1 of 1

90%

Innopeda® learning continuum - what is this about?

The strategic plan of Turku University of Applied Sciences states that our operational method is to create an Innopeda® based learning continuum, which combines learning and applied research, development and innovation activities with the development needs of the working life in our region.

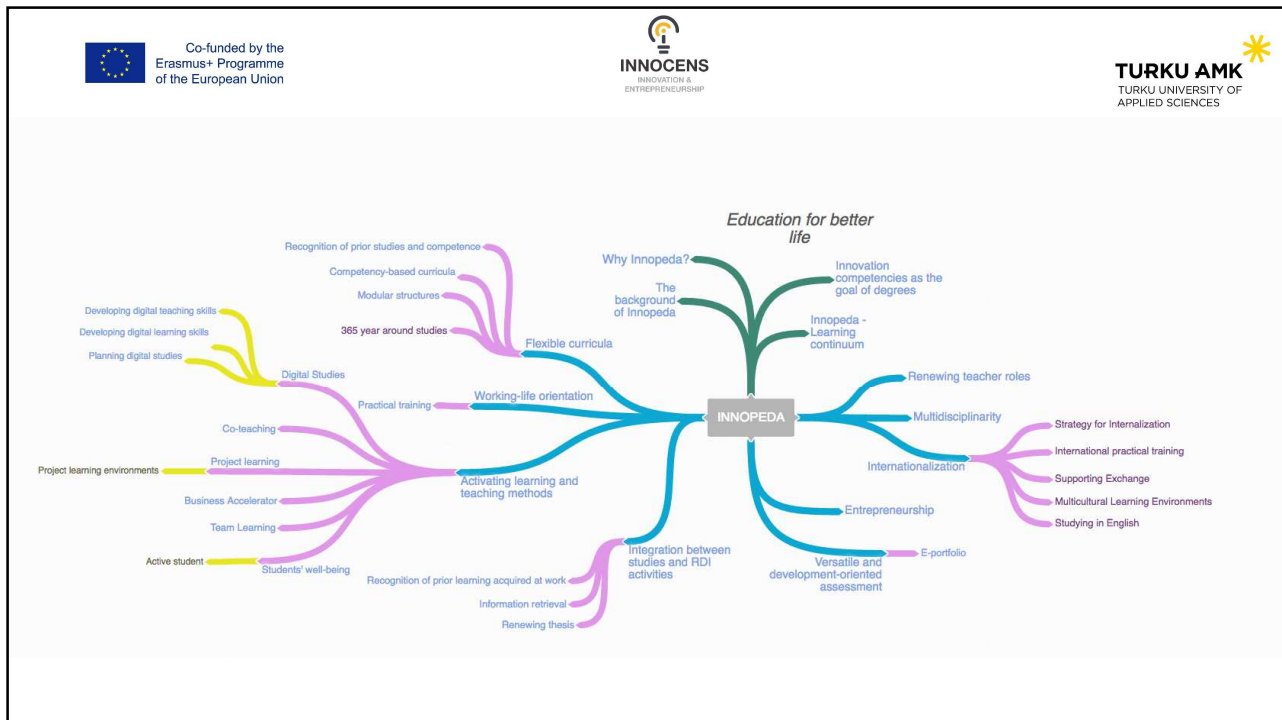
This means that we operate according to the principles of Innovation pedagogy. According to Innovation pedagogy, our view of learning is socio-constructivist.

Constructive learning is a process which helps people select, interpret and process the information received with their senses. The learner plays an active part in the learning process, the teacher can offer viewpoints and support and act as a tutor. Knowledge is not about passive reception but about the student actively constructing knowledge and attaching new to the knowledge learned earlier. The socio-constructivist view of learning has evolved from the constructive view of learning and it emphasizes interaction and social relationships, and learning is constructed in interaction with other learners. Learning takes place in specific socio-cultural contexts. Learning is considered an extensive process which includes, e.g., self-direction, cooperation and identity development.

In addition to degree programme specific competences, the aim of Innovation pedagogy is to produce innovation competences which are divided in individual, interpersonal and networking competences. We believe that achieving the innovation competences creates university of applied sciences graduates who are capable of participating in different innovation processes in working life in a way which produces innovations. Thus we take our responsibility as an active operator in the innovation system of the region. In order to be able to produce innovation competences, so-called meta-innovations are required. The focus of these is different for everyone, depending on the tasks. For teaching staff, they might involve new teaching solutions or opportunities (often different methodical solutions), linking project activities to teaching, utilizing multidisciplinary groups and/or online environments; for those responsible for the planning of education, enabling flexible curricula; for RDI operators, constantly connecting working life and education and promoting applied research etc.

The success of Innovation pedagogy is often monitored in different ways. In addition to competence development and students' employment, its aim is e.g. to support the completion of degrees, decrease dropping out / increase motivation and encourage working as an inspiring community.

From the educational task's point of view, the implementation of Innovation pedagogy is primarily arranged through the degree programmes, their courses/modules and the teaching staff. It is not insignificant how the course implementations are planned. The actions and work of teaching staff are the cornerstones of the success of Innovation pedagogy. By instructing the learning processes well, we can ensure that the targets are achieved.



https://messi.turkuamk.fi/tyoalat/352/Asiakirjasto/Curriculum%20texts/Versatile%20assessment.pdf

Versatile and development-oriented assessment

In a competence-based curriculum, the evaluation focuses on competence and its development. With the selected evaluation methods and criteria, you can guide the learner's actions and learning. Versatile evaluation means that you use different evaluation methods and criteria in various ways. You can evaluate the learner's learning and working at the beginning of the evaluation process (diagnostic evaluation), during the learning (formative evaluation, process evaluation), at the end of learning (summative evaluation), and sometimes also in the period of time after the learning (delayed evaluation, evaluation of the permanence of the learning results). Versatile evaluation also means introducing different perspectives in the evaluation, which enables the use of external evaluation (for example, evaluation done by a teacher/instructor/employer), peer evaluation and self-evaluation.

Describe the evaluation of the competence goals as clearly and concretely as possible. The evaluation should be realistic and in line with the goals of the degree. The competence goals describe what the student can know after completing the studies. Target the evaluation at the student's competence in relation to the competence goals, thus that it is versatile (not just about learning results) and development-oriented (the student can evaluate his/her own competence and knows how to develop it).

According to innovation pedagogy, evaluation should support, instruct and empower the learner and be development-oriented. Development-oriented evaluation is based on humanism and the socio-constructivist view of learning. It uses e.g. a consulting approach and evaluation discussions. Self-evaluation is emphasized and the evaluation aims at reinforcing the learner's ability to self-evaluate.

The aim of innovation pedagogy is to produce innovation competencies in all university of applied sciences degrees in addition to field-specific competencies, and their development should also be evaluated. Innovation competencies cover the joint competencies defined by Areen (the Rectors' Conference of Finnish Universities of Applied Sciences) for university of applied sciences degrees. All degrees aim at innovation competencies and their evaluation mainly takes place in connection with the student's "Higher Education Studies and Working Life Skills" studies by utilizing the self-evaluation tool in SoLaOPS.

The development of innovation competencies however takes place in the studies, so take them into account in the contents of the studies and in the ways of implementing them. Attach to the goals and evaluation of studies especially the innovation competencies which can be naturally developed and evaluated in the studies you instruct. Agree together with the teachers who are in charge of the studies in the degree which innovation competencies are evaluated in which studies.

EXAMPLES

- Evaluate the development of competence in the studies.
- Describe the evaluation criteria clearly and transparently.
- You can describe the targeted competence and evaluation criteria on levels 1-3-5 or in another clear way thus that the student knows what the evaluation is based on.
- Use evaluation methods diversely and realistically. With the evaluation, encourage the student for self-evaluation and the development of his/her own competence.
- Discuss the evaluation with the students already at the beginning of the studies to gain mutual understanding.
- In the studies you instruct, attach the evaluation of the development of the selected innovation competencies.

Formal guidelines

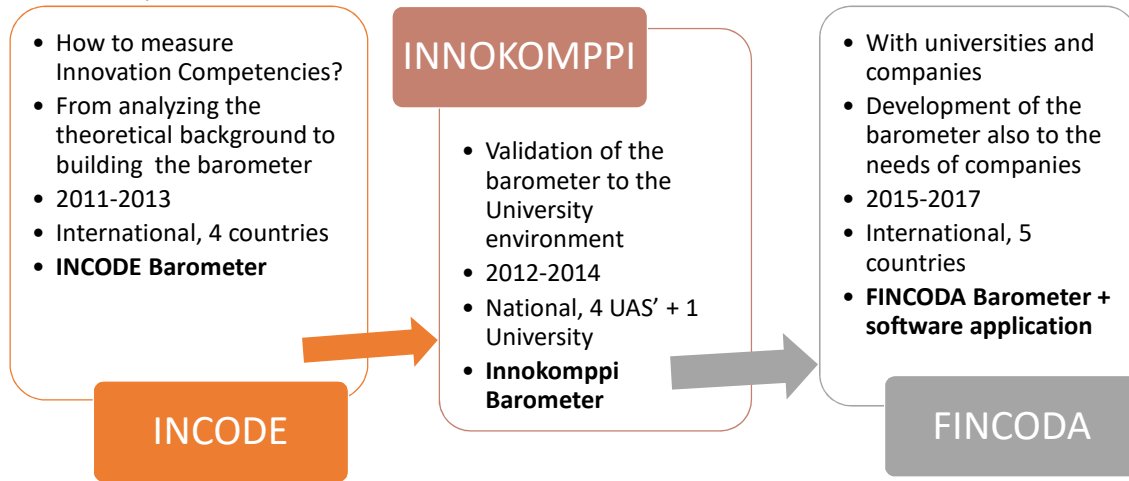
- Innopeda curriculum – for groups starting in autumn 2018
- Instructions for drafting the study plans
- Instructions for writing the module and course descriptions

The screenshot displays the InnopedaOPS website interface. The main content area features a mind map titled "Education for better life" centered around "INNOCENS". The mind map branches into various categories including "Innovation", "Entrepreneurship", "Education", "Research", "Development", "Innovation", "Entrepreneurship", "Education", "Research", "Development", "Innovation", "Entrepreneurship", "Education", "Research", "Development".

On the right side, there is a discussion forum titled "Kysy ja keskustele" (Ask and discuss). It shows a conversation between Paula Steinby and Sanna Simola. Paula Steinby asks: "What are you working on?" and Sanna Simola replies: "February 12 at 2:44pm LEMB159 byod".

At the bottom of the page, there is a footer that reads: "OPS-suunnittelun reunaehdot – nämä kaikki otettava huomioon OPS-suunnittelussa".

Developing the barometer for innovation competences



FINCODA Rater Training

<http://fincoda.langebuecher.de/>



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FINCODA Barometer

<http://fincoda.dc.turkuamk.fi/>

Israel
Griol
Barres



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@igriol

DISCIPLINED ENTREPRENEURSHIP



UNIVERSITAT
POLITECNICA
DE VALENCIA

Taraz Workshop
20-21 April 2018
INNOCENS



IDEASUPV

tu empresa empieza aquí



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ENTREPRENEURIAL
CULTURE

MENTORING

TRAINING



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SINCE 1992

Entrepreneurship Promotion Award
European Enterprise Awards 2009

SPACES

TEAM
BUILDING

teaⁿⁱerUP
find your team

ACCESS TO FUNDING

STARTUPS & SPINOFFS



3





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DIRECCIÓN DELEGADA DE EMPRENDIMIENTO Y EMPLEO

UPV Entrepreneurship Roadmap





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UPV Entrepreneurship Roadmap



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01

TRAINING



SCHOOLS

Training Sessions and Bootcamps:
Think, Day, Week and Campus



5





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tu empresa empieza aquí

UPV Entrepreneurship Roadmap



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02 SPACES



STARTUPV

Startup Private Offices
Coworking spaces
11 Open Spaces (1 per School)
Alcoy
Gandía





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tu empresa empieza aquí

UPV Entrepreneurship Roadmap



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DIRECCIÓN DELEGADA DE EMPRENDIMIENTO Y EMPLEO

03

BOOSTING



ACCELERATION

STARTUPV network of mentors

IDEAS-UPV Technicians

Advisors

Access to Funding





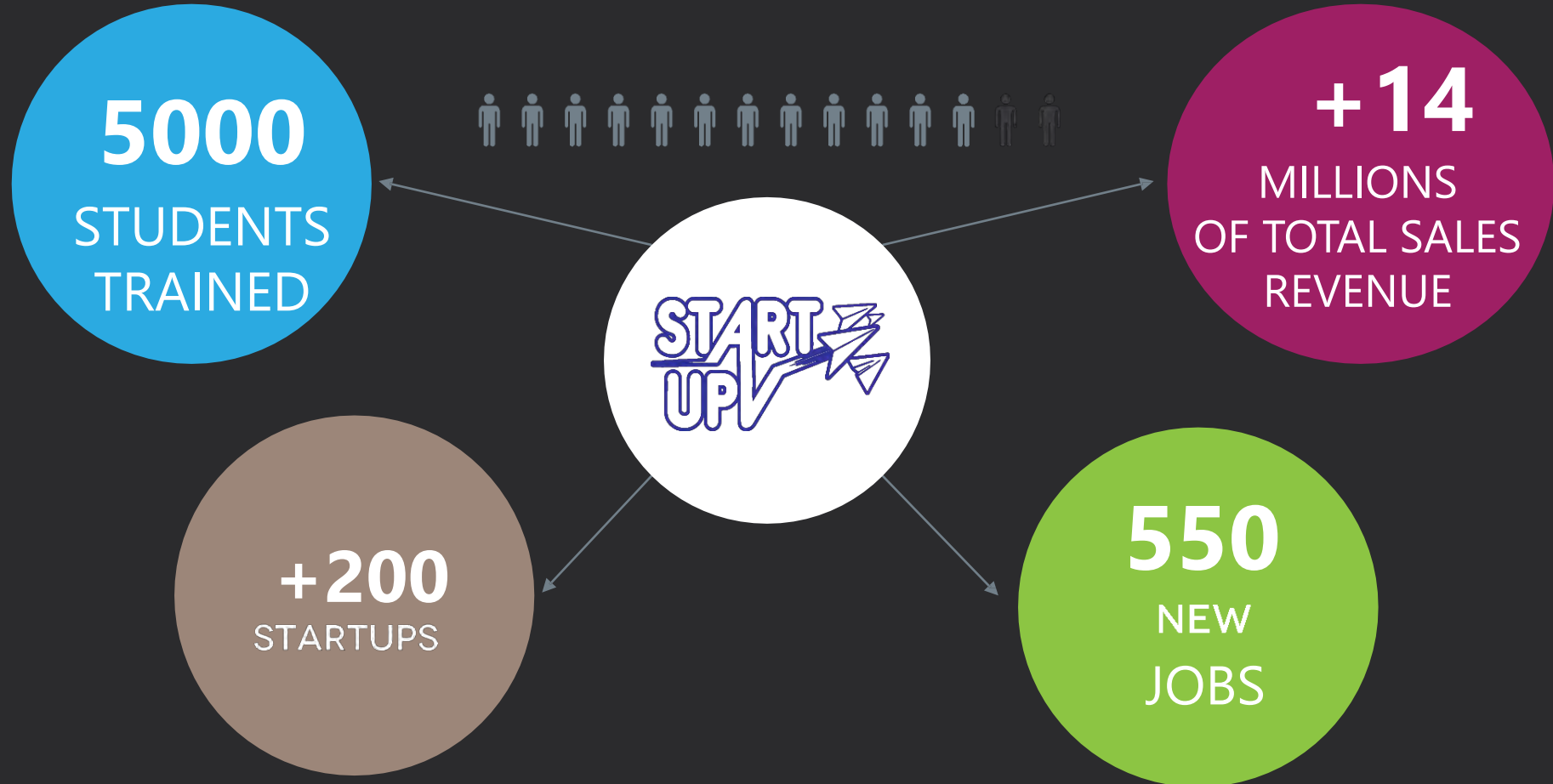
IDEASUPV
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STARTUPV in numbers



UNIVERSITAT
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DE VALÈNCIA

DIRECCIÓN DELEGADA DE EMPRENDIMIENTO Y EMPLEO





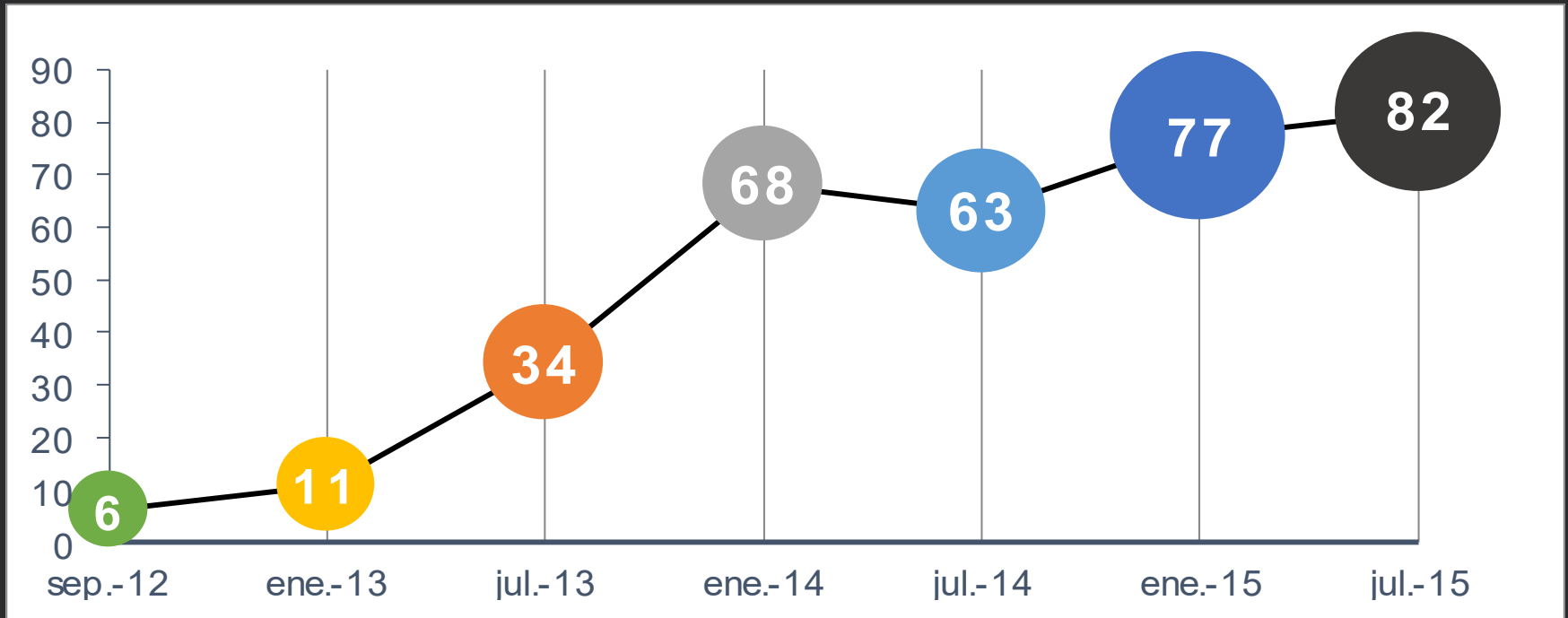
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STARTUPV in numbers



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DIRECCIÓN DELEGADA DE EMPRENDIMIENTO Y EMPLEO





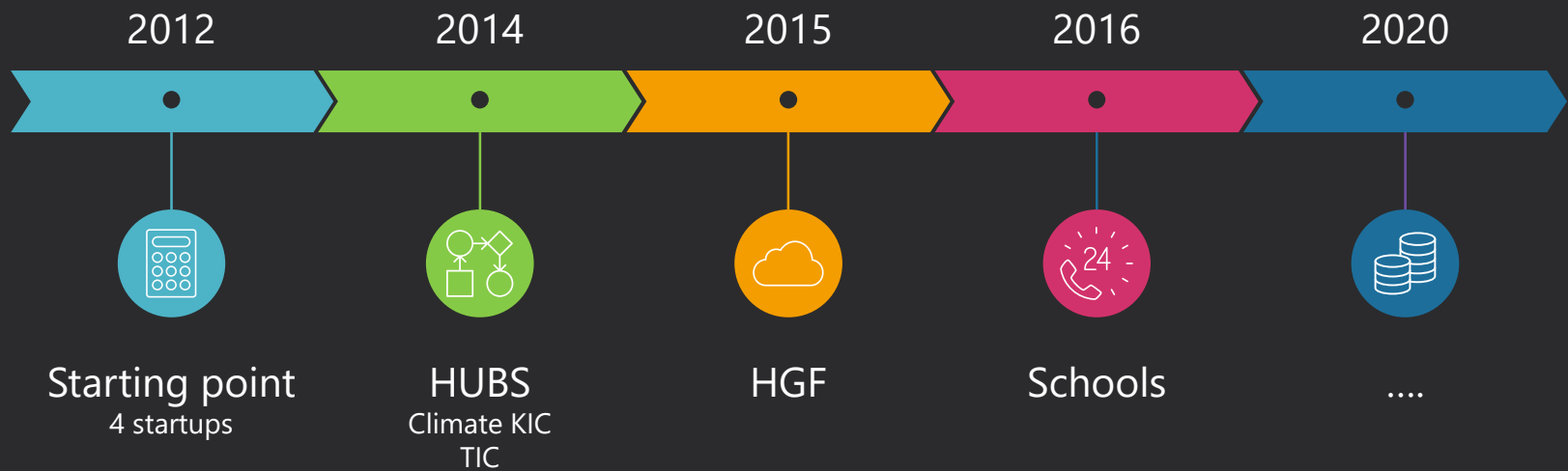
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Our history



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DIRECCIÓN DELEGADA DE EMPRENDIMIENTO Y EMPLEO





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DIRECCIÓN DELEGADA DE EMPRENDIMIENTO Y EMPLEO



14.658.877€

TOTAL INCOMES

5.228.116€

INVESTMENT

205
COMPANIES



11





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Products from STARTUPV



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DIRECCIÓN DELEGADA DE EMPRENDIMIENTO Y EMPLEO



Nub-e
Sistema móvil y autónomo de Defensa Contra Incendios Forestales

Pyro



Pyro

Closca



12





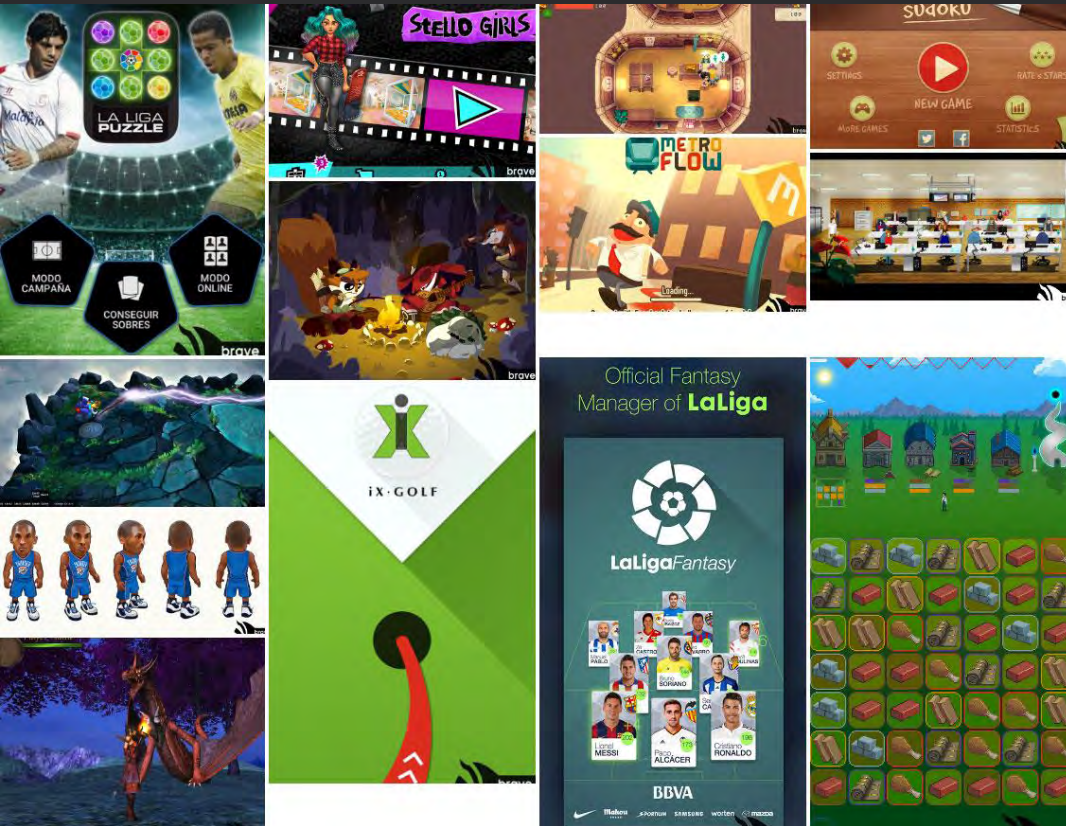
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tu empresa empieza aquí

Products from STARTUPV



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DIRECCIÓN DELEGADA DE EMPRENDIMIENTO Y EMPLEO



Wild Frame Media



Smile Hunter

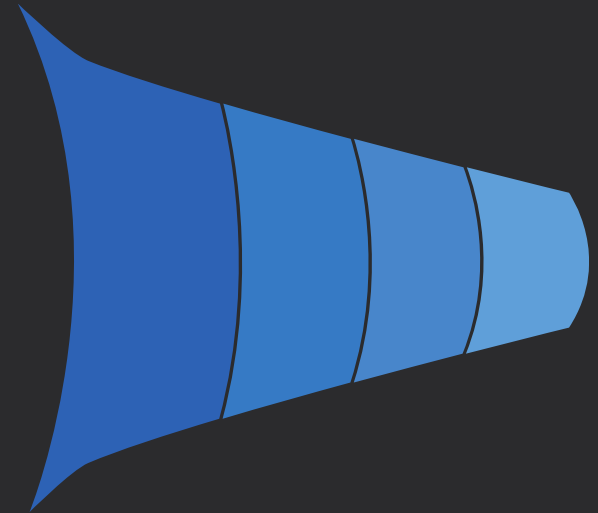


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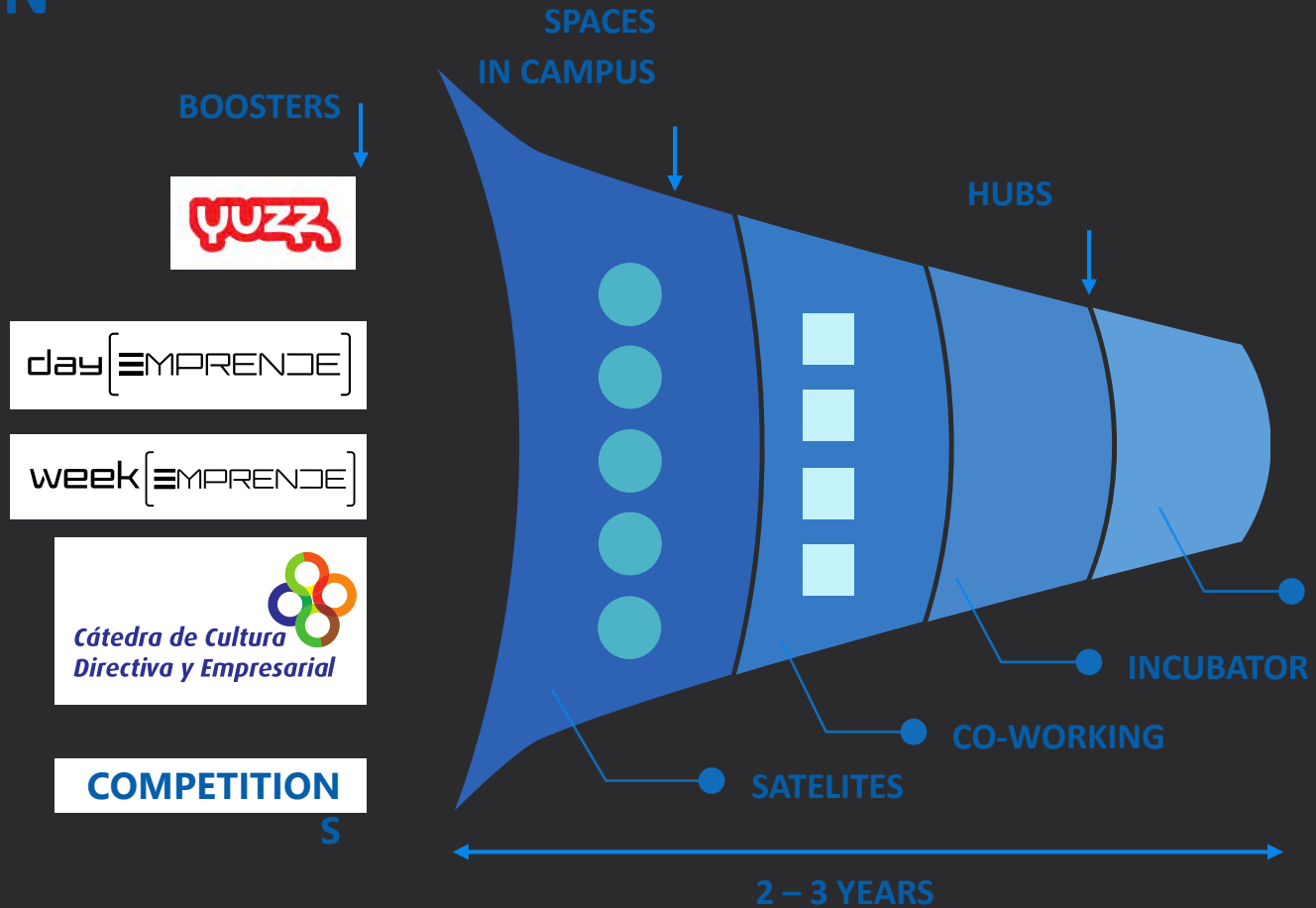
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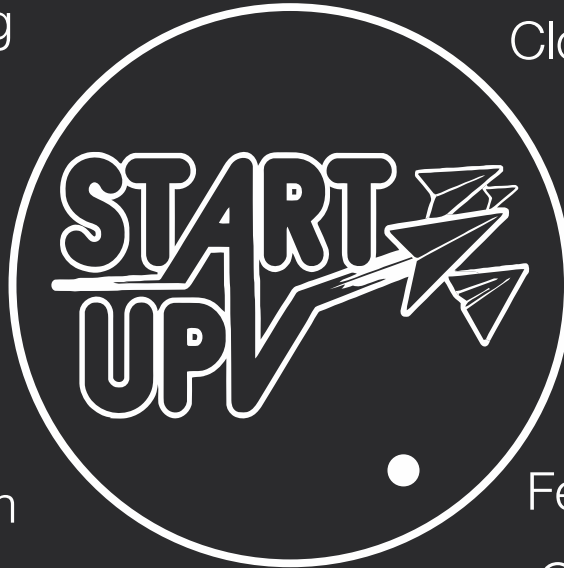
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EXECUTION



Audita Legacy BKS Mundoarti Shippeer Seo&Sem
Vitcord Geomodel Bicilink Tyris Software Wonderbits
Berroomers Peer To Park Nilgo Findme Kibi Toys
Witrac Sciling Pterodactive
Tendfy Carpe Via Pyro
No Spoon Tech Lab Consultoría 3.0
My Energy Map GAQ Wiquot
Wonka Center Training Experience
Tuvalum Fent Estudi Relendo
Miotech Hidrónico Biond Cruxflux Bemore 3D
Geteco Language & Sun Smile Hunter Textil Energy
Printable Withink Web Design Wild Frame Media Yeeply



AGENDA

1. Successful Startups
2. Ideas
3. Startups?
4. Why be entrepreneurs?
5. Deals
6. Business Models
7. Business Model Canvas & Lean Canvas
8. Customer segments
9. Value Proposition
10. Channels
11. Revenue Streams, Cost Structure, Metrics
12. Competitive Advantage
13. MVPs
14. Validating Business Models
15. Teams
16. Elevator Pitch
17. Startup Fundraising

SUCCESSFUL STARTUPS

So what makes for a
successful start-up?

Start with a
brilliant
founder
like...

Mike, 34
Stanford
Alumnus



he used to be an...

Experienced Exec



All his
operating
experience
built up
some...

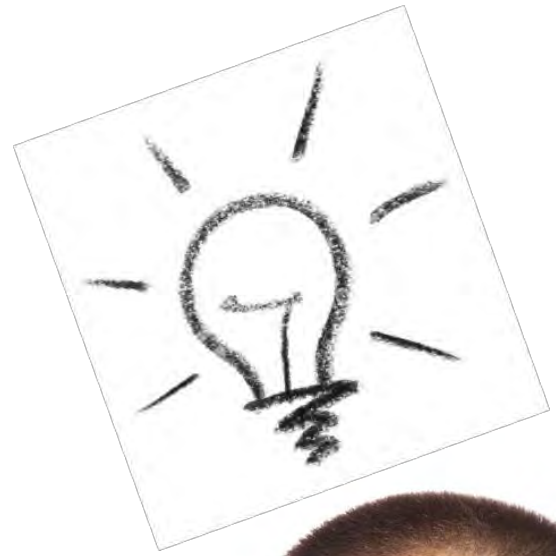
Major Accomplishments

-
-
-

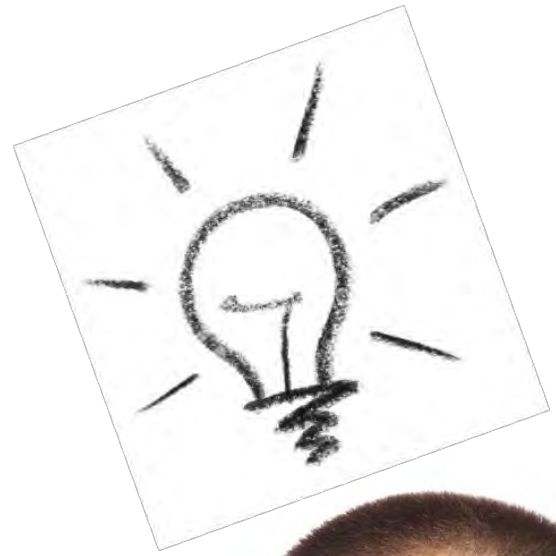
...outstanding
credentials!

One day Mike has...

A “killer”
product
idea!



A “killer”
product idea!
he’s really
passionate
about it



Mike's experienced.

He knows how to
test his idea using...



...market
research

The research looks
good!

Mike moves
forward, and writes
a fantastic....

Business Plan



Great!

Based on the

credentials,

research, and plan,

Mike has secured
the final piece...



...VC Funding!

Money in hand,
Mike get's started on

A silhouette of a construction site at sunset. In the background, a large tower crane stands against a bright orange and yellow sky. In the foreground, several construction workers are silhouetted against the same sky, working on a structure. One worker on the left is walking and carrying a long pole. Other workers are bent over, working on the structure. The overall scene is a metaphor for building a start-up.

...building his
start-up.

He makes the
headlines of
every major...



BUSINESS

... and he is
invited to give...

...keynote
talks





**Mike and his
start-up are
on a roll!**

How likely is
his business
to succeed?

- Despite the experience, research and plan...



...Mike
slipped up.

Let's help
Mike with the
things he
didn't know.

1

*No business
plan survives
the first
customer
contact.*

Sticking to a
planning document
works for a known
future, not for a
start-up context.



IDEAS

IS IT POSSIBLE TO LEARN HOW TO BECOME ENTREPRENEURS?



EVERYTHING STARTS WITH...

EVERYTHING STARTS WITH...





**What is the
value of an
idea?**

WHERE CAN I FIND IDEAS?



SPRINGWISE

<http://www.springwise.com>

The screenshot shows the Springwise website in a web browser. The browser's address bar displays www.springwise.com. The page features a purple navigation bar with links: HOME, IDEA DATABASE, NEWSLETTER, TIP US, ABOUT, and ADVERTISE. A search bar is located on the right side of the navigation bar. Below the navigation bar, the main content area includes the Springwise logo with the tagline "YOUR ESSENTIAL FIX OF ENTREPRENEURIAL IDEAS". A large banner for "sproutsocial SOCIAL MEDIA PUBLISHING" is visible. The main content is divided into several sections: "TOURISM & TRAVEL" featuring a map and a headline "Fliers with spare luggage allowance paired with those who are short of space"; "UPDATES" featuring a large eye graphic and the text "Springwise Updates"; "WISE WORDS" featuring a photo of Alejandro Velez and Nikhil Arora; and a "Sign up for free" section with a form to enter an email. The footer includes social media icons for RSS, Facebook, Twitter, and Tumblr, and the text "FOLLOW SPRINGWISE:".

Springwise

www.springwise.com

Esta página está escrita en Inglés ¿Quieres traducirla? Traducir No Configuración

HOME IDEA DATABASE NEWSLETTER TIP US ABOUT ADVERTISE Search Springwise

springwise.com
YOUR ESSENTIAL FIX OF ENTREPRENEURIAL IDEAS

sproutsocial
SOCIAL MEDIA PUBLISHING

TOURISM & TRAVEL

Plan Editar

Voyage Paris il y a 6 jours gratuit
Istanbul
Marseille il y a 7 jours 20 €
Milan il y a 7 jours 40 €
il y a 8 jours

Fliers with spare luggage allowance paired with those who are short of space

20th March. As people continue to forge new connections online, it's no longer necessary to rely on friends when it comes to asking a favor, as sites such as PleaseBringMe.com have already shown. Now Jib.li is a new platform that enables travelers to find others who have luggage space available and are ...

Read More

Tweet 52

Share

+1 0

UPDATES

What is Springwise?

Helped by a network of 15,000 spotters, Springwise editors scan the globe for smart new business ideas, delivering instant inspiration to entrepreneurial minds.

Time to start the next big thing!

Springwise Updates

WISE WORDS

Alejandro Velez and Nikhil Arora

Sign up for free

Join 150,000 others: Sign up for our daily or weekly newsletters so you won't miss the latest and greatest

Enter your email GO


We will never share your email with others.

FOLLOW SPRINGWISE:


Platform analyzes tweets to

SPRINGWISE



 **28th June.** Train journeys can be boring if travelers forget to bring along something to do. While the Catalan Government Railways has opted for QR code book chapters to keep its customers entertained, Czech Republic-based transport operator Ropid now wants to introduce singles-only carriages to help travelers to meet potential partners on ...

[Read More](#) ➔

 [Tweet](#)

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 [+1](#)  9

COOL BUSINESS IDEAS

<http://www.coolbusinessideas.com/>

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www.coolbusinessideas.com

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Energy Generating Soccer Ball

March 20th, 2013

Like Send Be the first of your friends to like this.



A few years ago we introduced **SOCCKET**, an energy generating soccer ball that can provide light for children in developing nations. "Much more than a normal soccer ball, the SOCCKET is a portable generator that provides fun and power to those who play with it." The invention has

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- ★ Business Opportunity Blog
- ★ Credit Card Processing
- ★ Turn your Paycheck into Cash
- ★ Get your website here

Easy App business

COOL BUSINESS IDEAS

<http://www.coolbusinessideas.com/>

17 Jun
2015



CLEANS ROAD; CLEANS AIR

By [Steven Teo](#) On 17 June 2015 In [Society & Environment](#)

Empa, ETH Zürich and Bucher Municipal have developed a hybrid-electric powertrain for road sweepers that's said to consume half the energy of diesel-hydraulic vehicles and reduce emissions by more than 60 percent. The design replaces conventional hydraulic

0 Comments

THE SHOE THAT GROWS

By [Steven Teo](#) On 16 June 2015 In [Society & Environment](#)

[Like](#) [Share](#) 4 people like this. Be the first of your friends.



TRENDWATCHING

<http://trendwatching.com/>

LATEST REGIONAL TREND BULLETINS



Asia



f 66 t 163 in 182

MARCH 2015

POST-DEMOGRAPHIC CONSUMERISM IN ASIA

In 2015, Asia evolves beyond the old demographic models of consumer behavior.

READ NOW



South & Central America



f 13 t 88 in 45

MAY 2015

TRANSPARENCY TRIUMPH

TRANSPARENCY TRIUMPH

READ NOW



Africa



f 21 t 104 in 71

MARCH 2015

CANDID CONSUMPTION

Why in 2015, institutions and brands will undergo the African inquisition, as increasingly curious consumers across the continent demand total transparency and information.

READ NOW



QUIRKY

<http://www.quirky.com/>



Invent

Community

Partners

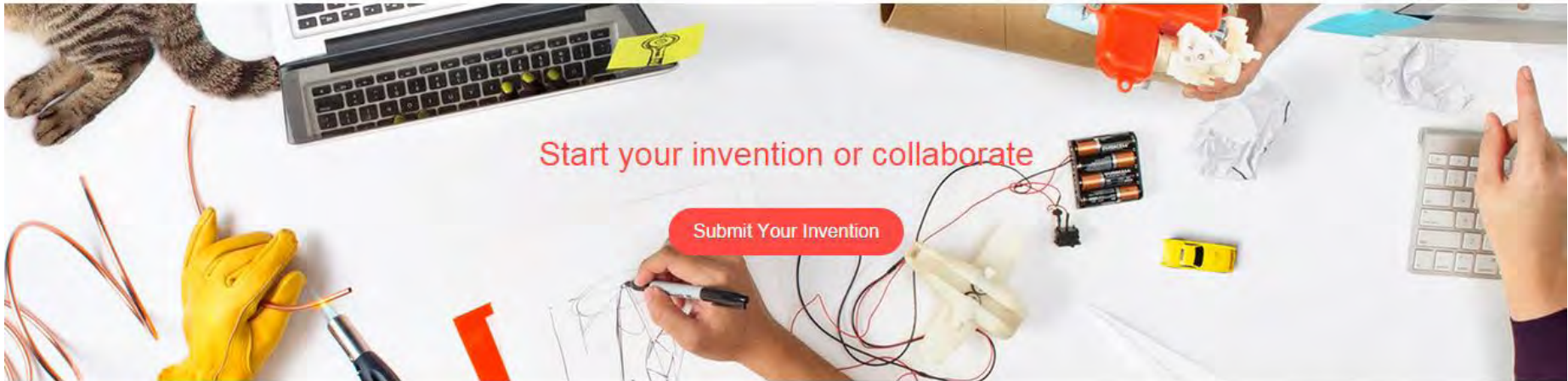
News

Eval

TUNE IN

Sign In

Sign Up



In Progress

In Eval Queue

Scheduled For Eval

In Development

Launched

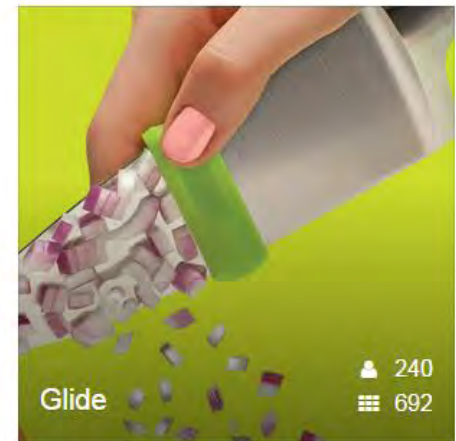
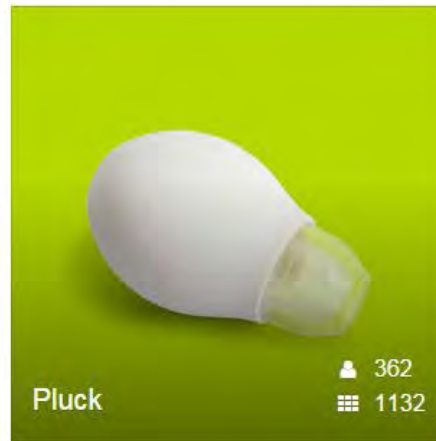
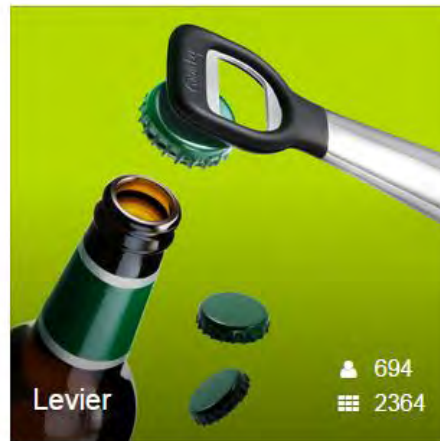
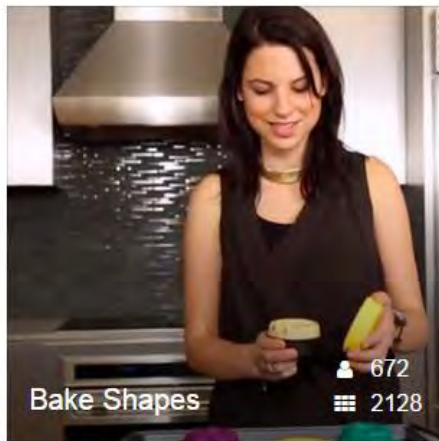
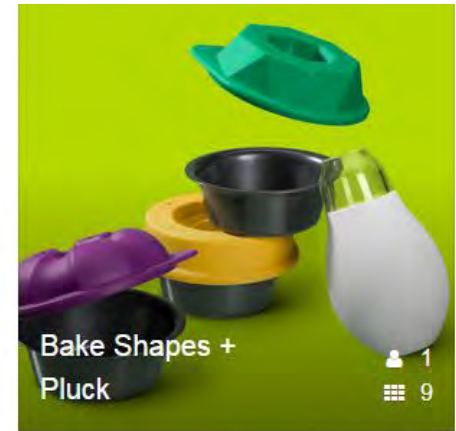
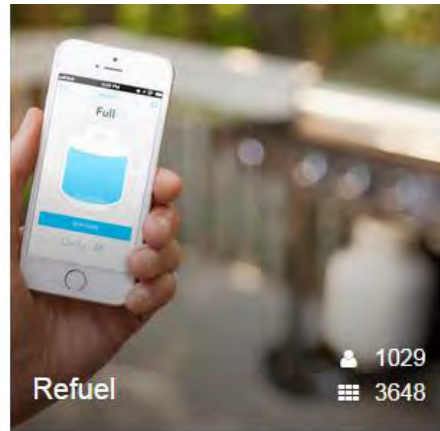
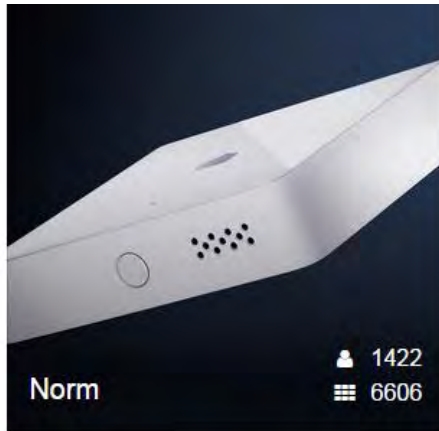
Launched

All Categories

<https://www.youtube.com/watch?v=jogQT7ijlA8>

QUIRKY

<http://www.quirky.com/>



QUIRKY

<http://www.quirky.com/>

Refuel

Smart propane tank gauge

Overview

Specs

Nothing puts the kibosh on a cookout faster than an empty propane tank. With Refuel, you'll never get caught off guard by said BBQ bummer again. This super smart propane tank gauge connects to the Wink app on your mobile device so no matter where you are, you'll always know when it's time to refuel.

INVENTED BY



anthony reddington
boston ma



<http://www.quirky.com/invent/279872>

<http://www.quirky.com/invent/244070>

CROWDFUNDING

KICKSTARTER

<https://www.kickstarter.com/projects/2101519704/oval-the-first-digital-handpan?ref=card>



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Contamos con una comunidad de 270.000 usuarios registrados.

 Medio Ambiente



Tajo.O

Por Red del Tajo

El Tajo ha dejado de ser río. Ayúdanos a combatir en los Tribunales la desidia e iniquidad de su gestión y planificación. El Tajo se ahoga.

4655 €

de 6000 €

 **77% RECAUDADO**
14 días para terminar

CONCLUSIONS

- Ideas have no value
- Ideas are free
- People will help you to transform your idea into something valuable
- There are only two kinds of people:
 - Who give excuses.
 - Entrepreneurs.

STARTUPS?

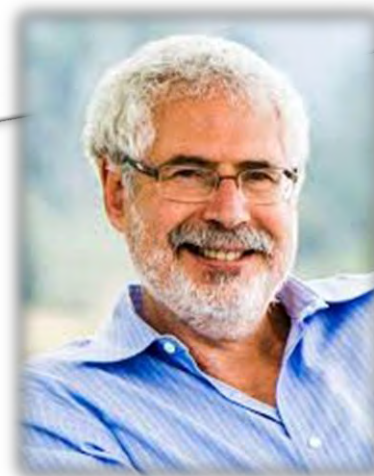
A startup is not a small company.



So, what's a
startup?



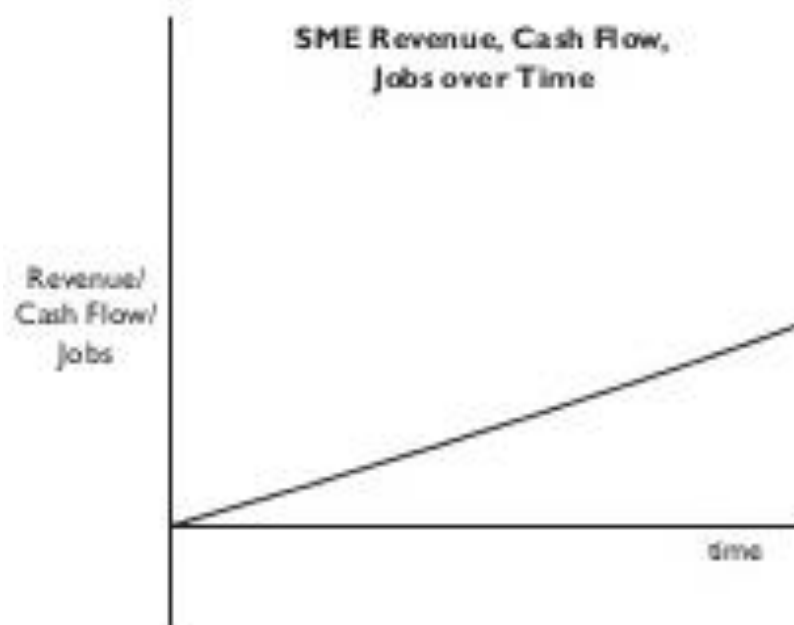
“ A TEMPORARY ORGANIZATION
DESIGNED TO SEARCH FOR A
REPEATABLE AND SCALABLE
BUSINESS MODEL ”



Steve Blank

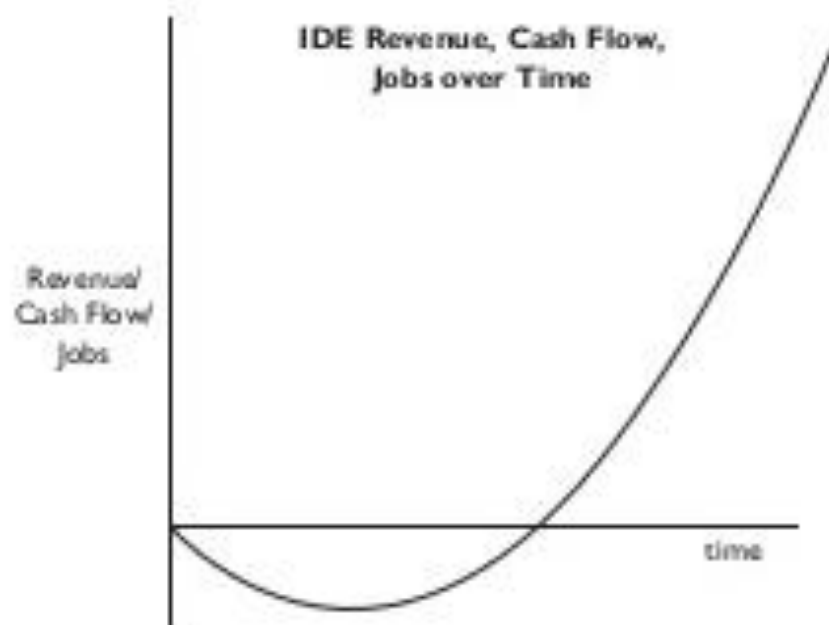
SME Entrepreneurship

The company grows at a linear rate. When you put money into the company, the system (revenue, cash flow, jobs, etc.) will respond quickly in a positive manner.



IDE Entrepreneurship

The company starts by losing money, but will have exponential growth. Requires investment. When you put money into the company, the revenue/ cash flow/ jobs numbers do not respond quickly.



Source: Bill Aulet and Fiona Murray, "A Tale of Two Entrepreneurs: Understanding Differences in the Types of Entrepreneurship in the Economy," Martin Trust Center for MIT Entrepreneurship, November 2012. http://entrepreneurship.mit.edu/sites/default/files/AuletMurray_IIDExSM.pdf

“A startup is a human institution designed to create a new product or service under conditions of extreme uncertainty.”



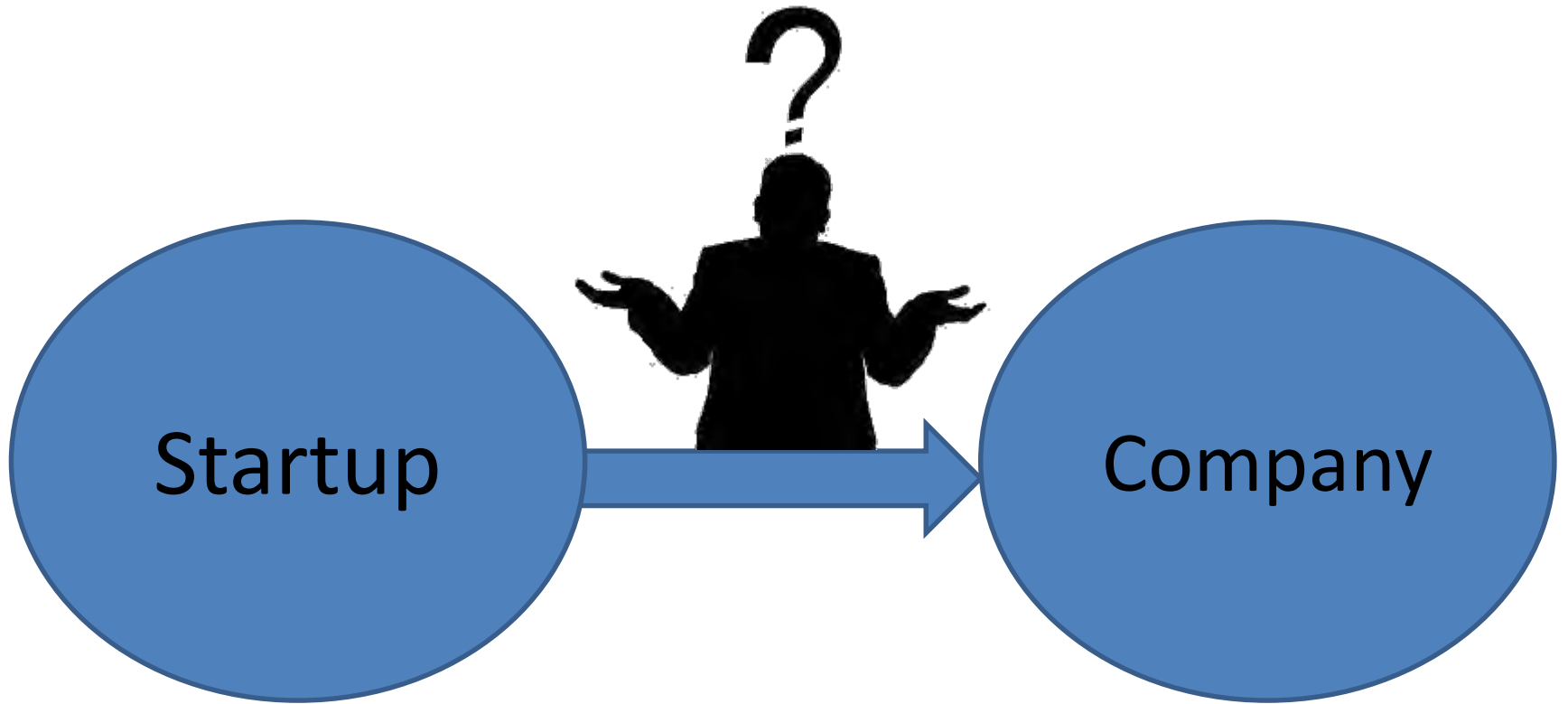
Eric Ries

Startup VS Company



A **Startup** **looks for** a
business model

A **Company** **executes** a
business model



What is the main goal of a startup?

What is the main goal of a
startup?

TO STOP BEING A STARTUP...

What is the main goal of a startup?

*TO STOP BEING A STARTUP...
... AND TO BECOME A SUCCESSFUL COMPANY*





NOKIA



ANDROID

NETFLIX

NOKIA



NOKIA





NOKIA





NOKIA



Spotify





NOKIA



Spotify



zipcar.



ANDROID



NOKIA



Spotify



zipcar.



NOKIA



zipcar.





ANDROID



NOKIA



Spotify



zipcar.

Telefonica





NOKIA



Spotify



zipcar.



Telefonica



Bla Bla Car

Vlaja en coche compartido



ANDROID

NETFLIX

NOKIA

BLOCKBUSTER

Madrid Rock



Spotify

AVIS



zipcar.

Telefonica

ALSA



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NOKIA



Spotify



UBER



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NOKIA



Gillette™



UBER



Hilton



zipcar.

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ALSA



airbnb



Bla Bla Car

Vlaja en coche compartido

What do you like?

Dislike?

FINANCE • VENTURE CAPITAL

Unilever Buys Dollar Shave Club for \$1 Billion



BLADES BUNDLES



THE HUMBLE TWIN

EVERY MONTH **\$1** 12.99 FULL



11.5K Reviews

SELECT

Just basic shaver, for guys who dig simplicity and precision.

✓ 2 stainless steel blades

✓ 3 cartridges per month

THE 4X

EVERY MONTH **\$6** 59.99 FULL



16.1K Reviews

SELECT

A more advanced all around shaver that gets right down to business.

✓ 4 stainless steel blades

✓ 4 cartridges per month

THE EXECUTIVE

EVERY MONTH **\$9** 89.99 FULL



15.4K Reviews

SELECT

The final frontier - it's like a personal assistant for your face.

✓ 6 stainless steel blades

✓ 4 cartridges per month

You May Like

Bolero Pack Variado
Passion 12 sobres x 9 g

by BULEVIP | Sponsored

Kristen Wiig Buys Historic
Mid-Century House for
\$2.96 Million

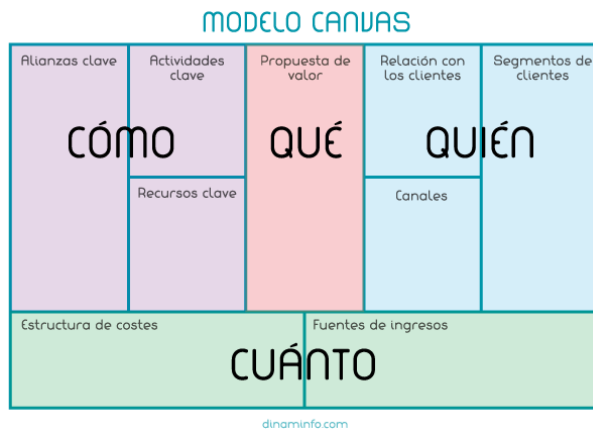
by Mansion Global | Sponsored

NBC Should've Seen the
Megyn Kelly Trainwreck
Coming

by Fortune

OUR GOAL

BUSINESS MODEL → VALIDATION → MILESTONES



**WHY BE
ENTREPRENEURS?**

Why do a start-up?



Why do a start-up?

- Change the world?
- Get filthy rich?
- Want to be in control?



What is your Founder's Dream?

- What do you want to achieve?
 - *put a number to it*
- And when?
 - *and a date*

Why do start-ups fail?

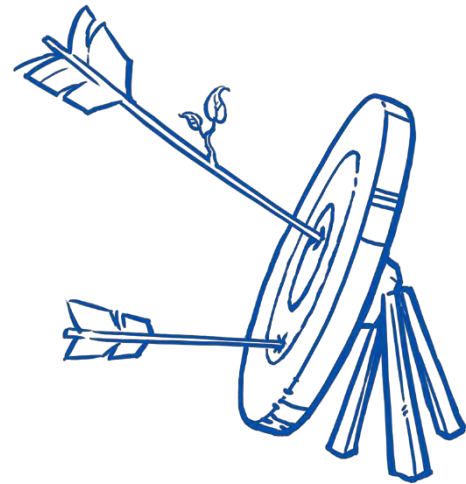


65% of start-up failures are
related to team issues

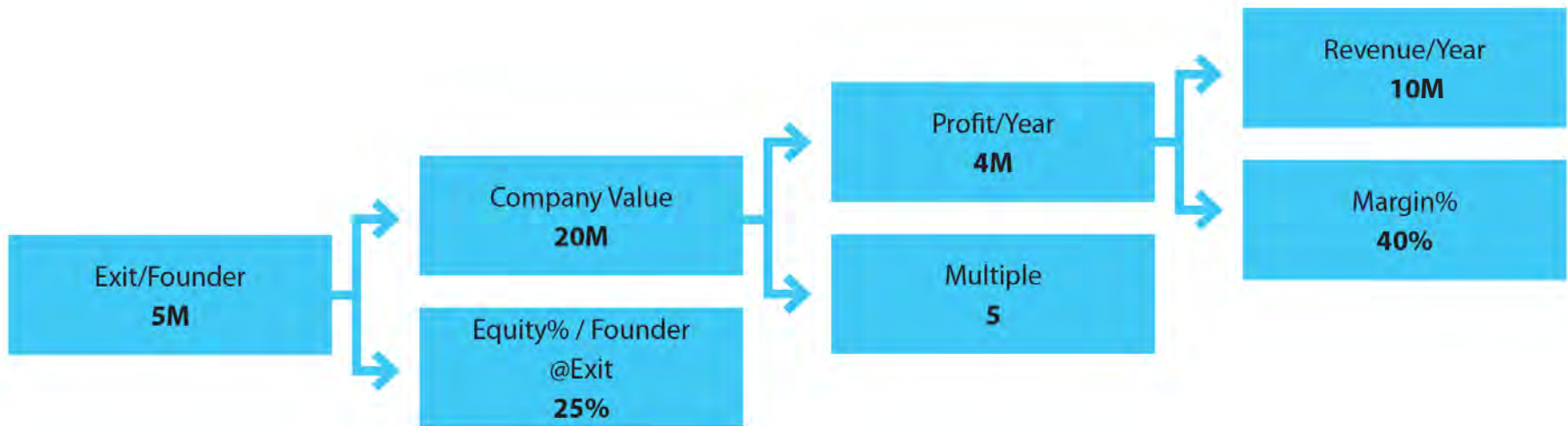
Noam Wasserman, “Founder’s Dilemmas”

Dreams translate to revenue target

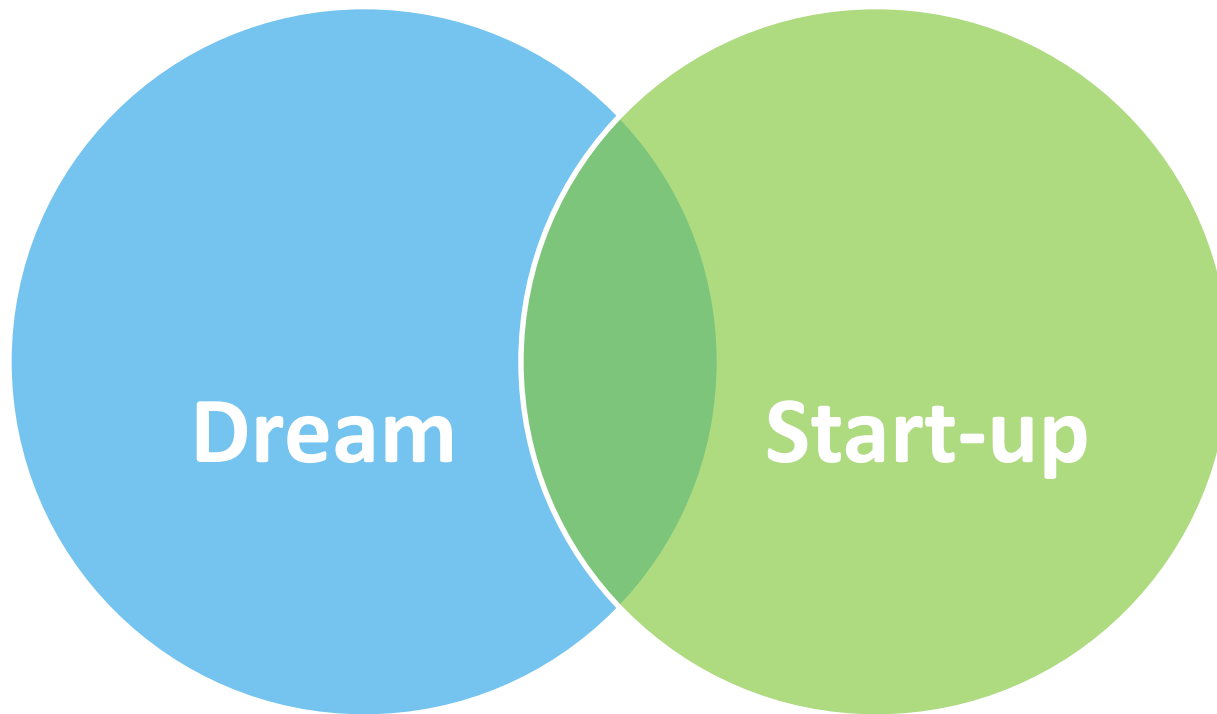
- Impact means you sell 10.000's of products per year
- Getting rich also means getting big revenues



Example



Does your start-up deliver on dream?



To Do



- Think up start-up that delivers on everyone's targets



- Founders can have different targets: One wants to have impact, other wants to get rich

- BUT AT THE END → COMMON REVENUE TARGET

To Don't



Lower dream



Ignore dream



Change dream

DEALS



I'm so glad we all agree

ONCE I HAVE AN IDEA...



THE RACE STARTS

The Deal

The Deal is a sentence with four elements:

- **The start-up:** that's you
- **The customer:** the one you're selling to
(either business or consumer)
- 📦 **The product:** what you're selling
- 💰 **The price:** what the customer pays you in return



B2C or B2B?

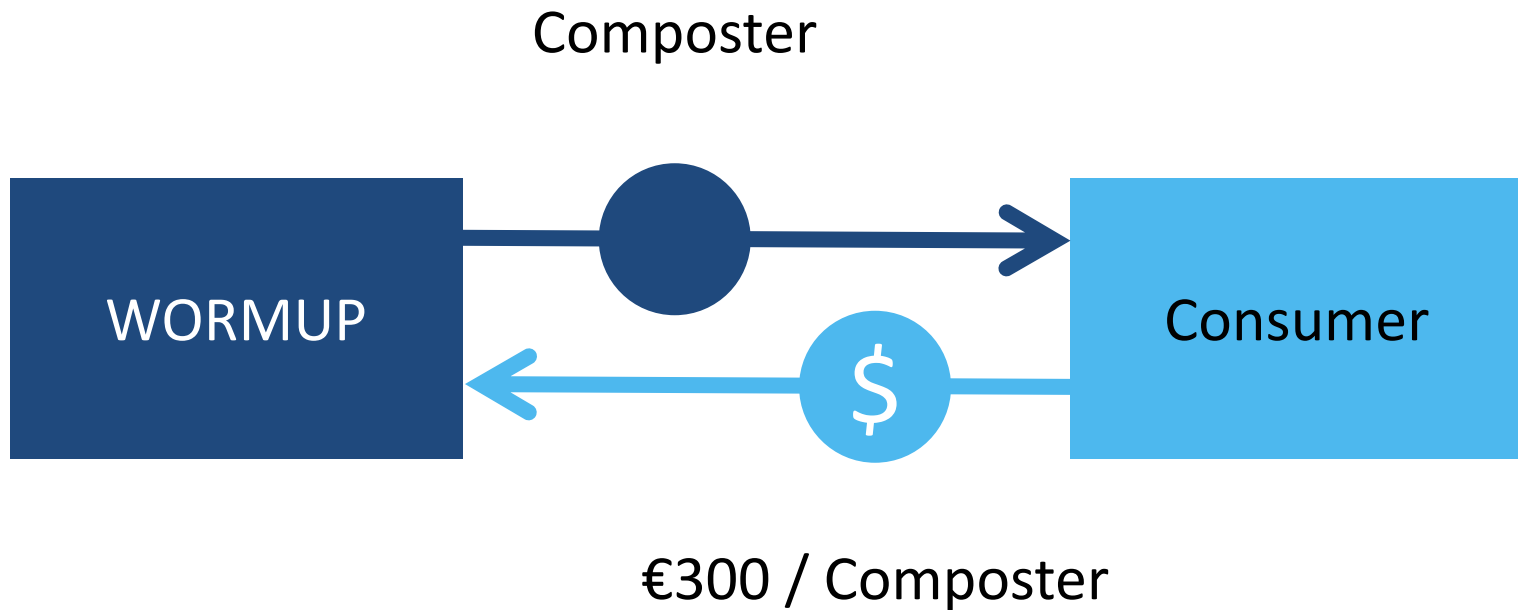


Product or Service?

- Product: you sell ownership of something
- Service: you sell use of something for a certain period of time

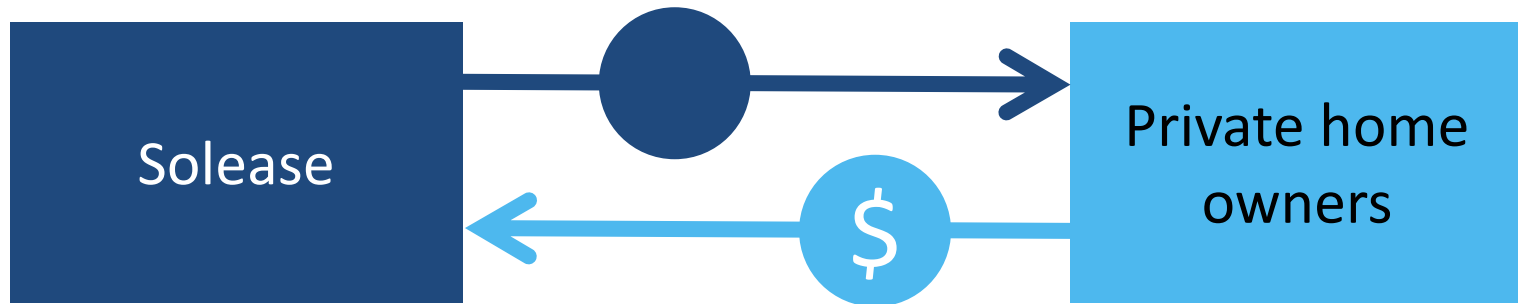


Example: B2C Product



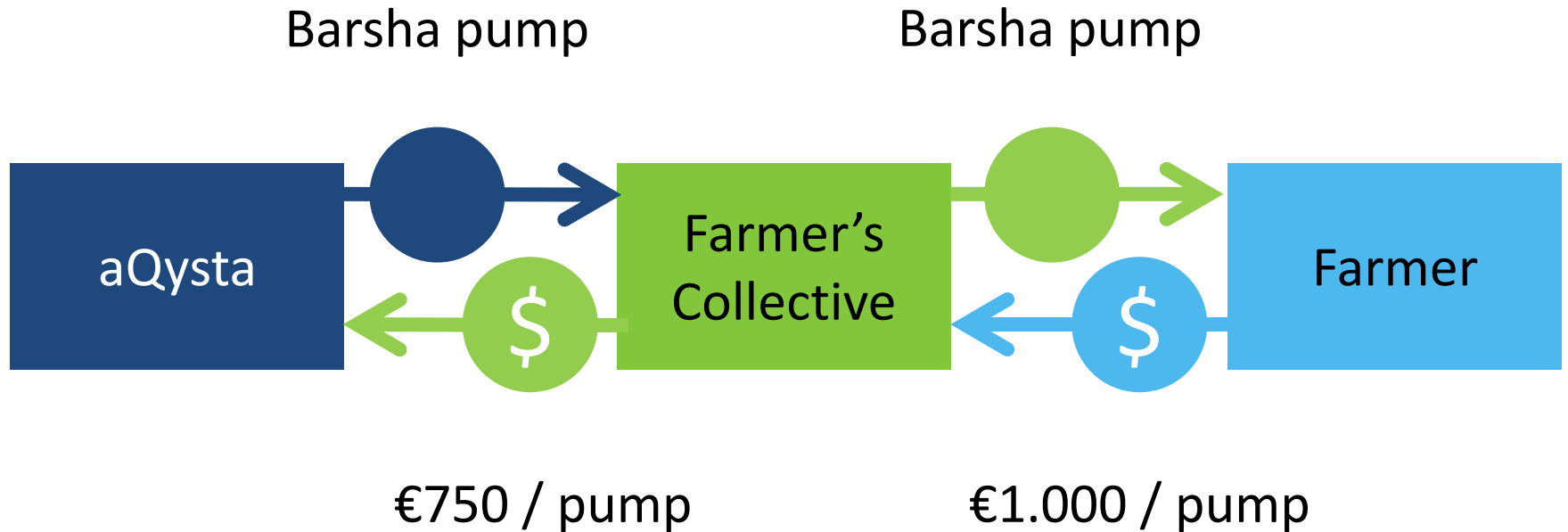
Example: B2C Service

Rental Solar Panels

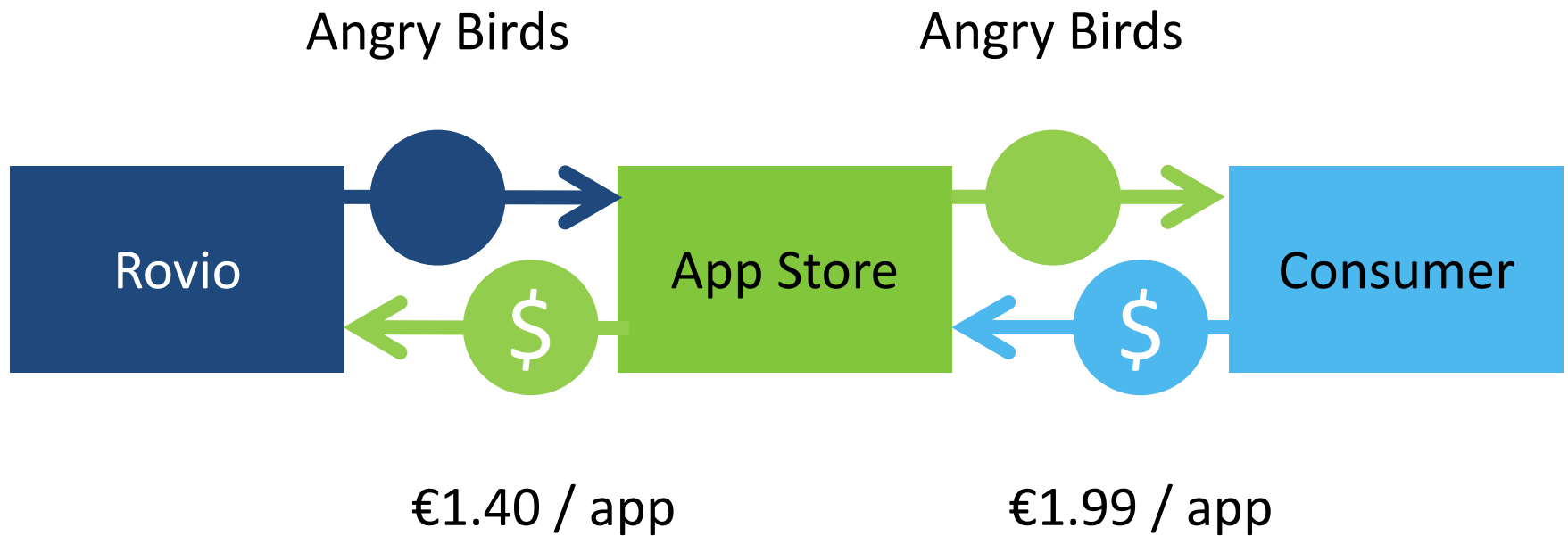


€55 / Month

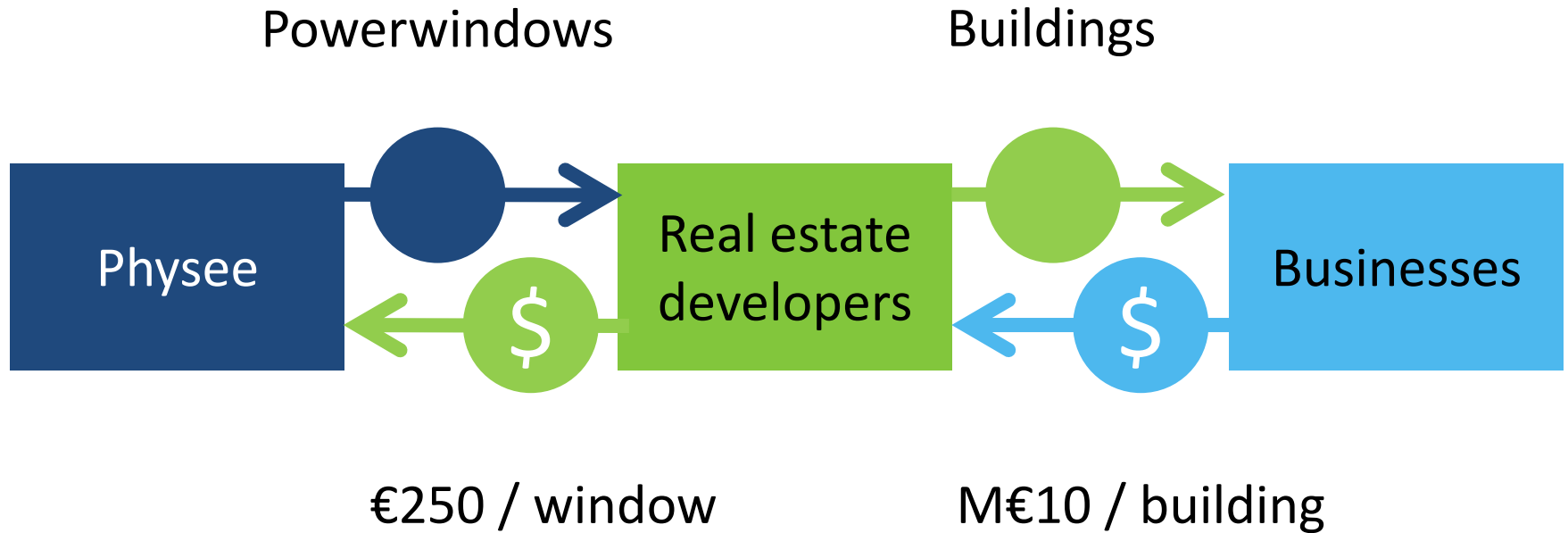
Example: B2B Product



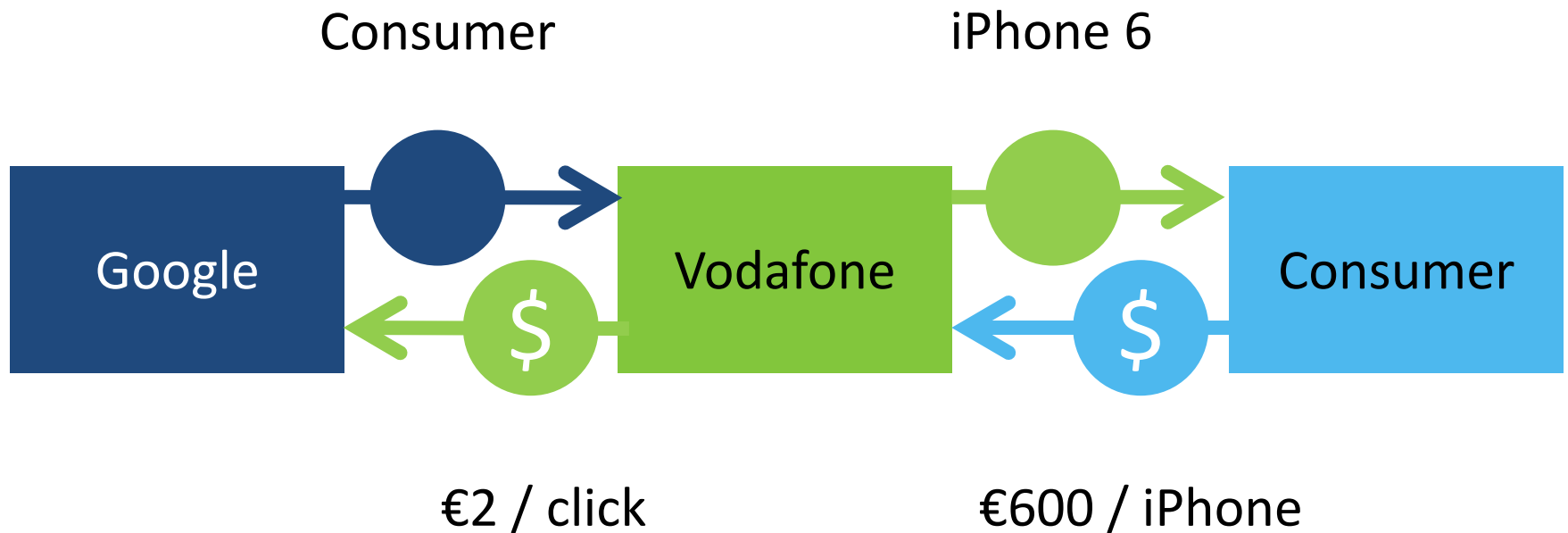
Example: B2B Product



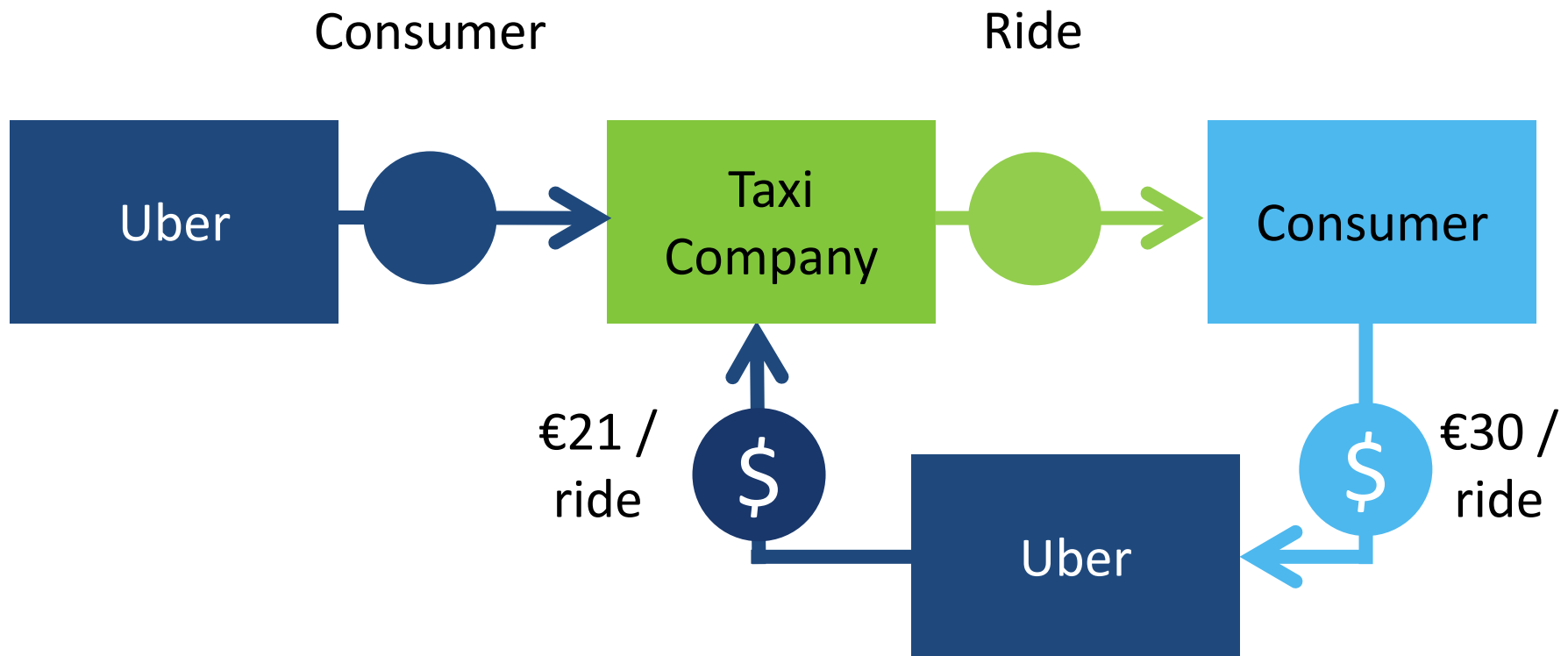
Example: B2B Product



Example: Product is a Customer



Deal if you sell a customer, and
customer's payment goes through you



DEAL



FARO

Plastic recycling micro factory franchise



200 euro/month



Climate
Launchpad



Deal

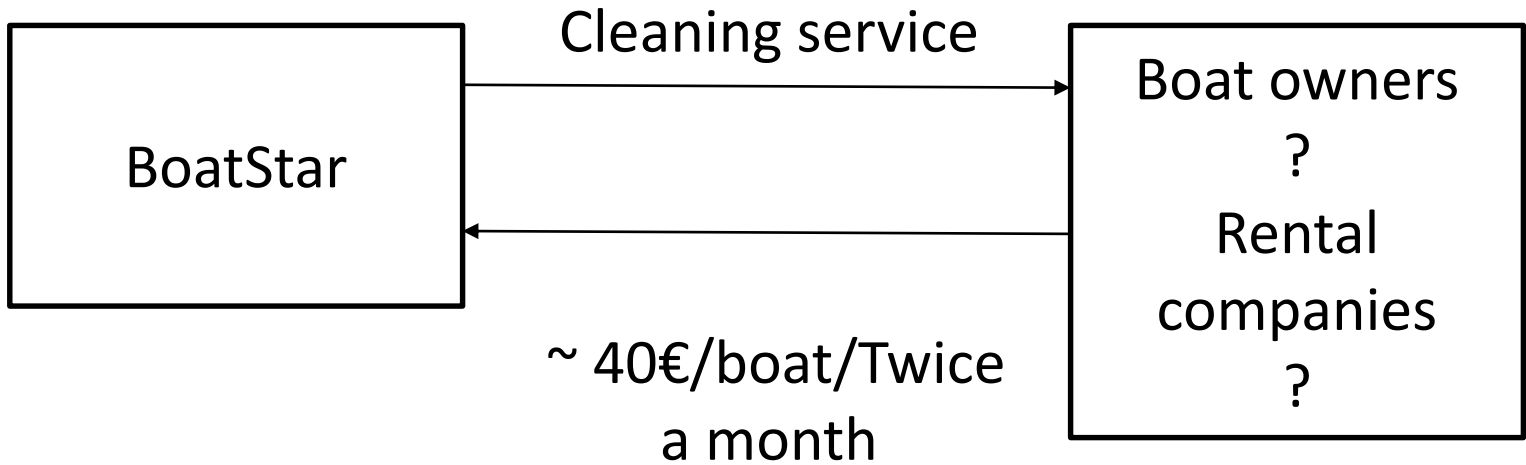


Ice repelling
coating

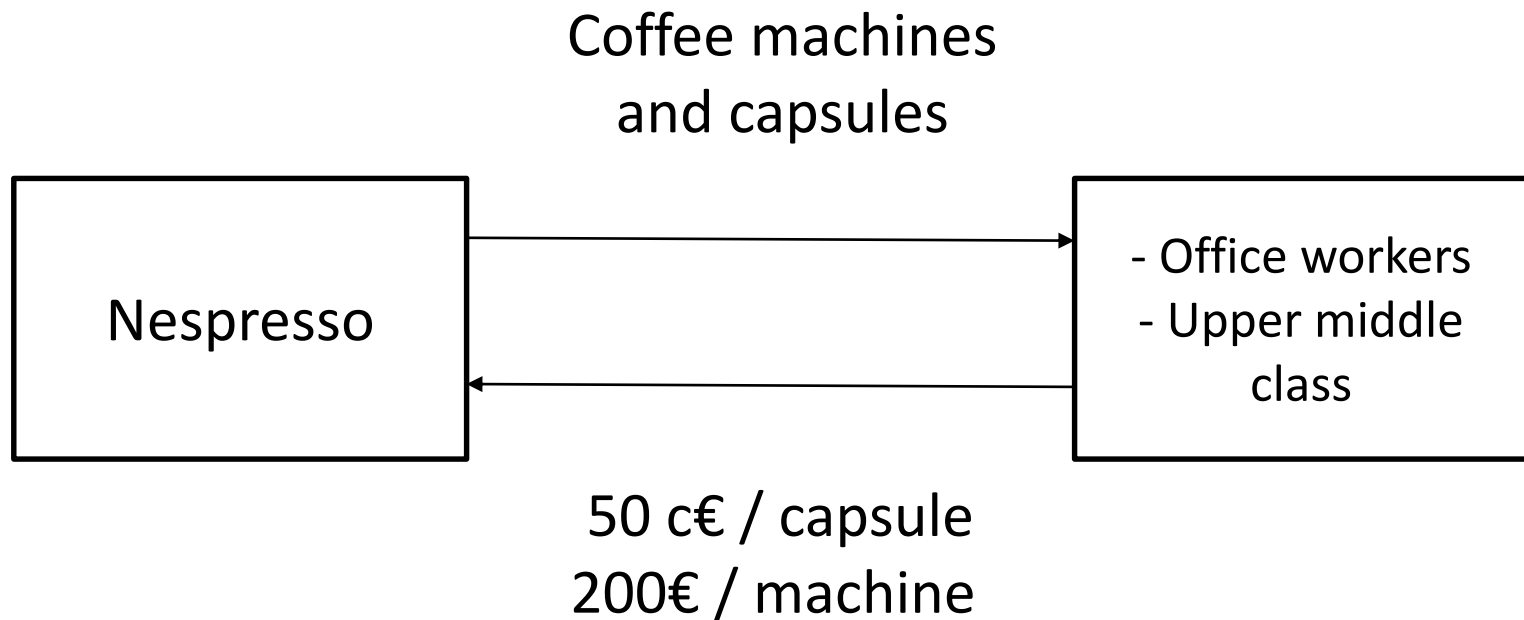
\$800/can - 10 L
(1000 m²)



Aviation
industry



B2C / Hook and Bait



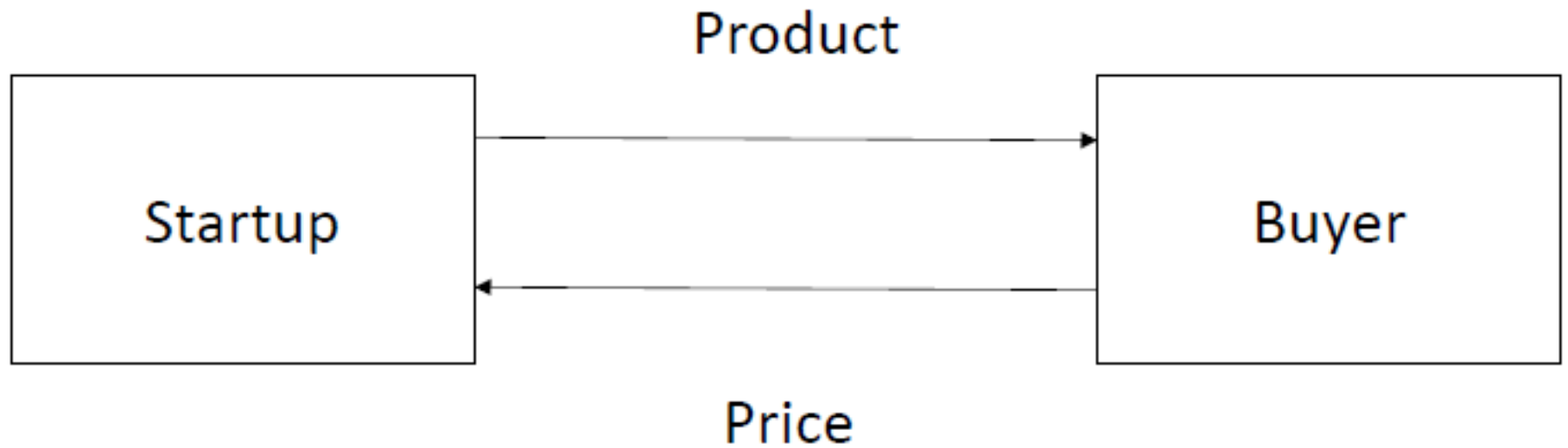
Exercise (20 min)

Draw your Deal

- What do you sell,
- To whom,
- At what price

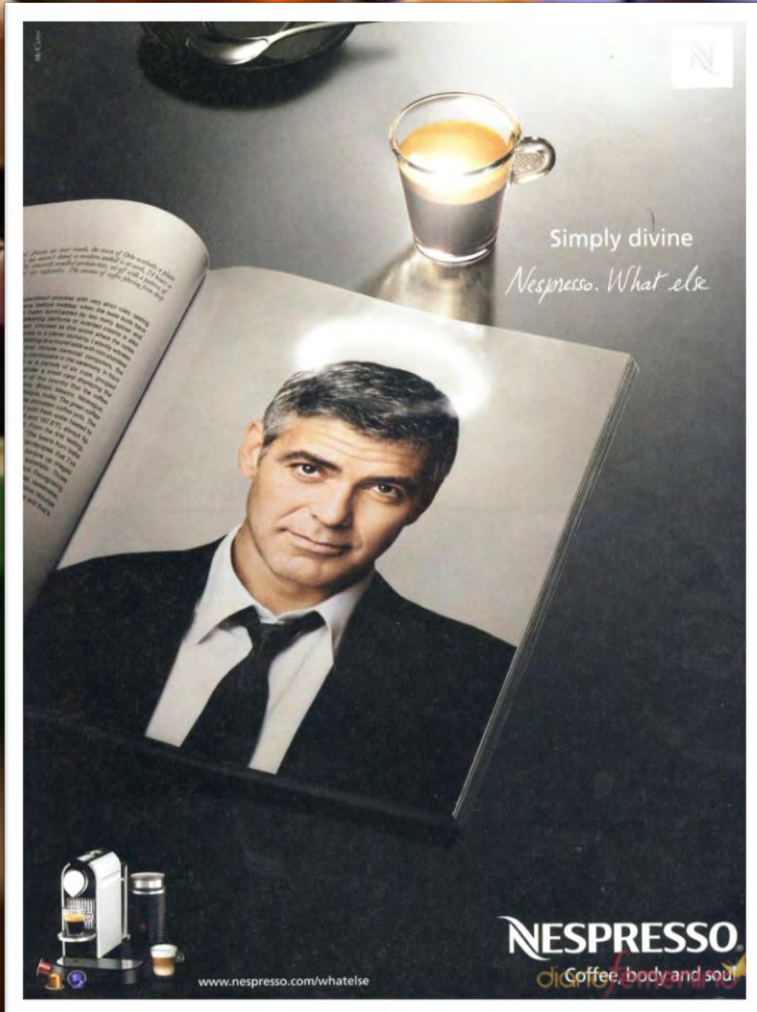


The Deal



BUSINESS MODELS

Bait & Hook



A Nespresso advertisement featuring a black and white portrait of George Clooney in a suit and tie, looking directly at the camera. The portrait is set within a dark, rectangular frame that resembles a book or a tablet. Above the portrait, a small glass cup of coffee sits on a dark surface. The text "Simply divine" and "Nespresso. What else" is written in a cursive font. In the bottom left corner, a small image of a Nespresso coffee machine is shown. The Nespresso logo and the tagline "Coffee, body and soul" are in the bottom right corner. The website "www.nespresso.com/whatelse" is also visible.

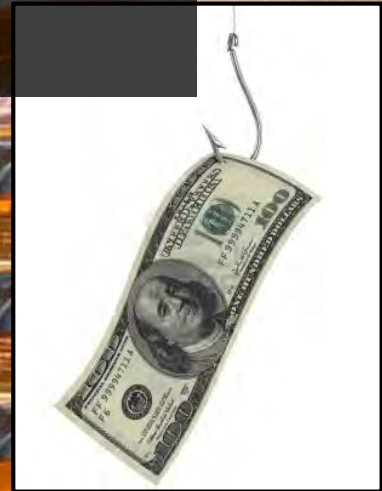
Simply divine
Nespresso. What else

NESPRESSO
Coffee, body and soul

www.nespresso.com/whatelse



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Gillette®

Bait & Hook Farmville

Free Gifts Play My Neighbors Invite Friends Add Farm Coins & Cash Love FarmVille?

423,476 6 33157 28 Ange's Farm

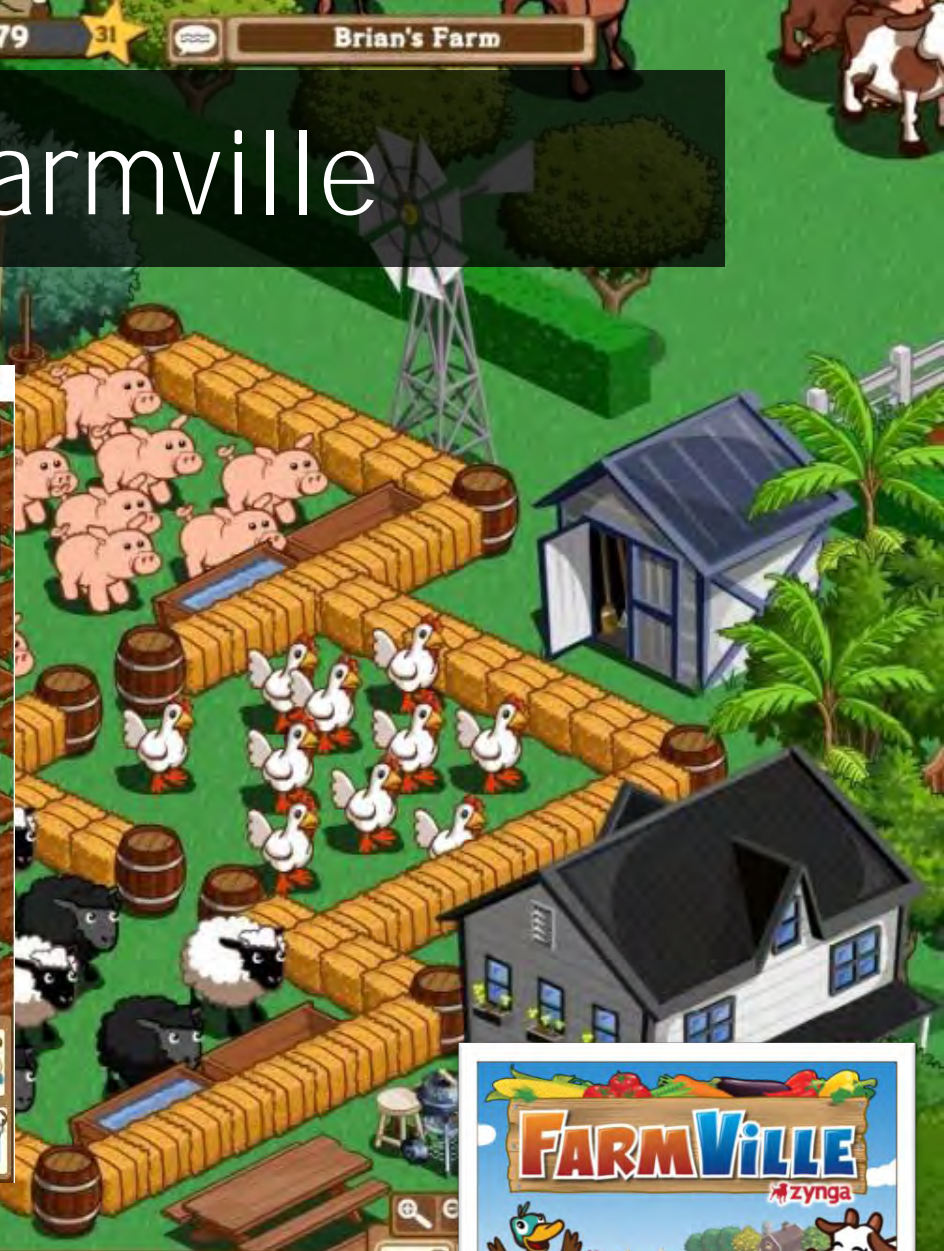
438,440 3 **Market** + Add Coins & Cash X

Seeds Trees Animals Buildings Decorations Upgrade Farm Vehicles

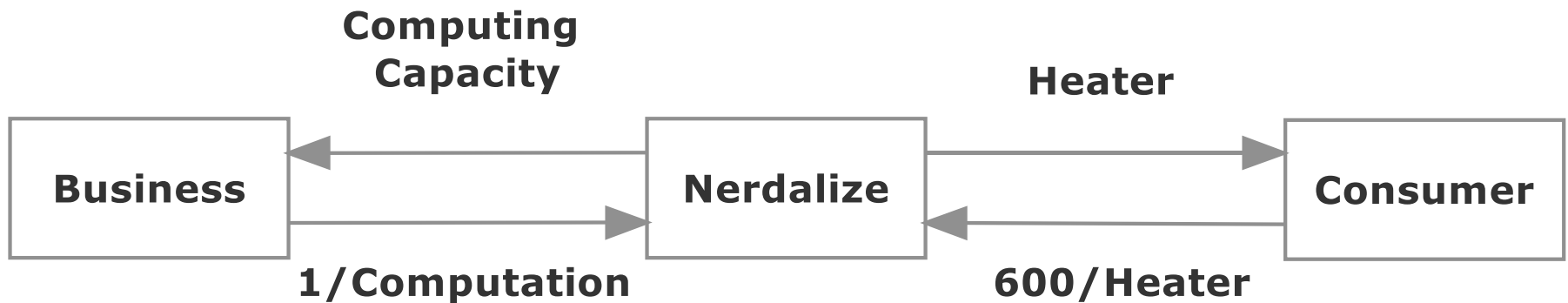
Click for Specials!

| | | | |
|--|--|---|--|
| Hot Rod Tractor Sell for: 10000 Coins XP Gained: 2000 55 BUY | Hot Rod Harvester Sell for: 10000 Coins XP Gained: 2000 55 BUY | Hot Rod Seeder Sell for: 10000 Coins XP Gained: 2000 55 BUY | Tractor What is this? 5,000 BUY |
| Pink Tractor What is this? 5,000 BUY | Harvester What is this? 30,000 BUY | Seeder What is this? 30,000 BUY | 1 Fuel Refill What is this? |

mmomart FREE ONLINE MICROGAMES AND MMO GAMES



Example two-sided market



Multi-sided platform: Girls **don't** pay



A collage of various Spanish newspapers, including Qué!, metro, 20 minutos, and New York Times, illustrating the concept of free newspapers.

Freemium

Q Bruce Springsteen

Inicio

Radio

Cola de Reproducción

Q Bruce Springsteen

Q bruce sprinsteen

Q enrique urquijo

Q amaia montero

Q queen

+ Muestra lista de reproducción

Streets of Philadelphia

uce Springsteen (The Essential Bruce Springsteen)

The Essential BRUCE SPRINGSTEEN

Artistas: (2) Bruce Springsteen • Sam Moore with Bruce Springsteen

Álbumes: (12) Bruce Springsteen de "American Springsteen" de "Bruce Springsteen" de "Bruce Springsteen" de "Studio 99"

canciones: (748)

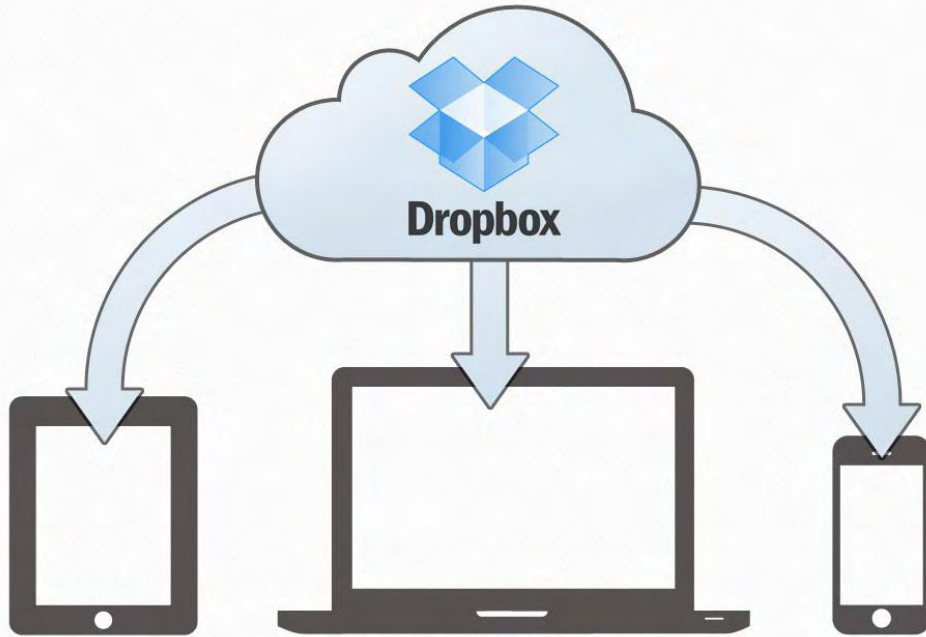
Spotify™

| Canción | Artista | Duraci... | Popularidad | Álbum |
|---------------------------------|-------------------|-----------|-------------|-----------|
| Streets of Philadelphia | Bruce Springsteen | 3:16 | | The Essen |
| The River | Bruce Springsteen | 5:00 | | The Essen |
| The River - Live | Bruce Springsteen | 11:38 | | Bruce Spr |
| Dancing in the Dark | Bruce Springsteen | 4:03 | | The Essen |
| American Skin (41 Shots) (live) | Bruce Springsteen | 7:50 | | The Essen |
| Born to Run | Bruce Springsteen | 4:31 | | The Essen |
| Born in the U.S.A. | Bruce Springsteen | 4:39 | | The Essen |
| Hungry Heart | Bruce Springsteen | 3:13 | | The Essen |
| Glory Days | Bruce Springsteen | 4:15 | | The Essen |
| Born To Run - Live | Bruce Springsteen | 5:03 | | Bruce Spr |
| Hungry Heart - Live | Bruce Springsteen | 4:28 | | Bruce Spr |
| Land of Hope and Dreams (live) | Bruce Springsteen | 9:22 | | The Essen |
| Human Touch | Bruce Springsteen | 6:29 | | The Essen |
| Blinded by the Light | Bruce Springsteen | 5:03 | | The Essen |
| Because The Night - Live | Bruce Springsteen | 5:19 | | Bruce Spr |



2:15

Freemium



Cuenta gratuita

Disponible desde 2 GB
Hasta 18 GB (500 MB por
[recomendación](#))



Dropbox Pro

Planes de 100, 200 o 500 GB
A partir de US\$9,99/mes



Dropbox para empresas

Planes disponibles desde 1 TB
para 5 usuarios
Facturación centralizada y

Long tail: AMAZON

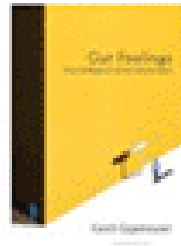


Recommendation Algorithm

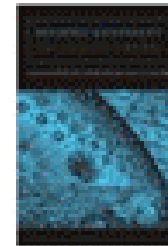
Customers Who Bought This Item Also Bought



[Reckoning with Risk: Learning to Live with Uncertainty](#)
by Gerd Gigerenzer
★★★★☆ (8) £6.49



[Gut Feelings: The Intelligence of the Unconscious](#) by Gerd Gigerenzer
£10.27



[Bounded Rationality: The Adaptive Toolbox](#) (Dahl...) by G Gigerenzer
£20.95

What Do Customers Ultimately Buy After Viewing This Item?



68% buy
[Simple Heuristics That Make Us Smart \(Evolution & Cognition\)](#)
£18.99



17% buy
[Gut Feelings: Short Cuts to Better Decision Making](#)
£6.74



9% buy
[Influence: The Psychology of Persuasion](#) ★★★★★ (12)
£7.09

EL MODELO DE **SUSCRIPCIÓN**



1. Mejor capacidad negociación
2. X veces para relacionarte cliente
3. Implicaciones financieras NOF
4. Xselling y UPselling
5. Invertir más en adquisición
6. ¿Cuál es el ciclo de vida?

DO IT YOURSELF!

amazon.com[®]



ebay[™]



facebook[®]

aquaservice
prueba a vivir mejor



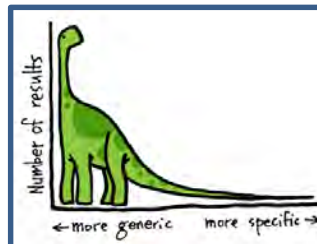
twitter



Gillette[®]

Google





BUSINESS MODEL CANVAS

2

*It's the
business
model,
dude!*

Hey Mike, your plan was
to build a company, but
did your plan include a
Business Model?



THE VITAL PART OF A
CONSIDERATION

11. **DEFINITION.**—A contract which induces a party to perform. It is the substance of the contract inducing the parties to perform. A SUFFICIENT

“ A business model describes the rationale of how an organization creates, delivers and captures value ”



Alex Osterwalder

Creates Value



**Value
Proposition**



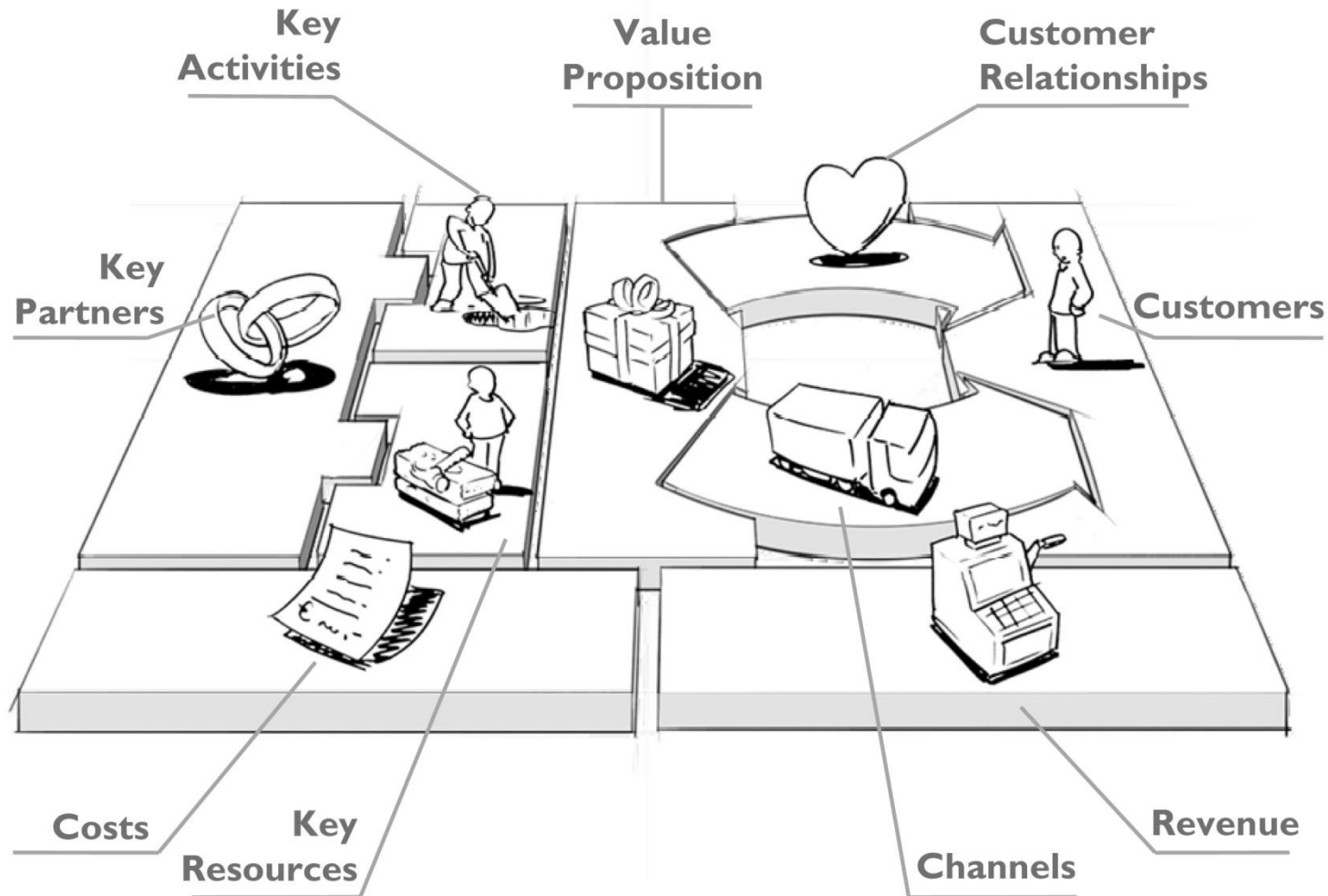
Delivers Value



Captures Value

BUSINESS MODEL CANVAS

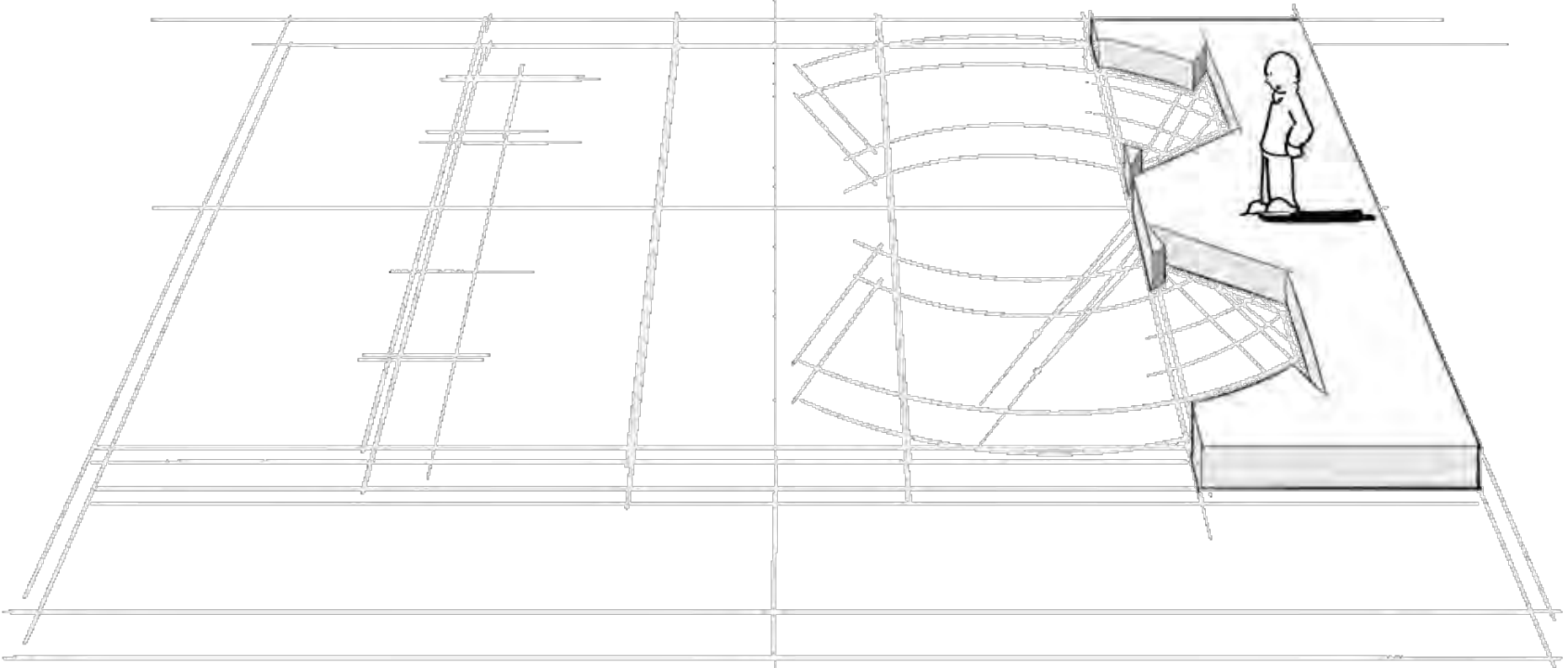
– Alexander Osterwalder



*“Hmm, interesting so
what do I make of
that?”*

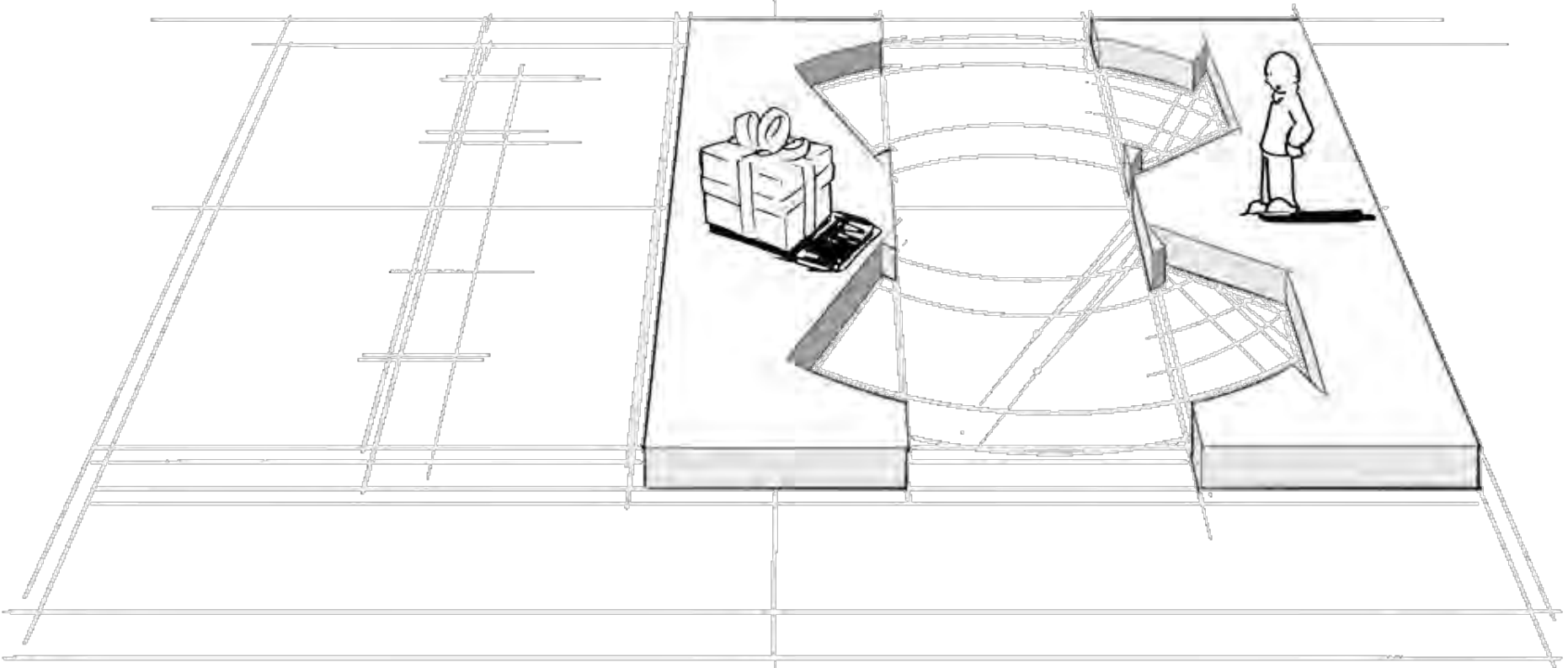


CUSTOMER SEGMENTS



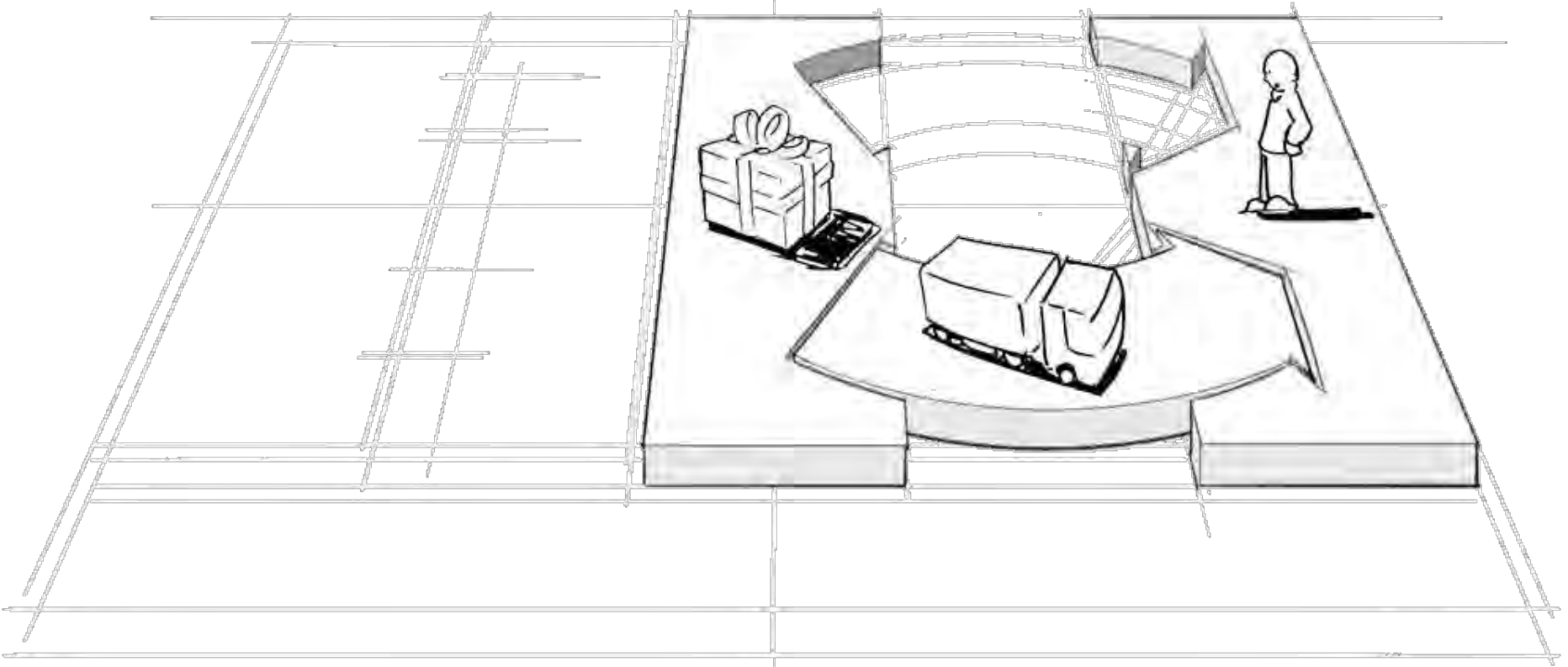
which customers and users are you serving?
which jobs do they really want to get done?

VALUE PROPOSITIONS



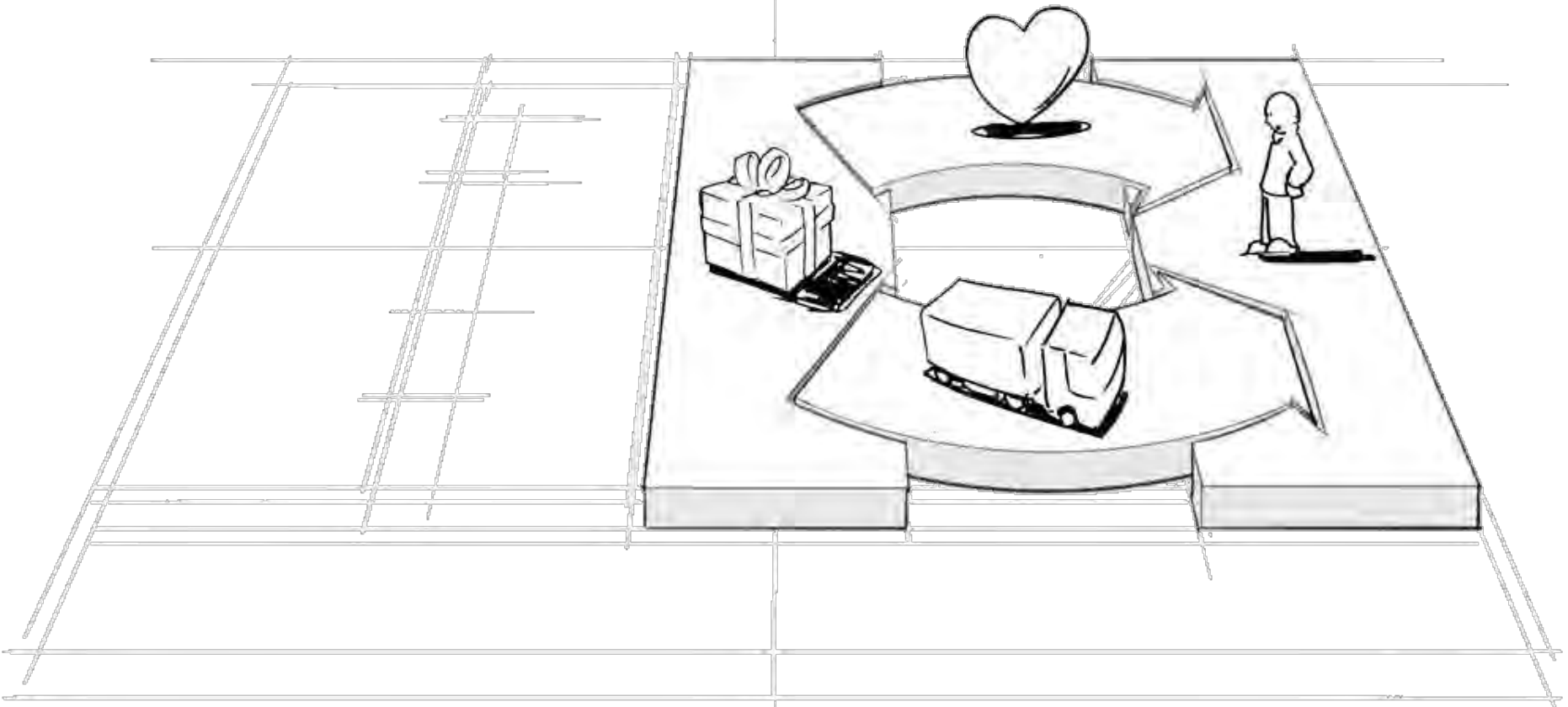
what are you offering them? what is that
getting done for them? do they care?

CHANNELS



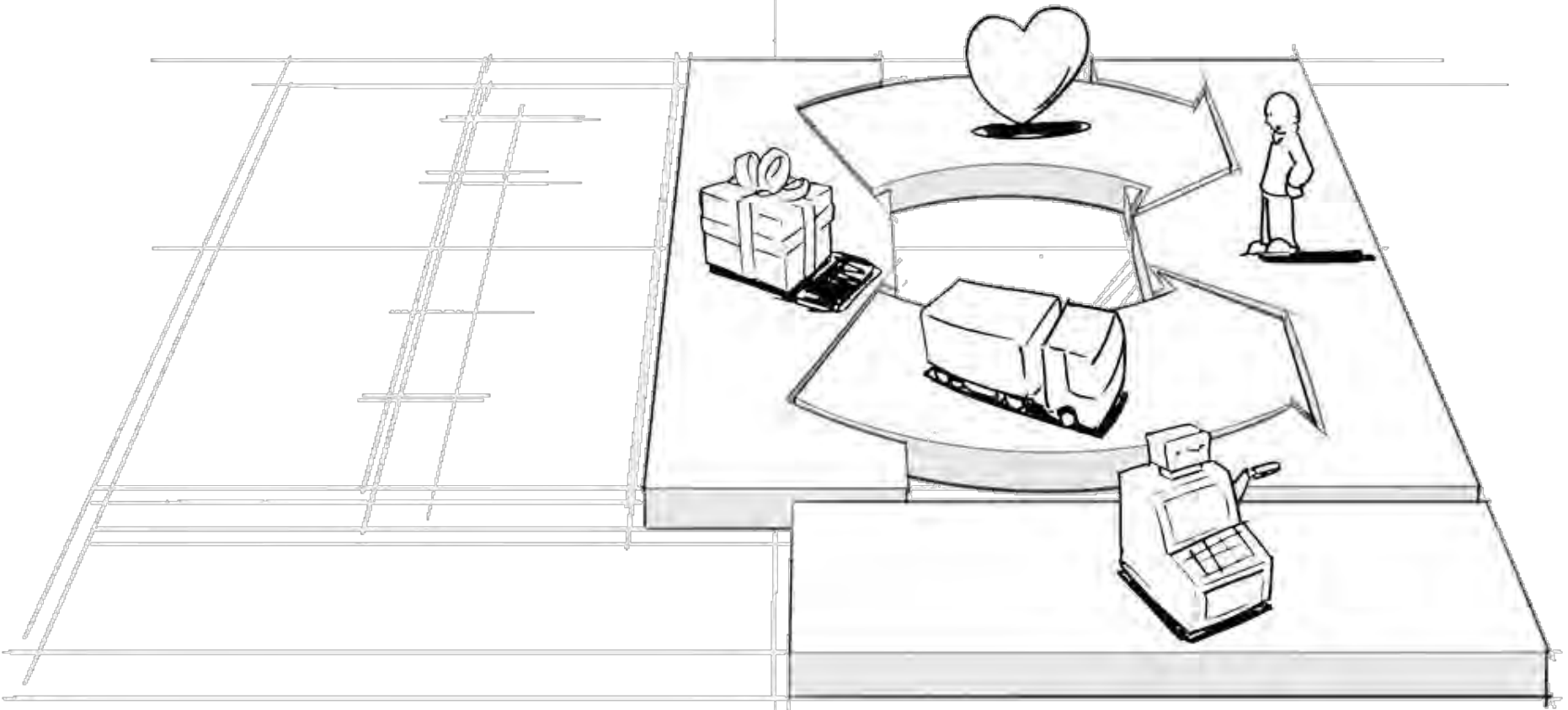
how does each customer segment want to be reached?
through which interaction points?

CUSTOMER RELATIONSHIPS



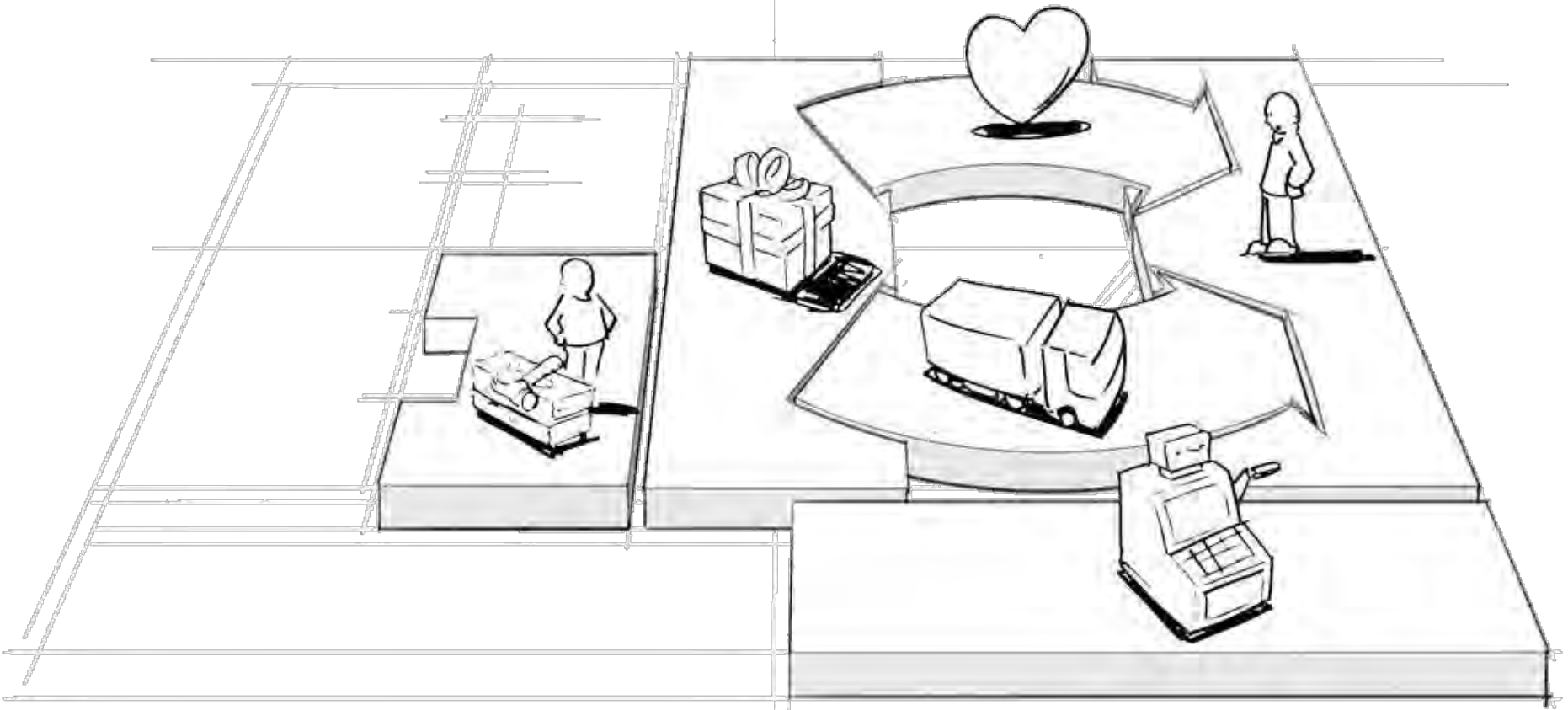
what relationships are you establishing with each segment?
personal? automated? acquisitive? retentive?

REVENUE STREAMS



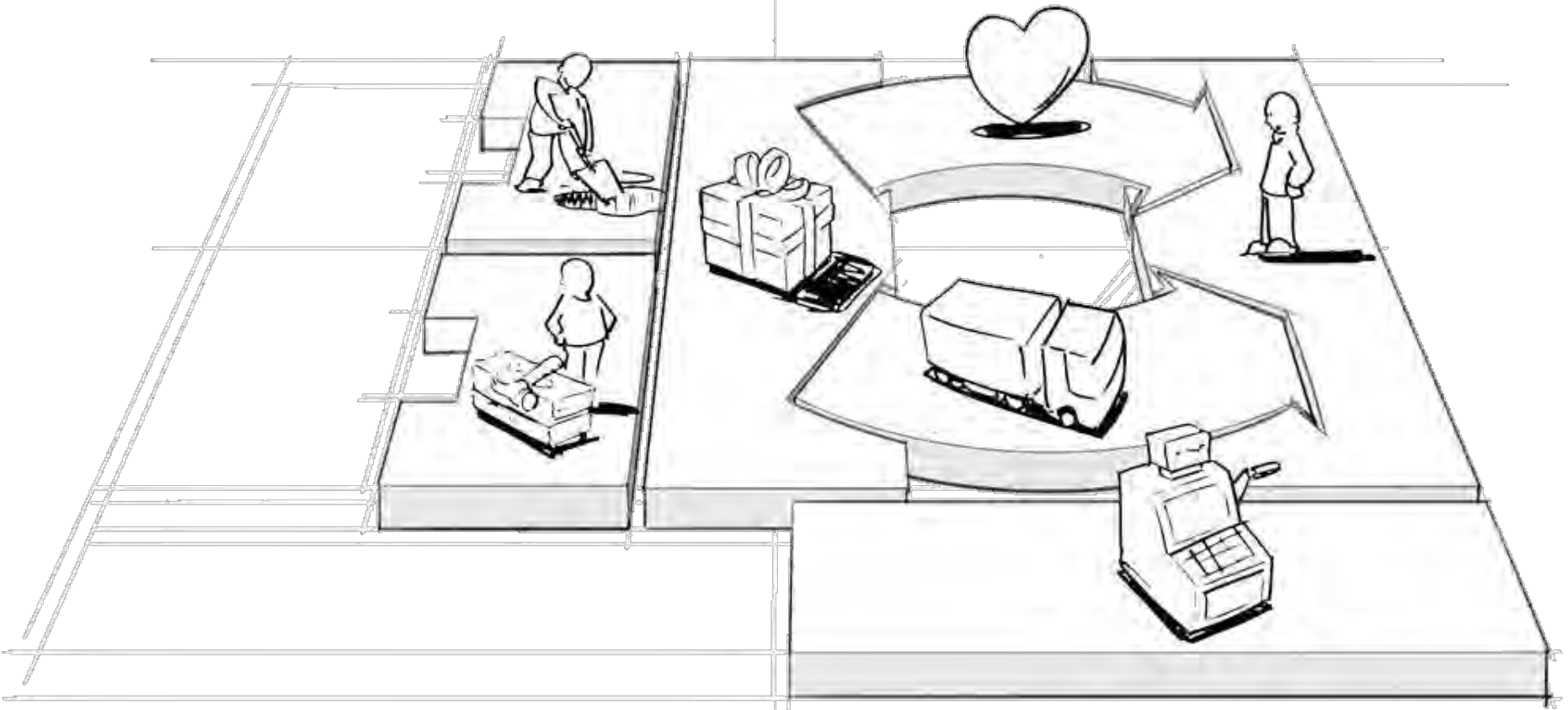
what are customers really willing to pay for? how?
are you generating transactional or recurring revenues?

KEY RESOURCES



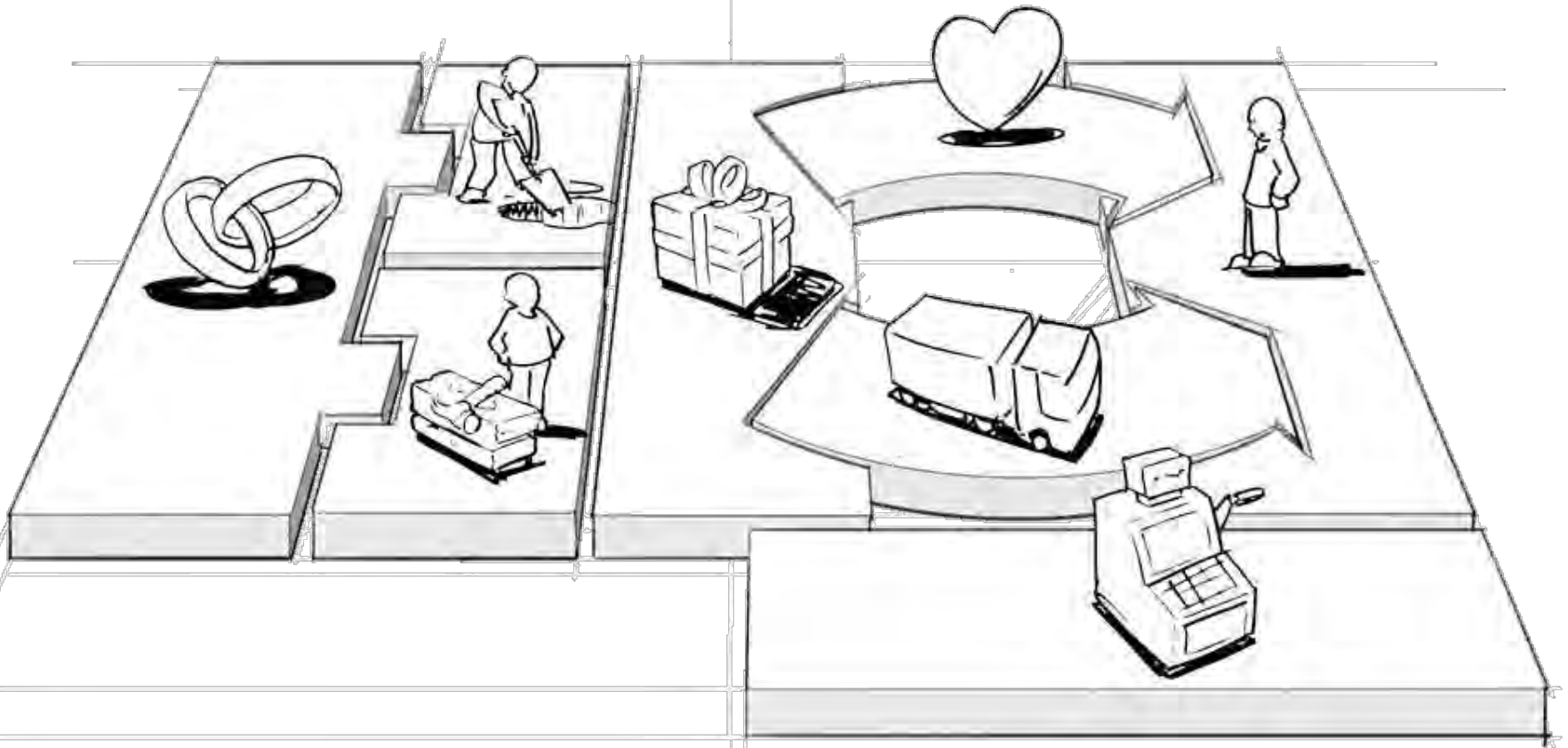
which resources underpin your b.model?
which assets are essential?

KEY ACTIVITIES



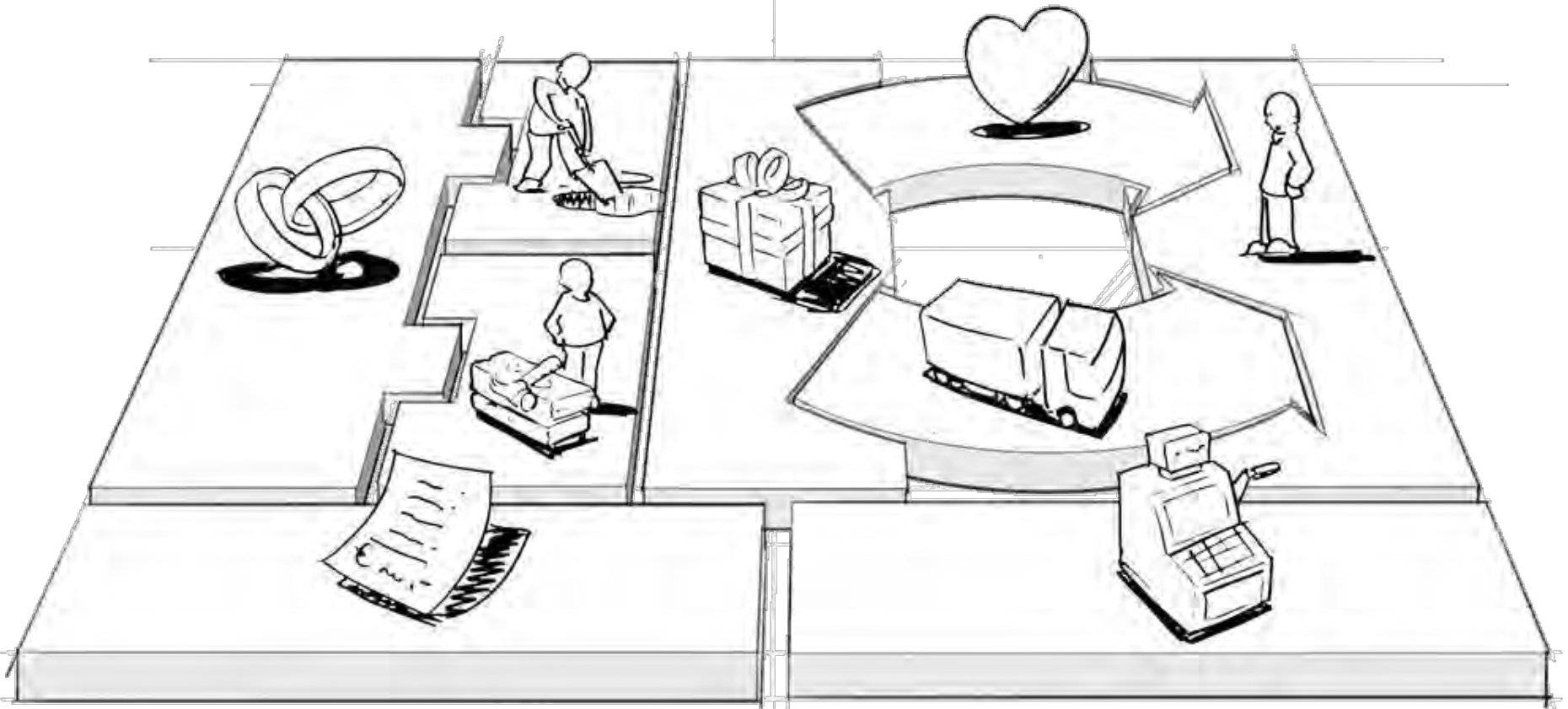
which activities do you need to perform well in
your b.model? what is crucial?

KEY PARTNERS



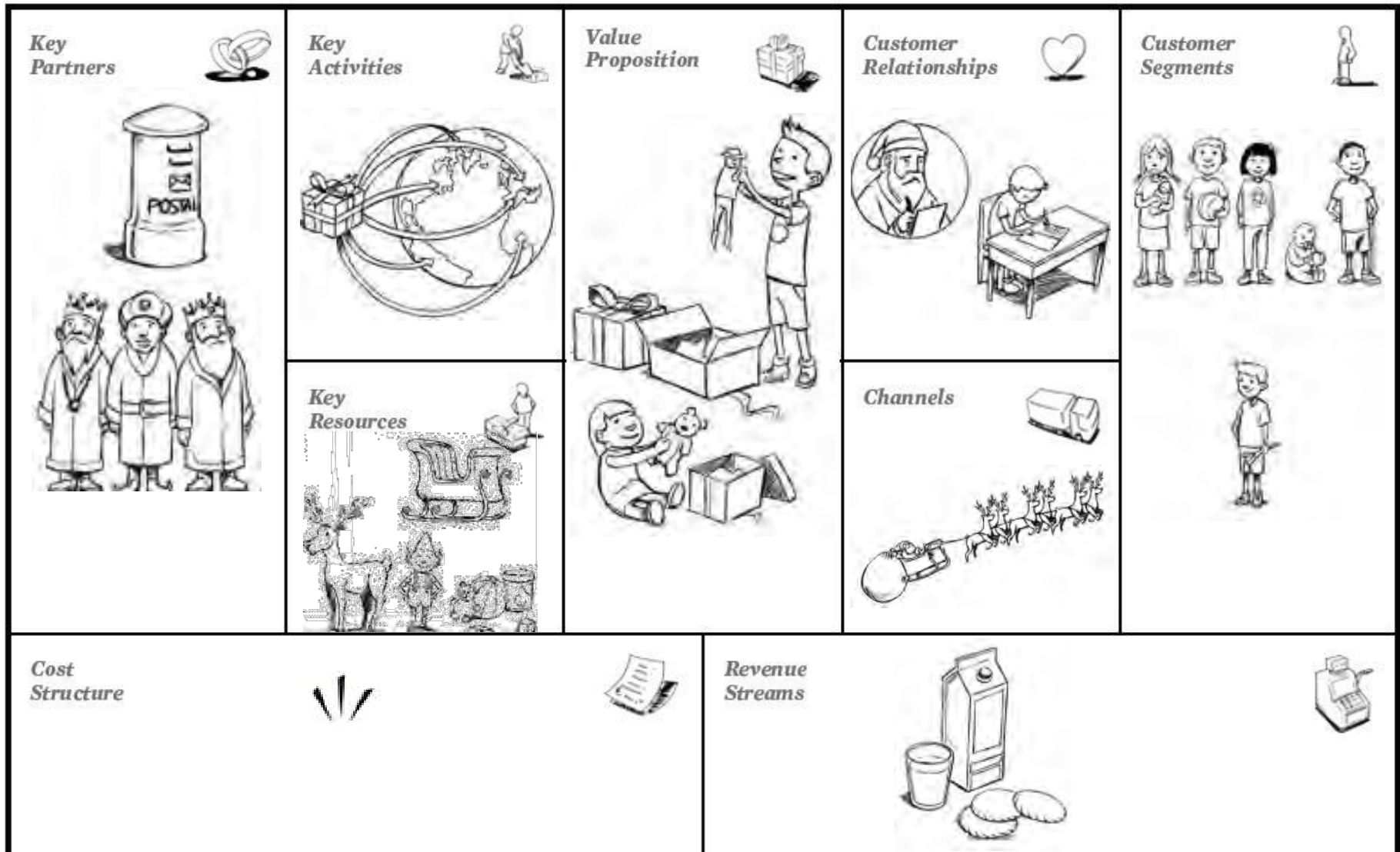
which partners and suppliers leverage your model?
who do you need to rely on?

COST STRUCTURE

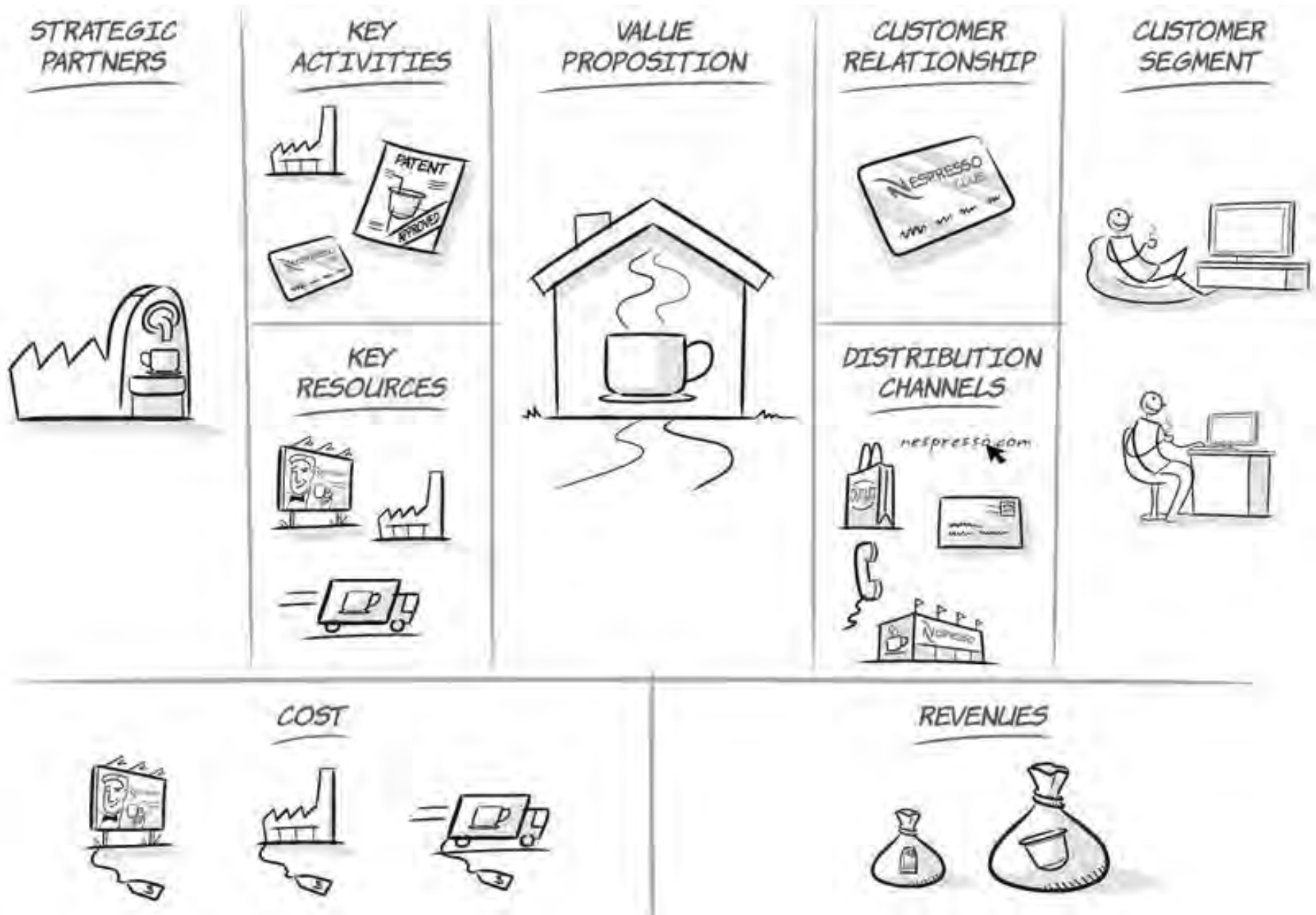


what is the resulting cost structure?
which key elements drive your costs?

Business Model: Santa Claus



Business Model: Nesspresso

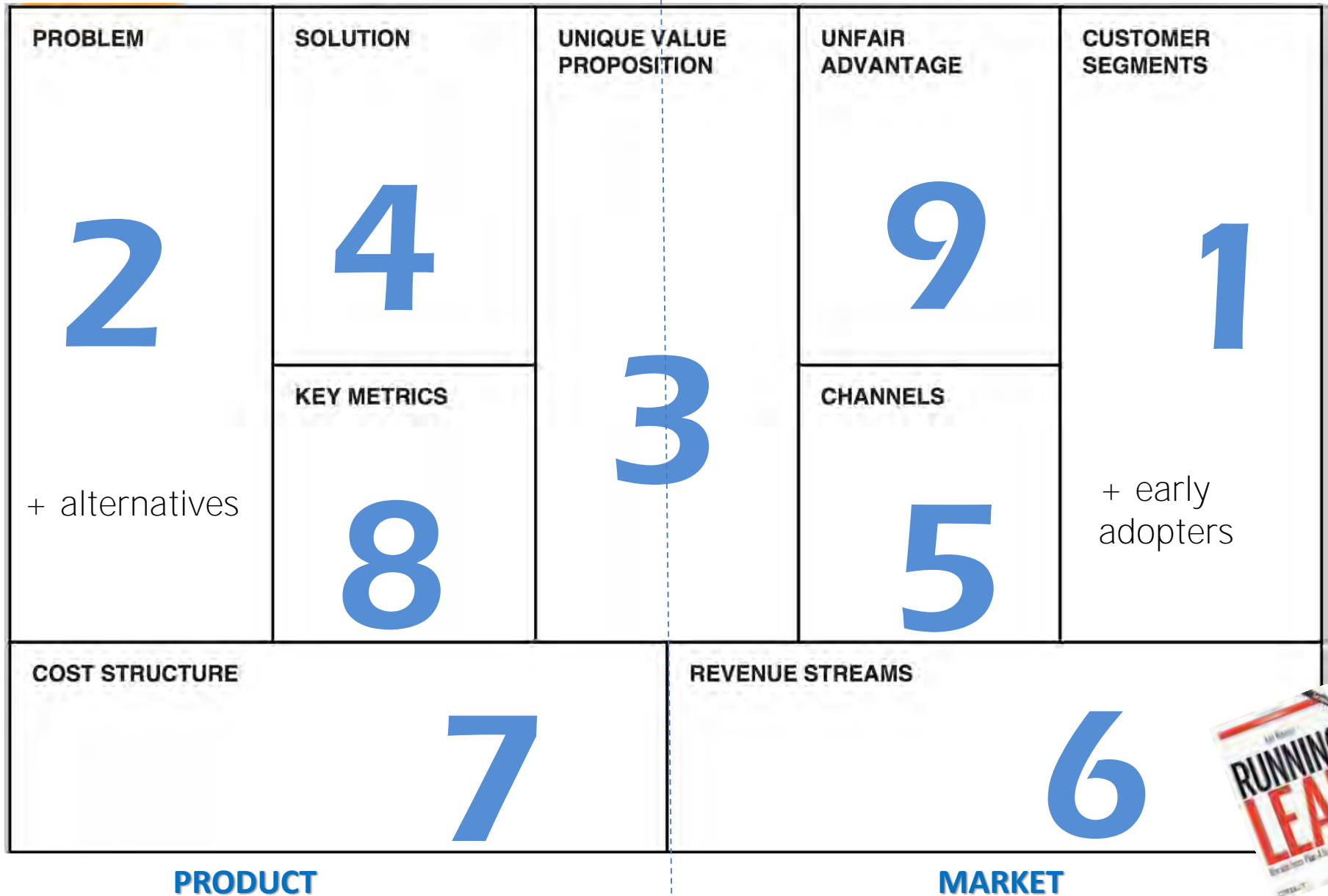




¿Es el mejor modelo para una

STARTUP ?

LEAN CANVAS – Ash Maurya



use it as a
tool to...



The Business Model Canvas

On a single page

Designed for

Key Partners



Key Activities



Value Propositions



Customer Relationships



Customer Segments



Key Resources



Channels



Cost Structure



Revenue Streams



sketch out your business model

The Business Model Canvas

On demand for

Designed for

Key Partners



Who are the partners?
 Who are the suppliers?
 Who are the distributors?
 Who are the channels?
 Who are the customers?

Key Activities



What are the key activities?
 What are the key processes?
 What are the key resources?
 What are the key channels?

Value Propositions



What are the value propositions?
 What are the key activities?
 What are the key resources?
 What are the key channels?

Customer Relationships



What are the customer relationships?
 What are the key activities?
 What are the key resources?
 What are the key channels?

Customer Segments



What are the customer segments?
 What are the key activities?
 What are the key resources?
 What are the key channels?

Key Resources



What are the key resources?
 What are the key activities?
 What are the key channels?

Channels



What are the channels?
 What are the key activities?
 What are the key resources?
 What are the key channels?

Cost Structure

What are the costs?
 What are the key activities?
 What are the key resources?
 What are the key channels?



Revenue Streams

What are the revenue streams?
 What are the key activities?
 What are the key resources?
 What are the key channels?



building
block

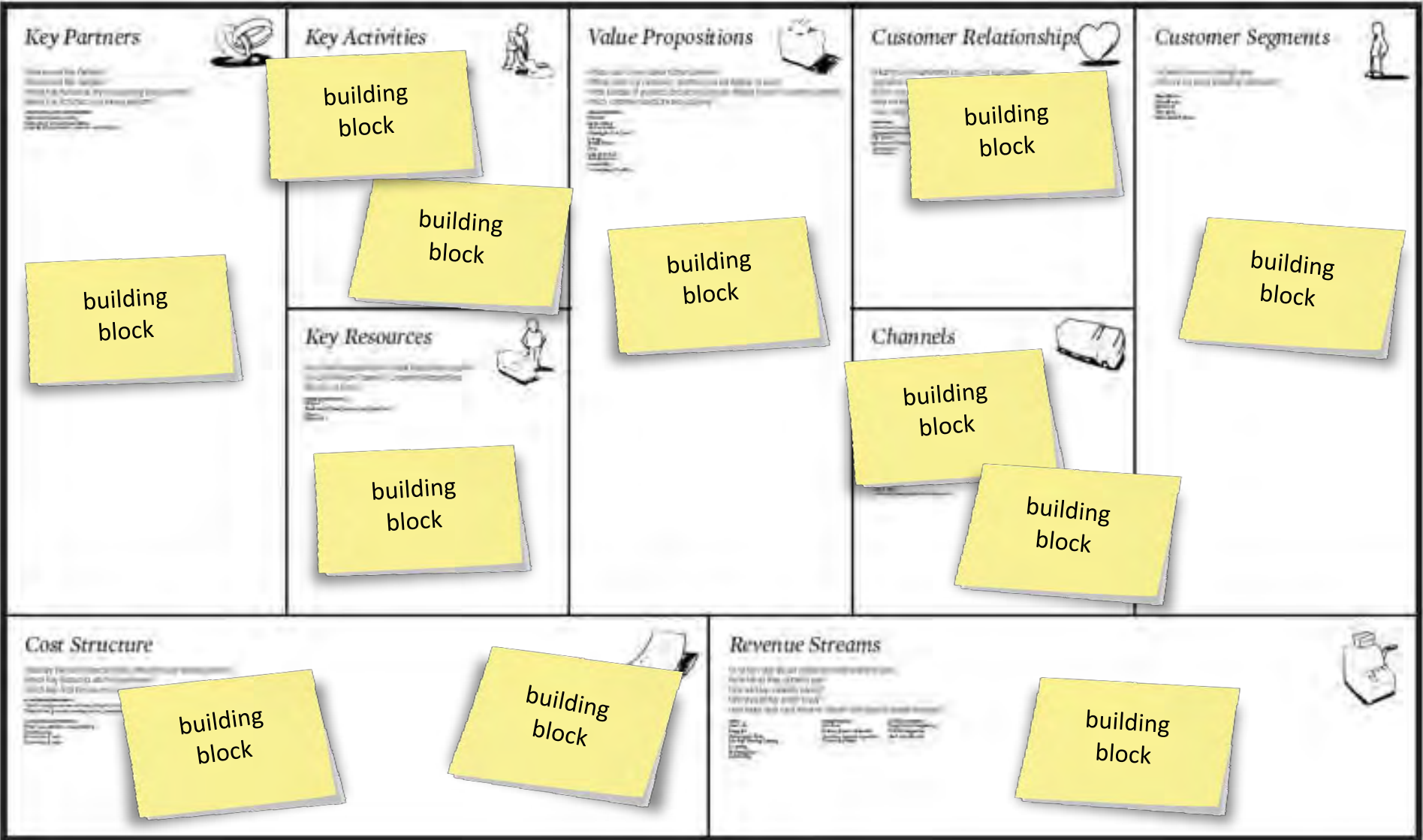
Designed by



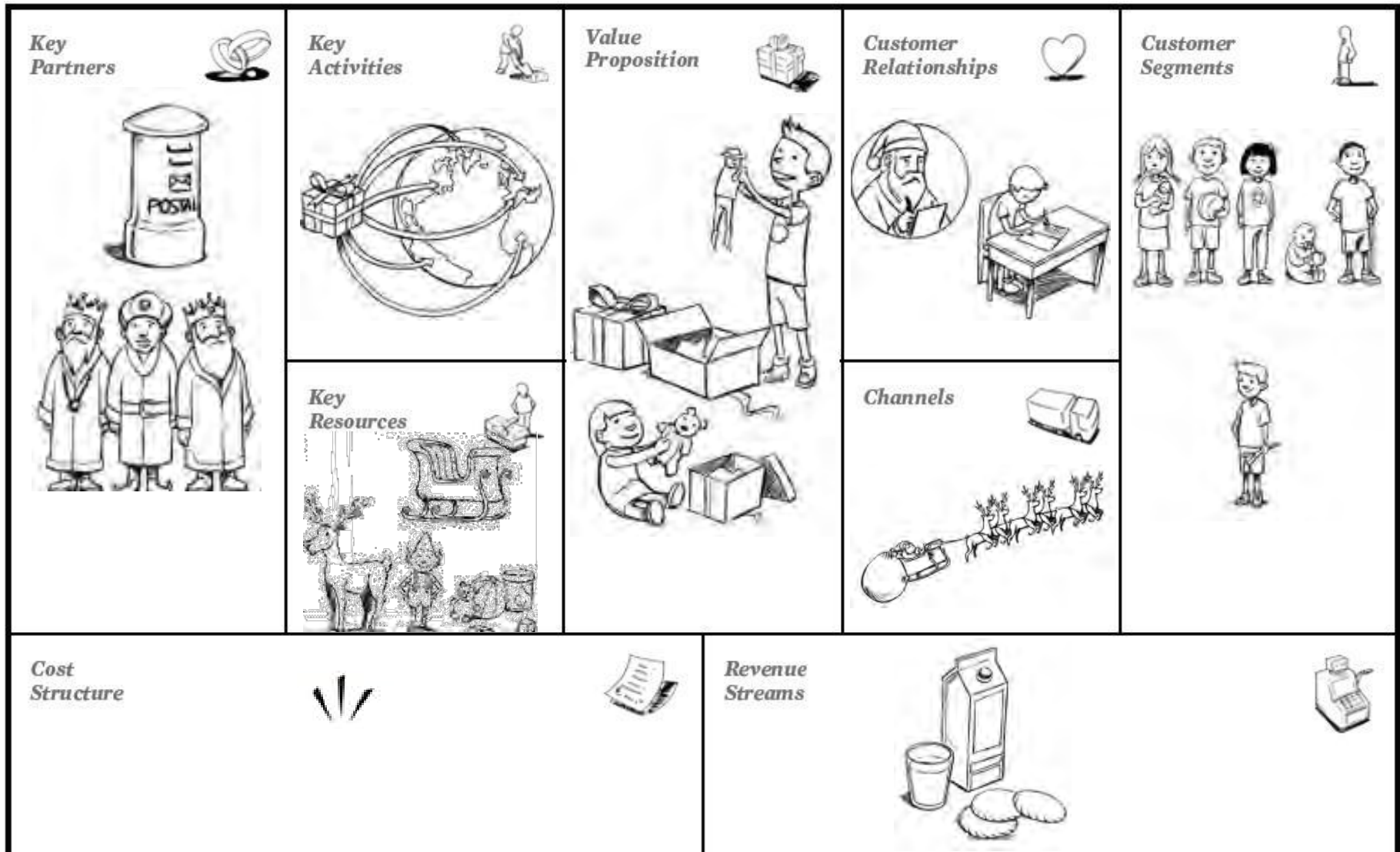
The Business Model Canvas

Original for

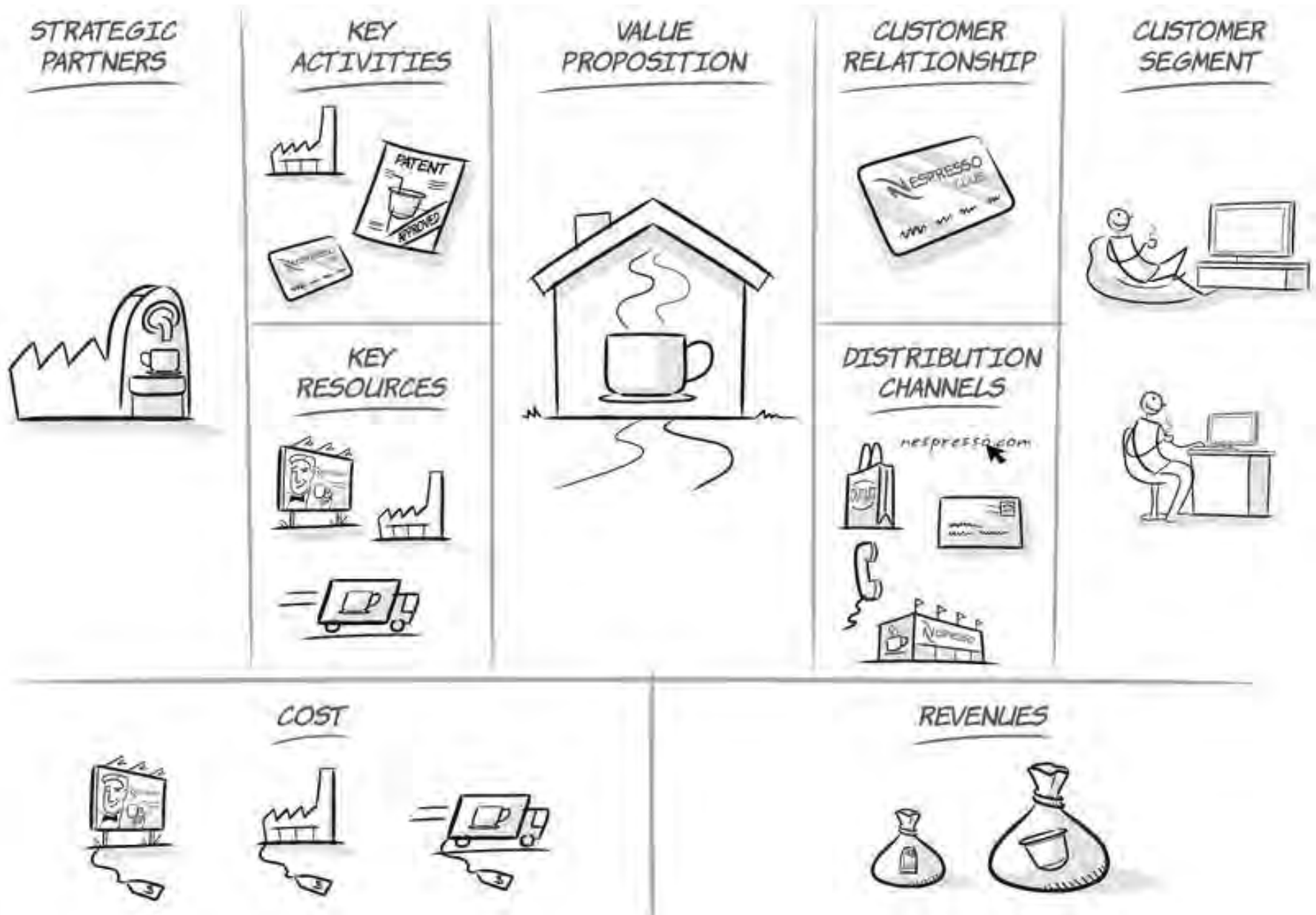
Designed by



Business Model: Santa Claus



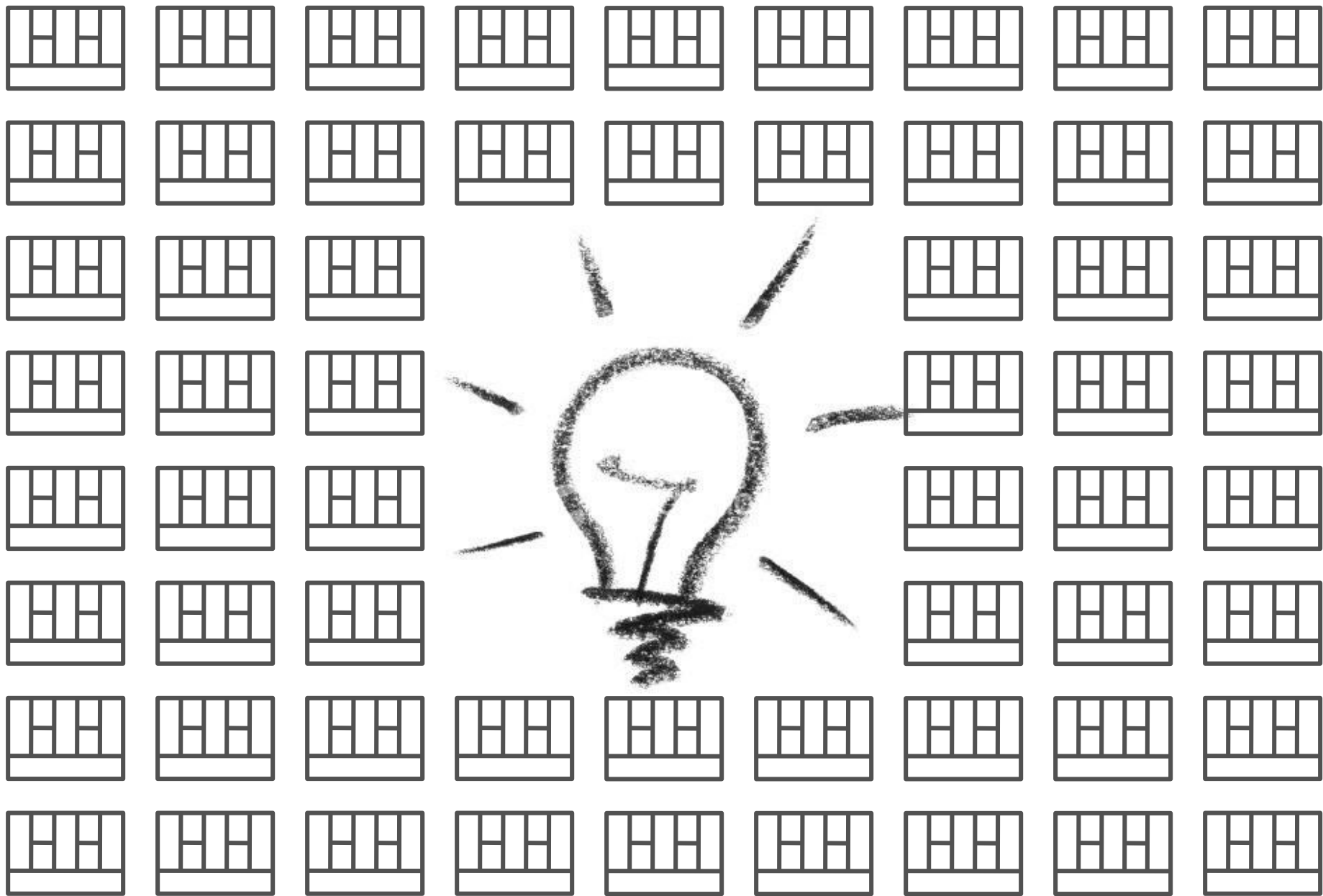
Business Model: Nesspresso



3

*Take time
to think
through
alternative
possibilities.*

the same technology,
product, or service can
have numerous business
models



try sketching out alternative business
models by asking yourself...

transactional vs.
recurring revenues

niche market vs.
mass market

capital expenditure vs.
partnership

scale vs. scope
product vs. service

blue ocean vs. red
ocean

personal vs.
automated

direct sales vs.
indirect sales

open vs. closed
human intensive vs.

disruptive vs.
incremental

difficult questions

one customer segment
vs. another

physical vs. virtual

production

copyright vs. copyleft

fixed vs. variable
costs

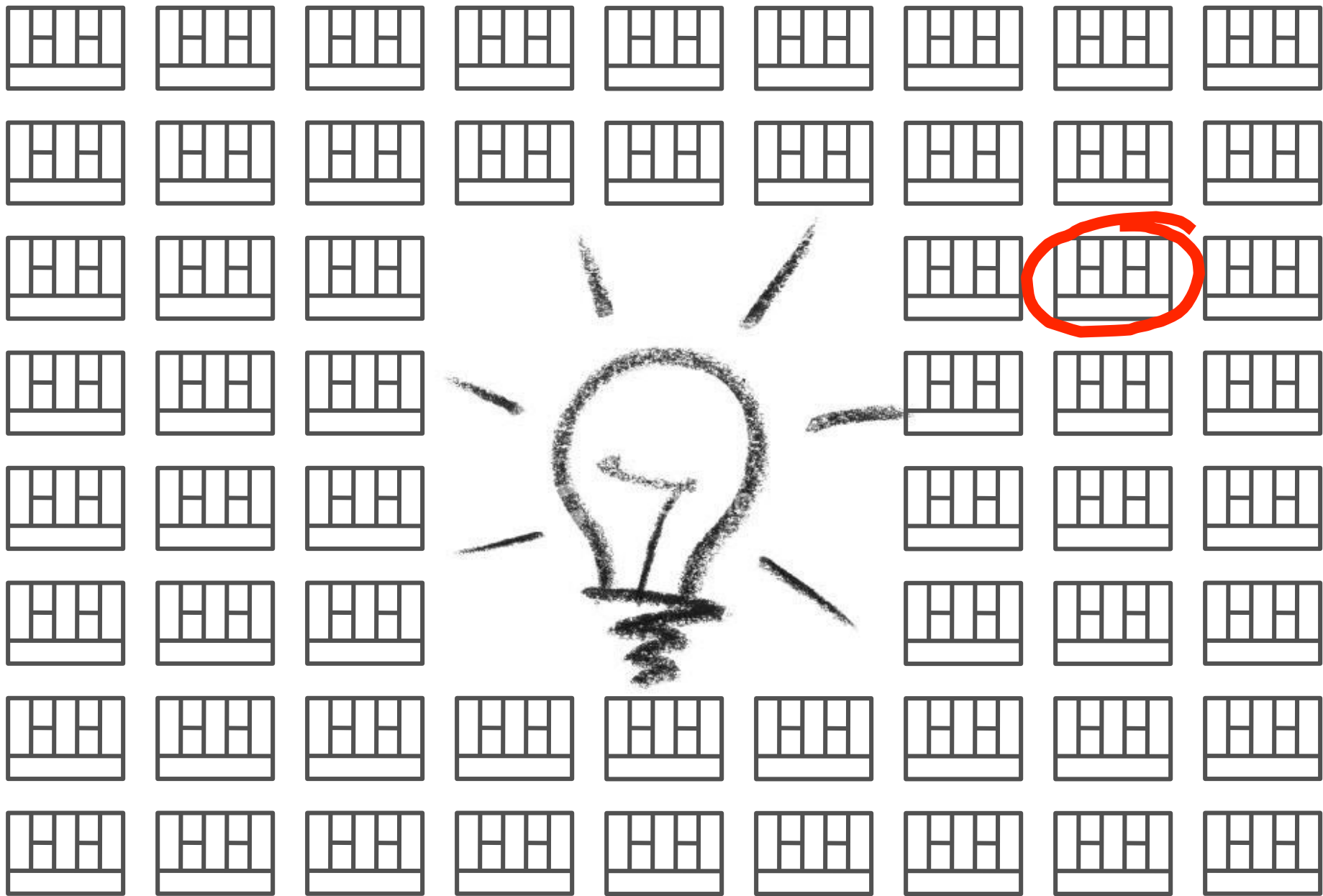
paid vs. free

in-sourcing vs. out-
sourcing

advertising vs.
sales

distributed vs.
centralized

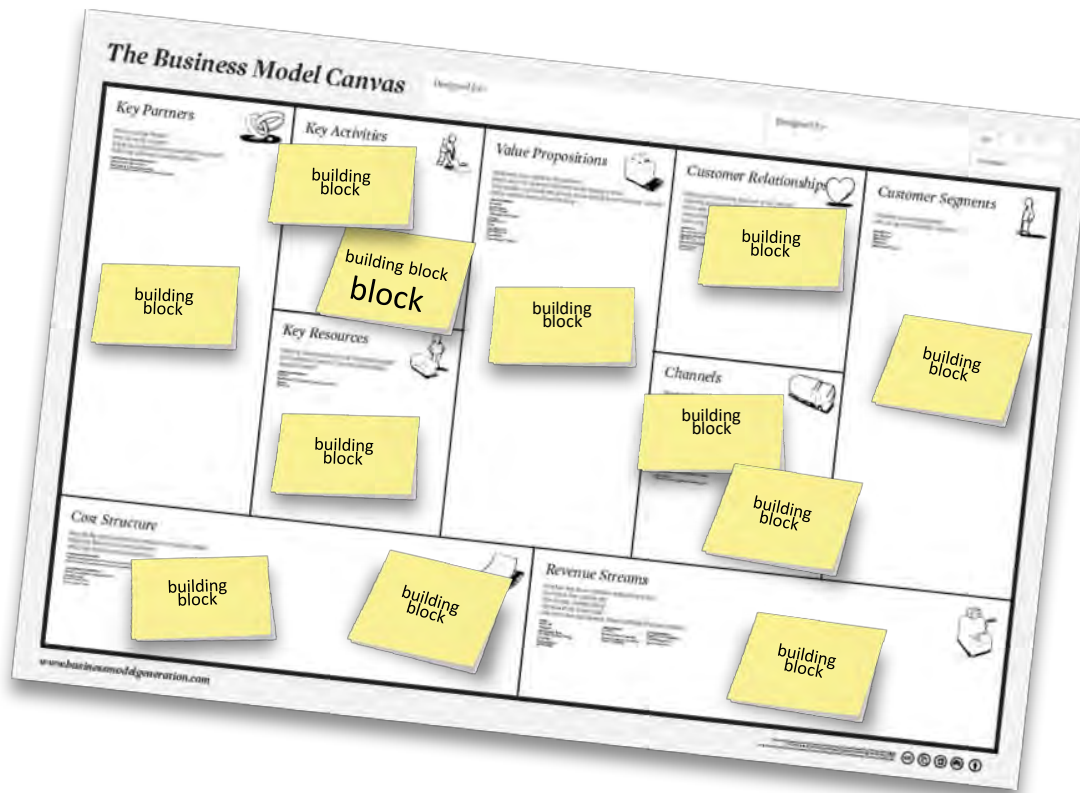
only make a first choice
after prototyping and
thinking through several
models...



4

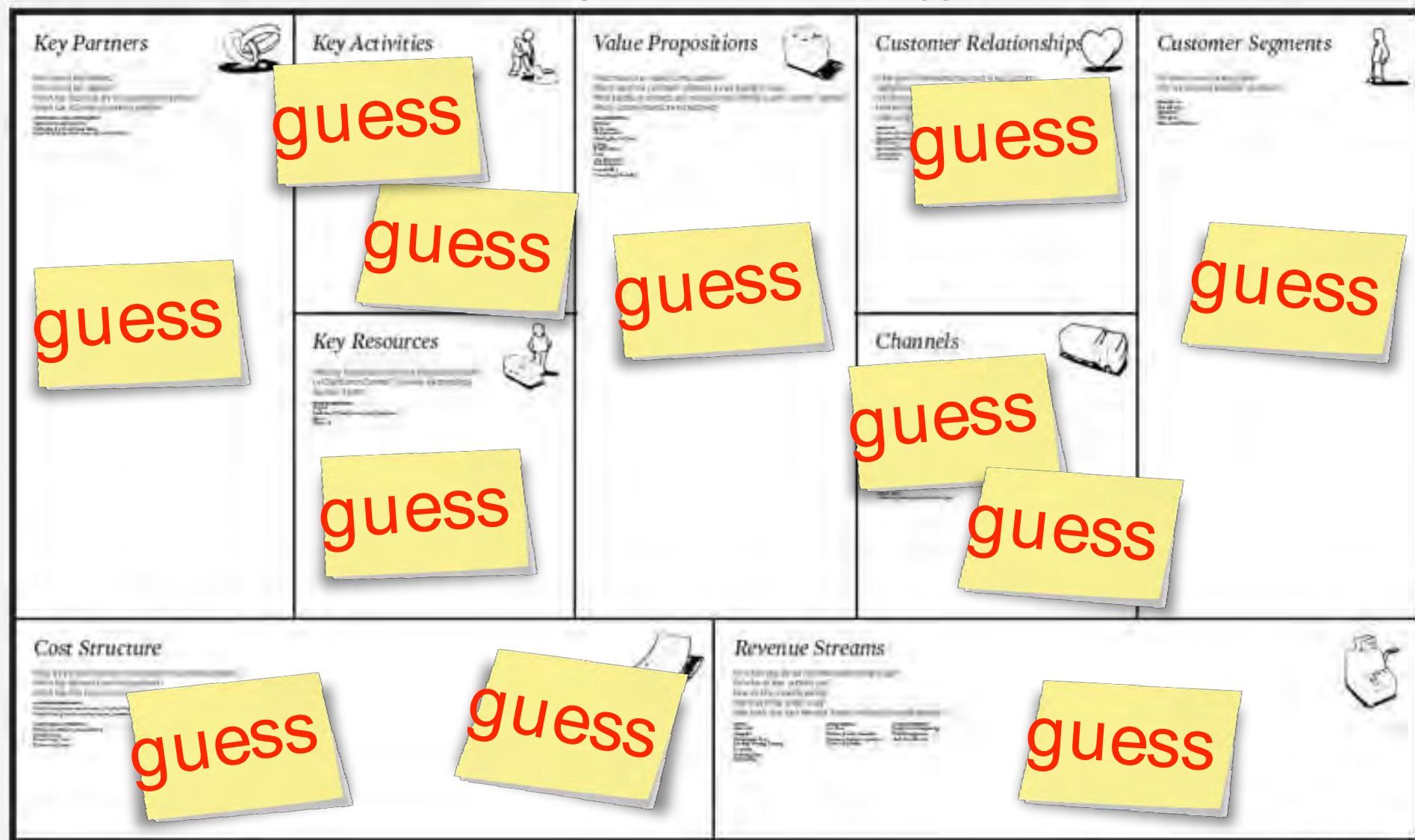
*Your business
model idea is
just a set of
hypotheses.*

a business model might look great on paper...



... but be honest that it's

...just a set of hypotheses

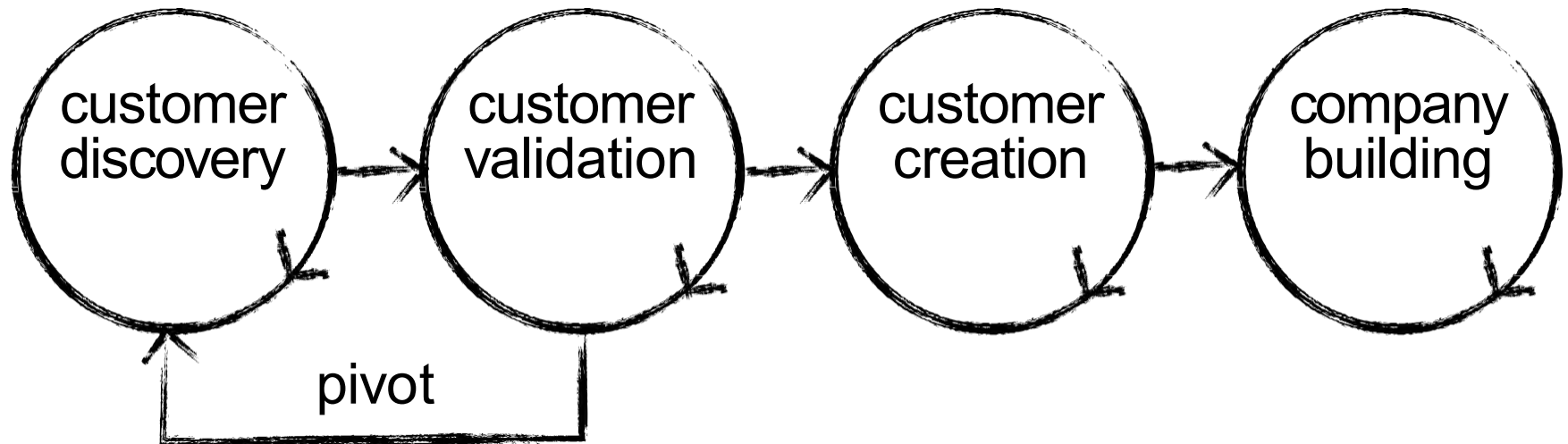


...so you need to get
out of the building
and...

A photograph of a business meeting. Several people in suits are seated around a table. One person is gesturing with their hand while speaking. Another person is writing on a notepad. A third person is holding a pen over a document that features a bar chart and the text 'Financial plan of company development'. There are glasses of water on the table. The text 'test each hypothesis (e.g. with customers)' is overlaid on the bottom right of the image.

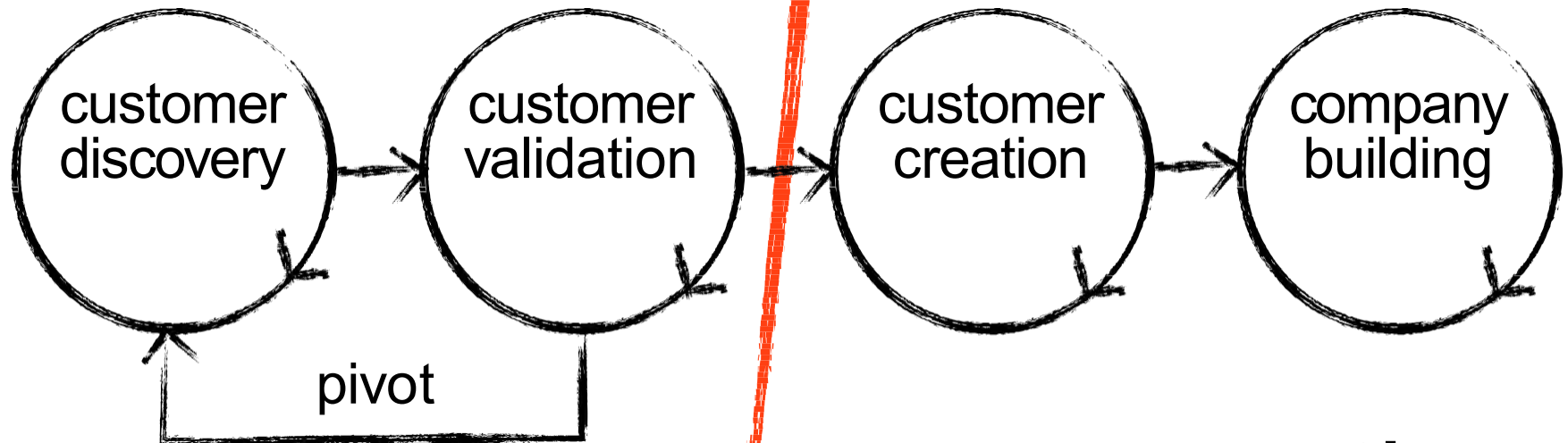
test each
hypothesis (e.g.
with customers)

this business model
testing process is called
Customer Development



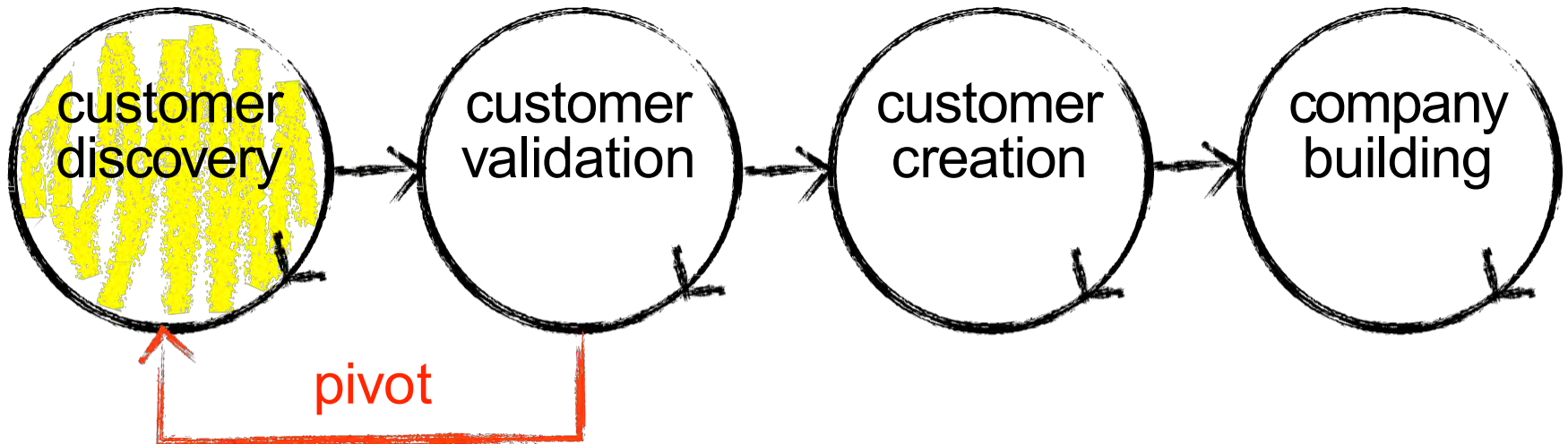
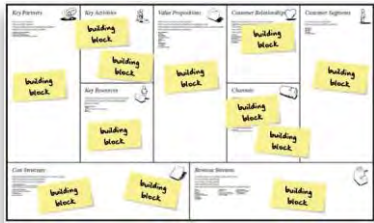
two different phases...

search






execution










... verifying
every
hypothesis



test your hypotheses










| | | | | |
|---|--|---|---|--|
| Key Partners  Who are the partners in your business model? Which partners are you looking for? What are the benefits of the partnership? How do you manage the partnership? | Key Activities  What are the key activities in your business model? Which activities are you looking for? What are the benefits of the activities? How do you manage the activities? | Value Propositions  What are the value propositions in your business model? Which value propositions are you looking for? What are the benefits of the value propositions? How do you manage the value propositions? | Customer Relationships  What are the customer relationships in your business model? Which customer relationships are you looking for? What are the benefits of the customer relationships? How do you manage the customer relationships? | Customer Segments  What are the customer segments in your business model? Which customer segments are you looking for? What are the benefits of the customer segments? How do you manage the customer segments? |
| Key Resources  What are the key resources in your business model? Which key resources are you looking for? What are the benefits of the key resources? How do you manage the key resources? | | product market type competition | Channels  What are the channels in your business model? Which channels are you looking for? What are the benefits of the channels? How do you manage the channels? | |
| Cost Structure  What are the cost structures in your business model? Which cost structures are you looking for? What are the benefits of the cost structures? How do you manage the cost structures? | Revenue Streams  What are the revenue streams in your business model? Which revenue streams are you looking for? What are the benefits of the revenue streams? How do you manage the revenue streams? | | | |

test your hypotheses

| | | | | |
|---|--|---|---|--|
| Key Partners  Who are the partners in your business model? Which partners are essential for your business model? Which partners are optional for your business model? Which partners are potential for your business model? | Key Activities  What are the key activities in your business model? Which activities are essential for your business model? Which activities are optional for your business model? Which activities are potential for your business model? | Value Propositions  What are the value propositions in your business model? Which value propositions are essential for your business model? Which value propositions are optional for your business model? Which value propositions are potential for your business model? | Customer Relationships  What are the customer relationships in your business model? Which customer relationships are essential for your business model? Which customer relationships are optional for your business model? Which customer relationships are potential for your business model? | Customer Segments  What are the customer segments in your business model? Which customer segments are essential for your business model? Which customer segments are optional for your business model? Which customer segments are potential for your business model? |
| Key Resources  What are the key resources in your business model? Which resources are essential for your business model? Which resources are optional for your business model? Which resources are potential for your business model? | | | Channels  What are the channels in your business model? Which channels are essential for your business model? Which channels are optional for your business model? Which channels are potential for your business model? | |
| Cost Structure  What are the cost structures in your business model? Which cost structures are essential for your business model? Which cost structures are optional for your business model? Which cost structures are potential for your business model? | Revenue Streams  What are the revenue streams in your business model? Which revenue streams are essential for your business model? Which revenue streams are optional for your business model? Which revenue streams are potential for your business model? | | | |

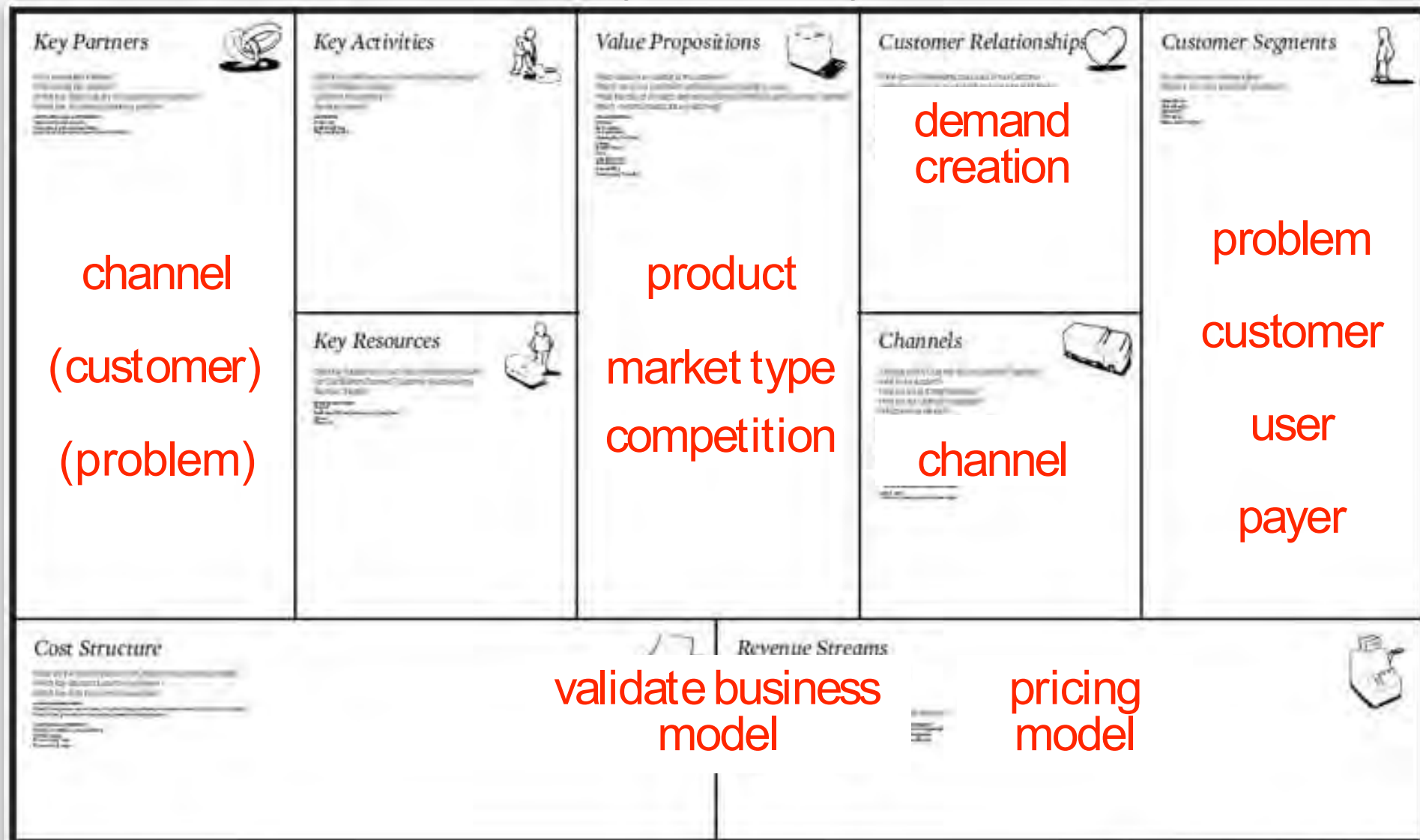
problem
customer
user
payer

test your hypotheses

| | | | | |
|---|---|--|--|---|
| Key Partners  Who can help you reduce risk, increase efficiency, or create new opportunities? Who can help you increase your sales, reduce costs, or create new opportunities? Who can help you create new opportunities? Who can help you create new opportunities? | Key Activities  What activities must you perform to deliver your value proposition? What activities must you perform to deliver your value proposition? What activities must you perform to deliver your value proposition? | Value Propositions  What value do you create for your customers? What value do you create for your customers? What value do you create for your customers? | Customer Relationships  What type of relationship do you have with your customers? What type of relationship do you have with your customers? What type of relationship do you have with your customers? | Customer Segments  Who are your target customers? Who are your target customers? Who are your target customers? |
| | Key Resources  What resources do you need to deliver your value proposition? What resources do you need to deliver your value proposition? What resources do you need to deliver your value proposition? | | Channels  How do you reach your customers? How do you reach your customers? How do you reach your customers? | |
| Cost Structure  What are the major costs of your business model? What are the major costs of your business model? What are the major costs of your business model? | Revenue Streams  How do you generate revenue? How do you generate revenue? How do you generate revenue? | | | |

channel

test your hypotheses



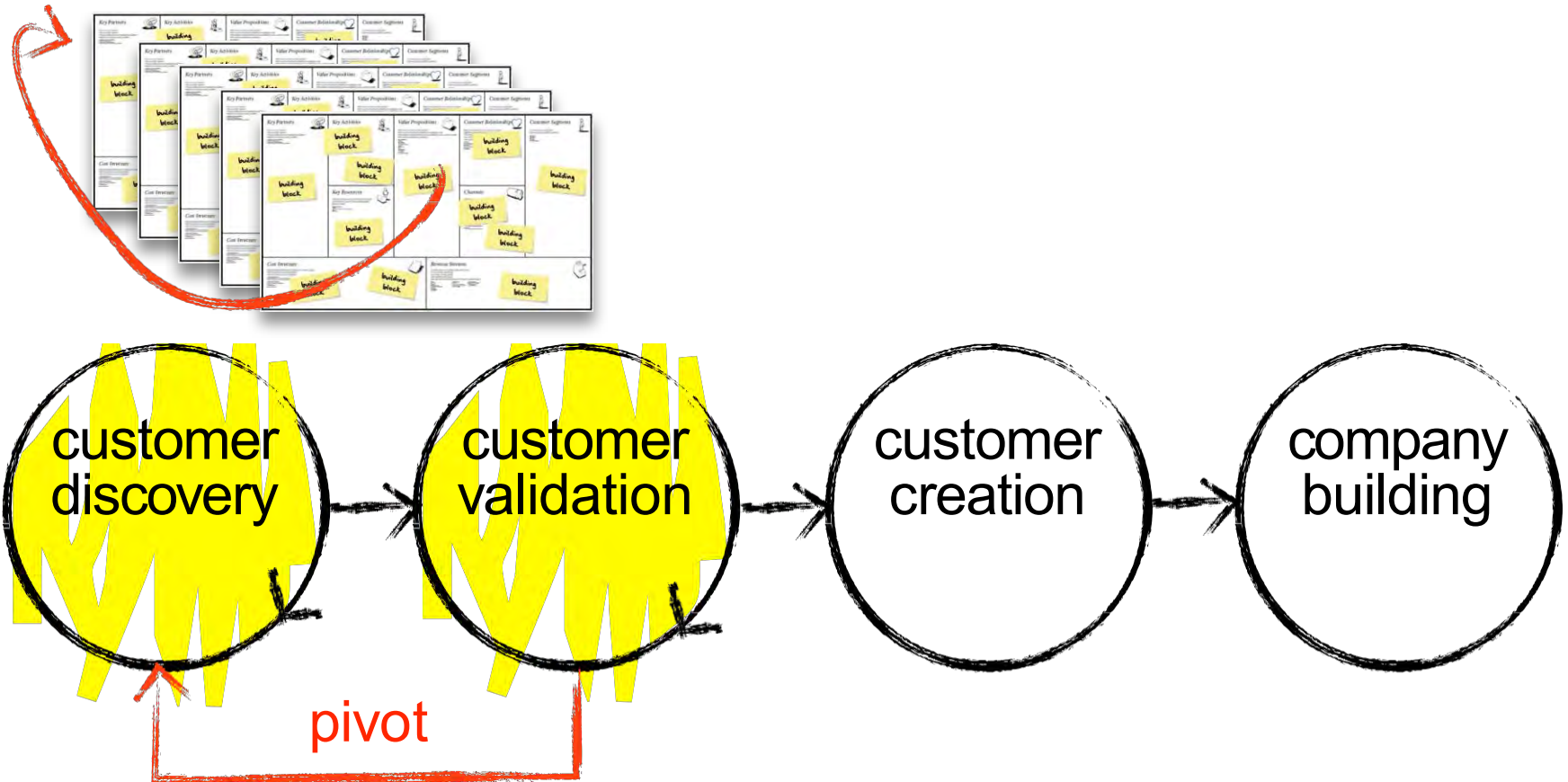
to accomplish this you will
need a special and agile
customer development
team.

A team
that ...

... gets out of the
building!



you need to adapt the business model until you can prove it works



5

*Don't build your
company, until
you've verified
your Business
Model*

or you'll
risk ...

Burning your
cash while
searching for
a working
business
model



execution is not search

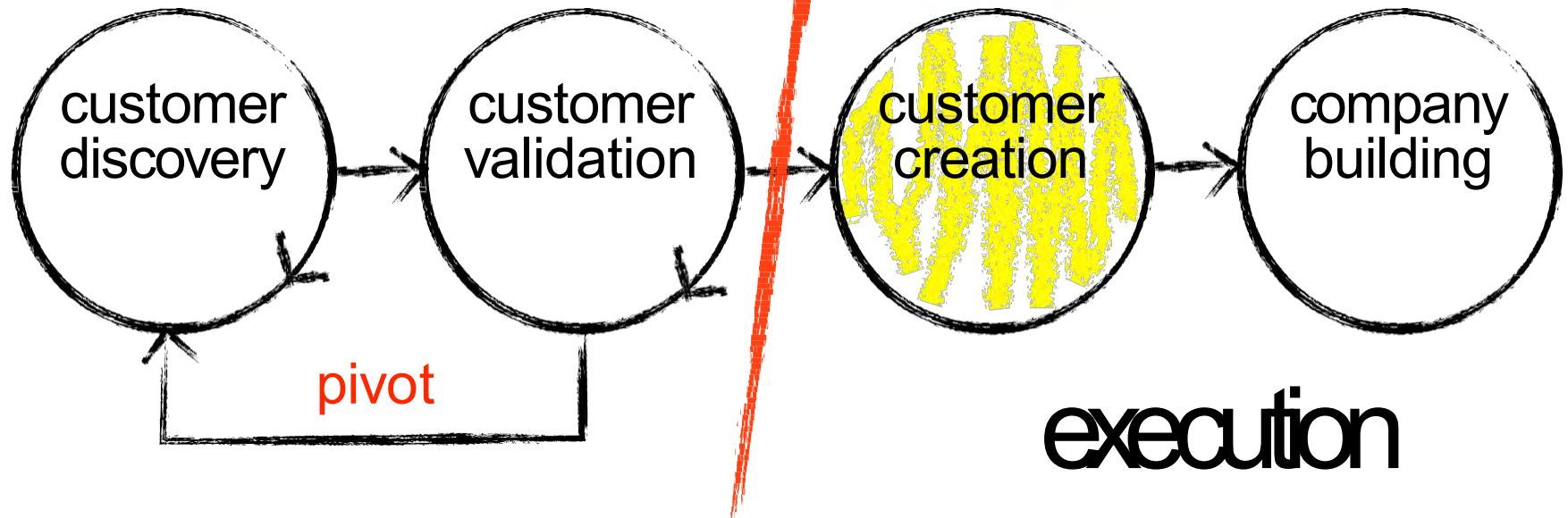
execution follows search

Build when you've found
your model



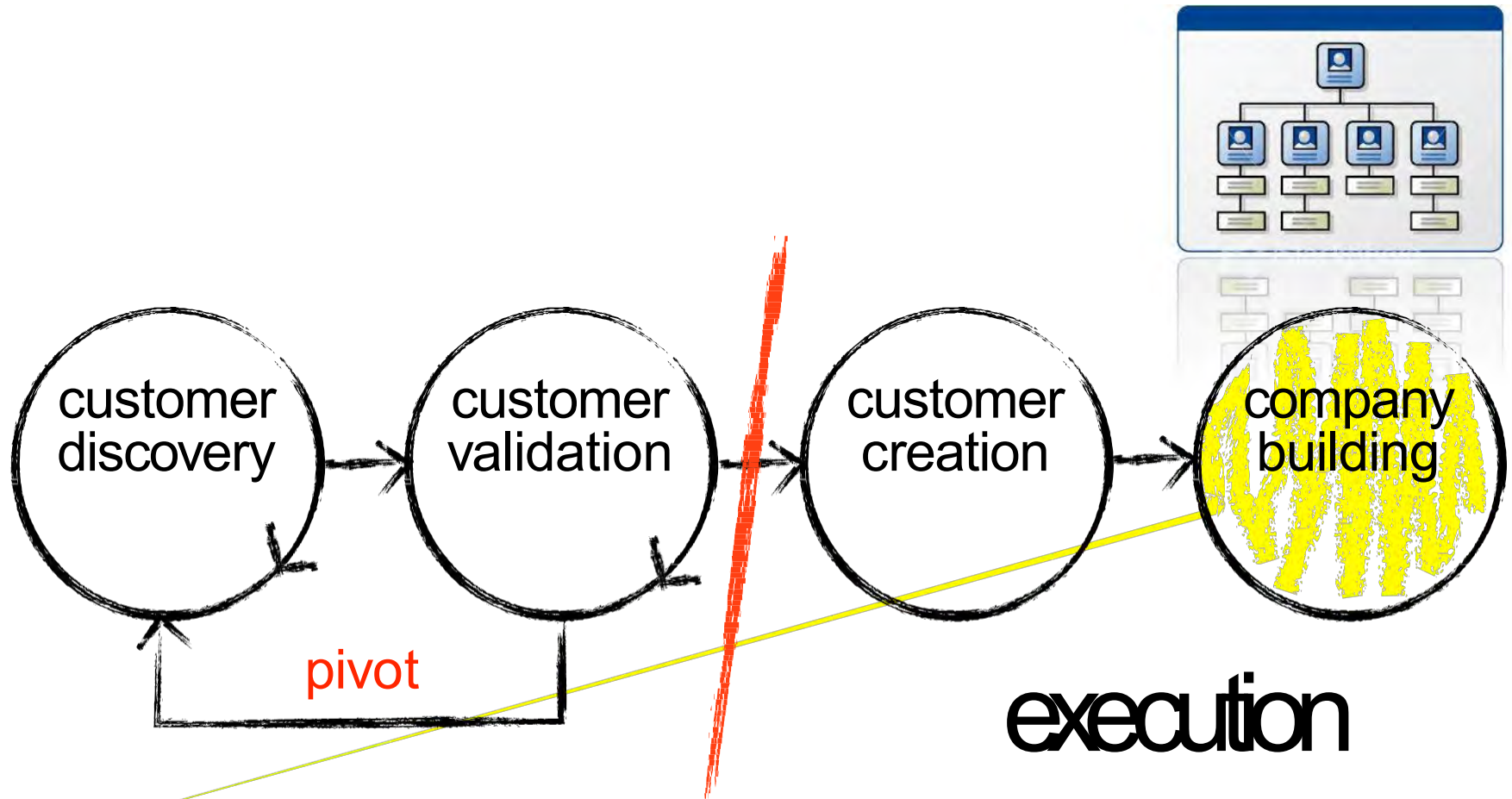
only then execute:

scale your marketing



execution

and build your org
structures



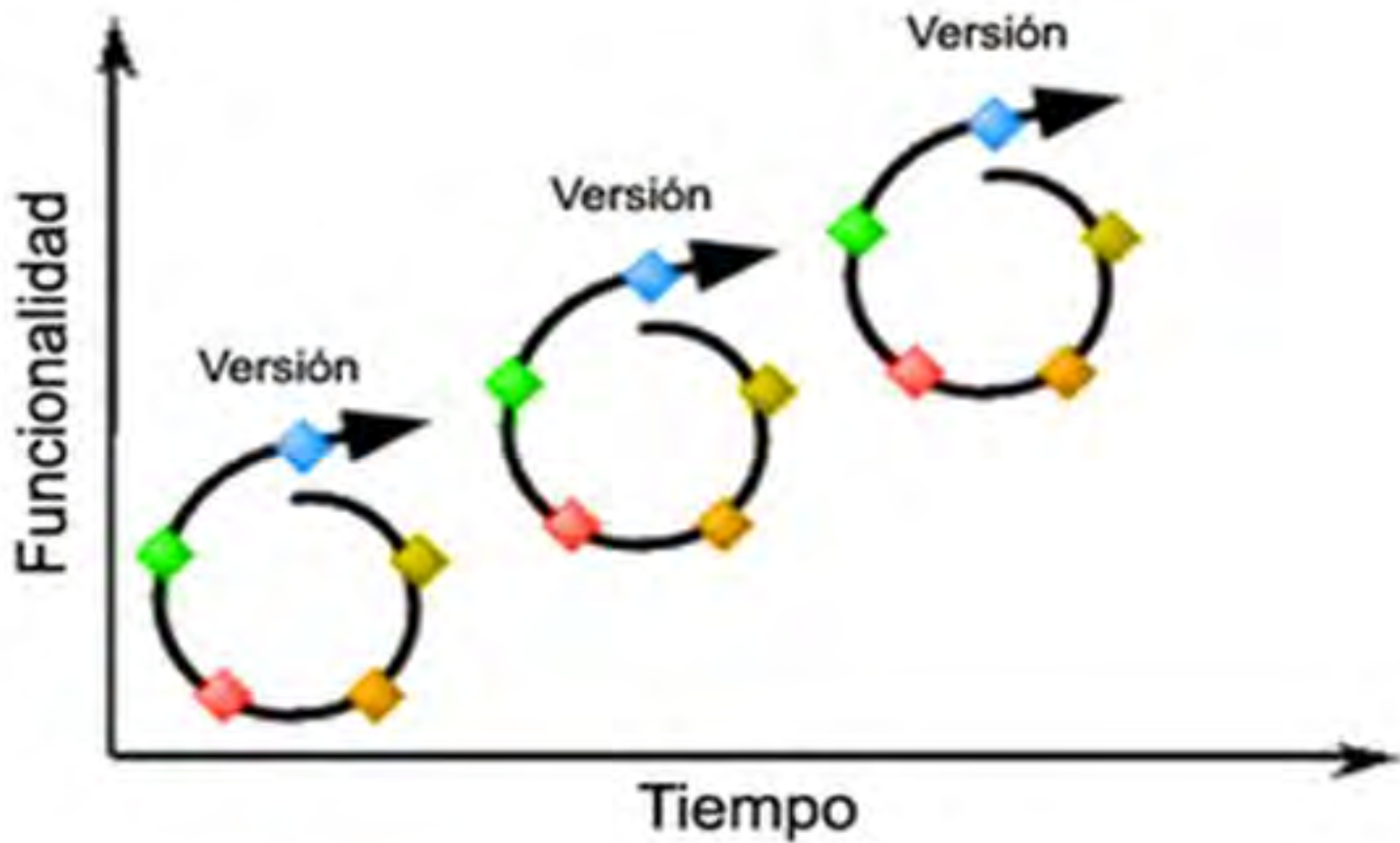
- 1 *No business plan survives the first customer contact.*
- 2 *It's the business model, stupid.*
- 3 *Take time to think through alternative possibilities*
- 4 *Your business model idea is just a set of hypotheses.*
- 5 *Don't build your company, until you've verified your Business Model*



“LEAN”



“PIVOT”



CUSTOMER SEGMENTS

Lamborghini dealership



We have invested **5M€**, including coffe **machine 700€**

We have hired 2 people

According to the research, best area in town

TAM=2500

First week, nobody came.

An old friend appears in her **Volvo...**

Do we fix it?

Customer profile

| | |
|-----------------|--|
| Gender | Male, female |
| Age | 17-40 y.o. |
| Region | Moscow (during initial growth stage) |
| Occupation | Student, young professional, internal migrant, middle management |
| Social level | Medium, high |
| Characteristics | Has a smartphone |
| User category | Early adapters, technologically advanced |
| Other | Active users of social networks, outgoing personalities |

Ride Sharing

SÍ: Money, Feedback

NO: Image, Focus in mi Business M

VOLVO

Mujer, Educada, 30-40 años, Casada con hijos, ingresos 30-**50k€**, lleva a sus hijos al futbol sábado por la mañana y al Burger a comer.
Compra SEGURIDAD.

LTV: 10k€

LAMBORGHINI

Hombre, Cincuentón, Divorciado, Ingresos 1-**2M€**, "**George Clooney**",
Compra IMAGEN y EXCLUSIVIDAD.

LTV: 500k€

Si voy a por los dos, modelo sirenita.
No resuelvo el problema.

Persona Example: eGallery – Better?

He likes to try out new things and talk about it

Male

Lives on Kutuzovskiy Prospect in Moscow

Little time

Recently moved into his new flat with his girlfriend

Works at VTB Investment Banking

Loves esquire, Forbes, afisha, pop, GQ

"I am Vlad"

33 years old

Current salary is USD 10.000/ month

Loves Strelka and Ginza Projects

In winter he loves skiing in Austria or France

In summer he travels around the whole world

Vlad needs some paintings for his new apartment.



E-Gallery
Timeless art.
Less time,
more art.

ANSWER: BETTER BUT NOT GOOD ENOUGH

Persona Example - Best

- Chuck Kirby, Facilities Manager, IBM NE Data Center in Littleton, MA
- 20K Blade servers today growing at 15% per quarter for past two year and for the foreseeable future
- Second generation American
- Lives in Medford
- Medford High to Middlesex Community College
- Moved to Winchester
- Family with 2 kids (12, 15)
- Mid-career, many years at company, technical, maintenance focus, vocational degree
- Been in job for 5 years and seen three managers already
- Promotion path forward is to manage more facilities
- AFCOM, Uptime Institute, Green Grid, starting to read blogs (Hamilton & Manos)
- Ford 150 pickup truck, Beeper always on, volunteer fireman mentality
- Customers' Customer and Their Priorities (think mindset of a utility customer)
 1. Reliability, 2. Growth, 3. Costs, 4. "Greenness" – PUE

Market-Driven

China's sindromme

Target Customer-Driver



I focus in a business model.

Customer-Driven



I focus in a single customer (Mermaid's Sindromme)

Market-Driven



China's syndrome: "If only 0.1% of the total population is my customer, I'll be rich"



Mermaid's sindromme

Customer-Driven



Everybody's my
customer.



WWW.NARANJASCOSTA.COM

del árbol a tu mesa en 24 Horas

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[MAPA WEB](#)
[CONTACTO](#)



HOME

Vienes, 13 Nov 2009, 14:06

NARANJAS VALENCIANAS 100%, frescas y naturales; con todas sus propiedades, sin ningún tipo de tratamiento químico de maduración, coloración, ni conservación. Cosechamos las naranjas y se **las entregamos en el momento óptimo, en su punto de madurez, azúcar y vitaminas.**

Le enviamos a su casa nuestras mejores Naranjas, cultivadas mediante un proceso totalmente natural, **en 24 horas,** mediante agencia de transporte a domicilio. Naranjas cultivadas de modo artesanal. Naranjas manipuladas con esmero en su recogida para no dañarlas.



PORTES GRATIS
EN TODOS NUESTROS PRODUCTOS



ATENCIÓN AL CLIENTE
663 851 250
info@naranjadesvalencia.es

NARANJAS COSTA

- Comprar Naranjas
- Naranjas Costa
- Variedades / Temporada
- Cultivo y producción
- Preguntas frecuentes
- La Naranja



LA NARANJA EN TV



COMUNICADOS LA NARANJA

13.07.2009



PRODUCTO EN TEMPORADA

7 PRODUCTO EN TEMPORADA DE 7 | [ver todo](#)



CAJA MIXTA MESA
NARANJA NAVELINA DE MESA (10 KG) Y
MANDARINA ORO GRANDE (5 KG)

En stock

precio 1 unidad
32€
7% IVA incluido
(ver descuentos)

AÑADIR A CESTA



MANDARINAS ORO GRANDE 15 Kg
Mandarina de tamaño medio, muy dulce, periodo de recolección desde principios de noviembre hasta finales de diciembre

En stock

precio 1 unidad
32€
7% IVA incluido
(ver descuentos)

AÑADIR A CESTA

USUARIOS REGISTRADOS

usuario

contraseña

» entrar

[» Recibir en cuenta de la](#)
[» Registro](#)

BOLETÍN GENERAL

Indique su e-mail para suscribirse a la lista de correo

APP para vender naranjas.



My customer is:



My customer is:

People who like oranges...

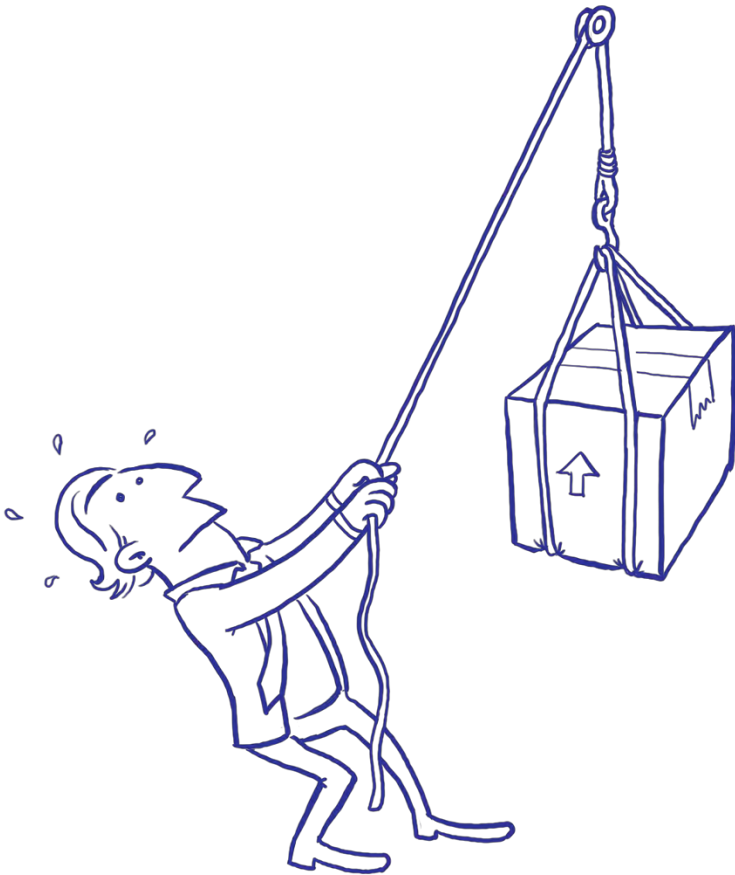


My customer is:

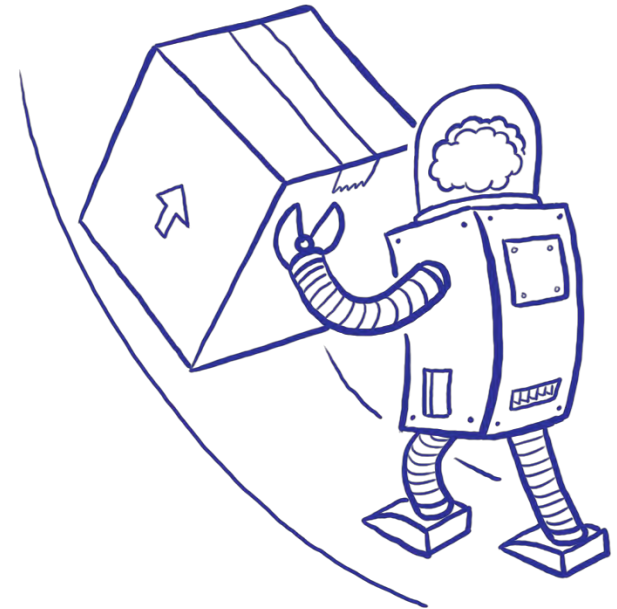
People who like oranges...

... and own a smartphone.

Market Pull & Technology Push



Market Pull



Technology Push

Example: Ink free printer

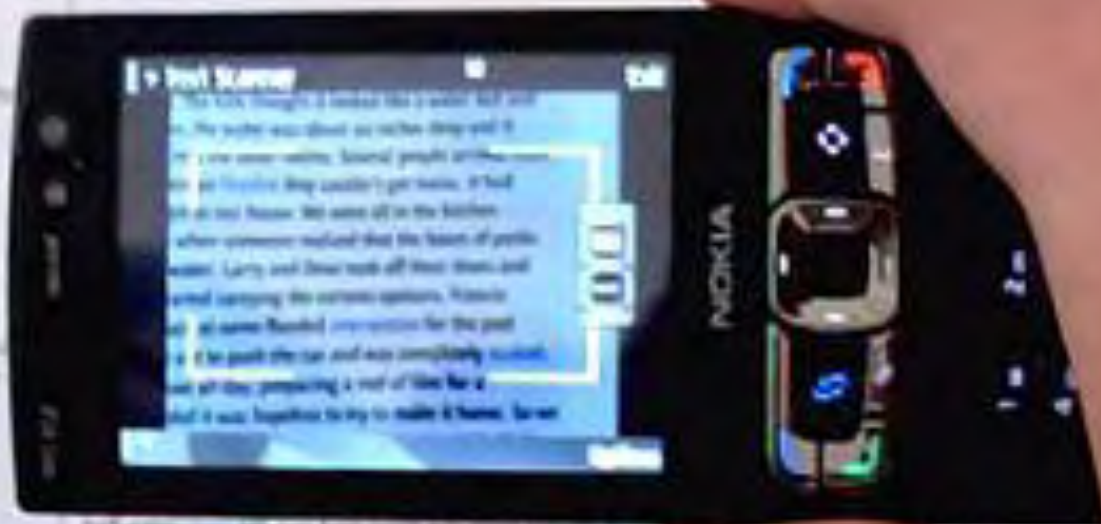
TOCANO

Tocano is developing revolutionary, ink-free printers!



Printing with Tocano printers, doesn't require consumables.

The Storm



OCR: Optical Character Recognition

SERVICE FOR PHOTOGRAPHERS



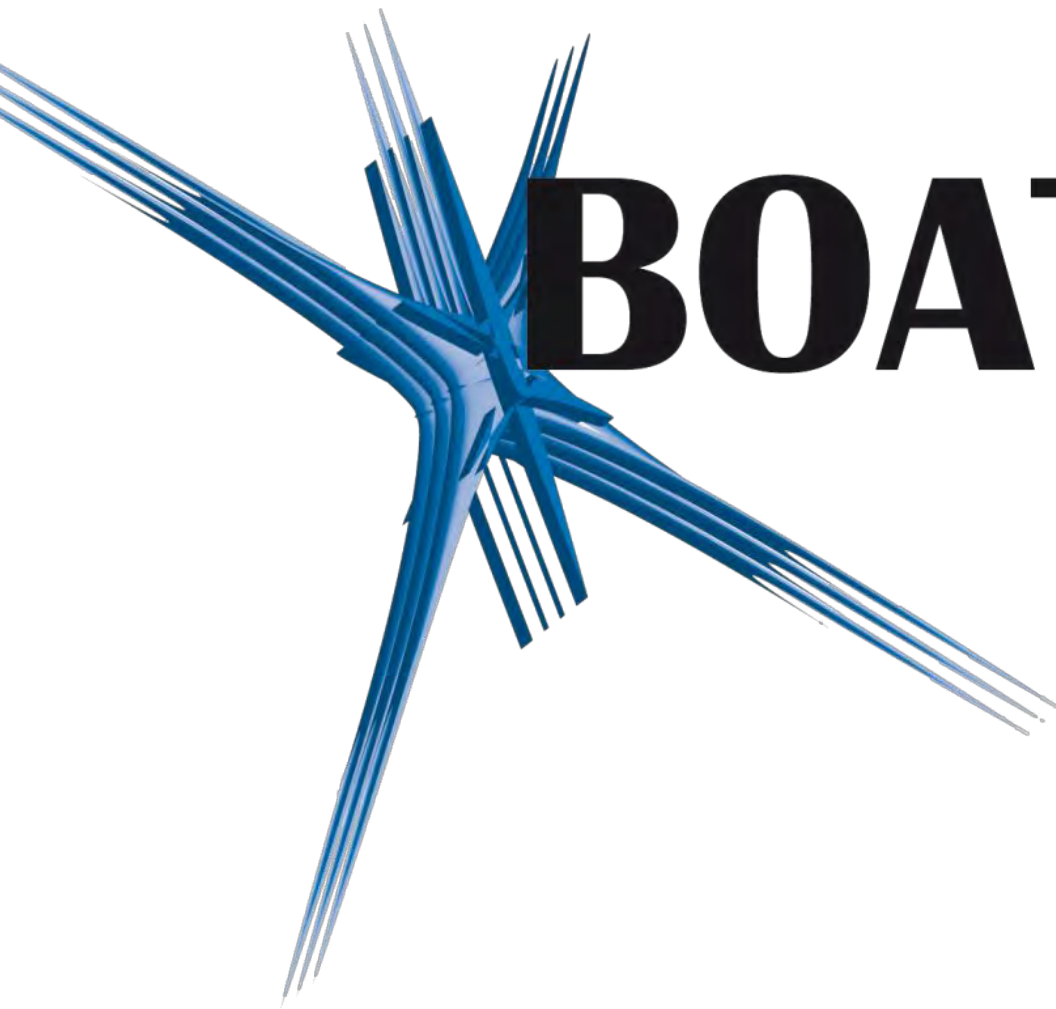
Everyone that takes photos.

More specific:

1. Professional photographers
2. Graphic designers
3. Architects
4. Doctors
4. Weddings
5. Girls that take selfies in the bathroom
6. Parents with small babies



I WANT TO CLEAN BOATS



BOATSTAR

cleaning services

CREATING VALUE

¿How can I start?



Customer list

Everyone that owns a ship.

More specific:

1. Boat Owners (B2C)
2. Megayachts owners.
3. Nautic motorbikes owners.
4. Ship rental companies
5. Nautic clubs
6. Maintenance companies

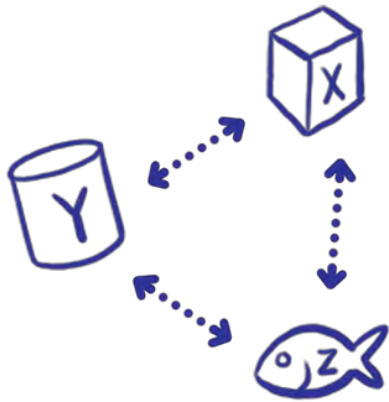
Customer list

Everyone that ownes a ship.

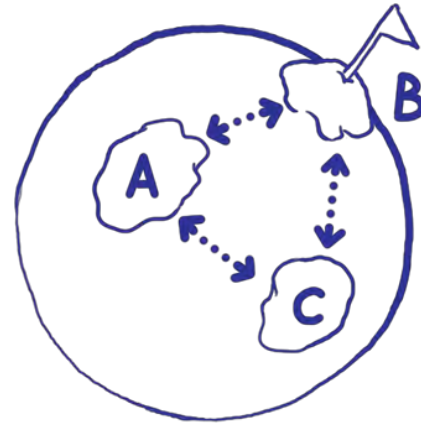
More specific:

1. Boat Owners (B2C)
2. Megayachts owners.
3. Nautic motorbikes owners.
4. Ship rental companies
5. Nautic clubs
6. Maintenance companies

Market Segmentation

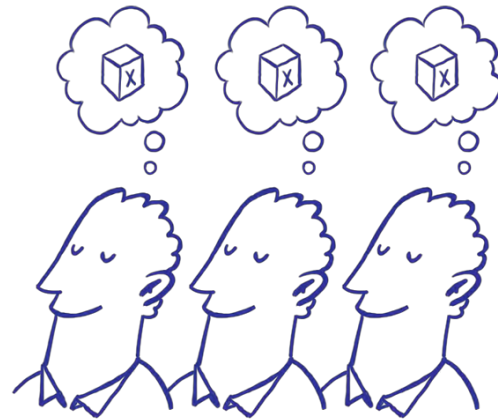


Segment by product
requirement



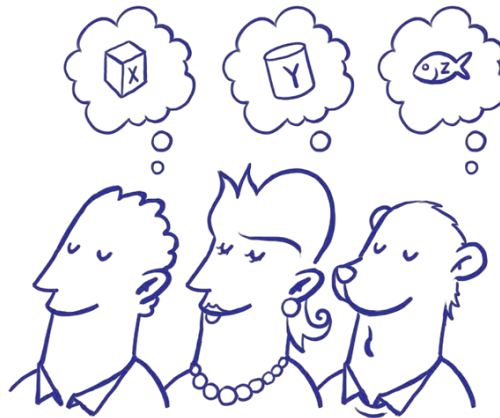
Segment by geography

Find Homogeneous Segments



Homogeneous
Segment

Non-Homogeneous
Segment



Exercise: Brainstorm (60 min)

- Make **Groups** Of 3 **Different** Startups
- Brainstorm For **15 min** About 1 Startup
 - Short Intro About Deal
 - Others Give Input For Possible Reasons/Markets
 - Collect Input On Sticky Notes
- Then **Switch** To Next Startup
- Last **15 min** Sort And Group Collected Ideas



Tips & Tricks

- We are looking for customers, not technical applications
- You only have 15 min, do not spend it all on explaining your technology
- Write down 1 customer per post-it
- Do not hold back, generate as many ideas, we sort and select later

Where to start?



- Resources are limited
- You need to pick 1 segment to conquer first
- Establish credibility
- Then conquer the other segments

Beachhead Market

- Your first entry into the market
- Small enough to become a significant player
- Big enough to generate some cash



Selection Criteria

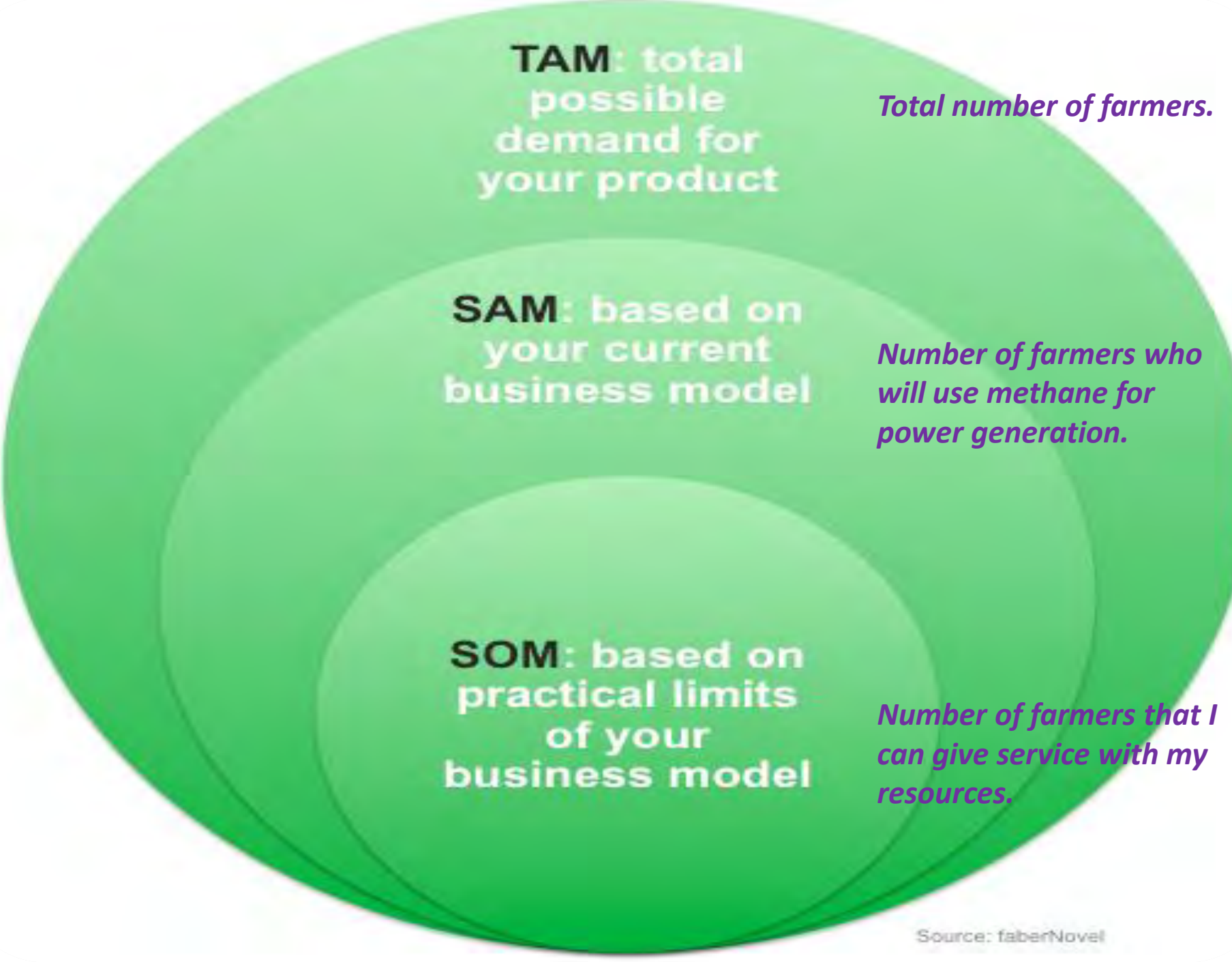
- Buyer?
- Well-funded?
- Accessible?
- Buying reason?
- Whole product?
- Competition?
- Next segment?
- Founder's Dream?

| Market Segment <i>Describe the market segment</i> | Wind blade producers | Marine | Railway | Automotive | Aeronautic | Singular Buildings |
|---|-------------------------|--------|---------|------------|------------|-----------------------|
| Buyer <i>Is there a single, identifiable economic buyer?</i> | 3 | 1 | 2 | 3 | 3 | 0 |
| Well-funded? <i>Is the target customer well- funded?</i> | 3 | 1 | 2 | 3 | 3 | 3 |
| Accessible? <i>Is the target customer readily accessible to you?</i> | 2 | 1 | 1 | 0 | 2 | 1 |
| Buying reason? <i>Does the customer have a compelling reason to buy?</i> | 3 | 1 | 1 | 0 | 1 | 2 |
| Whole product? <i>Can you deliver a whole product?</i> | 3 | 3 | 3 | 1 | 2 | 3 |
| Competition? <i>Is there competition that could block you?</i> | 0 | 2 | 2 | 0 | 2 | 2 |
| Next segment <i>If you win this segment, will it help enter additional segments?</i> | 3 | 3 | 1 | 2 | 2 | 0 |
| Founder's Dream <i>Is the market consistent with your Founder's Dreams?</i> | 3 | 2 | 1 | 2 | 3 | 1 |
| Total Score | 20 | 14 | 13 | 11 | 18 | 12 |

Example

Exercise: Beachhead Market (45 min)

- Select 6 market segments from your brainstorm
- Fill in the table and rank each segment for each criteria (1-5)
- Then select your Beachhead Market



TAM: total
possible
demand for
your product

Total number of farmers.

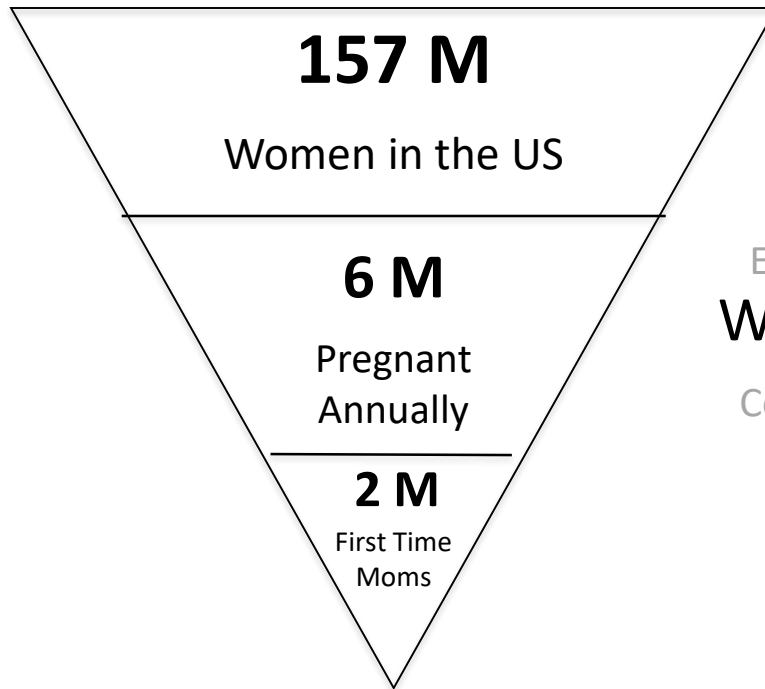
SAM: based on
your current
business model

*Number of farmers who
will use methane for
power generation.*

SOM: based on
practical limits
of your
business model

*Number of farmers that I
can give service with my
resources.*

TAM Sizing Example: inTouch



Technology Savvy

Extend her excitement

Indications

Capture pregnancy experience

Use mobile “apps” to track health

Easy to use

Low maintenance

Want convenience

Real-time feedback

Comfortable to wear

Intuitive

Share monthly pregnancy photos

Share via social media

Connect with family and friends

Update her care network

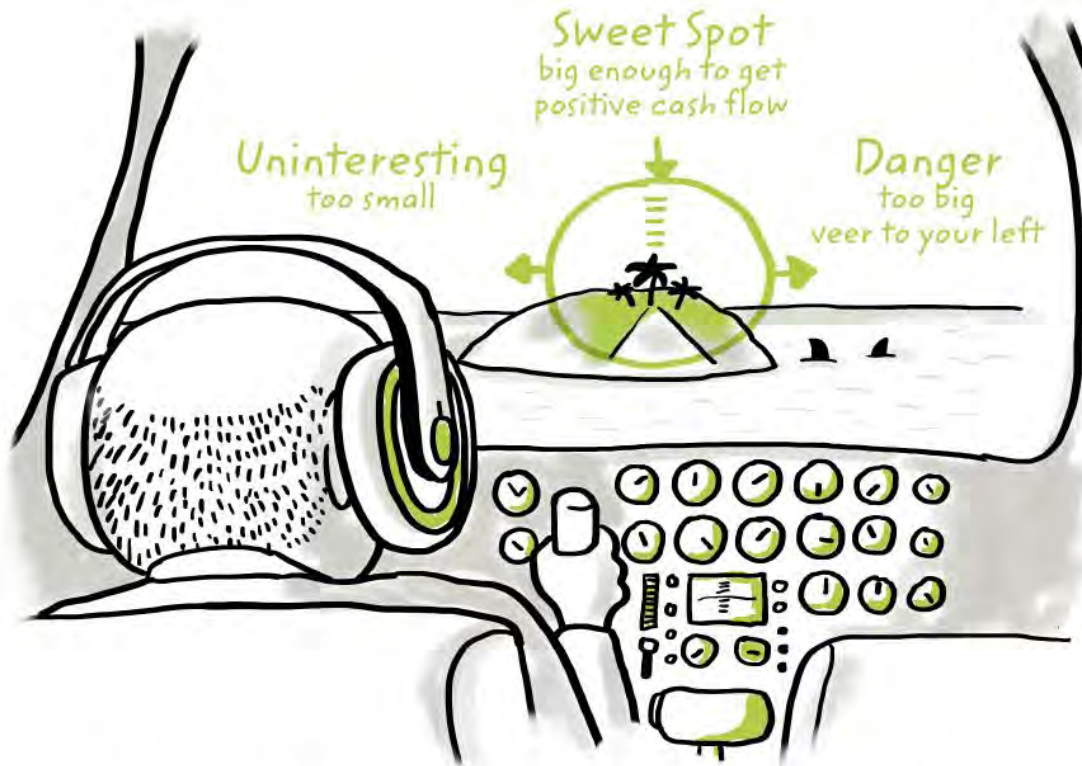
**BUT NOT ENOUGH...
NEED TO GET TO \$'S PER YEAR!**

In the US, there are 2 Million women like Michelle



inTouch

Connecting mommies with their babies



Beachhead TAM calculation
is your sanity check
that you are headed
in the right direction

Beachhead Market

Waste Management Facilities in
Valencia Region

Adjacent Markets

Activities/places
with sewage and
black waters

WWTP

Agroindustry

“Prison”

All Europe
5,000

South
Europe
652

Spain
256

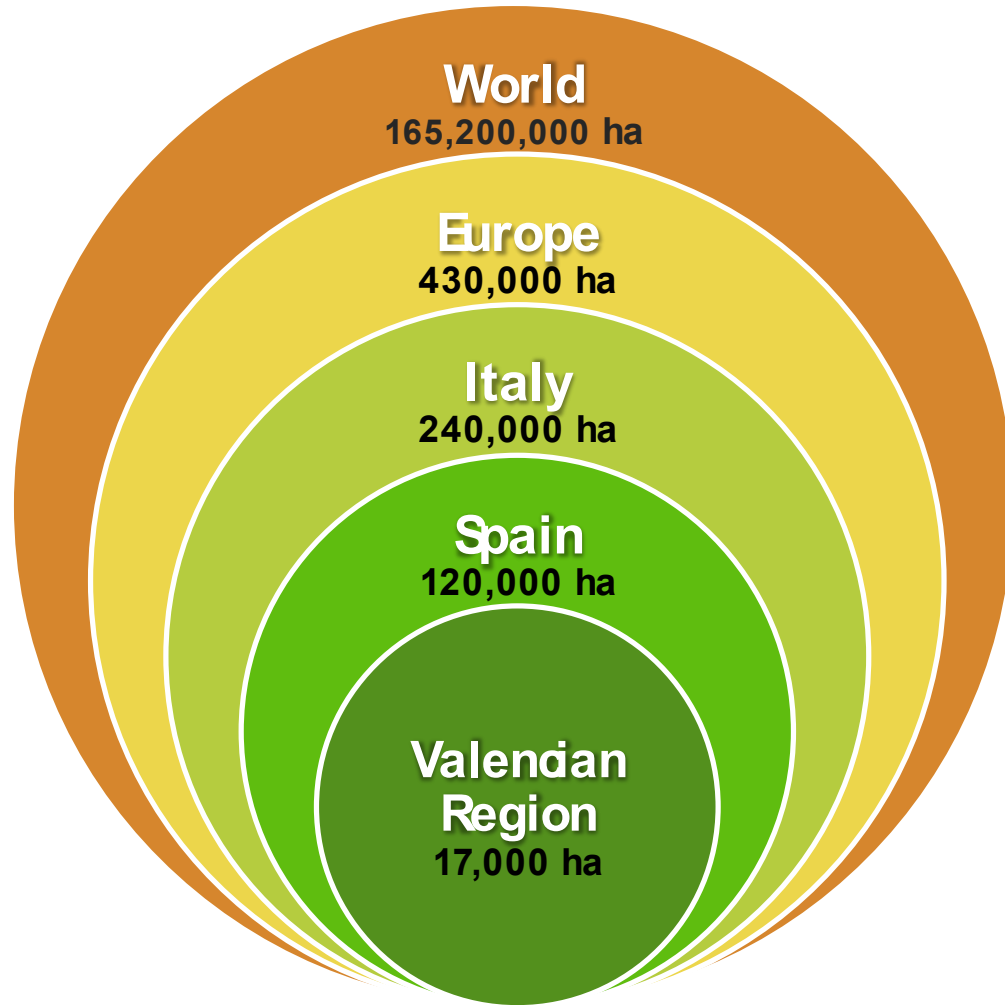
Valencia
Region 25

Market

BEACHHEAD MARKET

RICE PRODUCERS

0% RESIDUE



THE DEAL



RENT

Energetic tiles that
produce electricity



100€/(tile*Day)



MARKET



Europe
10.000

Spain
500

Mediterranean
side
100



Mall



Disco



Metro

Adjacent markets


A black and white photograph of a man with dark, wavy hair, wearing a light-colored button-down shirt. He is holding both hands to his temples, with his fingers spread, suggesting a headache or intense stress. His expression is one of discomfort or pain. The background is a plain, light color. A solid blue horizontal bar is at the top of the image. A semi-transparent grey banner is at the bottom, containing text.

Pain
Aspirina

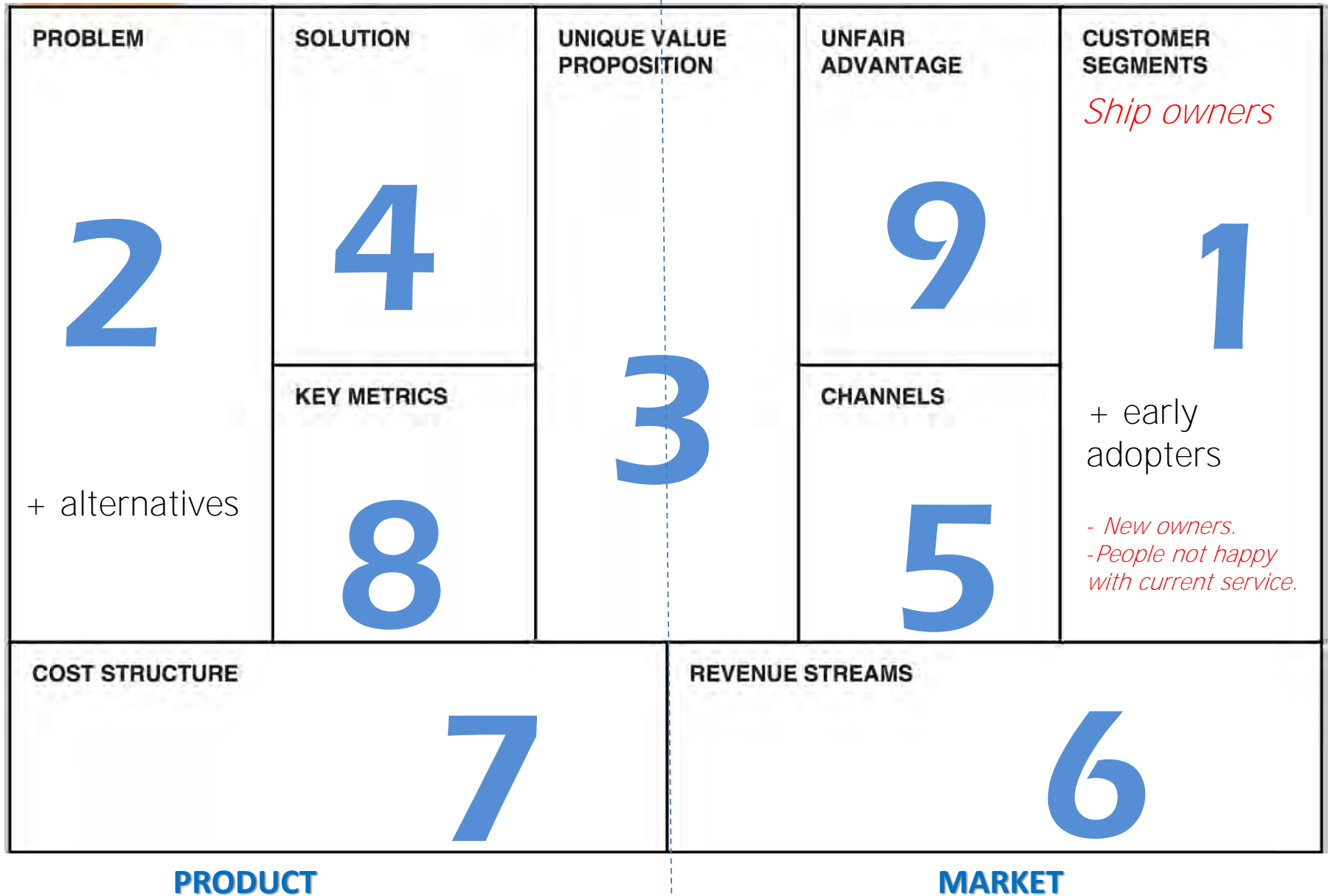
vs.

Delight
Vitaminas

MARKET SEGMENTATION: Planning

- 1) BRAINSTORMING OF POSSIBLE
CUSTOMER SEGMENTS
 - 2) PICK YOUR BEACH HEAD MARKET
 - 3) QUANTIFY THE MARKET, MAKE A PLAN
 - 4) PLAN WHO WILL BE YOUR EARLY
ADOPTER
 - 5) FILL THE SLOT IN THE CANVAS
- 

LEAN CANVAS – Ash Maurya



VALUE PROPOSITION





“Hi There...”

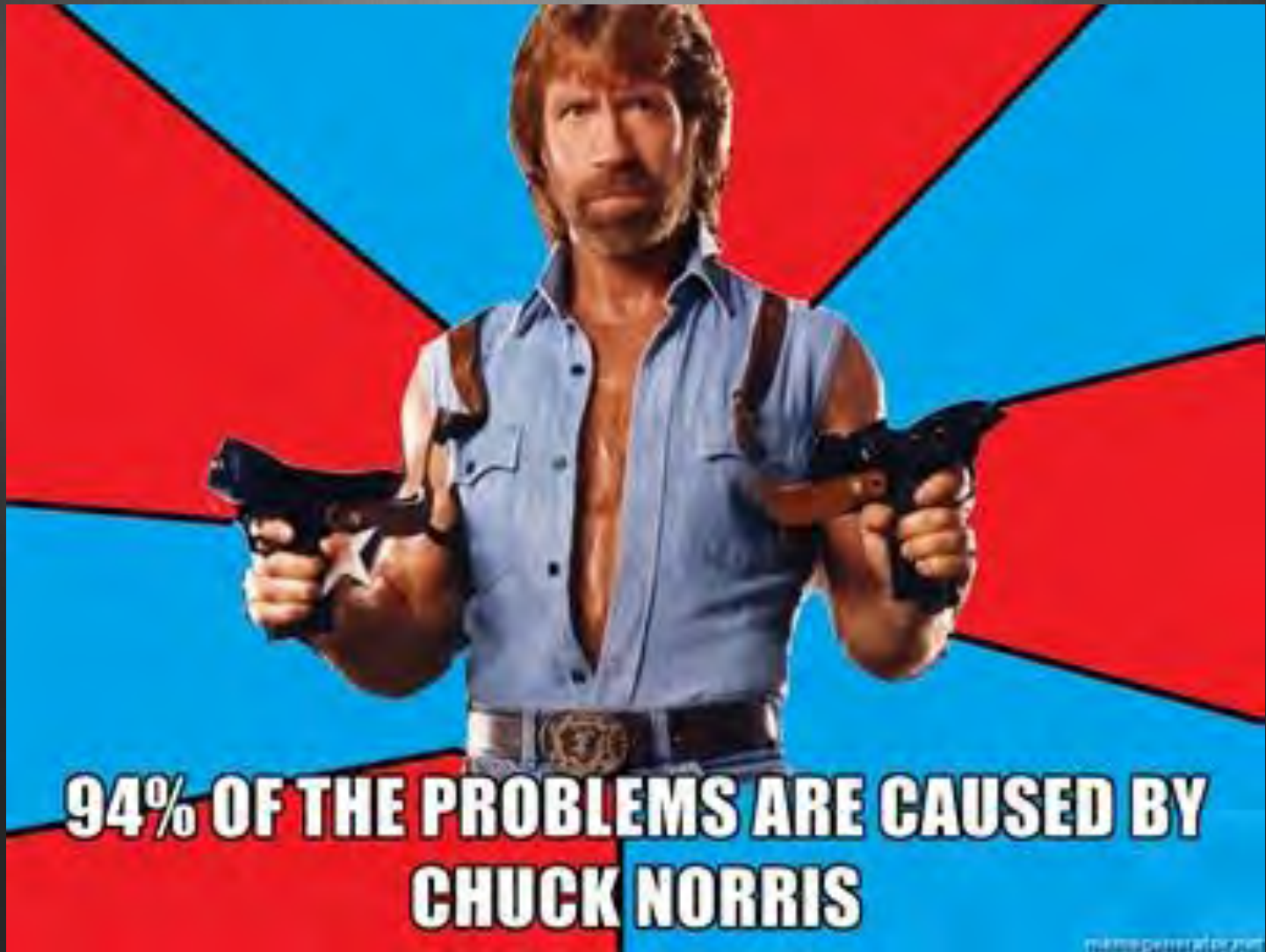




What's your customer's problem



What's your customer's problem



PRODUCT/SERVICE

- Problem**
- Product Description**
- COMPETITIVE ADVANTAGE**

SOCIAL IMPACT

BUSINESS SYSTEM AND ORGANIZATION

Why buy your product?

- Addresses a need, solves a pain or problem?
- In B2C reasons can be both economical and emotional
- In B2B it is always about economic benefit.

How can you help your customer to make more money?

VALUE PROPOSITION: B2C

1) CHEAPER

2) BETTER:

1) INNOVATION, TECH, PERFORMANCE

2) CUSTOMIZATION

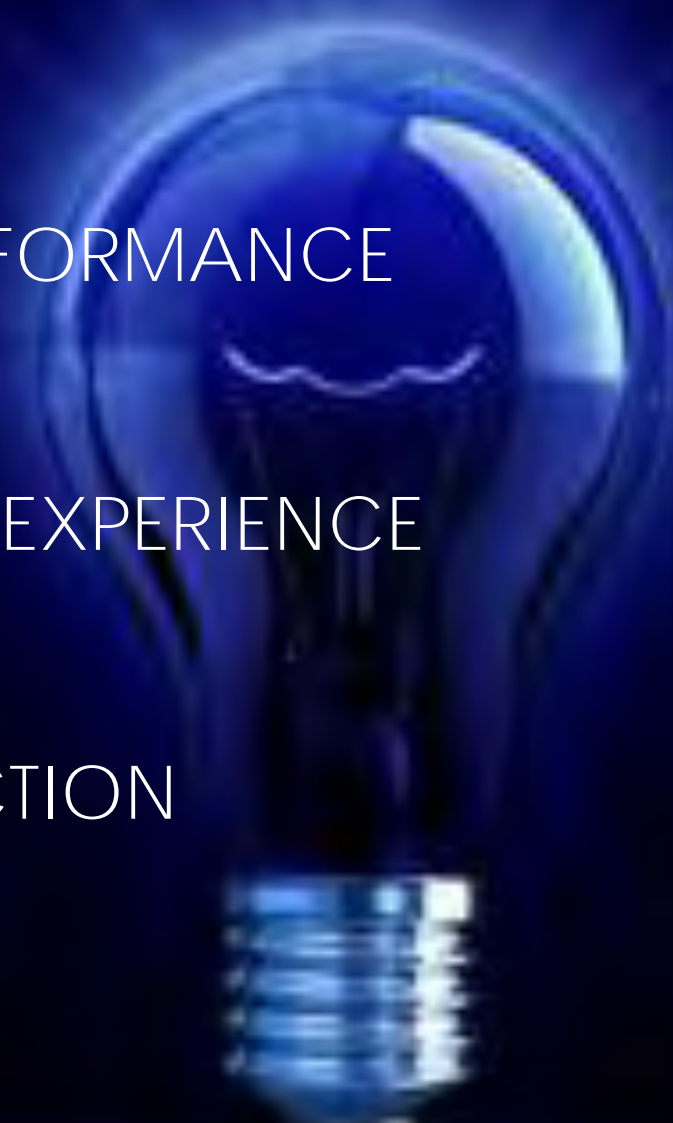
3) DESIGN, USABILITY, USER EXPERIENCE

4) BRAND

5) LONG TERM COST REDUCTION

6) JOB TO BE DONE

7) OTHER: ECO, SOCIAL...



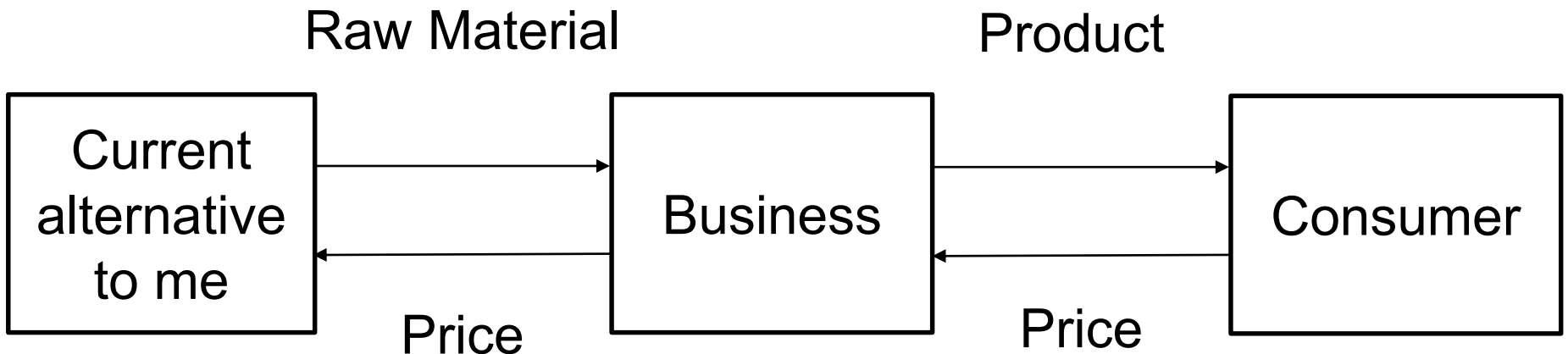
VALUE PROPOSITION: B2B

INCREASE BENEFITS

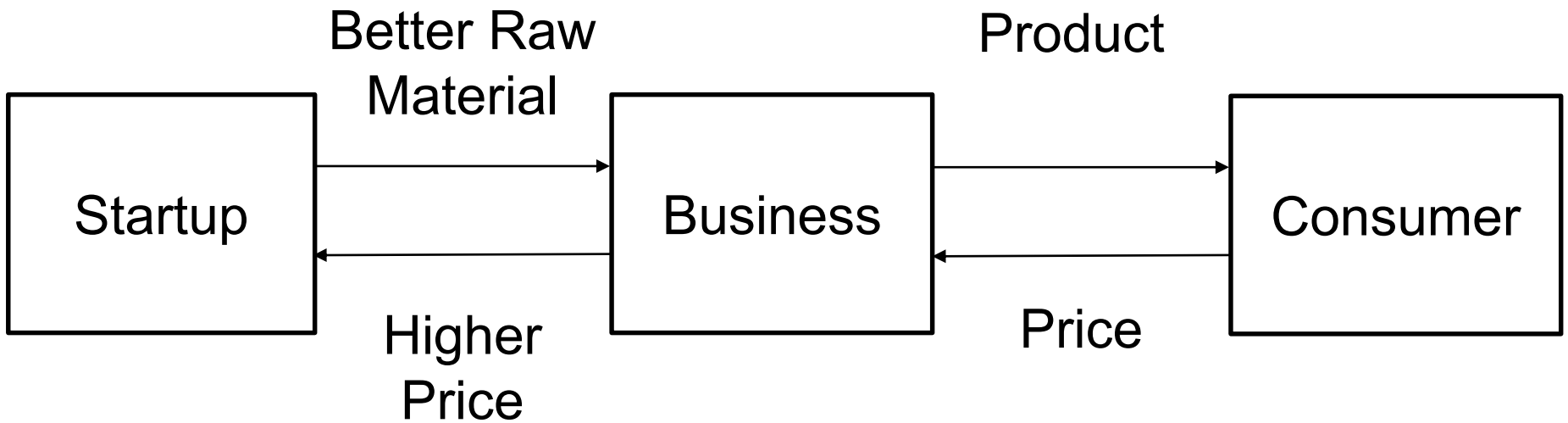
- 1) COST REDUCTION
- 2) IMPROVE QUALITY (INCREASE FINAL PRICE)
- 3) REACH NEW MARKET SEGMENT



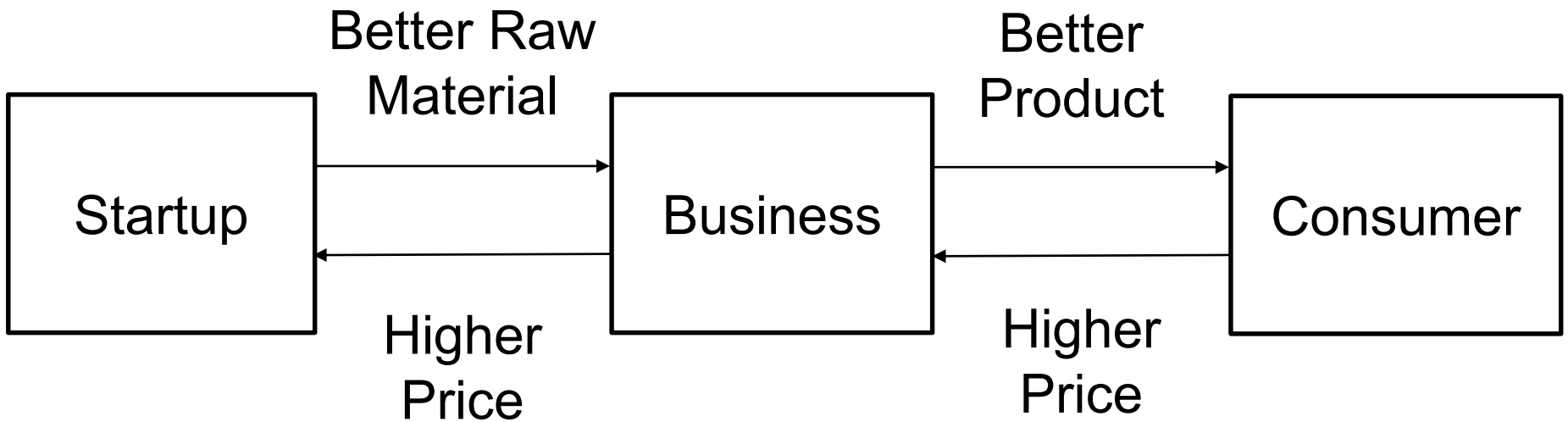
A Business Model chain:



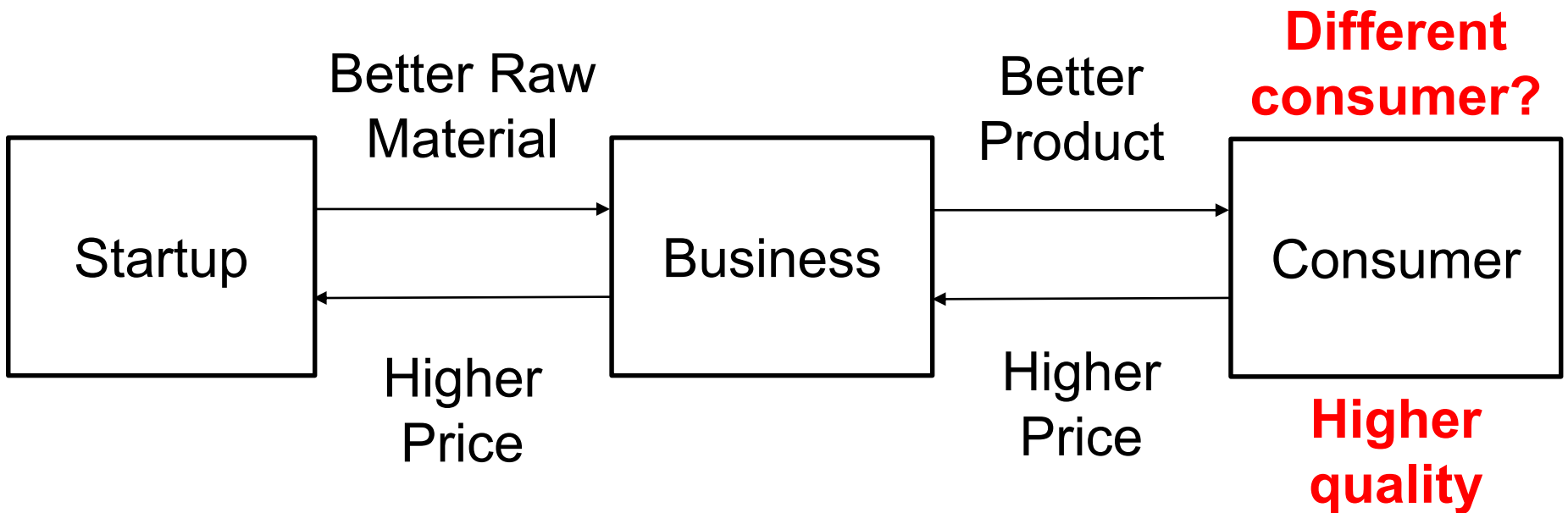
My Business Model chain:



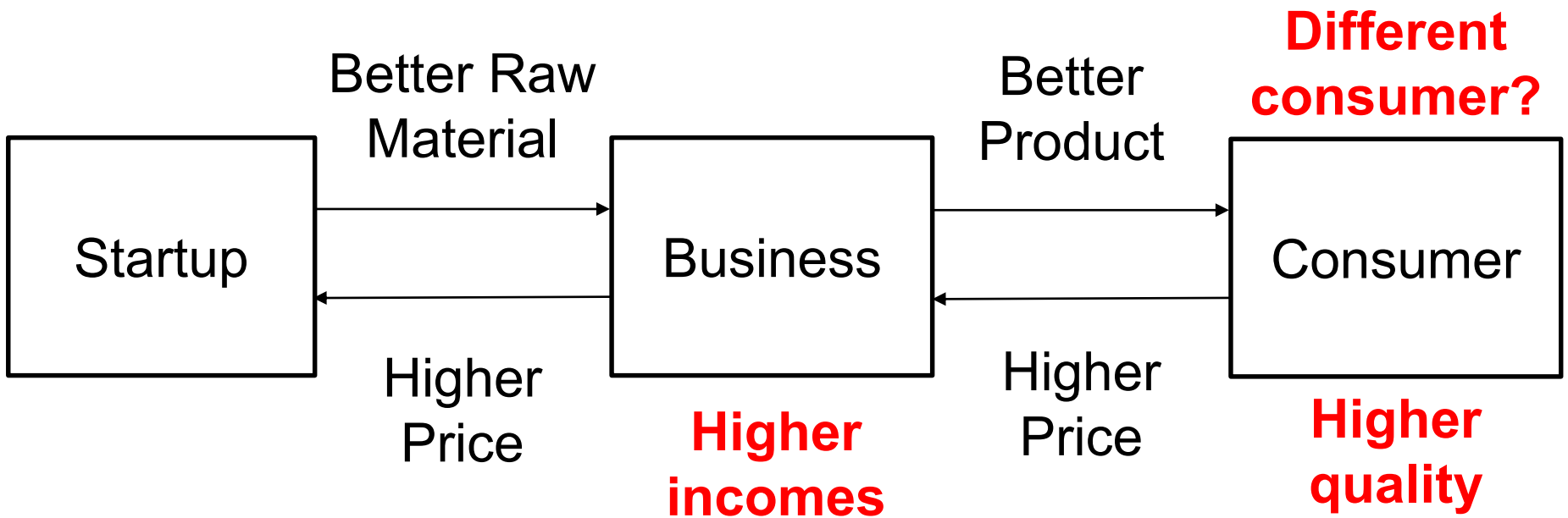
My Business Model chain:



My Business Model chain:

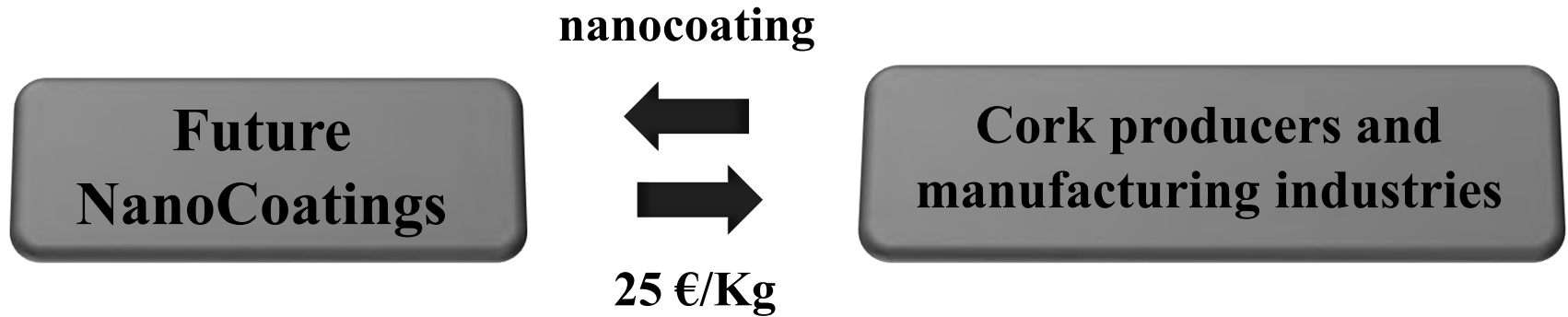


My Business Model chain:



The Deal

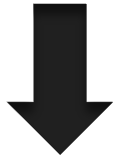
- ✓ Coatings that bind to the material at a nanometer level:
 - ✓ Improved properties (fire, water and UV resistance, among other);
 - ✓ Retain original aspect and texture;



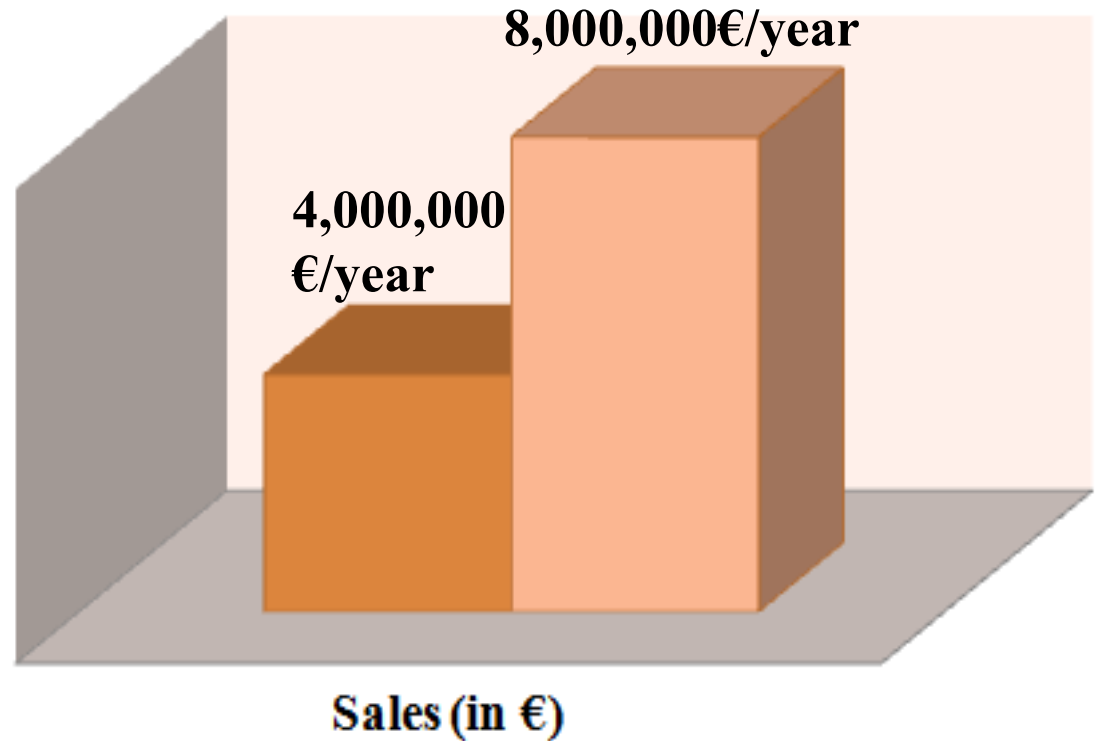
- ✓ **Market of €2 billion;**

With Future NanoCoatings

↑ 2 €/m²



↑ 50%



VALUE PROPOSITION: Planing

- 1) Define and quantify your **customer's** pain
 - 2) Define alternatives/competitors
 - 3) Define solution
 - 4) Decide Value Proposition. If B2C, choose better or cheaper.
 - 5) Quantify Value Proposition.
 - 6) Define High Concept Pitch.
 - 7) Fill in slots 2, 3 & 4 of your Lean Canvas.
- 
- A glowing lightbulb is positioned on the right side of the slide, partially overlapping the text. It is illuminated from within, casting a warm glow against the dark blue background. The bulb is slightly out of focus, emphasizing the text.

What's your customer's problem?

When I'm hungry, I usually don't have much time or money, but I'm tired of hamburgers and I want change of pace. Also, I'd like to be able to specify the exact ingredients I want in my meal. And, it would be really swell to have a glass of wine or beer with the meal.

Describe the problem:

- Not much money
 - Not much time
- Cannot specify ingredients
- No wine or beer included

~~Problems~~

Solutions



Problem

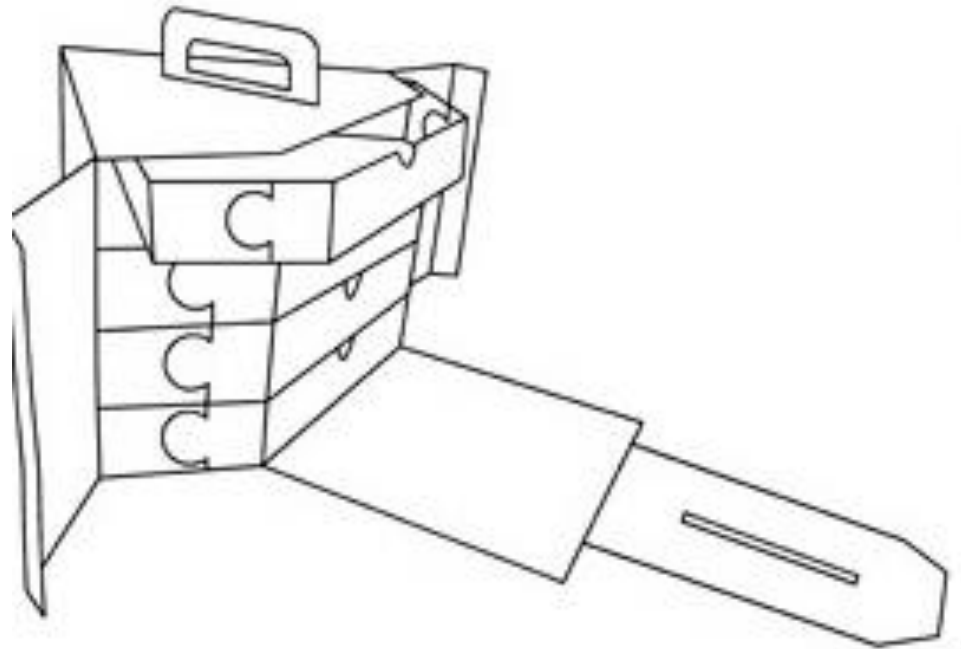
- Not much money
- Not much time
- Cannot specify ingredients
- No wine or beer included

Solution

- Cheap slices of pizza.
- Cool box for taking away.
- Select your 3 favourite ingredients. X€ per additional

Define your main product:

Meal consisted of cheap slices of pizza (customer can specify 3 ingredients) with cool box for taking away and a free drink.



Define your product:

1) Meals for taking away:



PIZZA

+



“COOL” BOXES



+

DRINKS

Define your product:

2) Pizza lovers:



HEART SHAPPED PIZZA



+ "COOL" BOXES



+ DRINKS

Define your product:

3) Plastic boxes for slices:



Describe value proposition of each product:

1) Meals for taking away:



PIZZA

CUSTOMIZATION
GETTING JOB DONE



+ "COOL" BOXES

DESIGN



+ DRINKS

BRAND?
PRICE?

Define your product:

2) Pizza lovers:



HEART SHAPPED PIZZA

CUSTOMIZATION
+
SEGMENTATION



+ "COOL" BOXES

DESIGN



+ DRINKS

BRAND?

Define your product:

3) Plastic boxes for slices:



USER EXPERIENCE

DESIGN

IMPACT IN CLIMATE CHANGE (for not using cardboard boxes)

EXAMPLE 2: VALUE PROPOSITION

Provider of Paint for building sector.

VALUE PROPOSITION

Climate friendly Paint – 15% more expensive.

EXAMPLE 2: VALUE PROPOSITION

Provider of Paint for building sector.

VALUE PROPOSITION

Climate friendly Paint – 15% more expensive.

NOBODY BOUYED IT!!!!!!

EXAMPLE 2: VALUE PROPOSITION

Customer pain: Taskforce is 70% of total costs.

VALUE PROPOSITION

**Paint dries in 6h instead of 24h, so you can apply 2nd layer the same day.
AND it's climate friendly.**

EXAMPLE 2: VALUE PROPOSITION

Customer pain: Taskforce is 70% of total costs.

VALUE PROPOSITION

**Paint dries in 6h instead of 24h, so you can apply 2nd layer the same day.
AND it's climate friendly.**

SUCCESS: PRICE 40% MORE EXPENSIVE!!!!

EXAMPLE 2: VALUE PROPOSITION

Problem: 70% of the costs are related to taskforce.

Solution: Paint that dries in 6h.

VALUE PROPOSITION: Reduce the costs in 50% .

Alternatives: Paint that dries in 24 h. No reduction in taskforce costs.

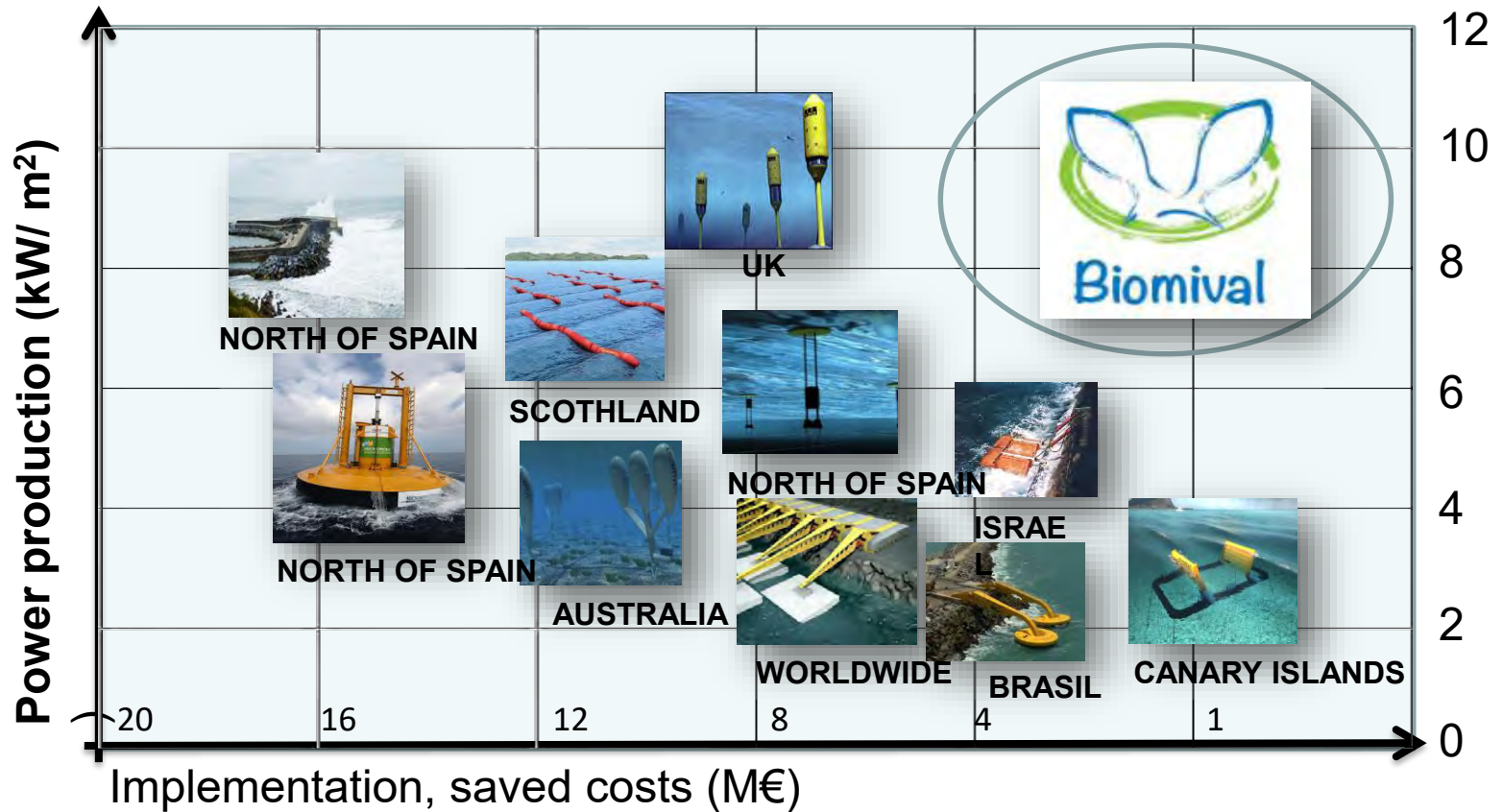
Describe your competitors:

- A competitor is not someone developing the same product as you, is someone that is giving an alternative solution to the same problem your product is giving an answer to.

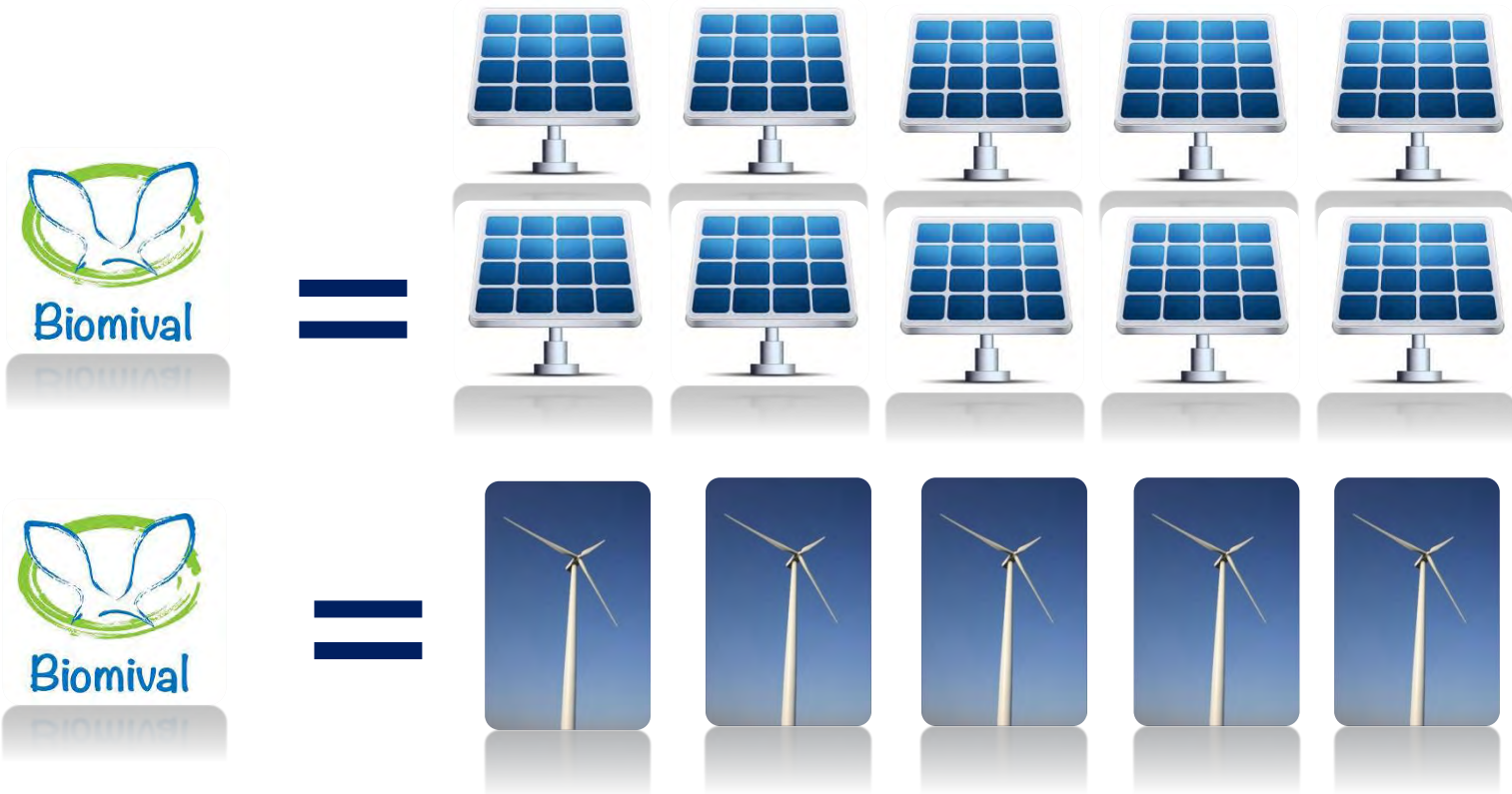
Describe your competitors:

- Give numbers.
 - What are their products and prices?
 - Why your products are different and better?
-
- Knowing your competitors prices is very useful for deciding your product price.

ANALYSIS OF COMPETITORS



BIOMIVAL COMPARED TO SOLAR/WIND POWER GENERATION



... CONSTANT, PREDICTABLE AND HAS NO POWER VALLEYS.

Product Comparison Template

Slide **HUNTER**

| Best Options | Product 1 | Product 2 | Product 3 |
|-----------------|-------------------------------|-------------------------------|-------------------------------|
| Sample criteria | ✓ Sample Text GOOD FEATURE | ⚡ Sample Text BAD FEATURE | ✗ Sample Text BAD FEATURE |
| Sample criteria | ✓ Sample Text GOOD FEATURE | ⚡ Sample Text BAD FEATURE | ✓ Sample Text GOOD FEATURE |
| Sample criteria | ⚡ Sample Text BAD FEATURE | ✓ Sample Text GOOD FEATURE | ✗ Sample Text BAD FEATURE |
| Sample criteria | ✓ Sample Text GOOD FEATURE | ✓ Sample Text GOOD FEATURE | ✗ Sample Text BAD FEATURE |
| Sample criteria | ✓ Sample Text GOOD FEATURE | ⚡ Sample Text BAD FEATURE | ✗ Sample Text BAD FEATURE |
| Sample criteria | ✓ Sample Text GOOD FEATURE | ✗ Sample Text BAD FEATURE | ⚡ Sample Text BAD FEATURE |
| Sample criteria | ✓ Sample Text GOOD FEATURE | ⚡ Sample Text BAD FEATURE | ✗ Sample Text BAD FEATURE |
| Sample criteria | ✗ Sample Text BAD FEATURE | ⚡ Sample Text BAD FEATURE | ⚡ Sample Text BAD FEATURE |
| Sample criteria | ⚡ Sample Text BAD FEATURE | ⚡ Sample Text BAD FEATURE | ✗ Sample Text BAD FEATURE |
| Conclusion | ✓ ACCEPTABLE | ⚡ UNDESIRABLE | ✗ REJECTED |



“We don’ sell drills, we sell perfect
holes”.

Black & Decker

“We don’t sell machines, we sell
solutions”.

Put your company name here.

Bicycle Street Equipment



bicycle Self-Service Station



secure Bicycle Parking

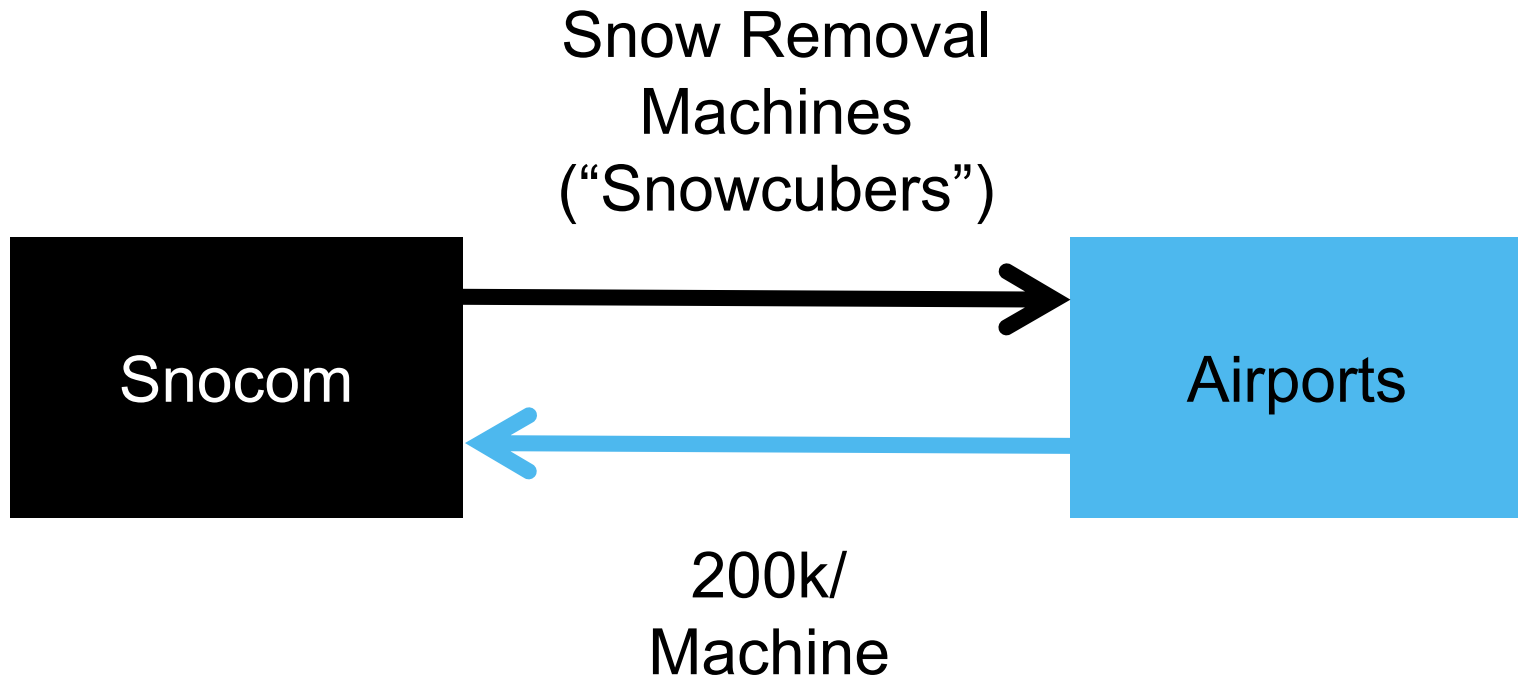
Bicycle Self-Service Stations & Secure Parkings



VALUE PROPOSITION: Planing

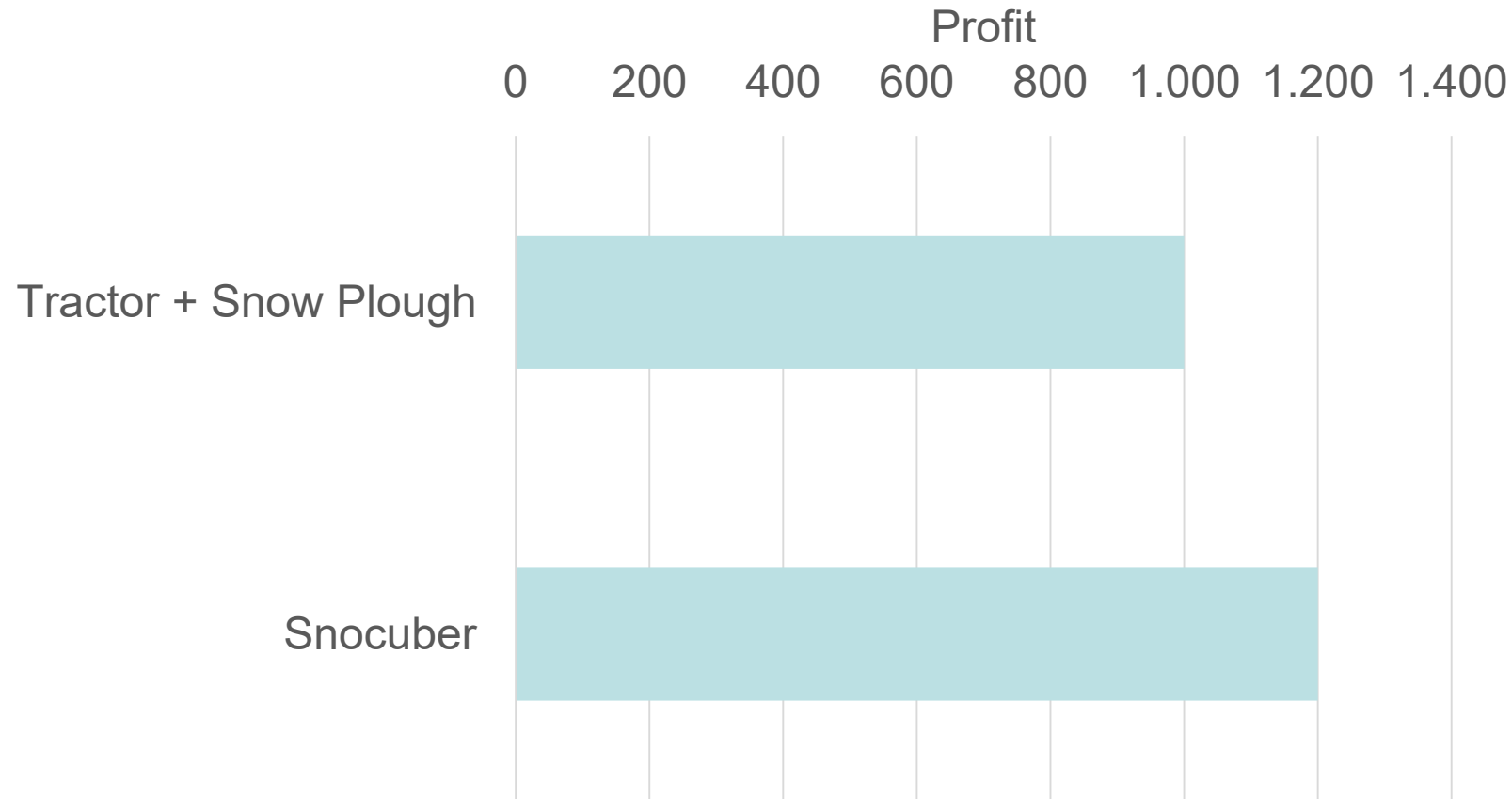
- 1) Define and quantify your **customer's** pain
 - 2) Define alternatives/competitors
 - 3) Define solution
 - 4) Decide Value Proposition. If B2C, choose better or cheaper.
 - 5) Quantify Value Proposition.
 - 6) Define High Concept Pitch.
 - 7) Fill in slots 2, 3 & 4 of your Lean Canvas.
- 

Example: Snocom



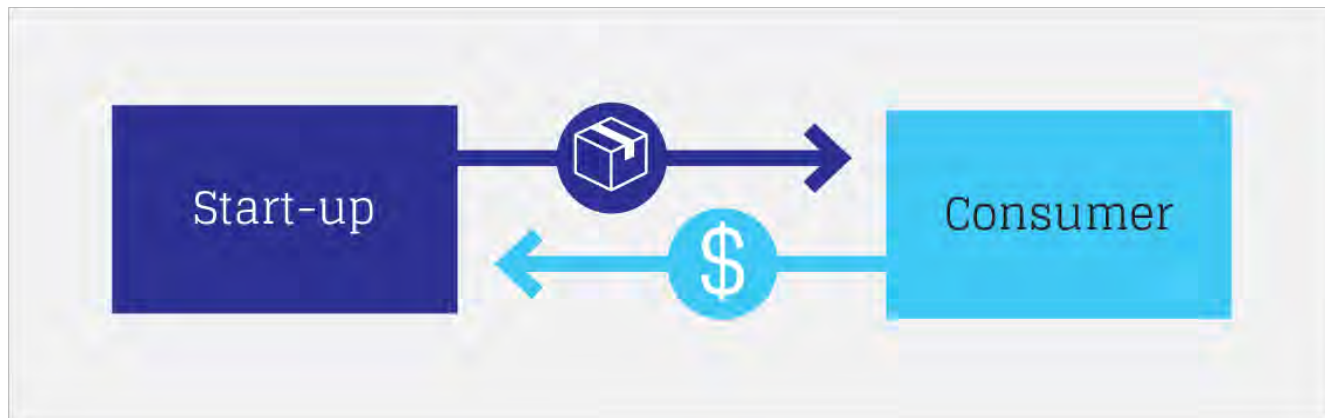


Airport wants to operate more profitably



B2C is always about..

1. Better
2. Cheaper



Example:

Solease



The screenshot shows the homepage of the Solease website. The browser's address bar displays 'www.sol-ease.nl'. The website's header features the Solease logo, which consists of a blue sphere with a white grid pattern, followed by the text 'Solease' in a large, bold, blue font and 'Solar energy made easy' in a smaller, italicized font below it. To the right of the logo is a login section with input fields for 'Gebruikersnaam' and 'Wachtwoord', and a blue 'Log in' button. Below the header is a blue navigation bar with white text links: 'Home', 'Ons aanbod', 'Voor wie', 'Klantervaringen', 'Over zonne-energie', 'Over ons', 'Veel gestelde vragen', and 'Klantportaal'. The main content area has a white background. On the left, there is a headline in blue: 'Huur maakt zonne-energie bereikbaar voor iedereen'. Below this is a paragraph of text in black: 'Solease verhuurt zonnestroomsystemen aan particulieren middels een totaal ontzorgd concept. Je krijgt een vast maandbedrag inclusief financiering, installatie, monitoring, onderhoud, reparatie en verzekering. Je wordt dus zonder investering, gedoe en risico zelf een onafhankelijke groene energieproducent met jouw eigen dak. Tevens ben je beschermd voor toekomstige prijsstijgingen en zal je al vanaf jaar 1 naast CO2 ook gemiddeld 10% besparen op je elektriciteitskosten. Solease biedt exact dezelfde kwaliteit zonnepanelen ook direct te koop aan.' To the right of the text is a 3D illustration of a blue house with a solar panel on its roof. Two gold coins are shown falling into a slot on the solar panel. At the bottom of the main content area is a blue button with white text that reads 'Vrijblijvende offerte'.

Solease BV | Solar Energy made... x +

www.sol-ease.nl

Google

Solease
Solar energy made easy

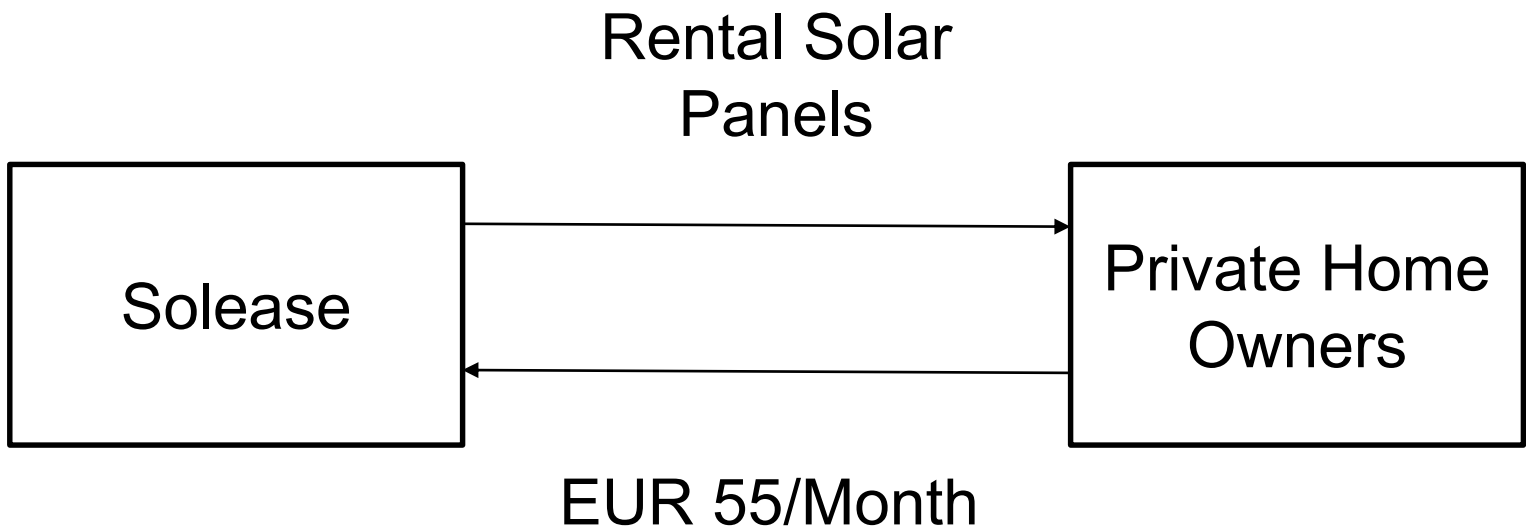
Gebruikersnaam Wachtwoord [Log in](#)

[Home](#) [Ons aanbod](#) [Voor wie](#) [Klantervaringen](#) [Over zonne-energie](#) [Over ons](#) [Veel gestelde vragen](#) [Klantportaal](#)

Huur maakt zonne-energie bereikbaar voor iedereen

Solease verhuurt zonnestroomsystemen aan particulieren middels een totaal ontzorgd concept. Je krijgt een vast maandbedrag inclusief financiering, installatie, monitoring, onderhoud, reparatie en verzekering. Je wordt dus zonder investering, gedoe en risico zelf een onafhankelijke groene energieproducent met jouw eigen dak. Tevens ben je beschermd voor toekomstige prijsstijgingen en zal je al vanaf jaar 1 naast CO2 ook gemiddeld 10% besparen op je elektriciteitskosten. Solease biedt exact dezelfde kwaliteit zonnepanelen ook direct te koop aan.

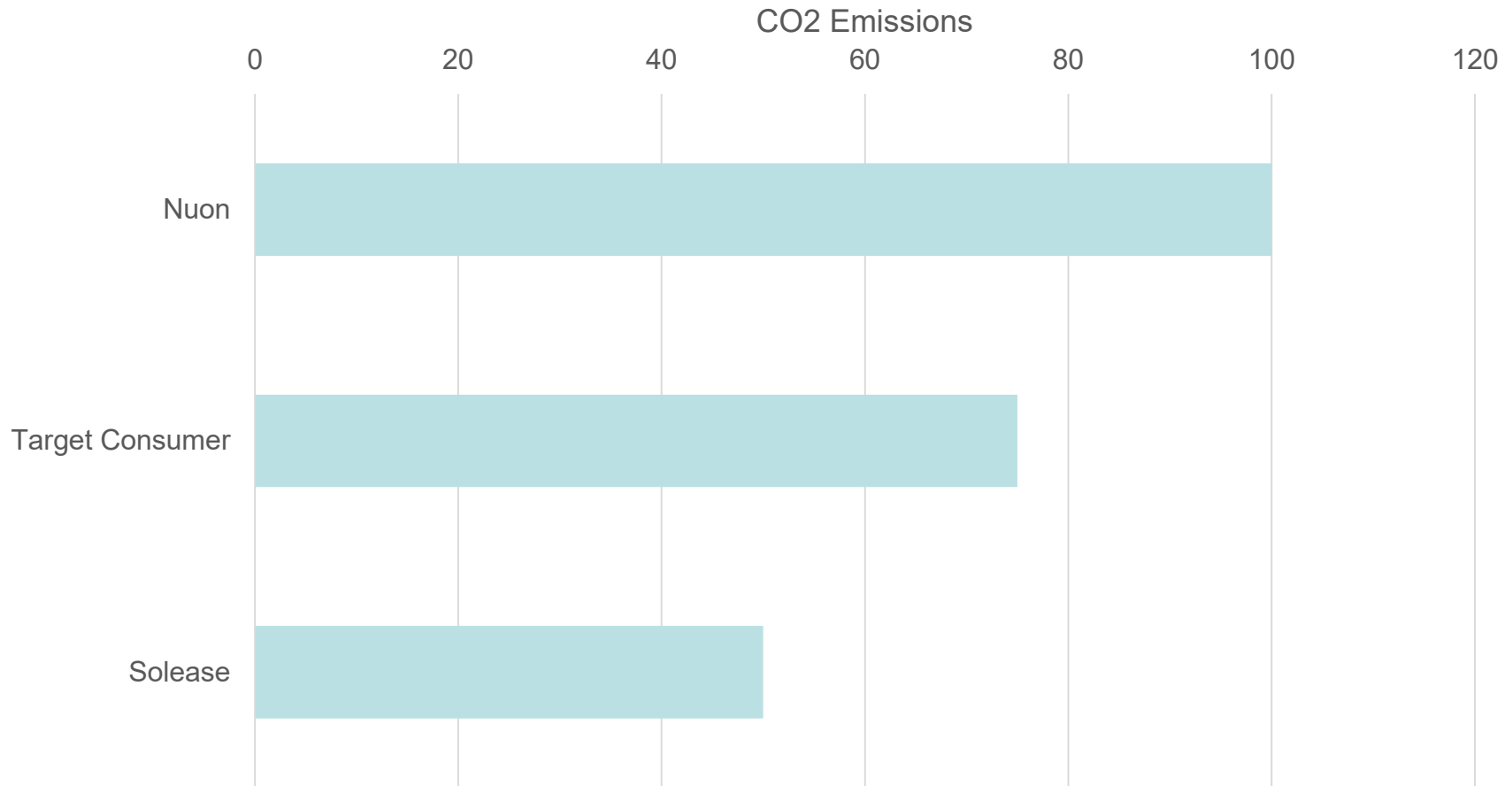
[Vrijblijvende offerte](#)





Private home owner wants

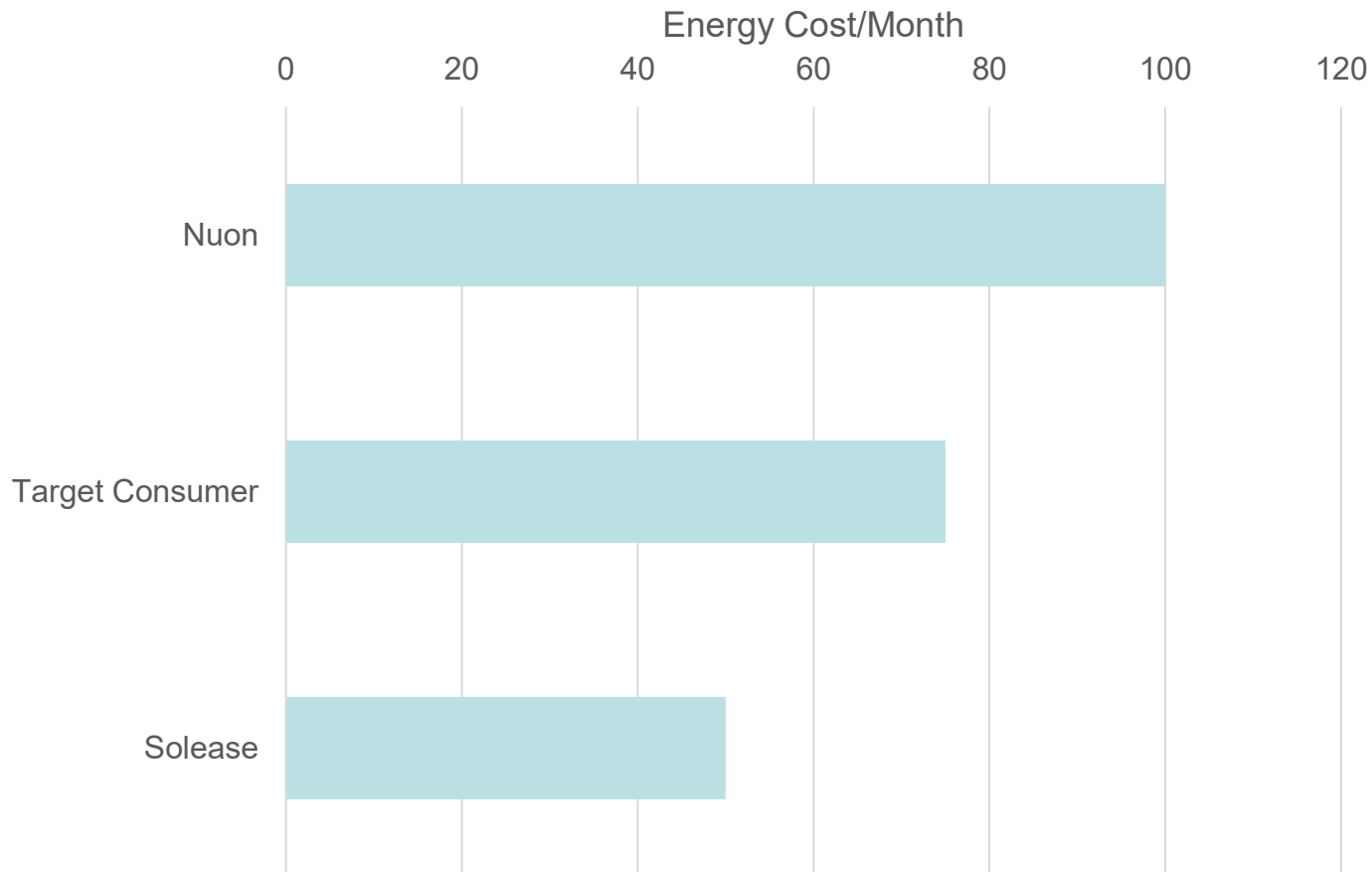
to obtain greener (= better) energy



In conclusion

- What is the customer pain?
 - Current product is not good enough
- Why hasn't he solved his pain yet?
 - Product competitor is not good enough either
- Your product is better
 - So charge at least the same price

Private home owner wants to obtain cheaper energy



In

conclusion

- What is the customer pain?
 - Current product is too expensive
- Why hasn't he solved his pain yet?
 - Product competitor is also too expensive
- Your product is cheaper
 - But has the same quality or less

Value Proposition Example: inTouch

At the moment, Michelle can use...



BabyBeat

GRACO

Heart-rate monitors



Intuition



Professional
Ultrasound

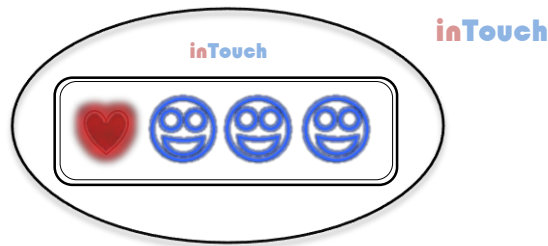


Consult "Dr. Google"

With inTouch, Michelle may...



read to her baby,



then receive feedback.

Facilitating intimacy and providing reassurance.

inTouch

Connecting mommies with their babies

- technology is proven
- Data Collection
 - Heart-rate
 - Movement
- Intellectual Property
 - Algorithm that correlates data to positive response

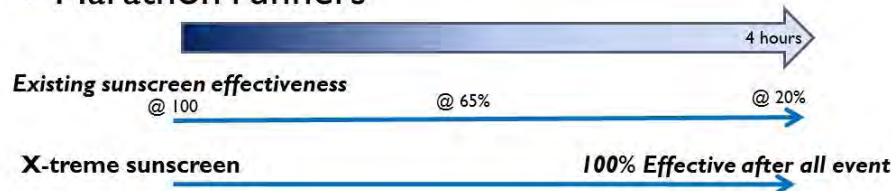
Photos: gadgetrivia.com
mothering.com
sheknows.com
parents.com
allvoices.com

Quant. Value Prop. Example II

- Tri-athletes



- Marathon runners

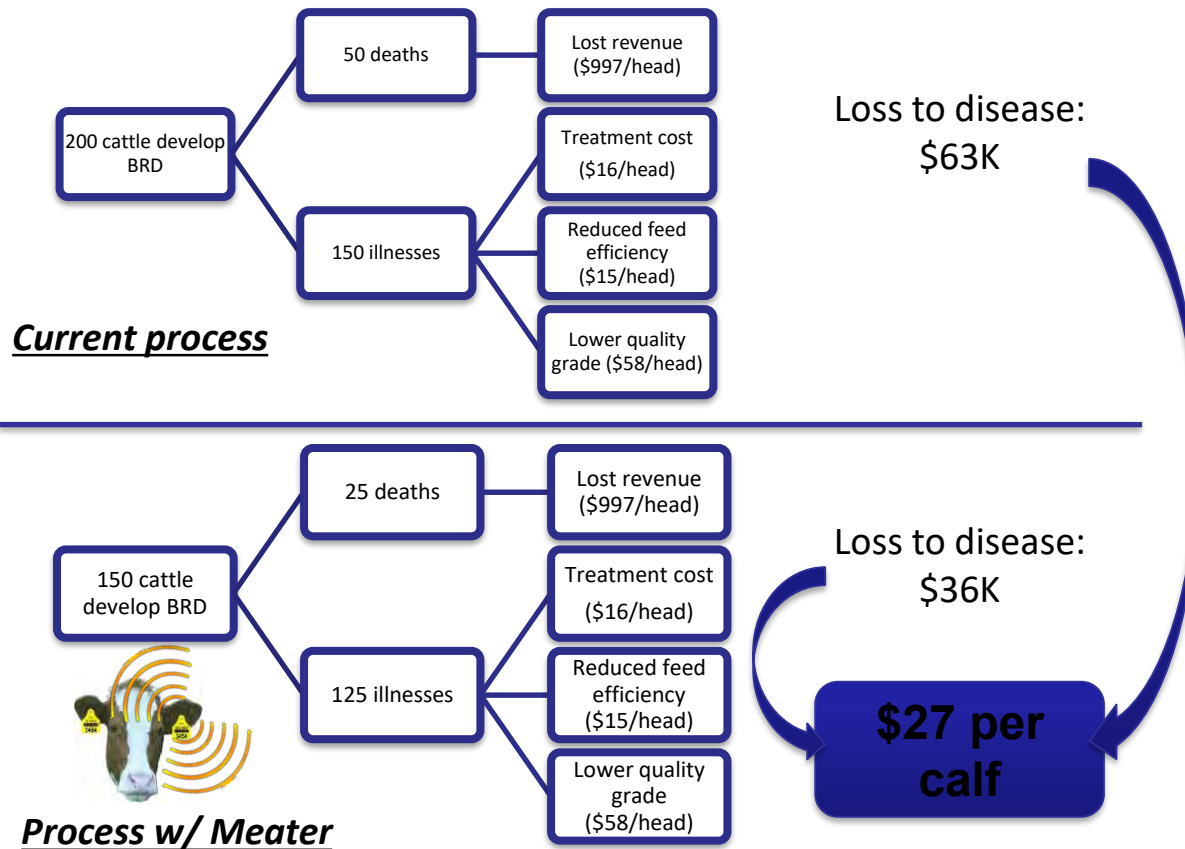


1. SIX times longer duration
2. FIVE times higher effectiveness
3. At least THREE times lower quantity applied.

SMART SKIN CARE Long-lasting protection for your skin

Quant. Value Prop. Example III

Assume Typical Herd Size of 1,000





Coating Solutions for Windturbine Blades



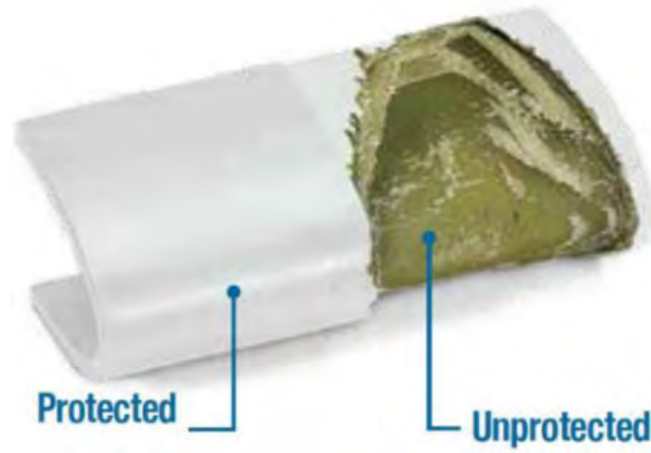
There's a **BIG** pain

300 hours finishing



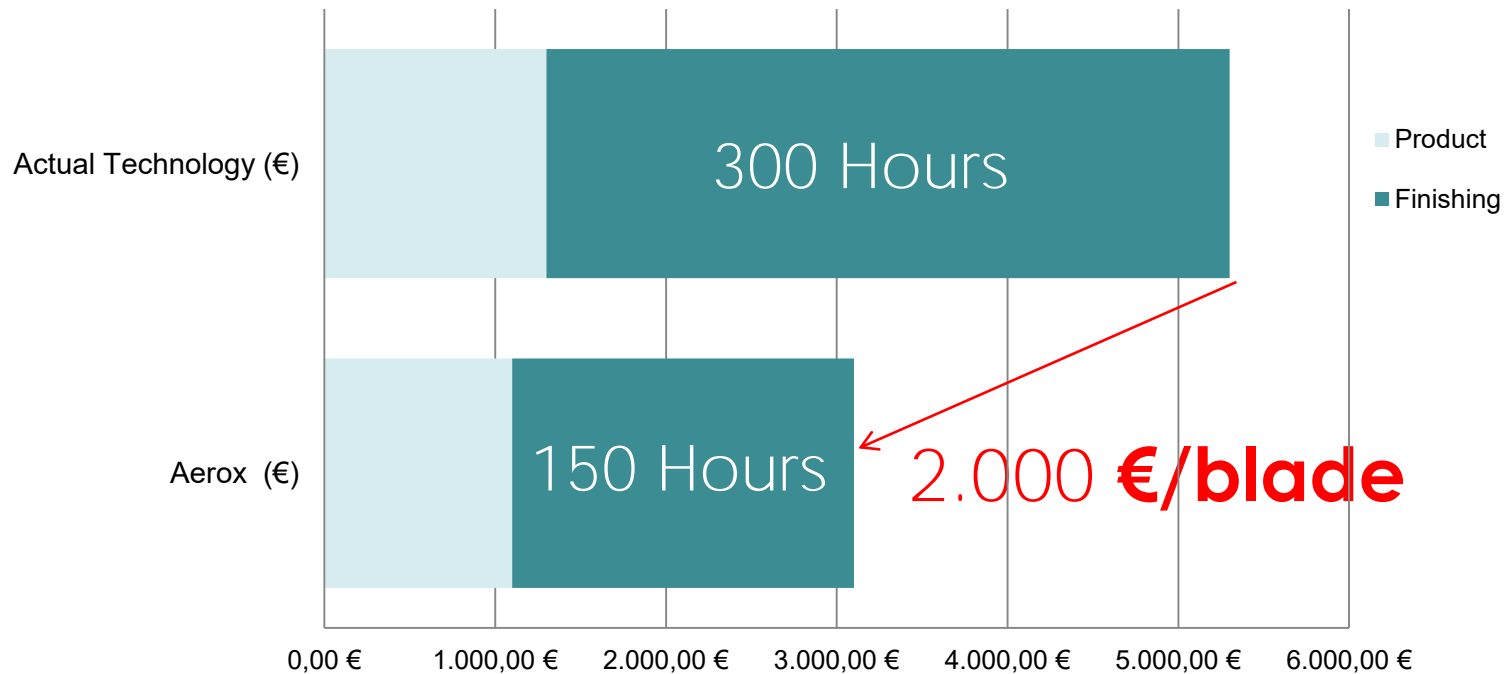
The Need

Surface Protection



OUR solution

50 % Costs Savings



Validated Technology
More than 300 blades



CUSTOMER VALUE PROPOSITION



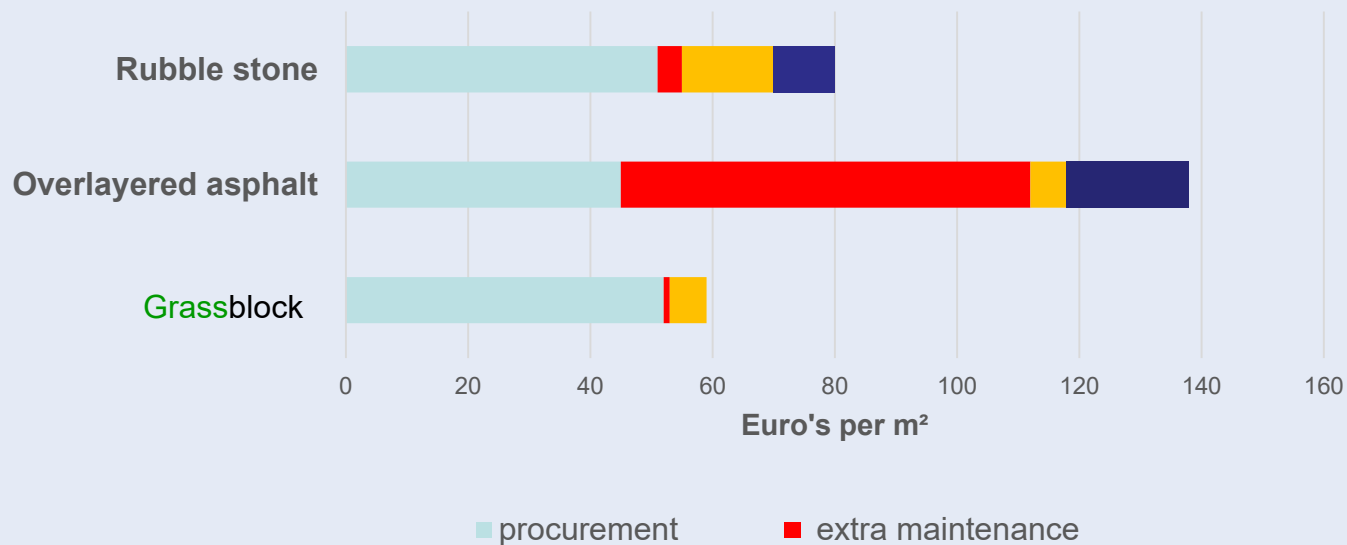
1. Enabling higher towers



2. Lower total cost



Total cost of ownership



Upcycle coffins

PRODUCT

EACH ONE IS UNIQUE
LIKE EACH PERSON



NO METAL
NO VARNISH
RECLAIMED DOORS
RECLAIMED WOOD
RECYCLED TEXTILE
PERSONALIZED
CERTIFIED

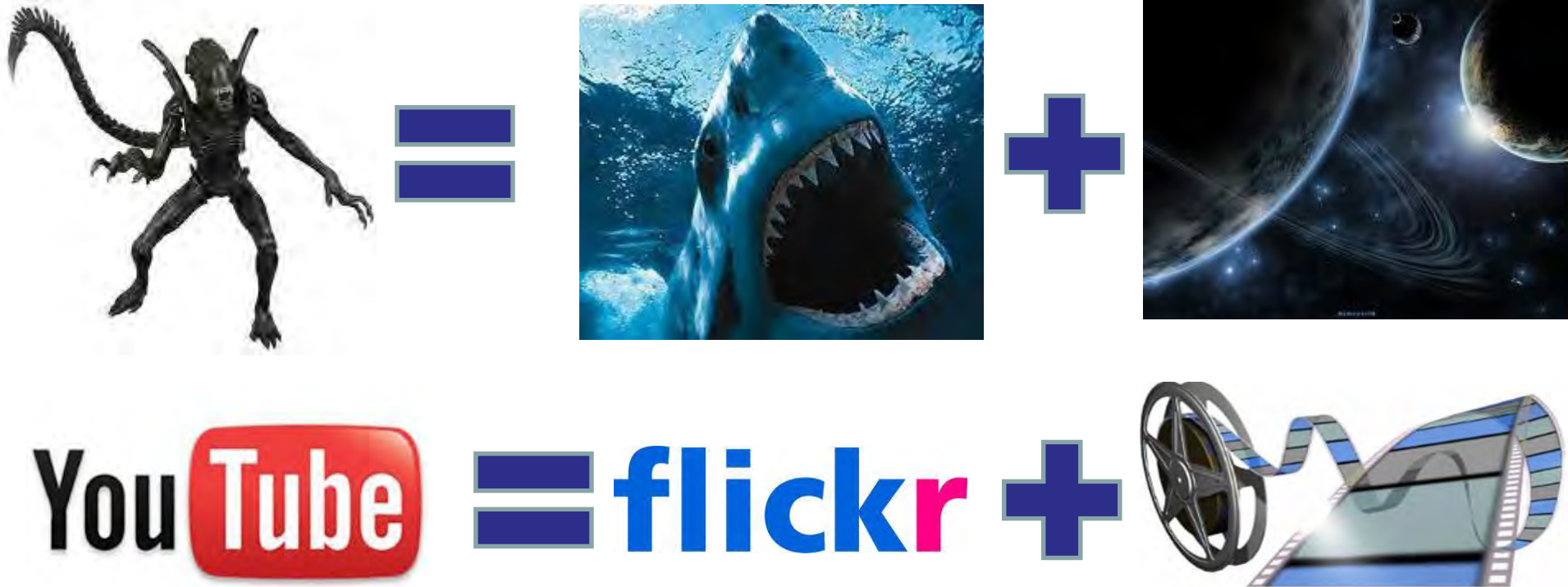
VALUE PROPOSITION: Planing

- 1) Define and quantify your **customer's** pain
 - 2) Define alternatives/competitors
 - 3) Define solution
 - 4) Decide Value Proposition. If B2C, choose better or cheaper.
 - 5) Quantify Value Proposition.
 - 6) Define High Concept Pitch.
 - 7) Fill in slots 2, 3 & 4 of your Lean Canvas.
- 

Why are you different?

At the end, *you're different or... you're cheaper*
Guy Kawasaki

HIGH-CONCEPT PITCH





Exercise

1. Decide: 1) B2B Or 2) B2C
2. If B2C decide: 1) Better Or 2) Cheaper
3. Draft 1 slide with bar chart for your customer
4. Check if your price is right
5. Check if you fulfill Founder's Dream

3. Lean Canvas (Ash Maurya)

LEAN CANVAS – Ash Maurya

| | | | | |
|--|---|---|---|--|
| <div>PROBLEM</div> <div><div>- No companies specialized in this service.</div><div>- High price.</div></div> <div>2</div> <div>+ alternatives Sailors (club), Marina Estrella, Tramontana...</div> | <div>SOLUTION</div> <div><div>-Exclusively cleaning services.</div><div>- Low price.</div></div> <div>4</div> <div>KEY METRICS</div> <div>8</div> | <div>UNIQUE VALUE PROPOSITION</div> <div><div>The best cleaning service, at the lowest Price (30% less)</div></div> <div>3</div> <div>HIGH-LEVEL CONCEPT</div> <div>Eulen, but for boats.</div> | <div>UNFAIR ADVANTAGE</div> <div>9</div> <div>CHANNELS</div> <div>5</div> | <div>CUSTOMER SEGMENTS</div> <div>Ship owners</div> <div>1</div> <div>+ early adopters</div> <div><div>- New owners.</div><div>-People not happy with current service.</div></div> |
| <div>COST STRUCTURE</div> <div>7</div> | | | <div>REVENUE STREAMS</div> <div>6</div> | |

PRODUCT

MARKET

CHANNELS

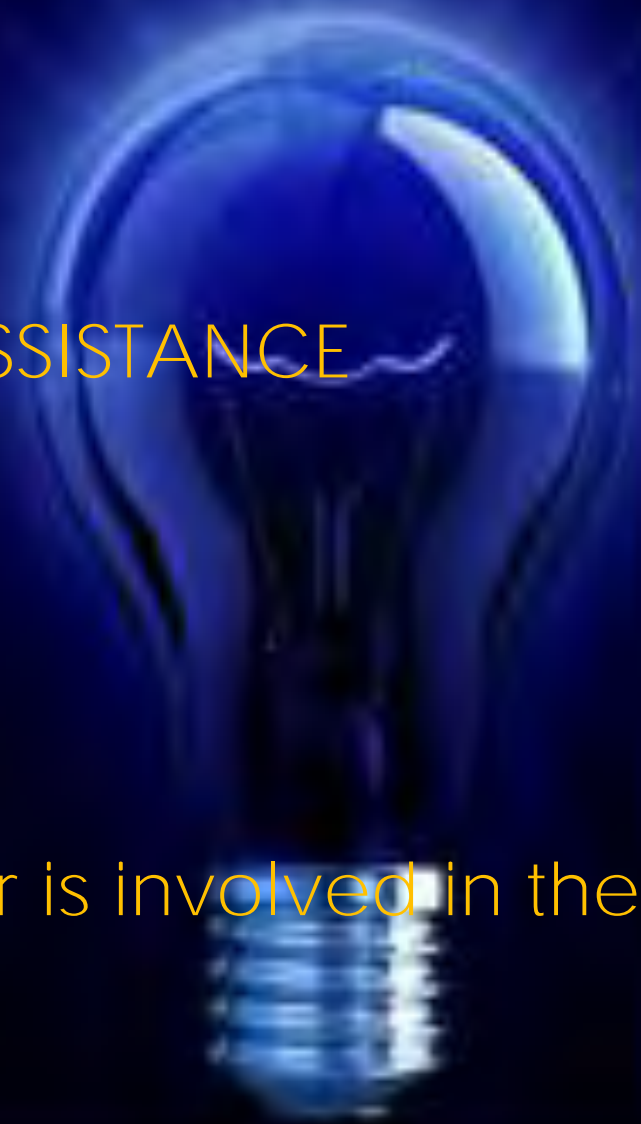
CHANNELS



- 1) HOW DO WE INFORM OUR CUSTOMERS?
- 2) HOW DO THEY SEARCH US?
- 3) HOW CAN THEY PURCHASE OUR PRODUCTS?
- 4) HOW ARE WE DELIVERING THE PRODUCT?
- 5) IS THERE ANY AFTER SALE SERVICE?

CUSTOMER RELATIONSHIPS

- 1) PERSONAL ASSISTANCE
- 2) DEDICATED PERSONAL ASSISTANCE
- 3) SELF-SERVICE
- 4) AUTOMATED SERVICES
- 5) COMMUNITIES
- 6) CO-CREATION: Customer is involved in the creation of the product.



SALE CHANNELS

- 1) SALES FORCE
- 2) ONLINE
- 3) OWN SHOP
- 4) PARTNER'S SHOP





Bienvenido | Log in | Mi Cuenta | Favoritos | Mapa del Sitio | Contactar

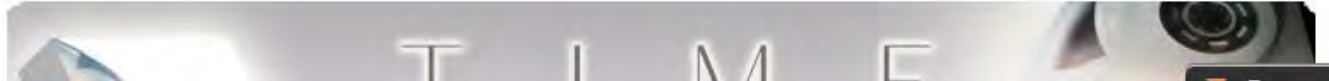


INICIO NOVEDADES TOP VENTAS PROMOCIONES SEGUNDA MANO COMO COMPRAR

GO



CATEGORÍAS



3. Lean Canvas (Ash Maurya)

LEAN CANVAS – Ash Maurya

| | | | | |
|---|---|--|--|---|
| <p>PROBLEM</p> <p>- No companies specialized in this service.</p> <p>- High price.</p> <p>2</p> <p>+ alternatives Sailors (club), Marina Estrella, Tramontana...</p> | <p>SOLUTION</p> <p>-Exclusively cleaning services.</p> <p>- Low price.</p> <p>4</p> <p>KEY METRICS</p> <p>8</p> | <p>UNIQUE VALUE PROPOSITION</p> <p>The best cleaning service, at the lowest price (30% less).</p> <p>3</p> <p>HIGH-LEVEL CONCEPT</p> <p>Eulen, but for boats.</p> | <p>UNFAIR ADVANTAGE</p> <p>9</p> <p>CHANNELS</p> <p>-Brochures tied to the boats.</p> <p>-Word of mouth.</p> <p>-Maintenance companies.</p> <p>5</p> | <p>CUSTOMER SEGMENTS</p> <p>Ship owners</p> <p>1</p> <p>+ early adopters</p> <p>- New owners.</p> <p>-People not happy with current service.</p> |
| <p>COST STRUCTURE</p> <p>7</p> | | | <p>REVENUE STREAMS</p> <p>6</p> | |

PRODUCT

MARKET

REVENUE STREAMS
COST STRUCTURE
METRICS

REVENUE STREAMS

- 1) ASSET SALE
- 2) USAGE FEE
- 3) SUBSCRIPTION FEE
- 4) LENDING/RENTING/LEASING
- 5) LICENSING
- 6) INTERMEDIATION
- 7) ADVERTISING



X-Selling



Sell products from partners.



Up-Selling

1 month free if you subscribe for a y

Describe cost structure

| Direct Costs per unit | |
|-----------------------|---|
| Product/Service 1 | 0 |
| Product/Service 2 | 0 |
| Product/Service 3 | 0 |

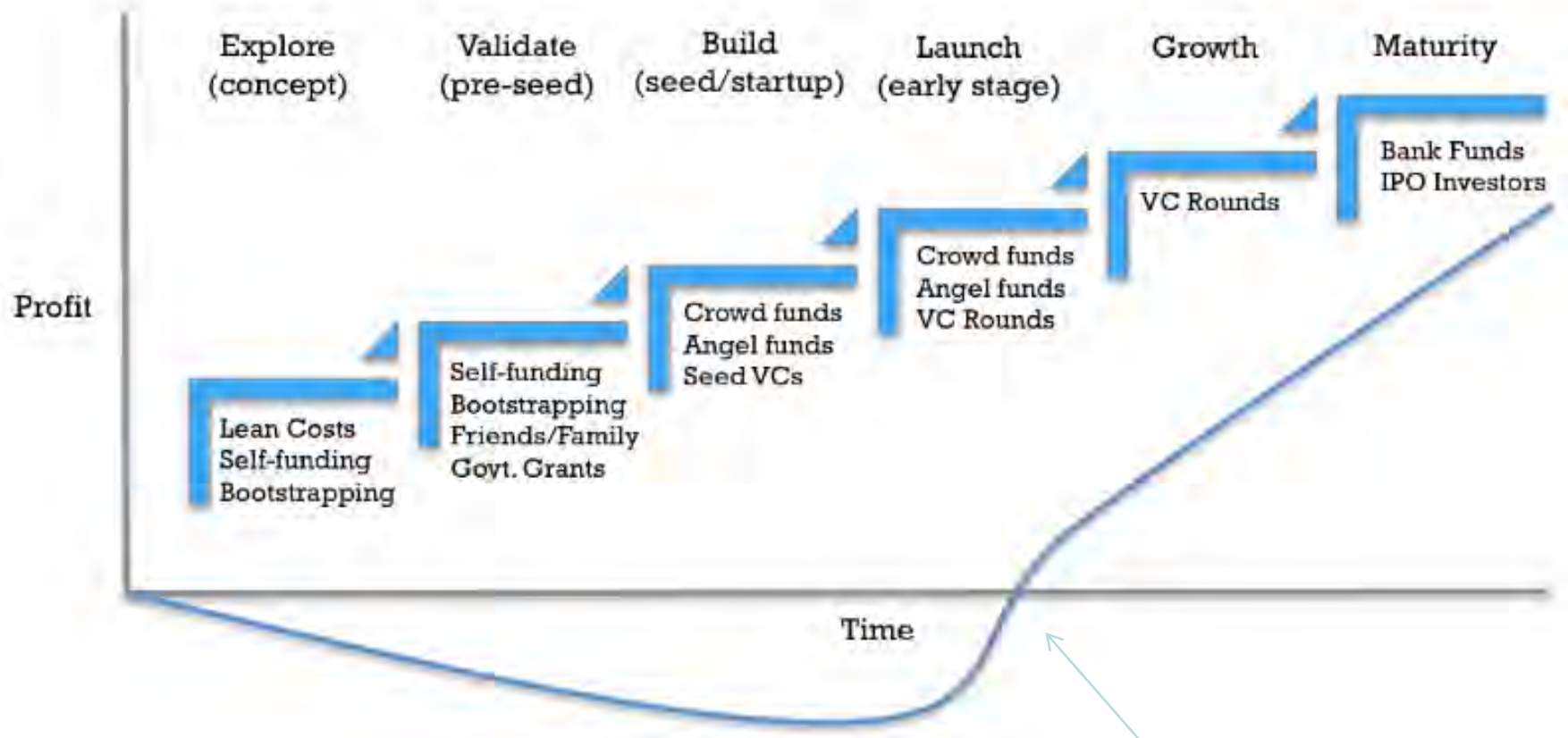
| Indirect Costs yearly | |
|-----------------------|---|
| Company registration | 0 |
| Transportation | 0 |
| Travel | 0 |
| Office | 0 |
| Net Salaries | 0 |
| Salary overhead* | 0 |
| Legal costs | 0 |
| Insurance | 0 |
| Marketing | 0 |
| Bank Fees | 0 |
| Others | 0 |

WHAT CAPITAL DO YOU NEED?

Long-term assets purchases
+ First Year Direct + Indirect costs

| Long-term Assets purchases | Year 1 |
|-----------------------------------|--------|
| Machines | 0 |
| Patents and Intellectual property | 0 |
| Other | 0 |

FUNDING



BREAK-EVEN
Time? Sales?

COST STRUCTURE

1) Fixed and Variable costs

- Fixed if they are the same despite the volumen of goods or services provided.
- Production, Sales and Financial.
- Economies of Scale and Scope.

2) Define main cost

It is usually OPEX, especially salaries.

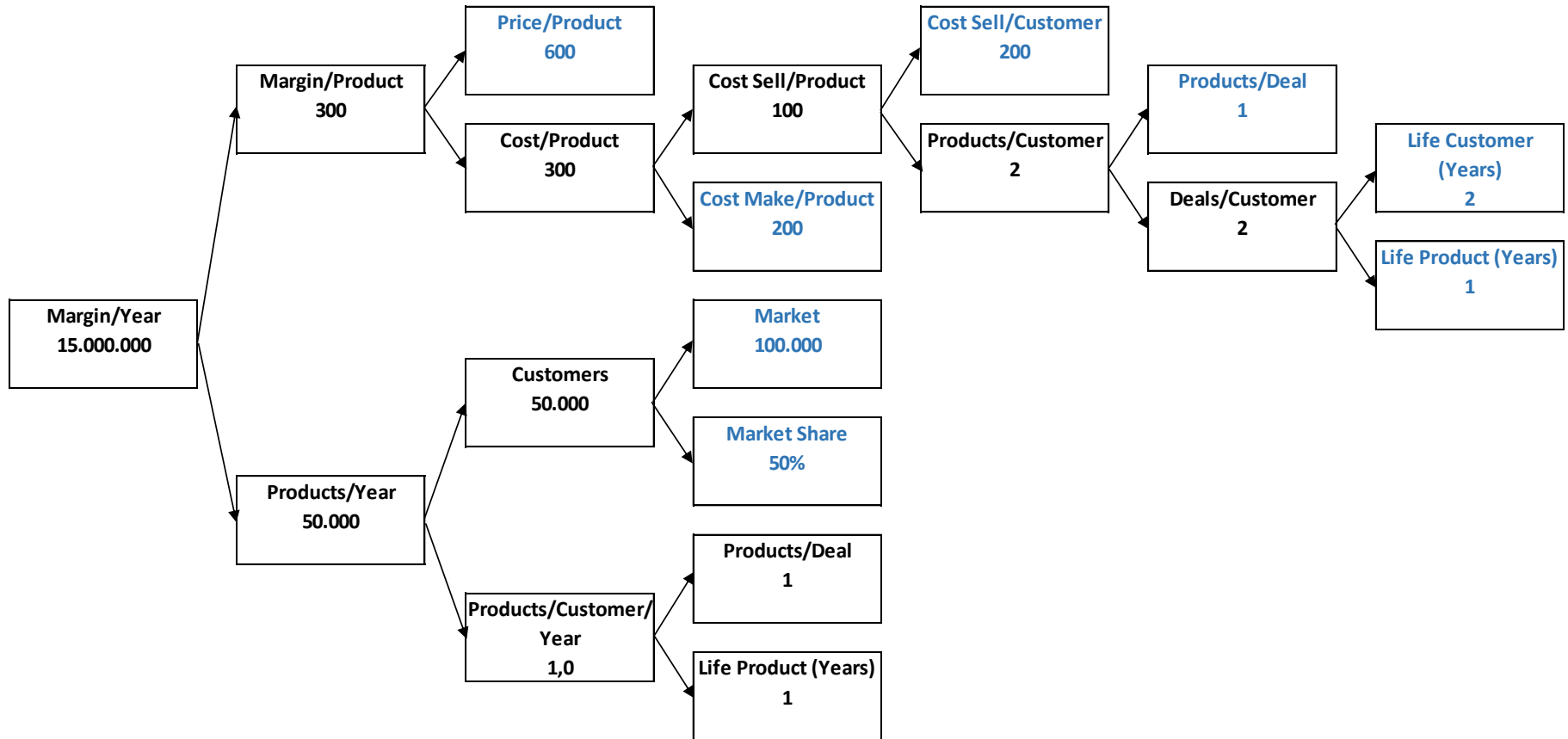


Product

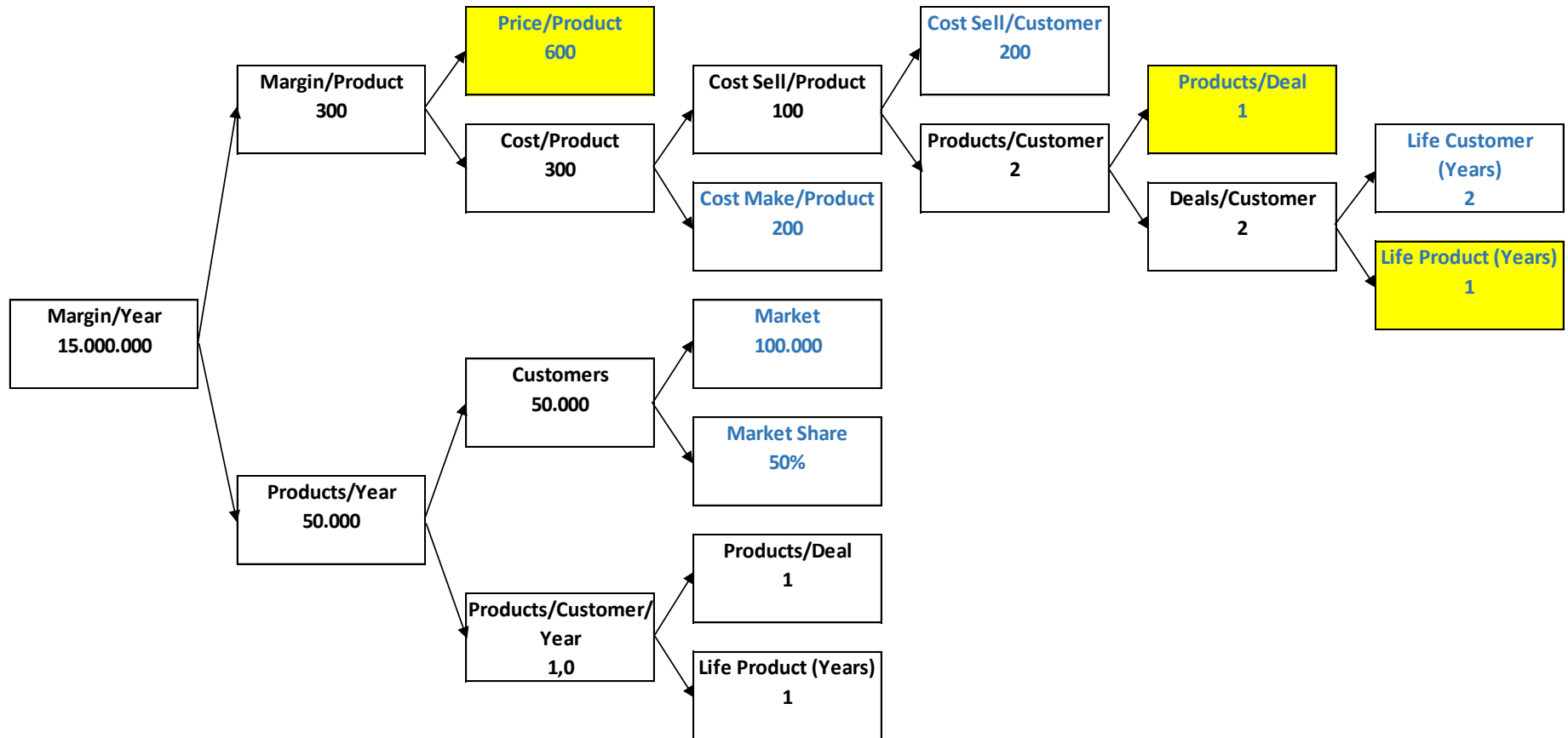
- You sell ownership of something
- Margin/Product, Products/Year



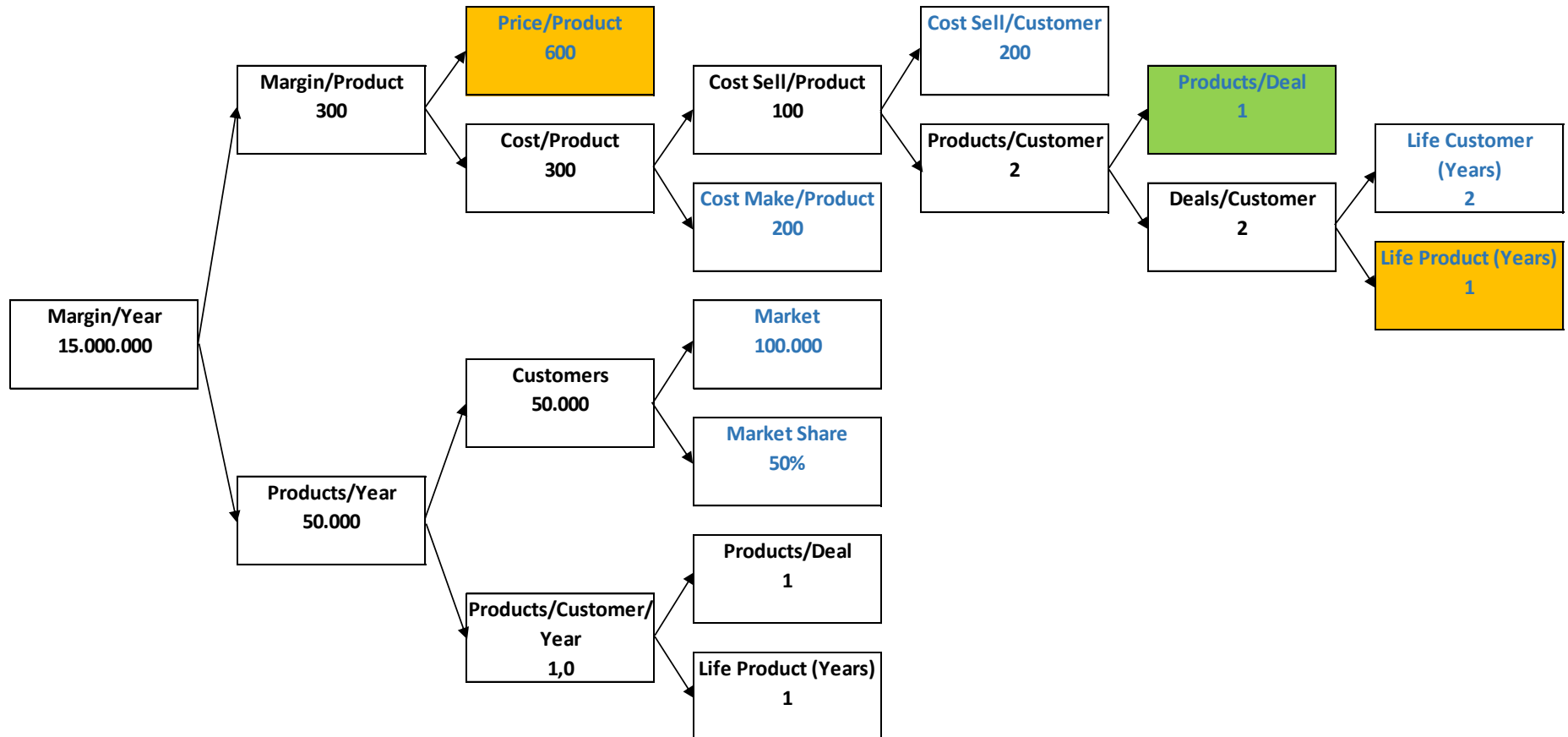
Margin/Year Product



Key Value Drivers



Facts/Assumptions

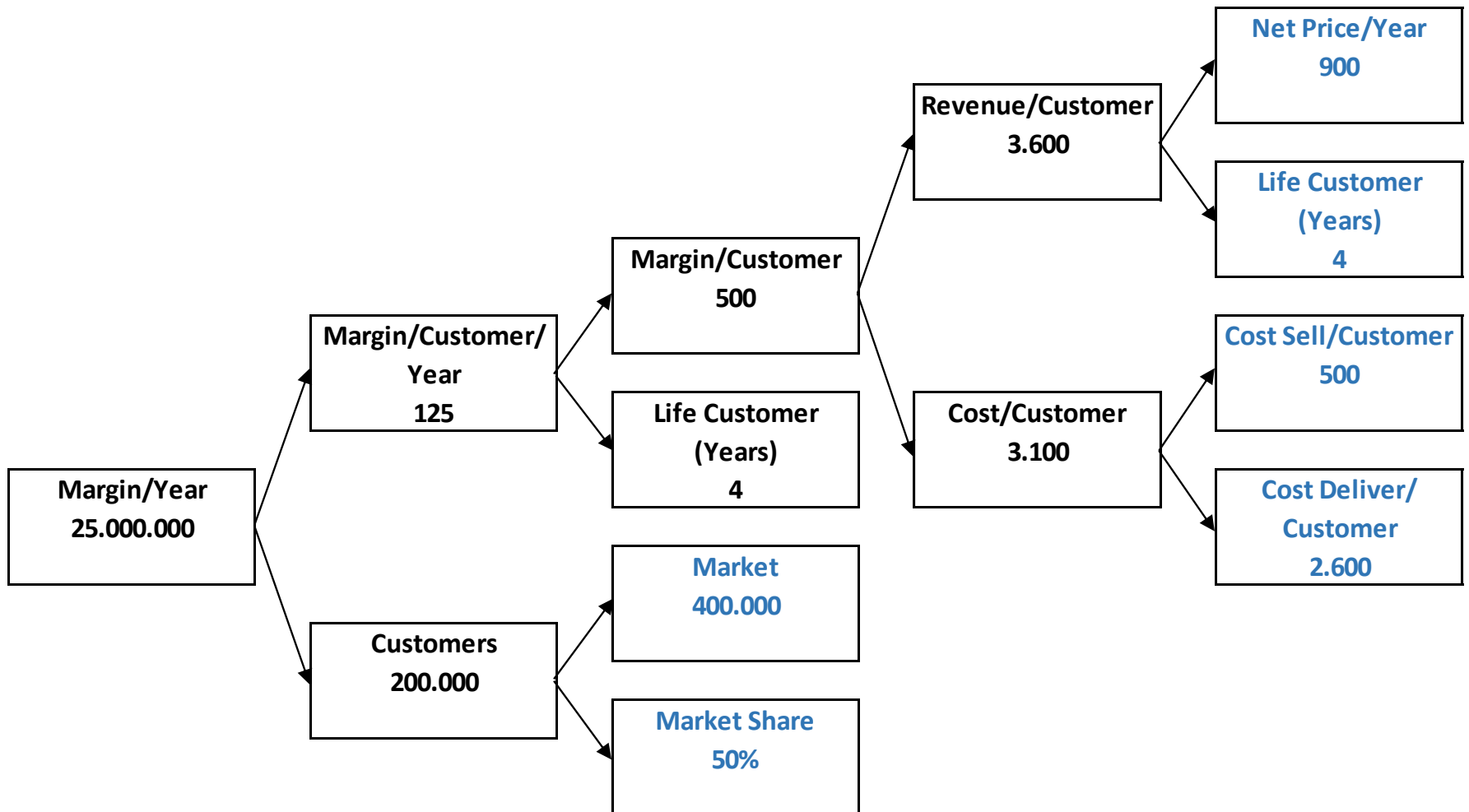


Service

- You sell use of something or someone for a certain period: hour, day, month, year, etc.
- $\text{Margin/Customer/Year} \times \# \text{ Customers}$



Margin/Year Service



Exercise

1. Draft your Financial Tree
2. Identify Key Drivers
3. Indicate Facts or Assumptions

PIRATE METRICS

ACQUISITION

How do users find you?

ACTIVATION

Do users have a great first experience?

RETENTION

Do users come back?

REVENUE

How do you make money?

REFERRAL

Do users tell others?

PIRATE METRICS: Dashboard

| Category | User Status | Conv % | Est. Value |
|-------------|---|--------|------------|
| Acquisition | Visit Site (or landing page, or external widget) | 100% | \$.01 |
| Acquisition | Doesn't Abandon (views 2+ pages, stays 10+ sec, 2+ clicks) | 70% | \$.05 |
| Activation | Happy 1st Visit (views X pages, stays Y sec, Z clicks) | 30% | \$.25 |
| Activation | Email/Blog/RSS/Widget Signup (anything that could lead to repeat visit) | 5% | \$1 |
| Activation | Acct Signup (includes profile data) | 2% | \$3 |
| Retention | Email Open / RSS view → Clickthru | 3% | \$2 |
| Retention | Repeat Visitor (3+ visits in first 30 days) | 2% | \$5 |
| Referral | Refer 1+ users who visit site | 2% | \$3 |
| Referral | Refer 1+ users who activate | 1% | \$10 |
| Revenue | User generates minimum revenue | 2% | \$5 |
| Revenue | User generates break-even revenue | 1% | \$25 |

3. Lean Canvas (Ash Maurya)

LEAN CANVAS – Ash Maurya

| | | | | |
|---|---|---|---|--|
| <p>PROBLEM</p> <ul style="list-style-type: none">- No companies specialized in this service.- High price. <p>2</p> <p>+ alternatives Sailors (club), Marina Estrella, Tramontana...</p> | <p>SOLUTION</p> <ul style="list-style-type: none">- Exclusively cleaning services.- Low price. <p>4</p> | <p>UNIQUE VALUE PROPOSITION</p> <p>The best cleaning service, at the lowest price (30% less).</p> <p>3</p> <p>HIGH-LEVEL CONCEPT</p> <p>Eulen, but for boats.</p> | <p>UNFAIR ADVANTAGE</p> <p>9</p> | <p>CUSTOMER SEGMENTS</p> <p>Ship owners</p> <p>1</p> <p>+ early adopters</p> <ul style="list-style-type: none">- New owners.- People not happy with current service. |
| <p>COST STRUCTURE</p> <p>FIXED:</p> <ul style="list-style-type: none">- Employees: 1100 euros gross. (8 boats / days) x 50 employees- Marketing and brochures (800 euros / month) <p>VARIABLES:</p> <ul style="list-style-type: none">- Cleaning products (compran 2 soaps pallets per month). <p>7</p> | | <p>REVENUE STREAMS</p> <p>Suscription: ~40€ x 2 days/month</p> <p>Up-selling: 1 free month per year.</p> <p>1 free month per additional customer.</p> <p>6</p> | | |

PRODUCT

MARKET

COMPETITIVE ADVANTAGE

How will you protect its uniqueness?

Is it possible to get a patent for your product?

(DM/70577) 1. Packing for pizza-slice; 2. Box for pizza-slice *part de pizza*

Enregistrements internationaux /
International Registrations /
Registros internacionales

(11) Registration number

DM/070577

(15) Date of the international registration

05.08.2008

(18) Expected expiration date of the registration/renewal

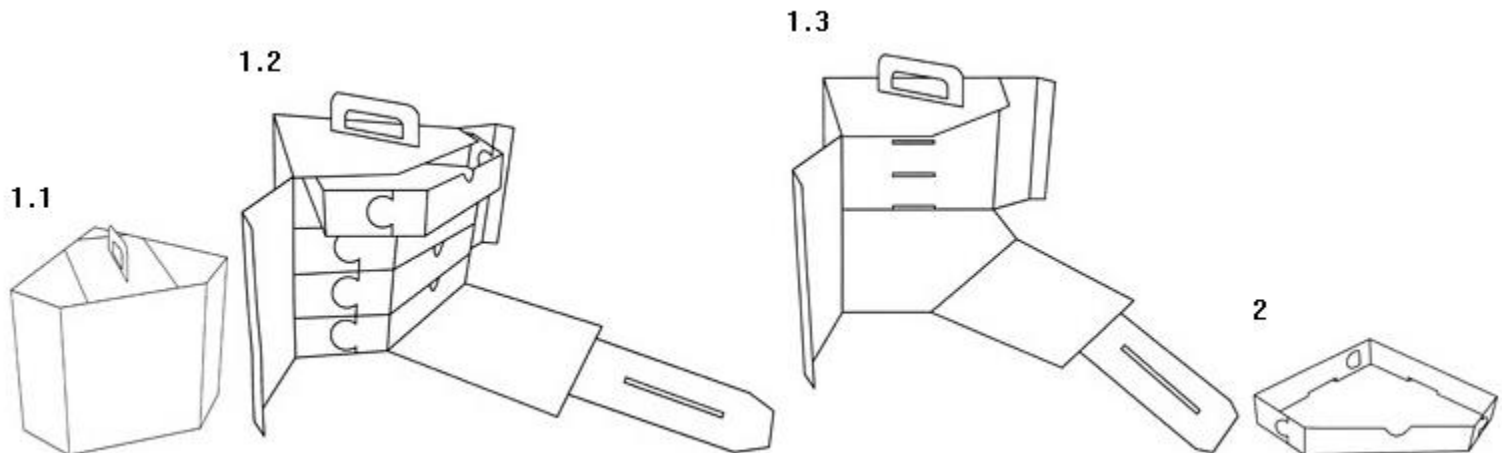
05.08.2013

(22) Filing date

05.08.2008

(73) Name of holder

GRECU ALEXANDRI



How will you protect its uniqueness?

Do you have anything difficult to copy?



Competitive advantage

CATEGORÍAS

[Novedades](#)[Top Ventas](#)[Promociones](#)[Segunda Mano](#)[Juegos de Tablero](#)[Juegos de Cartas](#)[Juegos para Niños](#)[Juegos de Importación](#)[Juegos de Dados](#)[Expansiones de juegos](#)[Juegos de Rol](#)[Suplementos de Rol](#)[Libros y Revistas](#)[Accesorios](#)[Torneos](#)[Géneros](#)[Marcas](#)

PROMOCIONES

JUEGOS EN

Home > Juegos de Tablero > Star Wars Rebellion (castellano)



Ampliar



STAR WARS REBELLION (CASTELLANO)

Vive la Guerra Civil Galáctica como nunca antes la has vivido. En el juego de mesa **Star Wars Rebellion**, controlarás por completo al **Imperio Galáctico** o a la incipiente **Alianza Rebelde**. Con **más de 150 miniaturas de plástico** y **dos tableros de juego representando los treinta y dos sistemas más importantes de la galaxia**, Rebellion es tan grande como el universo de Star Wars merece ser.

Cantidad

Disponibilidad: **48 HORAS**



87,96 €

Añadir al carrito

Pedir información

OTROS PRODUCTOS DE LA MISMA CATEGORÍA:



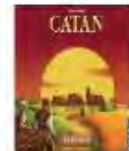
Carcassonne
Edición Invierno



King Of Tokyo
2016



Martinique



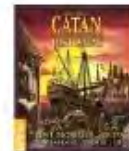
Los colonos de
Catán (edición
2015)



Ora Et Labora



Catán: Los
Colonos de
América



Catán: Los
Colonos de
Europa

Competitive Advantage

- Customer lock-in
- Long-term agreements
 - Suppliers, customers, distributors
- Regulation
- Branding
- Intellectual property
 - Patents, trademarks, copyrights, trade secrets

Barriers to Entry



- Someone else with ample funds cannot enter your market because...

Describe your key resources

INTELLECTUAL

- Brands
- Proprietary knowledge
- Patents
- Copyrights
- Partnerships
- Customer databases

Describe your key resources

PHYSICAL

- Manufacturing facilities
- Buildings
- Vehicles
- Machines
- Point-of-sales
- Distribution networks

Describe your key activities

- Design the product
- Make the product
- Deliver the product
- Solve problems
- Marketing
- Other logistics

In which activities are you focused on?

Which activities are going to be done by partners? Why?

3. Lean Canvas (Ash Maurya)

| | | | | |
|---|---|--|--|--|
| <div><div>PROBLEM</div><div><ul style="list-style-type: none">- No companies specialized in this service.- High price.- Customers do not want to think about maintenance.</div><div><div>+ alternatives Sailors (club), Marina Estrella, Tramontana...</div></div></div> | <div><div>SOLUTION</div><div><ul style="list-style-type: none">- Exclusively cleaning services.- Low price.- Database with maintenance companies.</div></div> <div><div>KEY METRICS</div><div><div>Number of basic vs Premium customers</div><div>Goal: Revenues 1M€ / year</div></div></div> | <div><div>UNIQUE VALUE PROPOSITION</div><div><div>The best cleaning service, at the lowest price (30% less).</div><div>HIGH-LEVEL CONCEPT</div><div>Eulen, but for boats.</div></div></div> | <div><div>UNFAIR ADVANTAGE</div><div><ul style="list-style-type: none">- Cleaning processes.- Customer agreements..- Own cleaning service.</div></div> <div><div>CHANNELS</div><div><ul style="list-style-type: none">- Brochures tied to the boats.- Word of mouth.- Maintenance companies.</div></div> | <div><div>CUSTOMER SEGMENTS</div><div><div>Ship owners</div><div>Rental companies</div></div><div><div>+ early adopters</div><div><ul style="list-style-type: none">- New owners.- People not happy with current service.</div></div></div> |
| <div><div>COST STRUCTURE</div><div><div>FIXED:</div><div><ul style="list-style-type: none">- Employees: 1100 euros gross. (8 boats / days) x 50 employees- Marketing and brochures (800 euros / month)</div><div>VARIABLES:</div><div><ul style="list-style-type: none">- Cleaning products (compran 2 soaps pallets per month).</div></div></div> | | <div><div>REVENUE STREAMS</div><div><div>Suscription: ~40€ x 2 days/month</div><div>Up-selling: 1 free month per year.</div><div>1 free month per additional customer.</div><div>Comnsision for maintenance companies.</div></div></div> | | |

PRODUCT

MARKET

MVPs

TRA DEFINICIÓN

First rule for startups

“

Life's too short to build
something nobody wants.

”

Ash Maurya
— Running Lean

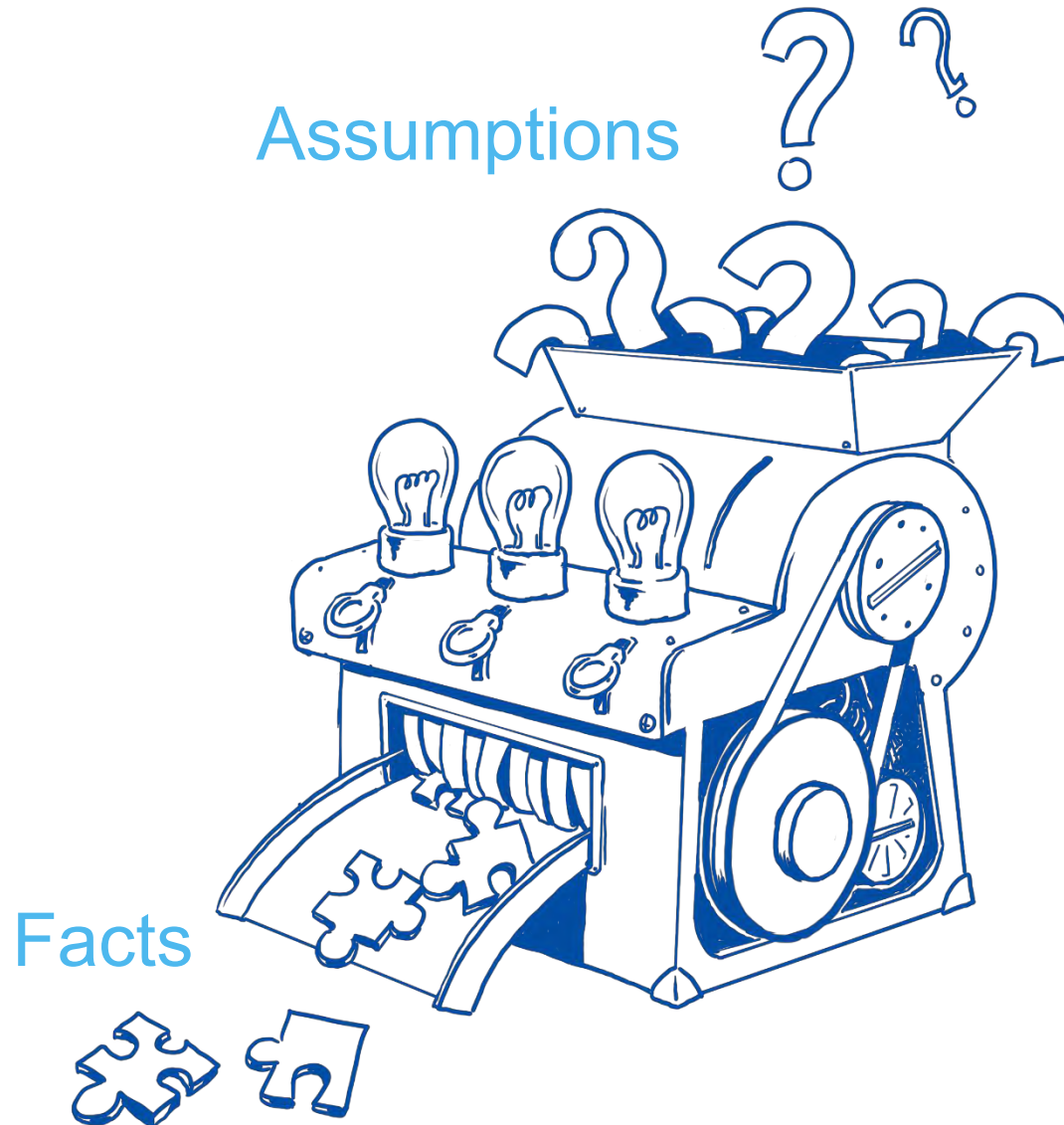




A **Startup** **looks for** a
business model

A **Company** **executes**
a business model

Validate your Assumptions



Our startup is our lab!



TRA DEFINICIÓN

MVPs

“ A **Minimum Viable Product** is that version of a new product which allows a team to collect the maximum amount of validated learning about customers with the least effort. ”

Eric Ries
— Lean Startup



MVPs

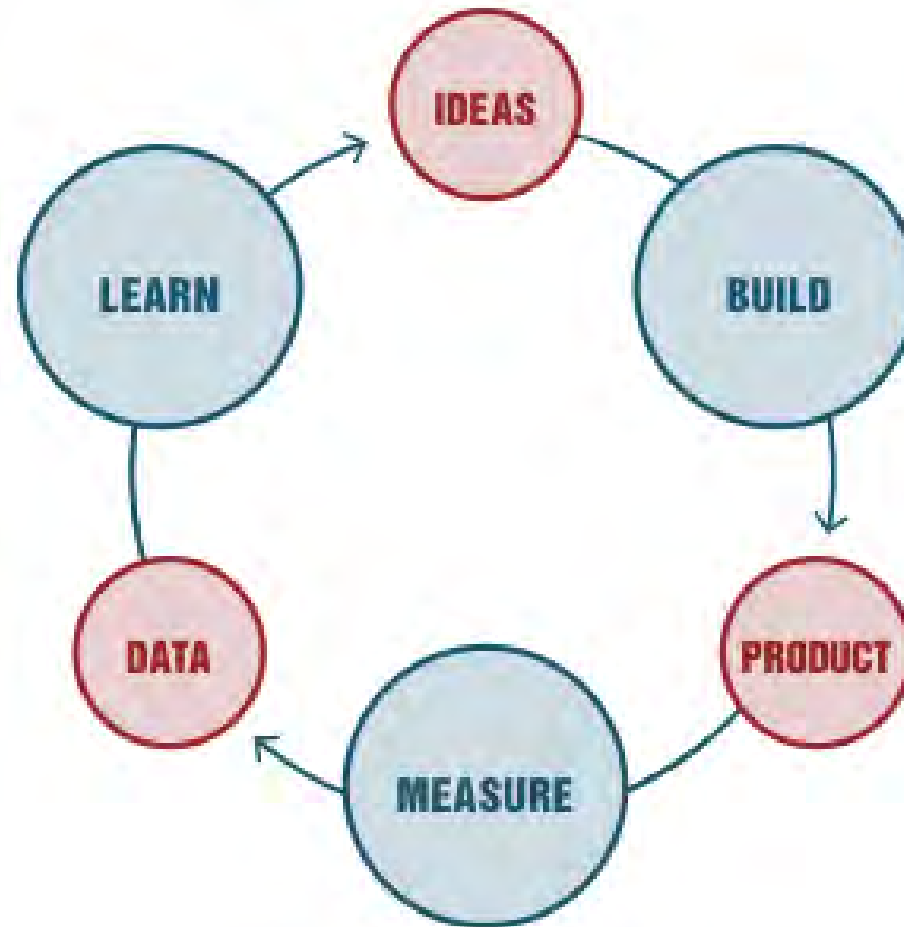
A **Minimum Viable Product** is:

The **smallest** possible experiment to:

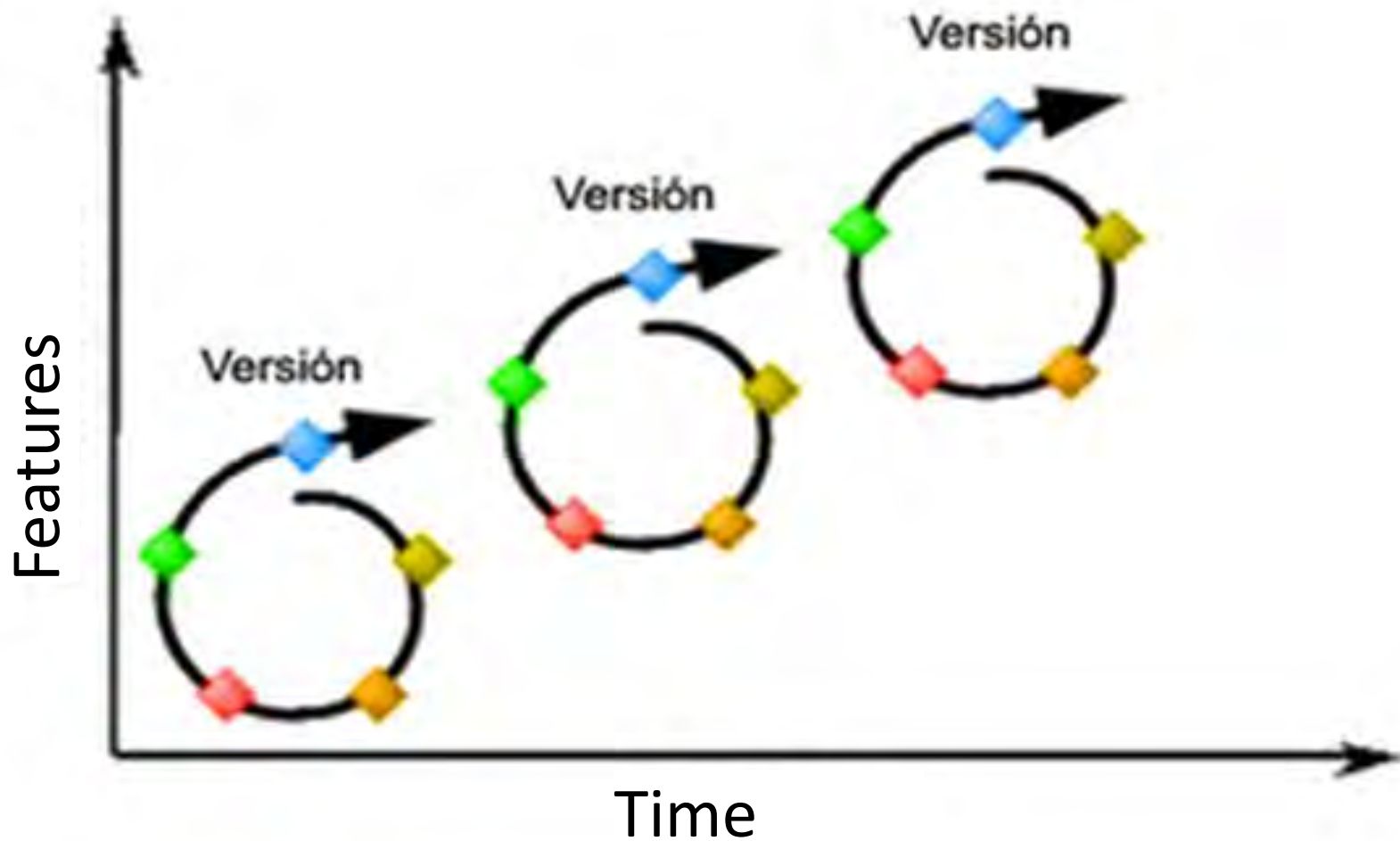
Prove the **maximum** set of hypotheses about your business model.

VALIDATED LEARNING!!!

Learning loop



Learning loop through time



“MVP”

HOW TO BUILD A MINIMUM VIABLE PRODUCT

NOT LIKE THIS



1

2

3

4

LIKE THIS



1

2

3

4

5

image by blog.fastmonkeys.com original idea: spotify product team

Why MVPs?

- Because I need to validate my assumptions in the real world, with real customers.
- Because I need to know what is really important.
- Because I need to go faster than my cash burn rate.

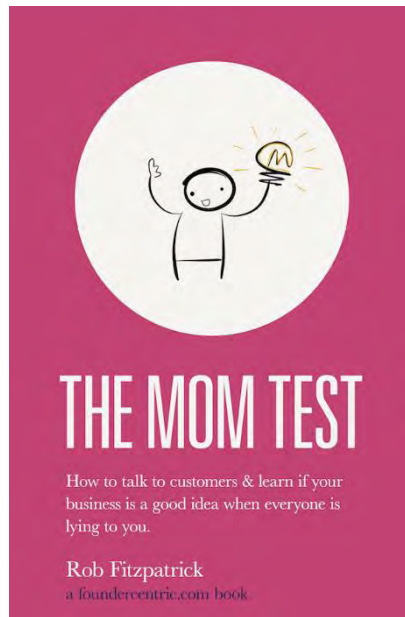
Choice your MVP

1. Customer interviews
2. Landing pages
3. Test A/B
4. Advertising campaign
5. Crowdfunding campaign “Sell first, build later!”
6. Explainer video
7. Wizard of Oz “Fake it until you make it”
8. Blogs
9. Pilots
10. Paper and Digital prototypes

& much more

Customer interviews

Everybody Lies!



Commitment is the best signal

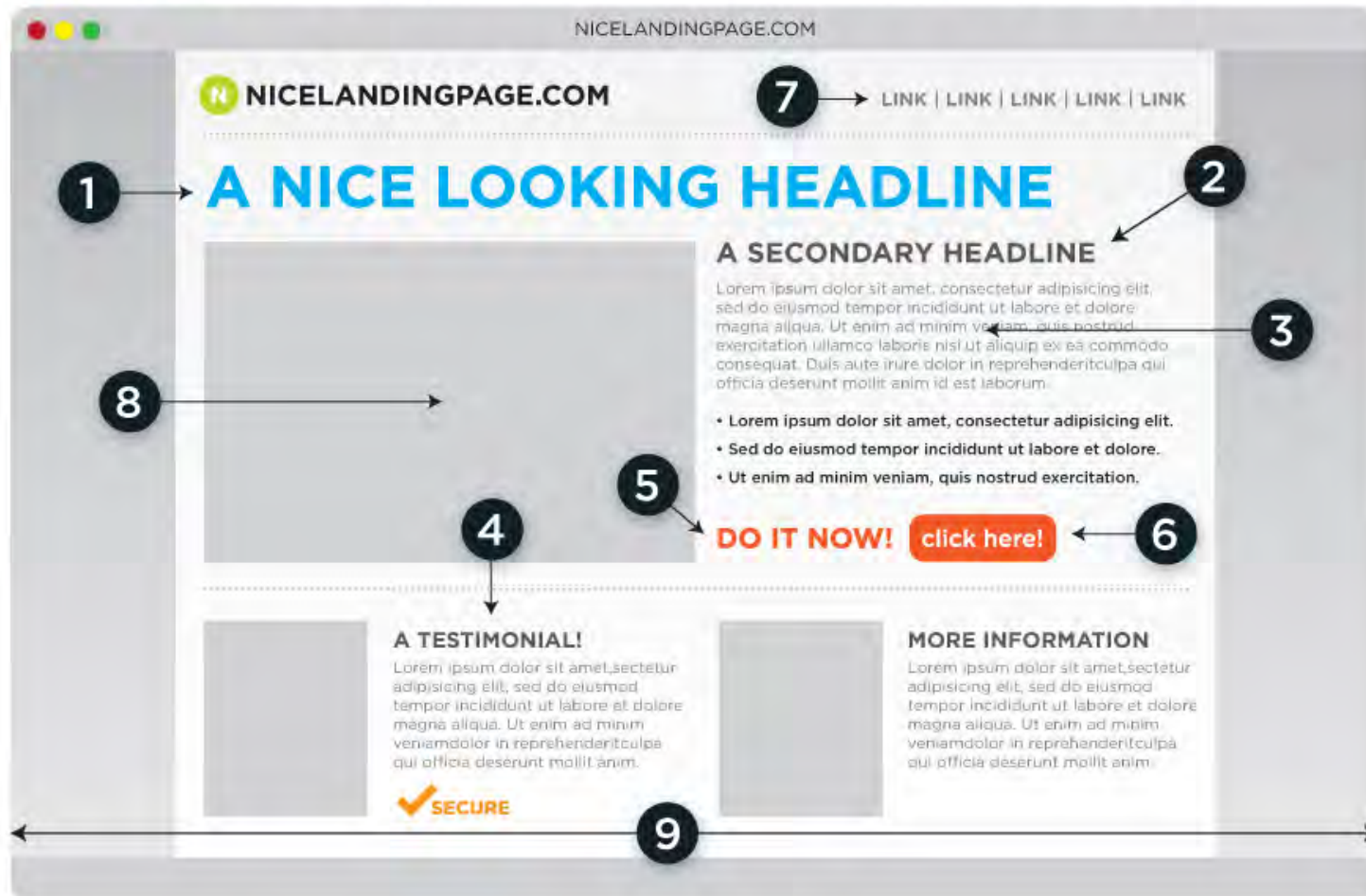
1. Time
2. Money
3. Reputation

(People tell us what we want to hear,
if we ask the wrong questions)

Landing Page

THE ANATOMY OF A PERFECT LANDING PAGE HOW DESIGN TRANSLATES TO USERS

TEN KEY LANDING PAGE FEATURES THAT DRAW IN USERS



Landing Page

WHAT TYPES OF COLORS ARE GOOD FOR DIFFERENT SITES?

Colors that will entice a viewer will vary among different sites. Applying the right colors might draw in traffic, bore viewers, or scare some away. They set the mood of a landing page and influence viewer's actions.



YELLOW

- Optimistic and youthful
- Often used to grab a viewer's attention

ORANGE

- Aggressiveness
- Used as a call-to-action and attention grabber

RED

- Energy
- Increases heart rate and creates urgency
- Often seen with clearance sales and references to food

PINK

- Romantic and feminine
- Used to market products and services for woman and young girls

BLUE

- Creates the sensation of trust and security
- Often used by banks and businesses

PURPLE

- Soothing and calm
- Often relates to beauty or anti-aging products and services

GREEN

- Associated with wealth
- The easiest color for the eye to process and used with finance or entertainment websites

BLACK

- Powerful and Sleek
- Seen as luxurious and sophisticated

buffer

Tweet more consistently with  **buffer**

- 1 Choose times to tweet.
For example, 3 tweets a day at 9 AM, 12 PM, and 5 PM.
- 2 Add tweets to your buffer.
Whenever you write your tweets, just paste them here.
- 3 **buffer does the rest. Relax.**
We'll tweet for you, so you can stop stressing about it.

[What you're missing](#)

Tweet more consistently with  **buffer**

| Free | Standard | Max |
|--|---|--|
| \$0 /mo | \$5 /mo | \$20 /mo |
| Who? Cap your tweets. Pay-as-you-go. | Who? Great for most users. | Who? Great for business & developers. |
| L 1 tweet per day S 5 tweets in your buffer | 10 10 tweets per day 50 50 tweets in your buffer | ∞ Unlimited tweets per day ∞ Unlimited tweets in buffer |

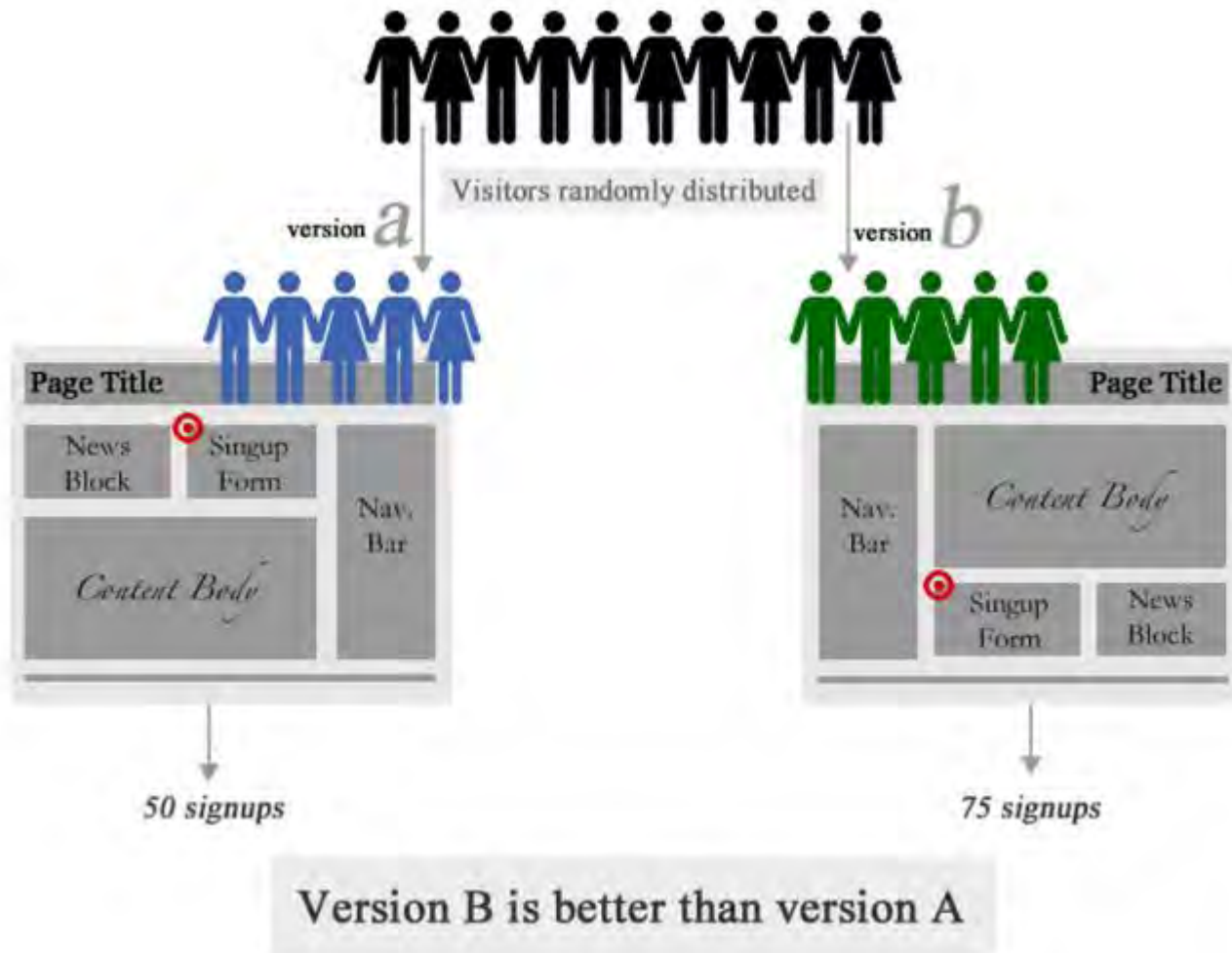
© 2015 Buffer. All rights reserved.

Tweet more consistently with  **buffer**

Hi! You caught us before we're ready.

We're working on our product and building your new email profile. Things are getting wild & crazy! We'll be ready to launch our new Buffer very soon. If you'd like to get our product first, we'll be happy to let you know when you can get it. We'll be in touch soon.

Test A/B



Source: [Smashing Magazine](https://www.smashingmagazine.com/2016/03/ab-testing-when-to-stop/)

Advertising campaign

The image displays two screenshots of a video advertisement for Bounce, a service designed to help people avoid traffic jams. The advertisement features a smartphone screen showing the time 6:25 and a notification for dinner at 7:00. A red arrow points from the smartphone screen to a blue button labeled "Pre-order Bounce". Below the button, the text "\$5 for a limited time" is displayed. A progress bar indicates that 132 of 5000 late people helped, and 1 month is left. The video player interface at the bottom shows a play button, a progress bar, and the Vimeo logo.

Be on time, every time

Pre-order Bounce

\$5 for a limited time

132 of 5000 late people helped | 1 month left

Be on time, every time

Pre-order Bounce

\$10 for a limited time

266 of 5000 late people helped | 1 month left

We won't charge your card until Bounce launches

Crowdfunding

Pebble: E-Paper Watch for iPhone and Android

by Pebble Technology

Home

Updates

53

Backers

68,929

Comments

15,613

Palo Alto, CA

Product Design

Funded! This project was successfully funded on May 18, 2012



68,929

backers

\$10,266,845

pledged of \$100,000 goal

0

seconds to go



Project by

**Pebble
Technology**

Palo Alto, CA

First created - **59 backed**

Eric Migicovsky 858 friends

Crowdfunding

INDIEGOGO

Explorar

Cómo funciona



COMIENZA UNA CAMPAÑA

Registrarse

Iniciar sesión



Cerrado

Closca Bike Helmet - Safety, Functionality & Style

Most elegant and Convenient Foldable Bike Helmet.
Red Dot Design Award 2015.



CLOSCA DESIGN

Valencia, España

[Acerca de](#) | [Haz una pregunta](#)

\$79,939 USD fondos totales recaudados

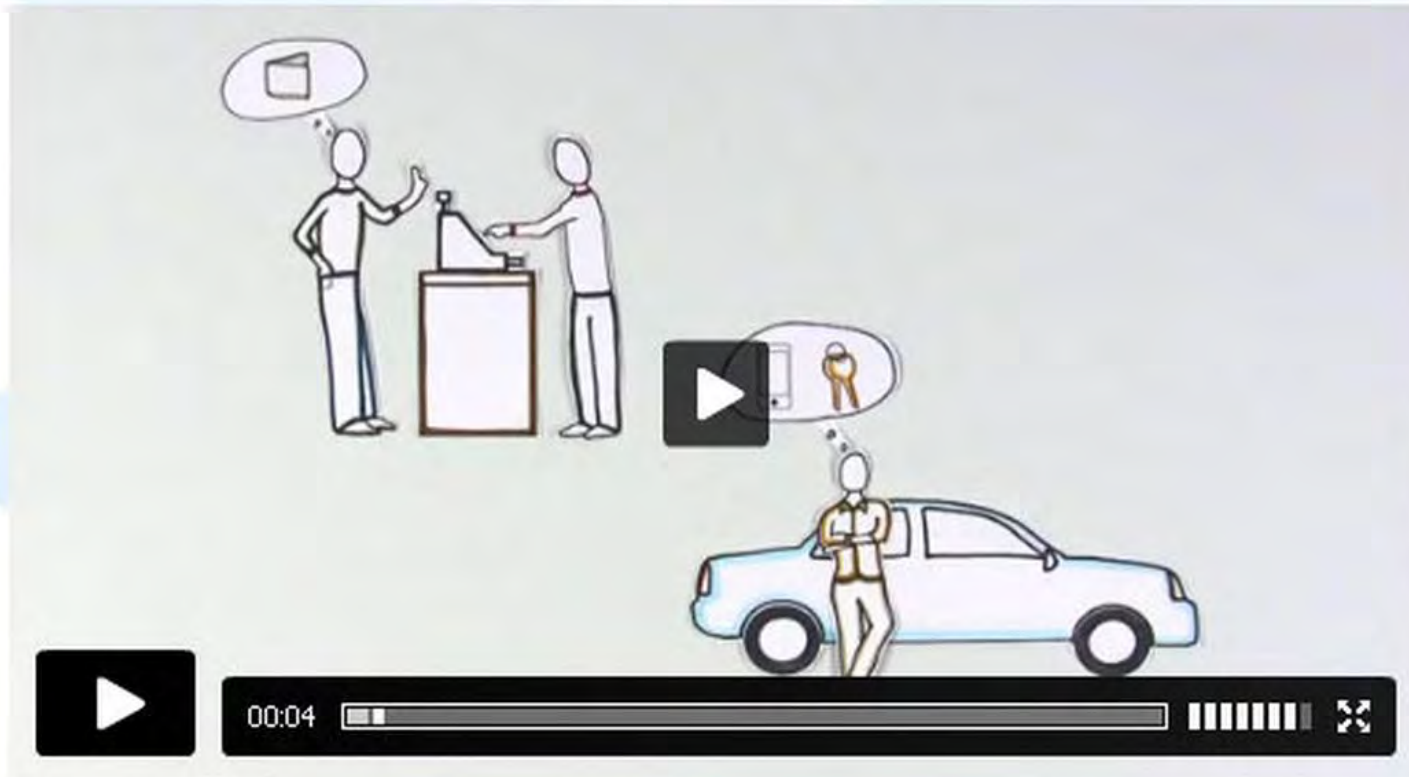
281% financiado el July 25, 2015



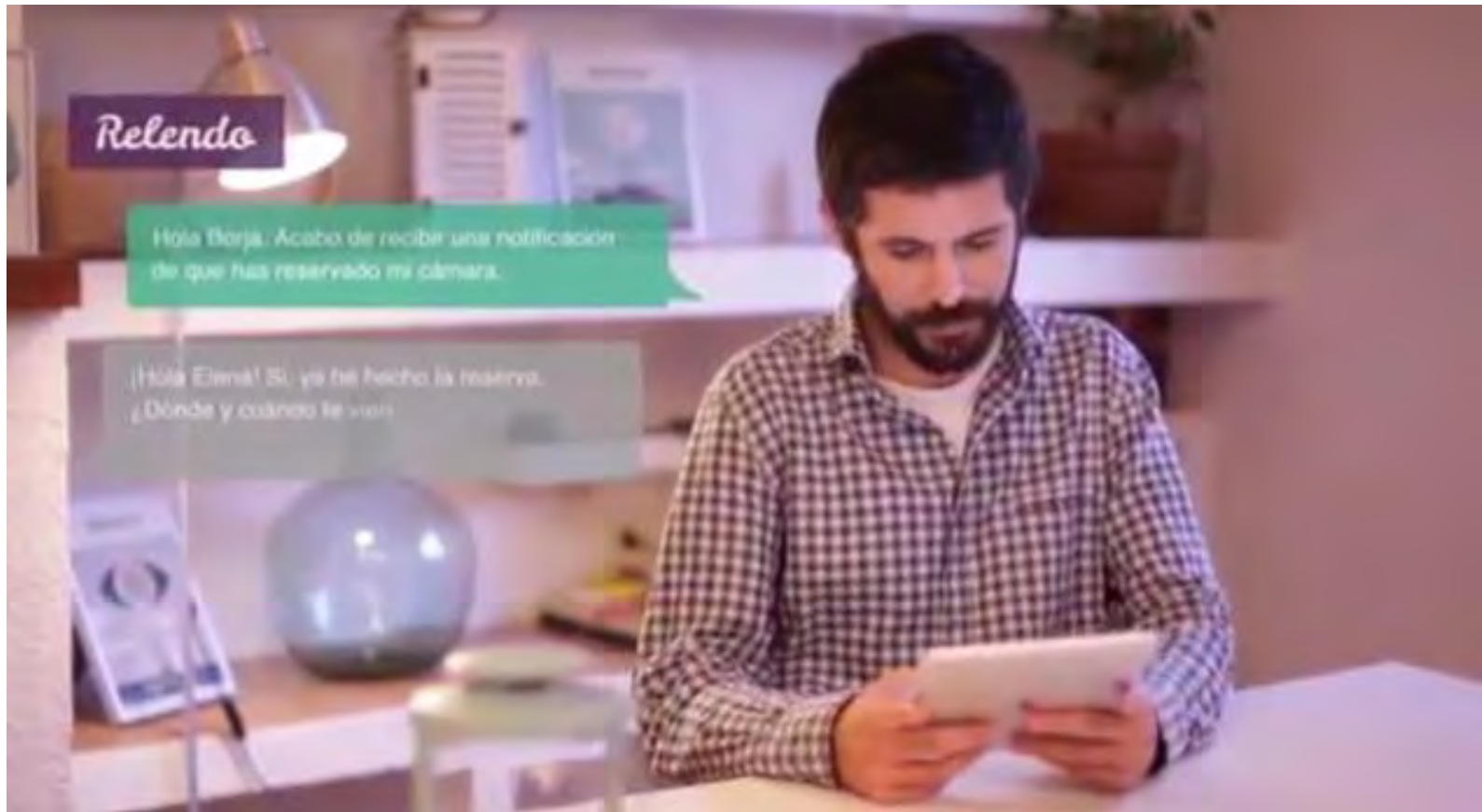
Explainer videos



Dropbox



Explainer videos



Wizard of Oz

Zappos.com
the world's largest shoe store!

free shipping & no sales tax.

customer service
shopping bag
account & register

women's men's

dress casual athletic dress casual athletic kids

Pick a category to shop from:
Category

Register now & Save Money

registered customers
username
password

The world's largest shoe store!
WHAT WE'RE HEARING!
Welcome to Zappos.com - the shoe store!
We have a selection of over 100 brands to shop from! We offer FREE SHIPPING (U.S. orders only) and NO SALES TAX.

Live Customer Service!
Mon. - Fri. 10am-6pm PST
Sat. 10am-5pm PST
Click here!

featured brands.
BOSTONIAN
Sudini
neker
ANTHONY
I. R. Evans

Free Shoes!

Blogs (for your potential customers)



Pilots

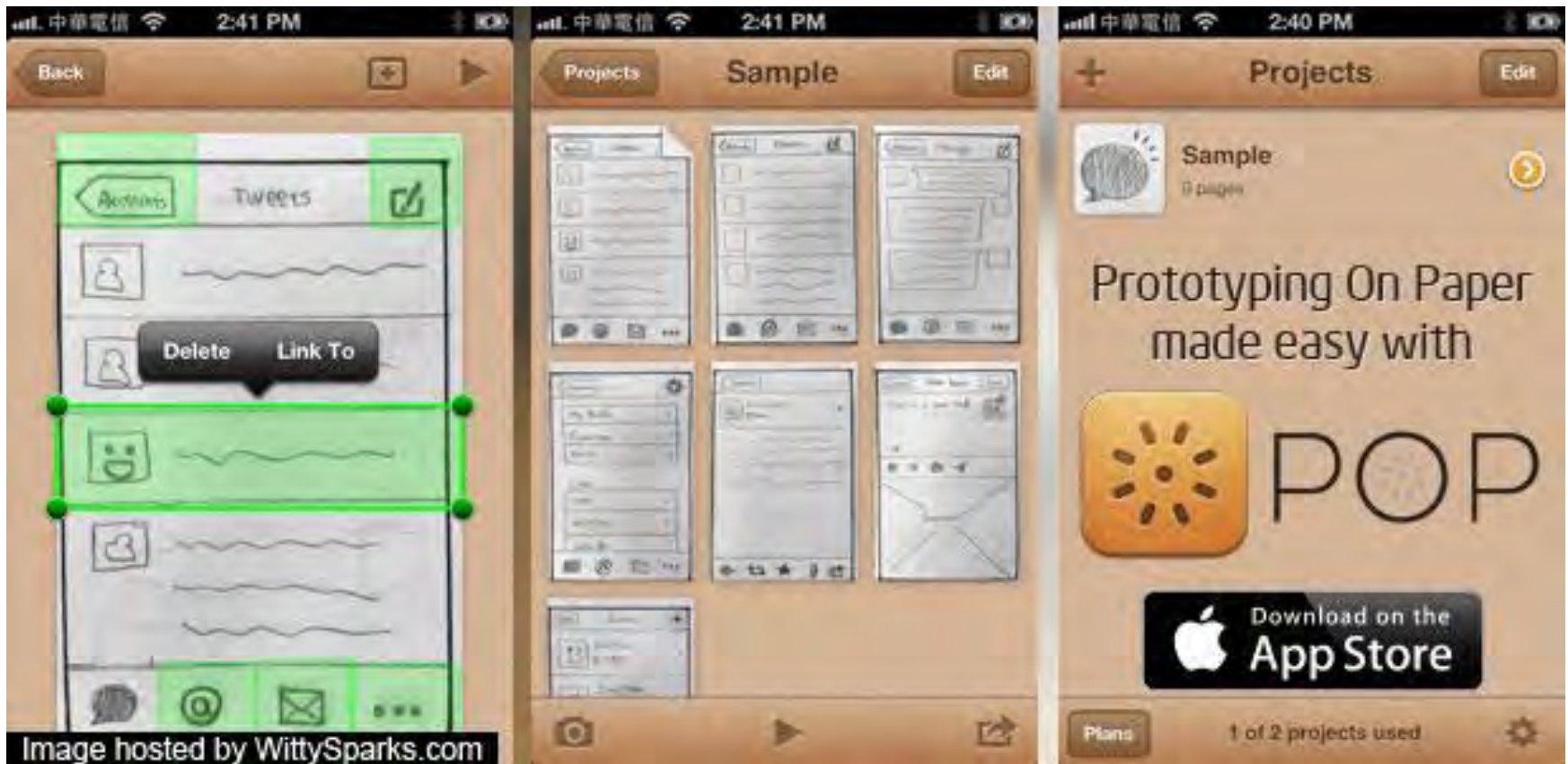
FOOD TRUCK



RESTAURANT



Paper and Digital Prototypes



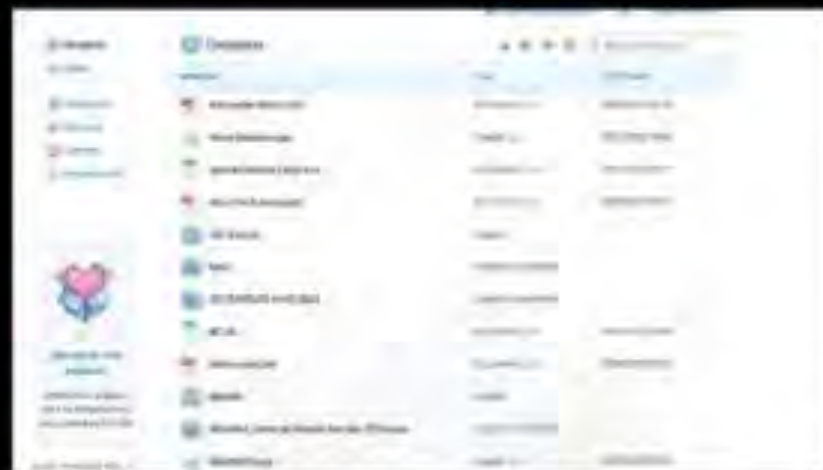
Choice your MVP

1. Customer interviews
2. Landing pages
3. Test A/B
4. Advertising campaign
5. Crowdfunding campaign “Sell first, build later!”
6. Explainer video
7. Wizard of Oz “Fake it until you make it”
8. Blogs
9. Pilots
10. Paper and Digital prototypes

& much more



VIDEO

[illegible]

PRIMER PROTOTIPO DE AIRBNB EN 2009



LANDING PAGE

AIRBNB HOY



FOOD TRUCK DE COMIDA THAILENDESA



PROTOTIPO
FUNCIONAL

RESTAURANT



PROTOTIPO DE ZAPPOS



ZAPPOS.COM



FUNDADORES DE PEBBLE ARMANDO RELOJES



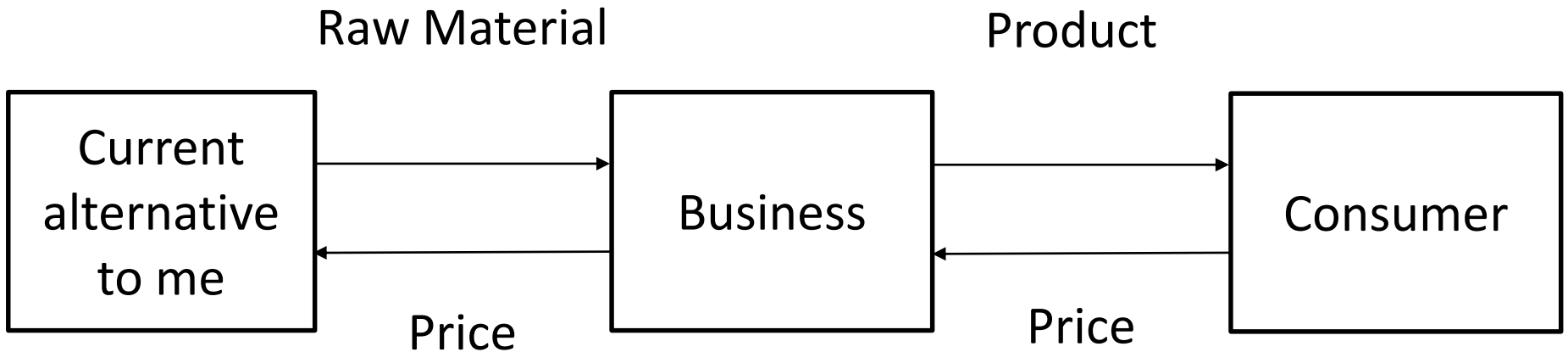
PEBBLE WATCHES



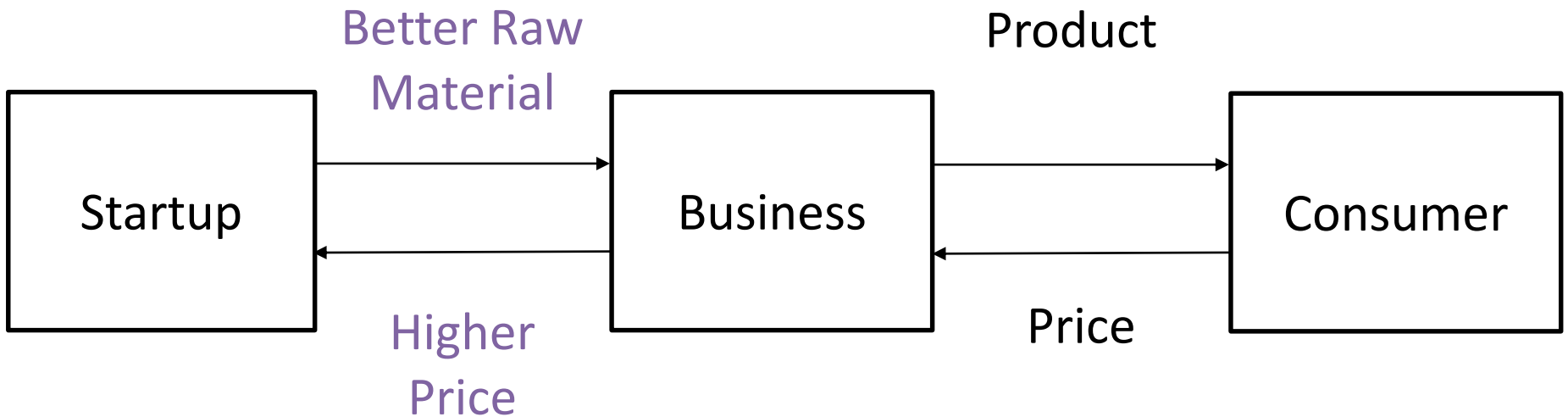
<https://www.kickstarter.com/projects/597507018/pebble-e-paper-watch-for-iphone-and-android/description>

VALIDATING BUSINESS MODELS

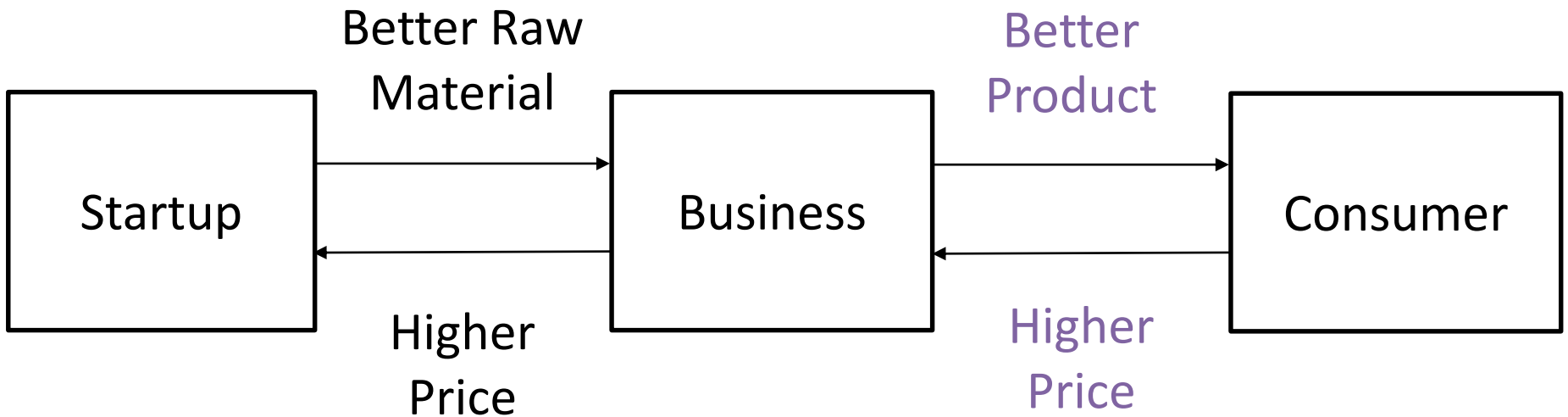
A Business Model chain:



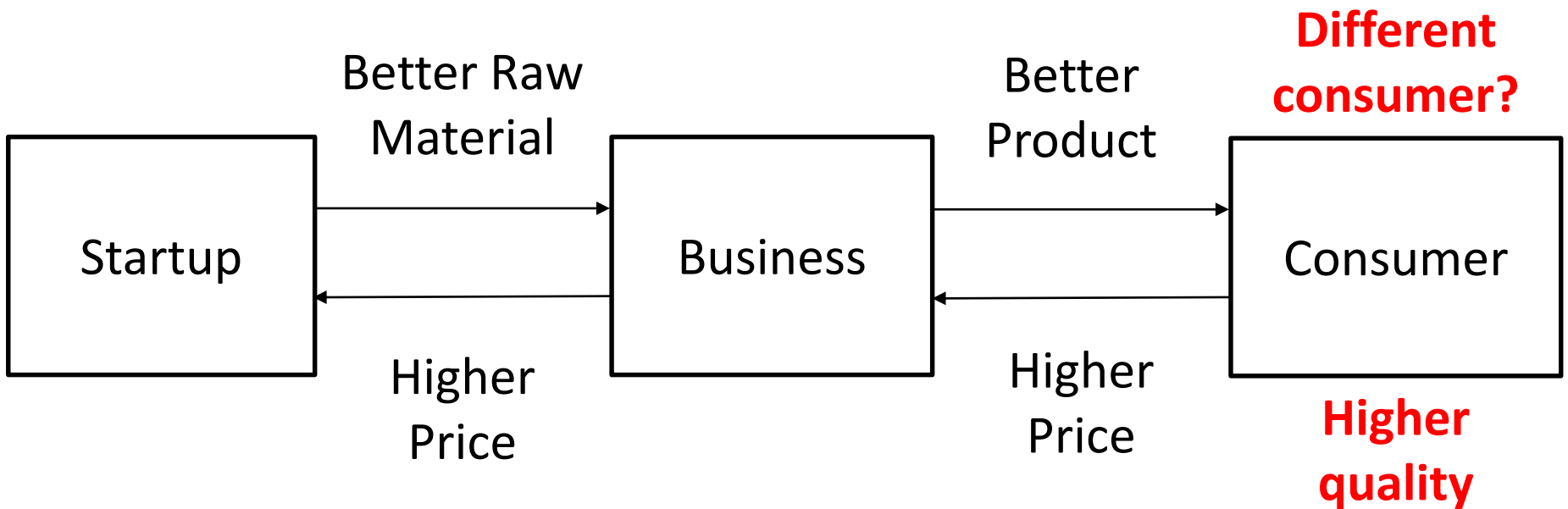
My Business Model chain:



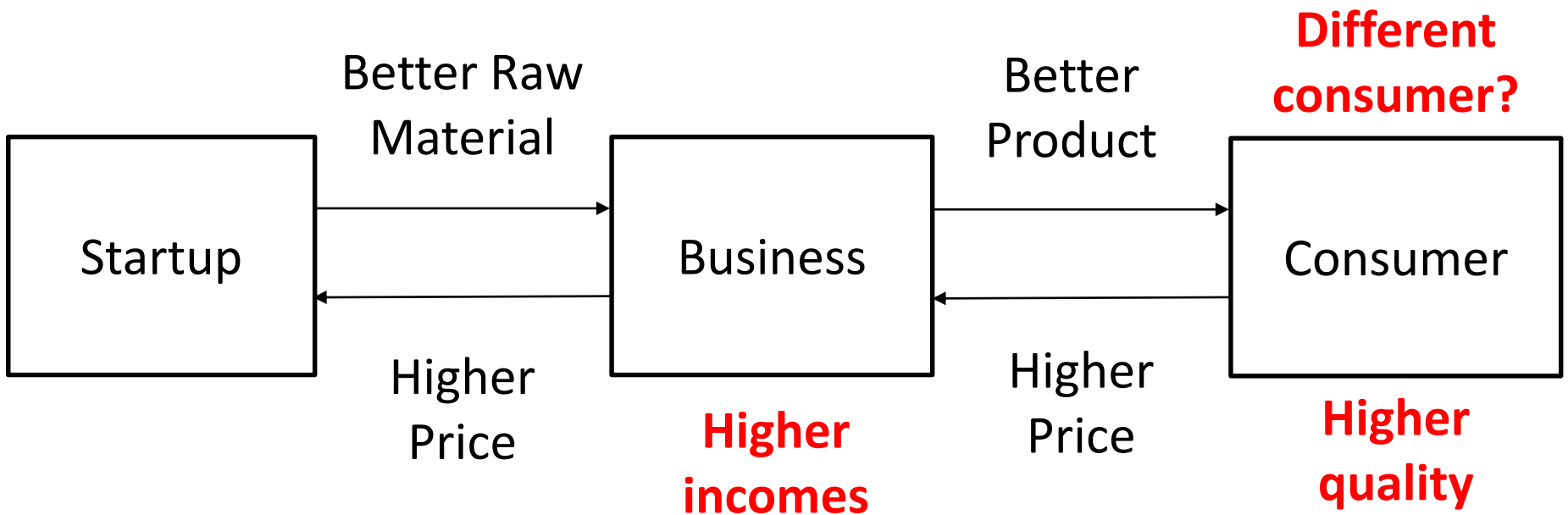
My Business Model chain:



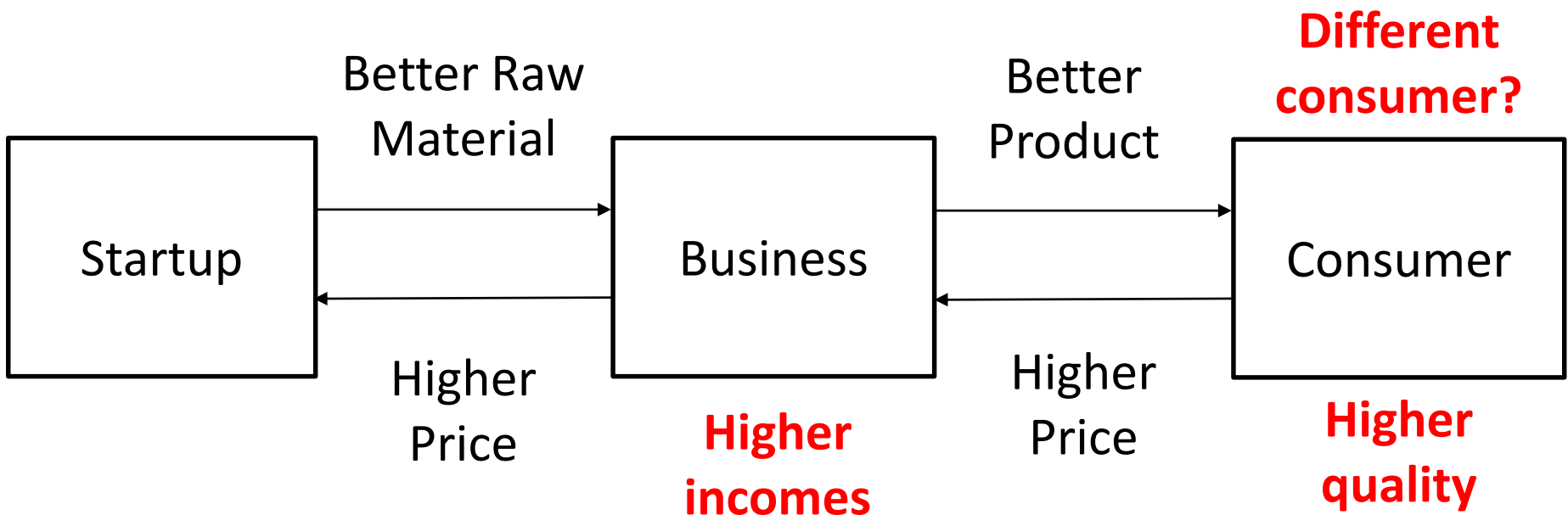
My Business Model chain:



My Business Model chain:



My Assumptions:



Is a higher quality
an added value to
the final
consumer?

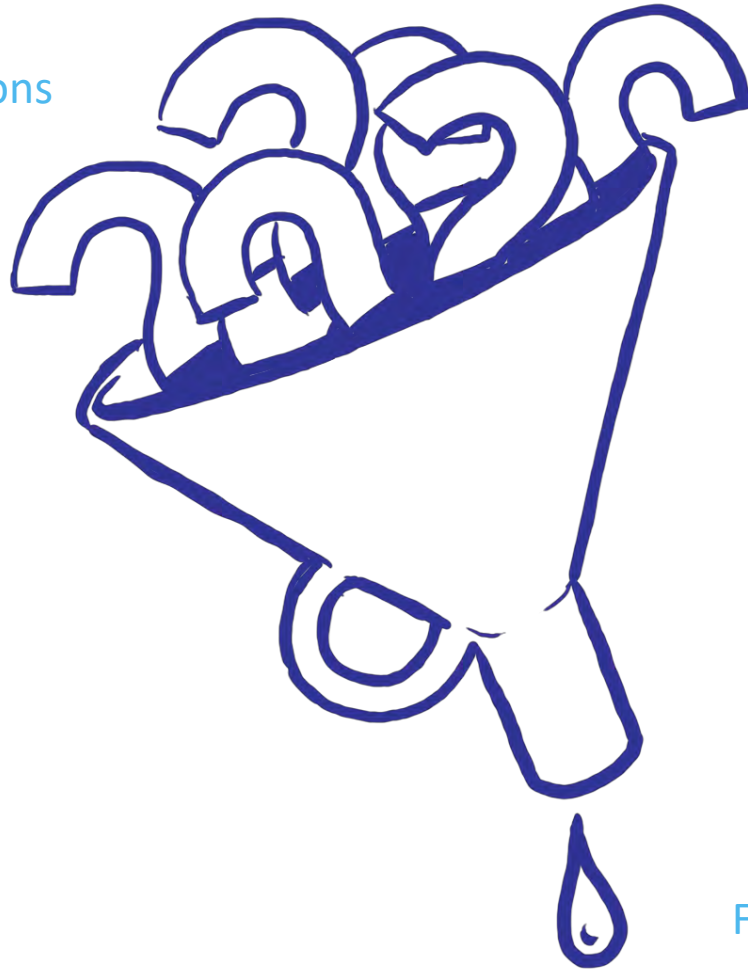
Is there another
consumer
segment willing
to pay for this?

Is our product as
good as to make
our client pay
more?

How much
more?

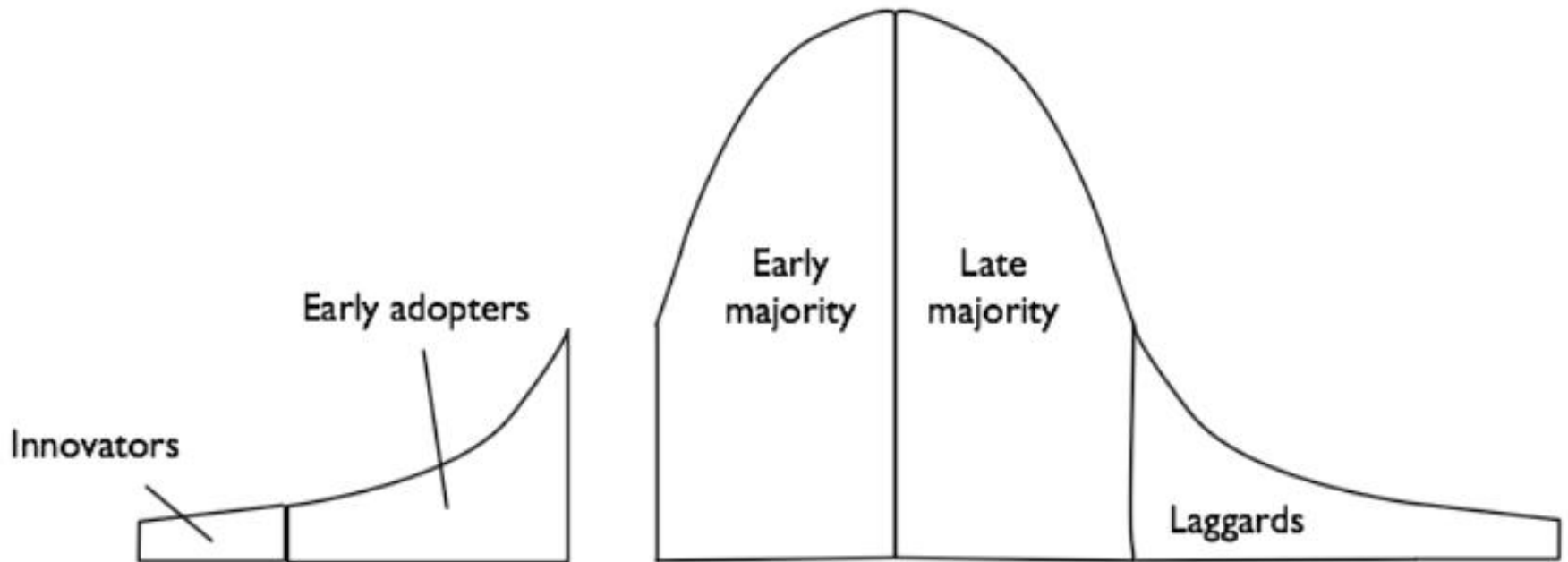
My Goal: Validate our Assumptions

Assumptions



Facts

Not **everyone** is your customer



Focus on Early adopters

- Has a **problem**
- Is **aware** of having a problem
- Has been **actively looking** for a solution
- Has **put together** a **solution** out of piece parts
- **Has** or can acquire a **budget**

Interviewing Customers is a Special Kind of Torture

It's like...



Interviewing Customers is a Special Kind of Torture

Talk to a stranger.

That stranger is immensely busy... and hates being sold things.

That stranger will likely destroy your vision for a company.

Chats

Mom



Mom, I have an idea for a business
– can I run it by you?

Of course, dear!

You like your iPad, right? You use it
a lot?

Sure! It's great!

Chats

Mom



Okay, so would you ever buy an app which was like a cookbook for your iPad?

Hmmmm

And it only costs \$40! That's cheaper than those hardcovers on your shelf!

I love cookbooks! Sounds nice!
Does it come with vegan recipes?
Or something special for Xmas?

But actually...

Chats

Mom



Mom, I have an idea for a business
– can I run it by you?

Of course, dear!

I only use it to read emails on the
sofa and surf the internet...

...it

Sure! It's great!

Chats

Mom



Okay, so would you ever buy an app for a book for

Hmmm

Well, I have plenty of cookbooks. I don't need a computer in the kitchen – It might get dirty! App? I never bought an app. Aren't they supposed to be \$1? Do you need your credit card for that?

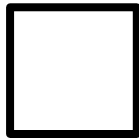
on

Let me try to change the subject!

I love cook
Does it come with veg
Or something special for Xmas?

Quiz

**Good
Question**



**Bad
Question**



Chats

Customer X



Do you think it's a good idea?

Chats

Customer X



Would you buy a product which solved this problem?

Chats

Customer X



Can you talk me through the last time you had this problem?

Chats

Customer X



How much would you pay for this?

Chats

Customer X



How much money does this problem currently cost you?

Chats

Customer X



Is there a budget for it?

Chats

Customer X



Who else should I talk to?



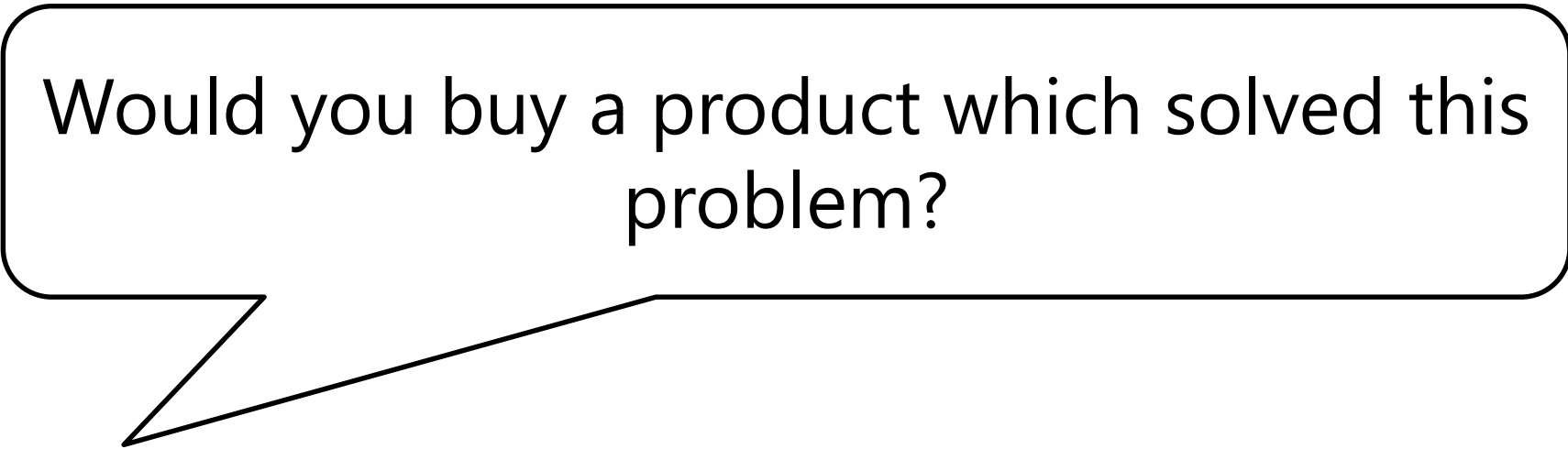
Do you think it's a good idea?



Do you think it's a good idea?

FIRST RULE FOR VALIDATING YOUR IDEA

Do not talk about *your idea*.



Would you buy a product which solved this problem?



**Would you buy a product which solved
this problem?**



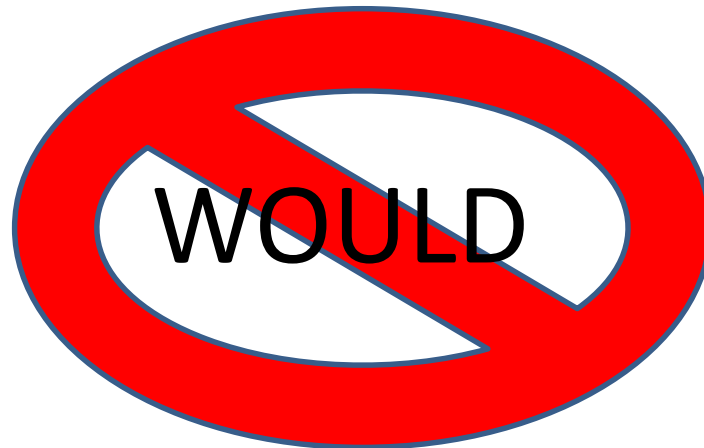
How much would you pay for this?



How much would you pay for this?

SECOND RULE FOR VALIDATING YOUR IDEA

Do not talk about the future.





- “If we built a product that solved X problem, **would** you use it?”
- “How much **would** you pay for something that did X?”
- “**Would** you like your existing solution better if it did X?”

AMATEURS



**LET ME SHOW YOU HOW
TO DO IT**

My Customer Interview Script

1. What's the hardest part about [problem context]?
2. Can you tell me about the last time that happened?
3. Why was that hard?
4. What, if anything, have you done to solve that problem?
5. What don't you love about the solutions you've tried?

Question #1: What's the hardest part about [problem context] ?

Don't be so specific that you tell them about the problem *you* want to solve:

What's the hardest part about finding a good vegetarian restaurant in a new city?

But you also don't want to be so broad that you're inviting discussion about a range of problems you have no interest in solving:

What's the hardest part about being a vegetarian?

You want to ask about a *significant problem context* :

What's the hardest part about eating out as a vegetarian?

Question #1: What's the hardest part about [problem context]?

Listen for: The words they use to describe the problem.

Question #1: What's the hardest part about [problem context]?

You can discover new problems:

“The portions aren't large enough”

“I don't really trust that the things I order are meat-free”

“A yelp search for 'vegetarian' returns results like 'Joe's All American Steak House' with comments like, 'Don't bring your vegetarian friends here.'”

Question #1: What's the hardest part about [problem context]?

Remember to Empathise:

“I’ve experienced exactly the same problems myself”

“You’re not alone there. I’ve talk to several other people who have said the same thing.”

“That makes sense”

Question #2: Can you tell me about the last time that happened?

- We ask stories because they enable us to dive deeper into paths we could never hypothesize “**inside the building.**”
- You’ll learn 23x more from a story than you will a yes/no answer.
- **Phrases** and **jargon** you can turn into marketing copy.

Listen for: Have they tried to solve it in the last **6 months**? If not, **start over** asking about a different challenge.

Question #3: Why was that hard?

- Customers don't buy a what, they [buy the why](#).

Listen for:

The **real** problem they're trying to solve.

Emotions you can evoke in your marketing copy.

Question #4: What, if anything, have you done to solve that problem?

- If they aren't looking for solutions already, this isn't a big enough problem for us to solve.
- For someone to take a bet on us, a startup, an unknown entity, we must be solving a problem so pressing, customers are actively searching for solutions.

Listen for:

The **channels** you can use to find other customers like this one.

Question #5: What don't you love about the solutions you've tried?

- This is our Unique Value Proposition. We'll build something that solves our customer's problem, in a way that's better than their alternatives.
- It helps you quantify your value proposition.

Listen for:

This is how to differentiate your solution from the competition.

IN-VALIDATION!

- “Can you tell me about the last time you tried to find a good vegetarian restaurant in a new city?” – **If the problem is not mentioned, you still can be direct with Q2!!!**
- Put extra weight on their response to Question #4: “What, if anything, have you done to solve that problem?”

Is the right customer?

Is it better to focus on another problem?

Your hypothesis has been invalidated.



Who else should I talk to?



Who else should I talk to?

You are looking for **emotions**

- Frustration
- Excitement
- Things **they care about**

Ask about

- **Frequency & Details**
- **Current** solutions
- **Past** behaviour

Quiz

Did we make progress?

Good
meeting
outcome

☐

Bad
meeting
outcome

☐

Chats

Customer X



Sounds great! I love it!



They don't care!

Compliments and stalling tactics
Compliments are not commitments

OK



Warning!

Partial compliment

Is there a valid reason they cannot
introduce you right now?

OK



Danger!

A promising signal, but people
can't predict
their own behaviour.

OK

Commitment is the best signal

1. Time
2. Money
3. Reputation



Interview Tips & Tricks

- Listen, **don't** talk
- Encourage, but **don't** influence
- **Parrot back**, or misrepresent to confirm

Compliments
are **not**
commitments

Interview Tips & Tricks

Know your **goals** and **questions** ahead of time!

Interview Tips & Tricks

- Be Sherlock, investigate:
 - If you hit a strong signal, ask around it
- Drill **down** into it, **Five Why's**, root cause analysis

Listen, **don't** talk

Encourage, but
don't influence

Parrot back, or
misrepresent to **confirm**

Where can I obtain contacts?

[Rapportive Hack](#)

[JigSaw](#) (now Connect at Data.com)

[LinkedIn](#)

[Mechanical Turk](#)

[Kimono](#)

**Article: [Anybody that Knocks
LinkedIn Doesn't Know How to
Use It](#)**

| CHANNEL | EFFECTIVINESS |
|--|------------------|
| Postal shipping | Hahahaha |
| Mail | Low/Medium |
| Cold Call | Hahahaha |
| Cold call (pregunto por...) | Low |
| Cell Phone (reference) | Great |
| LinkedIn | Good / Very good |
| Other networks | ----- |
| Personal meeting | Good / Very good |



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poli [Buscador]

Invitado

Mi Portal

Mi Biblioteca

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Idioma: Español

Búsqueda Global Catálogo Biblioteca Digital Bibliografía de asignaturas

sabi

Biblioteca Digital UPV

Buscar

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contiene las palabras

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Expandir mis resultados

☐ Incluir referencias sin el texto completo

Mostrar solo

Revistas Peer-reviewed (758)

Refinar Mis Resultados

Recurso electrónico

OneFile (GALE) (710)
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MEDLINE (NLM) (131)
Emerald Management eJournals (70)
Arts & Sciences (JSTOR) (47)
Muestra 15 más

Tipo de documento

Artículos (1.184)
Libros (95)

1.363 Resultados para Biblioteca Digital UPV

clasificar por: relevancia

1-10 [Siguiente](#)

Mostrar solo [Revistas Peer-reviewed](#) (758)



SABI [Recurso electrónico-En línea]

Bruselas : Bureau van Dijk 1996

[Detalles](#) [Comentarios y tags](#) [Servicios adicionales](#)

Base de datos



Cosmic wabi-sabi: Tell-tale morphological imperfections in impact crater shapes revealed by numerical analysis

Tabares - Rodenas, Pascual ; Ormo, Jens ; King, David T.
Earth and Planetary Science Letters, Sept, 2013, Vol.377-378, p.211(7) [Revista Peer Reviewed]

[Detalles](#) [Comentarios y tags](#) [Servicios adicionales](#)

Artículo



Cosmic wabi-sabi: Tell-tale morphological imperfections in impact crater shapes revealed by numerical analysis

Tabares-Rodenas, Pascual ; Ormö, Jens ; King, David T.
Earth and Planetary Science Letters [Revista Peer Reviewed]

[Ver todas las versiones](#)

Artículo

Enviados - j.delolmo@diagn...

Recibir

Redactar

Charlar

Direcciones

Etiqueta

Filtro rápido

Buscar... <Ctrl+K>

Asunto

Re: Saludos desde DIAGNOMA

Re: Saludos desde DIAGNOMA

Re: Canalización Gas Natural

Re: Asuntos pendientes

Destinatario

Fecha

30/01/2014 10:35

30/01/2014 10:21

29/01/2014 17:53

29/01/2014 08:55

De José Jesús Del Olmo Vico <j.delolmo@diagnoma.es>

Responder

Responder a todos

Reenviar

Archivar

No deseado

Eliminar

Asunto

Re: Canalización Gas Natural

Miguel Ángel Castelló <m.castello@diagnoma.es>

29/01/2014 17:53

Otras acciones

El 20/01/2014 11:04, José Jesús Del Olmo Vico escribió:

Buenos días Luis.

Le escribo este correo debido a que nos ha proporcionado su contacto. Nosotros somos una Ingeniería que se dedica a la Obra Civil, Edificación, Terreno y Patrimonio.

Hablamos con la posibilidad de ofertar nuestros servicios a la hora de realizar una prospección de servicios enterrados mediante georradar en las obras de canalización de gas en la Vall d'Uixó, tal y como nos comentó el técnico del Ayuntamiento de dicho municipio.

Si están interesados en que les presupuestemos los trabajos, o incluso en conocernos para que les expliquemos en profundidad lo que hacemos, no duden en ponerse en contacto con nosotros.

Muchas gracias de antemano por su atención. Un saludo.

PS. Adjunto catálogo de servicios.

--

José Jesús Del Olmo Vico
Ingeniero de Caminos, Canales y Puertos

E-mail: j.delolmo@diagnoma.es
Telf: 644 27 02 83

Diagnoma

1 adjunto: Presupuesto georradar Vall d'Uixó.pdf 130 KB

Guardar

j.delolmo@diagnoma.es

Bandeja de entrada

Borradores

Plantillas

Enviados

Archivos

Correo no deseado

Papelera

joolvi@upv.es

Bandeja de entrada

j.delolmo@trainingexperience.org

Bandeja de entrada

info@trainingexperience.org (1)

Cold Email Sample

Subject: Remote coding

Hi Sam,

I read [your article](#) on volunteering your professional skills in Guatemala – it was really inspiring. I'm looking to travel more and you've got me thinking about incorporating volunteering when I do!

I have a software company trying to improve remote medical record coding.

I'm not looking to sell anything, but since you have so much expertise with remote coding, I'd love to get your advice on our product so we don't build the wrong thing.

If you're available, I'd love to chat for just 20 minutes – Thur or Fri morning?

Thanks for any help,
Justin

Short? 5 sentences. That's all you need. Any longer than that and you're wasting their time.

Personal? This part is the most work, but it's what's going to separate you from the spammers. Plus, researching each of your customers to find something unique about them is going to give you incredible insight. Consider commenting on their:

- Blog posts
- Any professional organizations they belong to
- Companies listed on their LinkedIn profile
- Tweets they've sent

This is Important: Don't skip this part. Without something personal in there you're liable to get flagged as spam. If that happens enough times, you'll forever be relegated to junk mail.

Valuable? In this case we're offering to "improve remote medical record coding." Our hypothesis is that Sam has problems with her remote coding process and by hinting that we're trying to solve them, we're giving her a reason why spending 20 minutes with us will be worth her time.

Without this line you're "offering" to take 20 minutes of her time, and giving nothing back. Why would she sign up for that?

Note: Be vague. You don't want to seed your customer with the problem you're hypothesizing. Note how the email doesn't say anything about making "remote coding":

Faster

Cheaper

More secure

More accurate

Exercise: Customer conversations



TEAMS

YOU ARE THE PERFECT TEAM...



... BUT IF YOU DON'T DESCRIBE IT PROPERLY ...

... YOU'RE GOING TO SEEM 4 TIMES THE SAME PERSON.



Three profiles for a Dream Team:

“To run an efficient team, you only need three people: a Hipster, a Hacker, and a Hustler.”

The Forbes logo, consisting of the word "Forbes" in a white, serif font, set against a dark gray rectangular background.

HIPSTER



HIPSTERS

It takes a lot of effort to look like you don't care.

HIPSTER

Usually working their way into the mix as the **designer** or creative genius, they'll make sure the final product is cooler than anything else out there. But, not only that, they'll ensure the shade of blue used to accent the font really brings out the subtle homage to an artist from the '70's you've probably never heard of.

CUSTOMIZATION

DESIGN

USER EXPERIENCE

BRAND

MARKETING

HACKER



KIT MCGIVER

HACKER

The one most likely to sit quietly through a board meeting until uttering the three sentences that **answers the all important question of “how?”** the new idea or initiative can be brought into reality. Resembling MacGyver with their ability to wield various lines of code or programming languages, you'll get dizzy trying to keep up with their keystrokes.

NEWNESS

TECHNOLOGY

PERFORMANCE

HUSTLER

**SUIT
UP!**



Because tonight is going to be legendary!!!!

HUSTLER

They have the tendency to be the most misunderstood member of this trio. The Hipster is likely to accuse the Hustler of having sold out to the man because of their constant question of **“It’s cool, but is it something our partners and clients want?”** The Hacker is likely to do their best to avoid one on one conversations with the Hustler as a result of jock vs. geek episode back in high school.

PRICE

COST REDUCTION

Three profiles for a Dream Team:

When the **Hipster** brings the **creative design** and cool factor, the **Hacker** brings their utility belt of **technology solutions**, and the **Hustler** finds the right way to package it all up and take it to the masses in the form of **sales** and partnerships, it is a combination that is tough to beat.

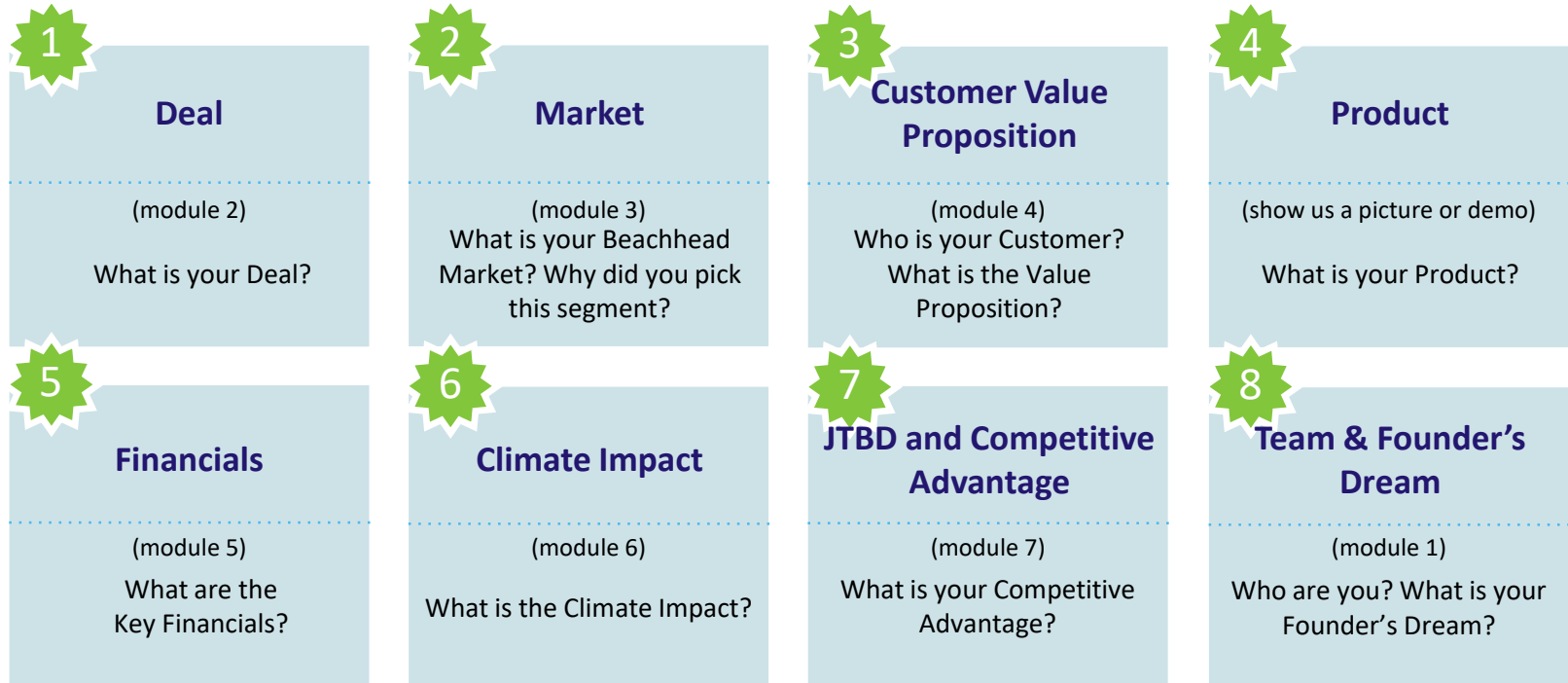
The only question is, does your team have all three?

ELEVATOR PITCH

Israel Griol



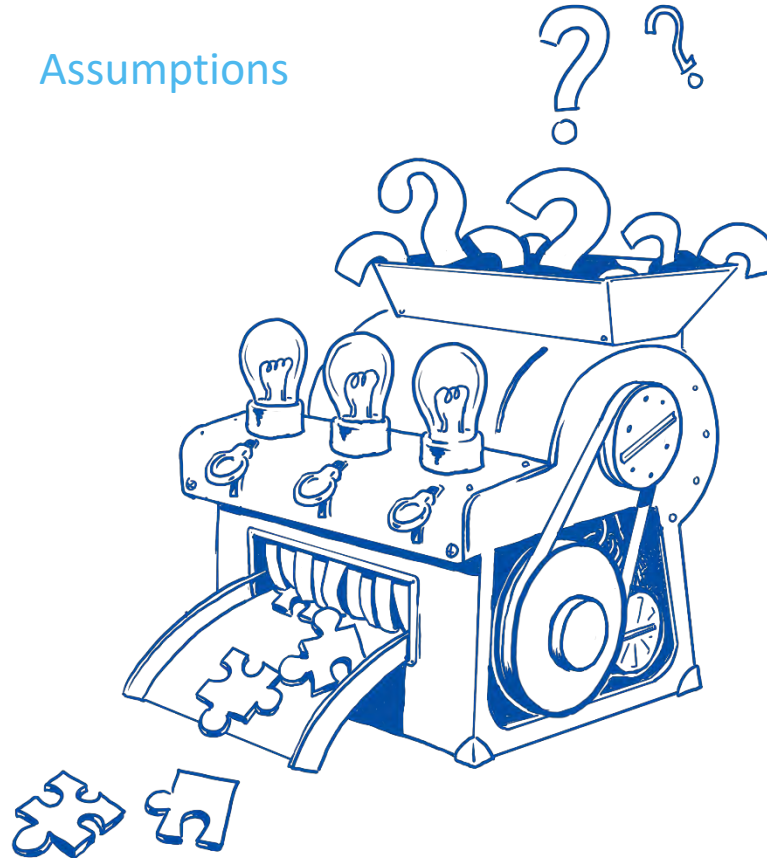
A Pitch Deck format!



Validate your Assumptions

Assumptions

Facts



Types of assumptions

- Customer – is there a **problem** or **opportunity**?
- Market – is there a big enough **market** segment?
- Product – Can I **build** it?
- Team – Do I have the right **people**?
- Financial – Will we make **money**?
- Legal/IP – Do I have **Freedom To Operate**?

Experiment Design template

| | |
|---|---|
| 1. Hypothesis: define the assumption you want to validate We believe that ... | 5. Results: What are the results obtained? We observed |
| 2. Experiment Design: define how you are going to test the hypothesis To verify that we will | |
| 3. Metric: Define the metric you are going to use And measure | 6. Learnings: What can we learn from the results? From that we learned that |
| 4. Minimum Success Criteria: Define the criteria to validate the hypothesis as true? We are right if | 7. Next Steps: Decisions and actions. Therefore we will |

Breathe

- Make sure you **feel good about yourself** before going on stage. Think about a moment in your life or something you achieved that you feel really good about. Take that feeling with you when you go on the stage – you'll feel a lot more relaxed.
- Don't forget to breathe! **Breathe from your belly** and just relax.

Non-verbal communication

- Never put your hands in your pockets. Instead, **use your hands** to give some extra power to your speech.
- **Never cross your arms.** It blocks your breathing and it looks very defensive, where you want to be nice and open.
- Stand on 2 feet, **be grounded in 1 space.** Trick: stand straight, a little wide and turn the points of your shoes to the outside. This will lock your knees.

Interaction

- Make sure **the jury is ready** for your story. If not, wait until they are and focus on your breathing.
- **Make eye contact** with 3 people in the room: 1 in center, 1 left, 1 right to whom you can kind of talk to. Look at the jury once in a while as well.

Choose your words carefully

- **Avoid jargon.** Your customers are not interested in technology; they want a solution for their pain. Use the language of your customer.
- Don't use verbs like hope, plan and might. Use language that shows you're really committed. **Use will, are and can.**
- **Give short answers,** it allows the jury to ask more questions and to get to know more about your idea.

Eat, sleep, pitch, repeat

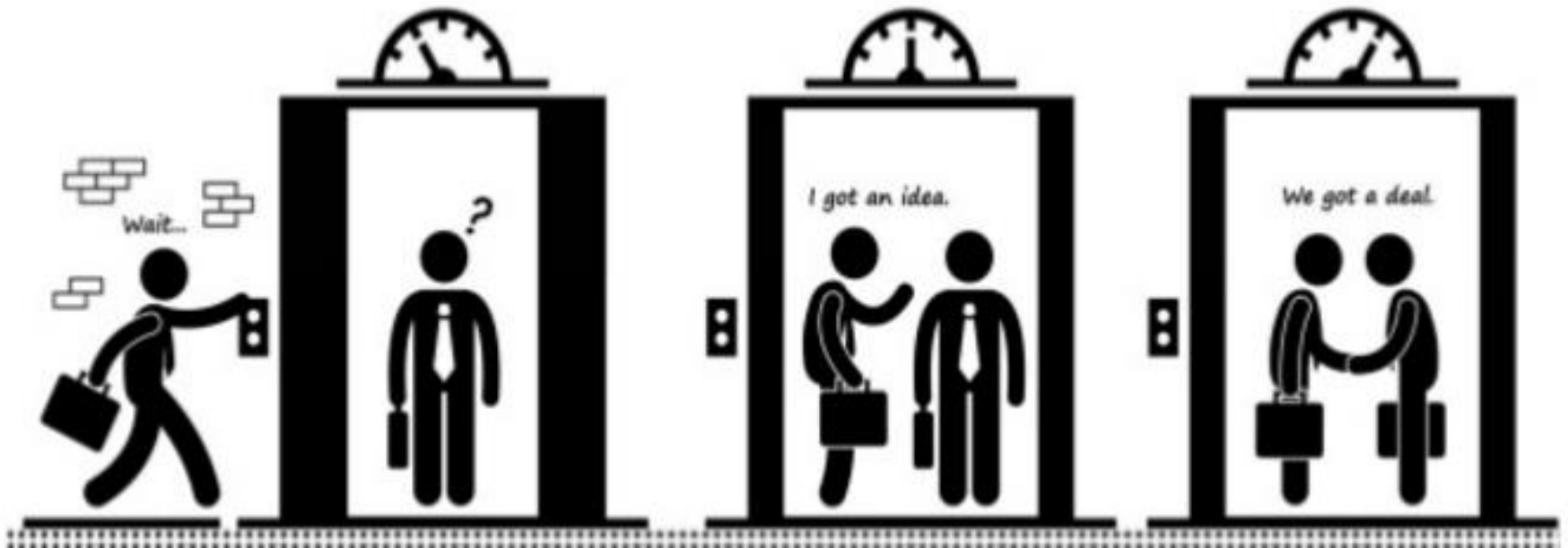
Practice, practice and practice. It's really not that hard, you just need to do it a lot.

Practice at least 50 times, to anybody you can imagine, in front of the mirror and use video to see yourself..

“Taxi Pitch”



Why “Elevator Pitch”?



Different situations:





I'm so glad we all agree

A King penguin with a black head, yellow-orange beak, and white chest stands prominently on the right side of the frame. It is surrounded by a dense, out-of-focus crowd of hundreds of fluffy brown chicks. The penguin's sharp features and distinct colors contrast sharply with the soft, uniform brown of the chicks, making it the focal point of the image.

Our objective :

**STAND OUT
OF THE CROWD**



People should get your message in
3 SECONDS



The Sexy Plant

ClimateLaunchpad 2015



KNOW YOUR

audience





*Tell a
story*

Once upon a time

PRACTICE
MAKES
PERFECT

RENTAL TRUCKS

time
control



Do not be
nervous



**DON'T
LIE !**



Different *voice tones*



Take care of your *Body language*



Hands in your pockets!



No crossed arms or hiding them





1



2





- ☐ Esconder las manos en los bolsillos es símbolo de inseguridad
- ☐ Al igual que el mentón hacia abajo
- ☐ La vista al piso
- ☐ El peso del cuerpo es depositado en un solo pie.



- Esta postura refleja que me protejo y literalmente me cierro ante cualquier respuesta negativa o incómoda.



- Brazos a las caderas denotan agresión y una postura a la defensiva.







You can use as many slides as you need...



... but every slide must have a reason to be there.

BLA BLA BLA BLA BLA BLA BLA BLA BLA BLA BLA BLA BLA BLA BLA BLA
BLA BLA BLA BLA BLA BLA BLA BLA BLA BLA BLA BLA BLA BLA BLA BLA
BLA BLA BLA BLA BLA BLA BLA BLA BLA BLA BLA BLA BLA BLA BLA BLA
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BLA BLA BLA BLA BLA BLA BLA BLA BLA BLA BLA BLA BLA BLA BLA BLA

This is not a slide.

You have to show

IDEAS

not slides

INFO



INFO INFO INFO INFO
INFO INFO INFO INFO
INFO INFO INFO INFO

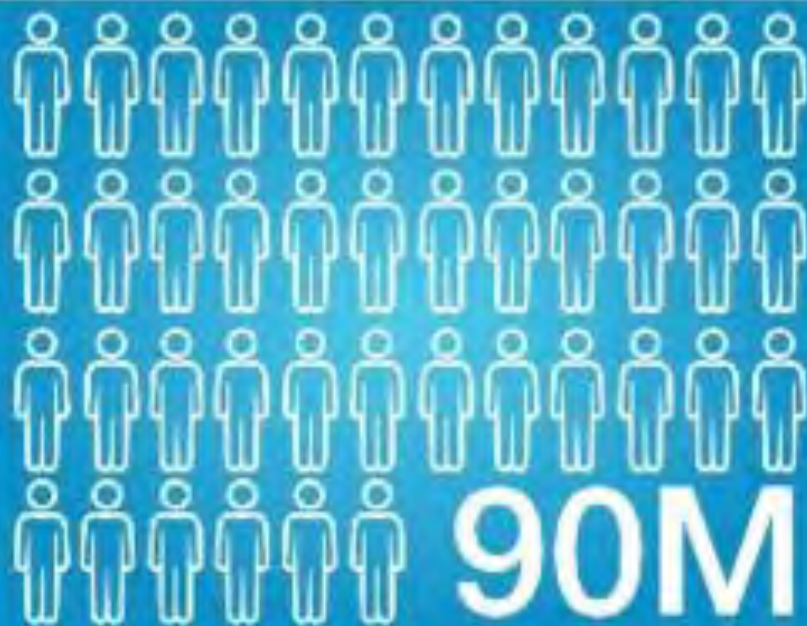
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WAHOU !

This is a document.

This is a slide.

In Latin America, 90 million attendees go to conferences to learn, but most important, to meet new people.



*I wont du
mispelings*



If you are rehearsing a milion times, how can you have mistakes on your slides?

Default type is
wrong.

**Respect
your audience.**

respeto a tu
audiencia

Use

DIFFERENT

font styles.

USA

DIFERENTES

tipos de fuente



Chunkfive

Fertigo

Quicksand

NEVIS

Museo

caviar dreams

BEBAS NEUE

DK Crayon Crumble

Postface Medium

Open Sans *Great Vibes* Roboto Exo

Alex Brush *Pacifico* **NEXA** **RUST**

Quicksand Raleway *Lobster* Oswald

Grand Hotel **ChunkFive** Alegreya Sans

Montserrat *Kaushan Script* League Gothic

Learning Curve Pro Allura Sofia

NEW!

Font Squirrel



Google Fonts

629 font families found

Filters:

All categories

Thickness

Size

Style

Preview all 629 fonts

Script

Latin

Style

View all styles

Preview Text: Grumpy wizards make toxic

Grumpy wizards make toxic

Font: One, 1 Style by Impostor Type

Grumpy wizards make

Font: One, 1 Style by Eduardo Turi

Grumpy wizards make toxic

daloni.com

Font

Preview

Style

Size

Weight

Font Family

Font Name

Font Style

Font Size

Font Weight

Font Family

Font Style

Font Size

Font Weight

Font Family

Font Style

Font Size

Font Weight

Font Family

Font Style

Font Size

Font Weight

Cómo instalar una fuente desde un archivo de texto

- Descargar el archivo de texto desde el sitio web de la fuente
- Abrir el archivo de texto con un editor de texto
- Copiar el contenido del archivo de texto
- Pegar el contenido en el campo de texto de la fuente

Fontes gratuitas disponibles

Fontes gratuitas disponibles

Fontes gratuitas disponibles

Fontes gratuitas disponibles

Fontes gratuitas disponibles

Fontes gratuitas disponibles

Fontes gratuitas disponibles

Fontes gratuitas disponibles

Fontes gratuitas disponibles


Fontes gratuitas disponibles

Fontes gratuitas disponibles

Fontes gratuitas disponibles

**What about the
contents?**





5
minutEs
is
nothing...



5 minutEs
is
everythin
g!

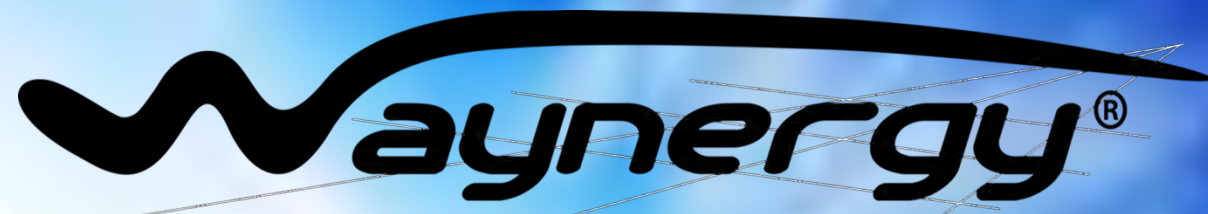


João Champalimaud

CEO, MSc Management

Francisco Duarte

CTO, PhD student MI T-Portugal



Capturing Energy

Francisco Duarte
C.E.O.

Choose
WISELY



HOW ?



Art



Music



Movies



History



Cultures



...

YOU MUST CHOOSE



BUT CHOOSE WISELY

WHERE ?



*Take your own
pictures*



*Buy stock
photos*



*Use Creative
Commons*

NEW!

Compfight



Flickr



shutterstock

Web de 28 millones de fotos, ilustraciones, vectores y vídeos en

Subscripciones e imágenes por demanda para todos los presupuestos

Autómatas
Animales domésticos
Arquitectura de interiores
Calentadores
Café y té
Cafeterías y restaurantes

Cerros
Cielos y paisajes
Edificios y arquitectura
Ejercicios
Españoles

BUSCAR POR CATEGORÍA

Grupos
Hoteles y restaurantes
Ilustraciones
Música
Naturaleza
Personajes
Religión y espiritualidad

flickr

Explore



Attribution License



From
florian.scholz



From
Kentuckyguard



From
toprankonlinema...



From
florian.scholz



From
florian.scholz

» 58,276,835 photos ([See more](#))

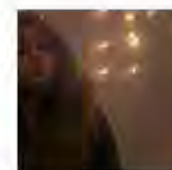
Attribution-NoDerivs License



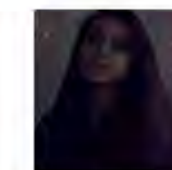
From
mekquiades1898



From mradwin



From
photosbyChloeMuro



From
photosbyChloeMuro



From Tambako
the Jaguar

» 16,578,413 photos ([See more](#))

Attribution-NonCommercial-NoDerivs License



non-profit that offers an alternative to full copyright."

creativecommons.org

Briefly...

Attribution means:

You let others copy, distribute, display, and perform your copyrighted work - and derivative works based upon it - but only if they give you credit.



Noncommercial means:

You let others copy, distribute, display, and perform your work - and derivative works based upon it - but for noncommercial purposes only.



No Derivative Works means:

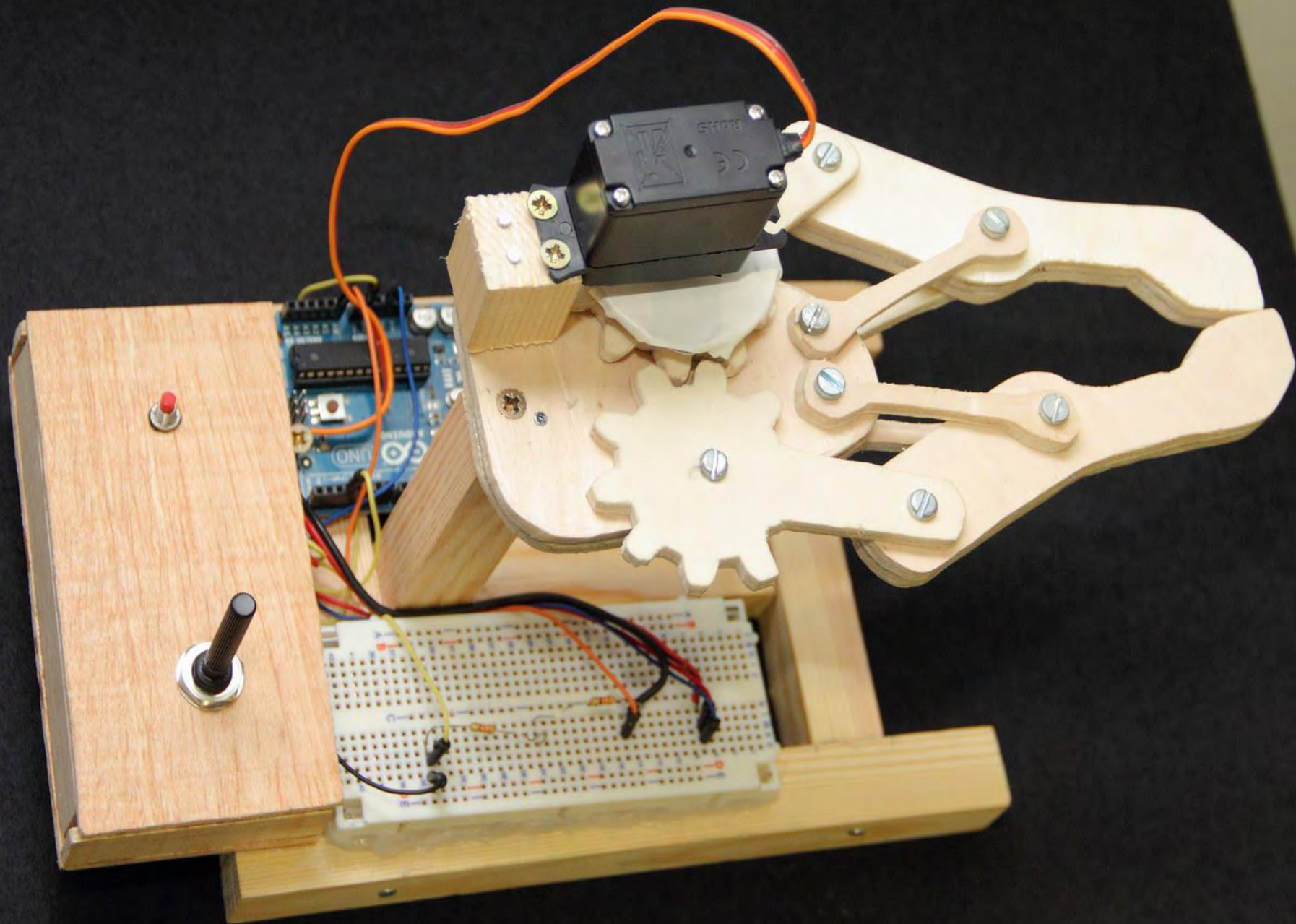
You let others copy, distribute, display, and perform only verbatim copies of your work, not derivative works based upon it.



Share Alike means:

You allow others to distribute derivative works only under a license identical to the license that governs your work.







DM54/DM7441A,141

Electrical Characteristics over recommended operating free-air temperature range (unless otherwise noted)

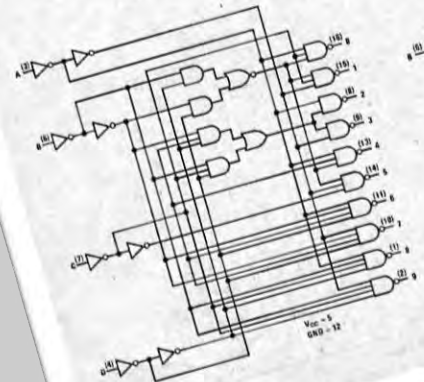
| PARAMETER | CONDITIONS | DM54/74 | | | UNITS |
|-----------|--|------------|---------------|------|---------|
| | | 41A MIN | 141 TYP(1) | MAX | |
| V_{IH} | High Level Input Voltage | 2 | | | V |
| V_{IL} | Low Level Input Voltage | | 0.8 | | V |
| V_{IS} | Input Clamp Voltage | | N/A | 0.8 | V |
| V_{OL} | On-State Output Voltage | | 2.5 | 2.5 | V |
| I_{OH} | Off-State Reverse Current | | 3.0 | 3.0 | μ A |
| | $V_{CC} = \text{Max}$ | | 60 | 60 | μ A |
| | $V_O = 50V$ | | 40 | 40 | μ A |
| | $V_{CC} = \text{Max}, V_O = 30V$ | | 1.8 | 1.8 | μ A |
| I_{OH} | Off-State Reverse Current for Input Counts 10-15 | 70 | 1 | | mA |
| V_{OH} | Off-State Output Voltage | | 3 | 40 | μ A |
| | $V_{CC} = \text{Max}, V_I = 5.5V$ | | 3 | 40 | μ A |
| I_I | Input Current at Maximum Input Voltage | | -1.0 | -1.6 | mA |
| I_{IH} | High Level Input Current | | -1.0 | -1.6 | mA |
| I_{IL} | Low Level Input Current | | 21 | 36 | mA |
| I_{CC} | Supply Current | | | 11 | 25 |

Notes

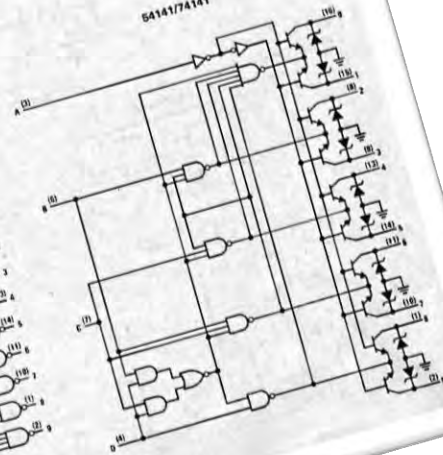
- (1) All typical values are at $V_{CC} = 5V, T_A = 25^\circ C$.
(2) I_{CC} is measured with all inputs grounded and outputs open.

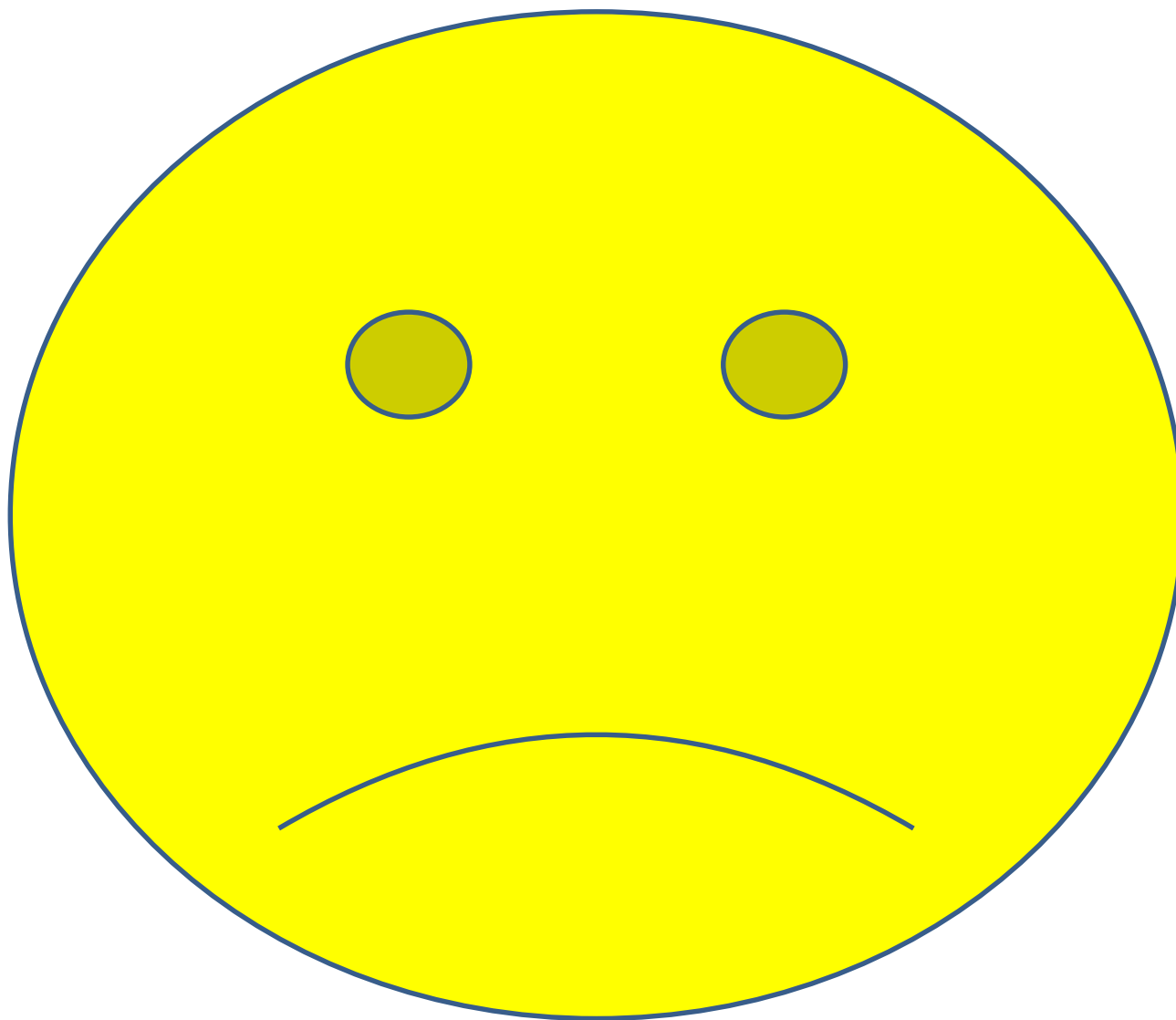
Logic Diagrams

5441A/7441A



54141/74141







“Hi There...”





WHO AM I – PROBLEM –
SOLUTION

PROBLEM – WHO AM I –
SOLUTION

“We don’t sell drills, we sell perfect holes”.

Black & Decker

“WE DON’T SELL PRODUCTS, WE SELL SOLUTIONS”.

Put your company name here.

“People BUY WHYs,
NOT WHATs”.

Steve Jobs

Bicycle Street Equipment

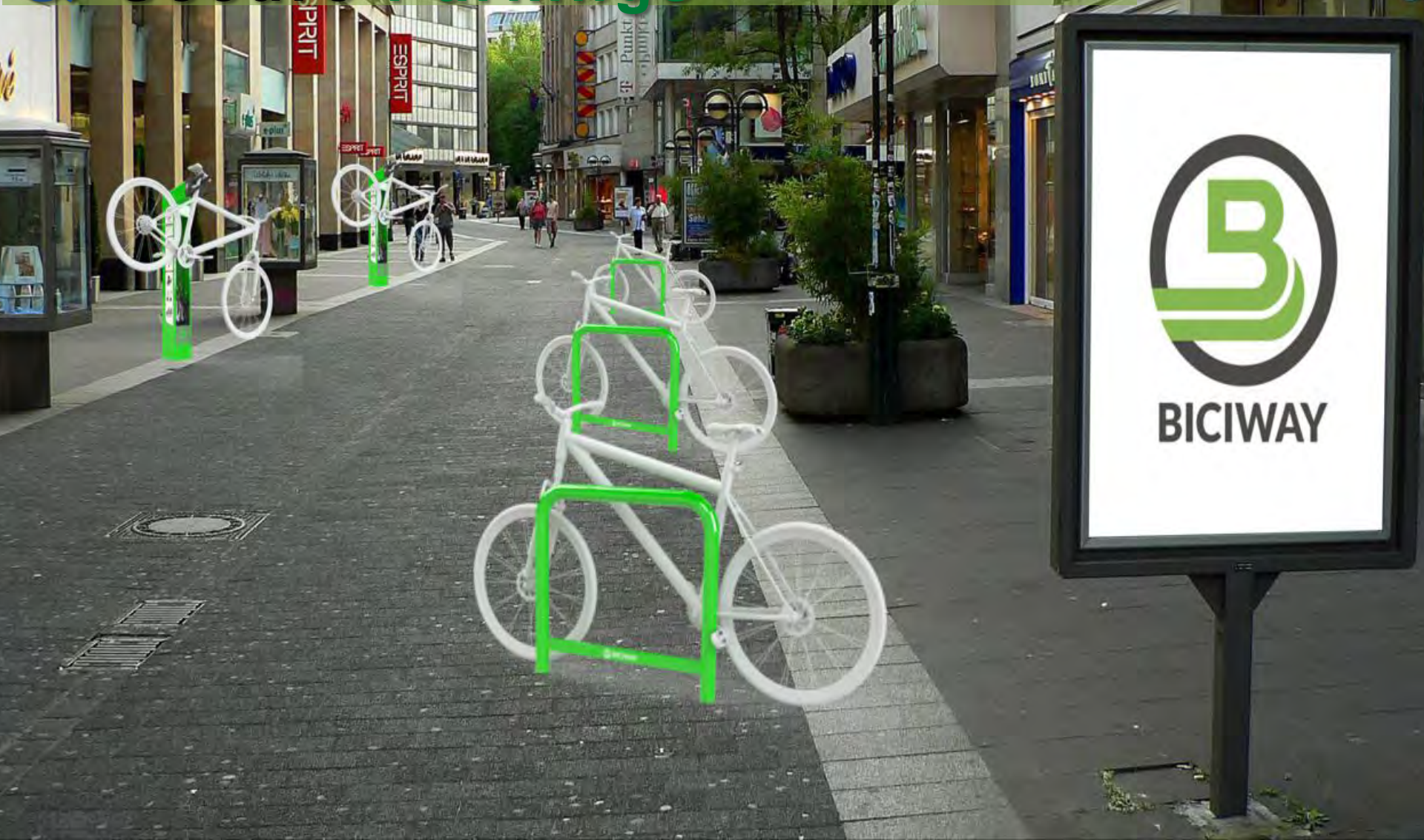


bicycle Self-Service Station



secure Bicycle Parking

Bicycle Self-Service Stations & Secure Parkings



Pain



City Problems:

Car Traffic

Air quality

Energy dependence

Bicycle Users:

Lack of bicycle infrastructures

83
Lex

A LOUER





Pain









Amsterdam,
September 4th

Meet Europe's next generation
of climate entrepreneurs

Audience Favourite ClimateLaunchpad European Final

The Sexy Plant

winning the ClimateLaunchpad 2015 - 2016 Award

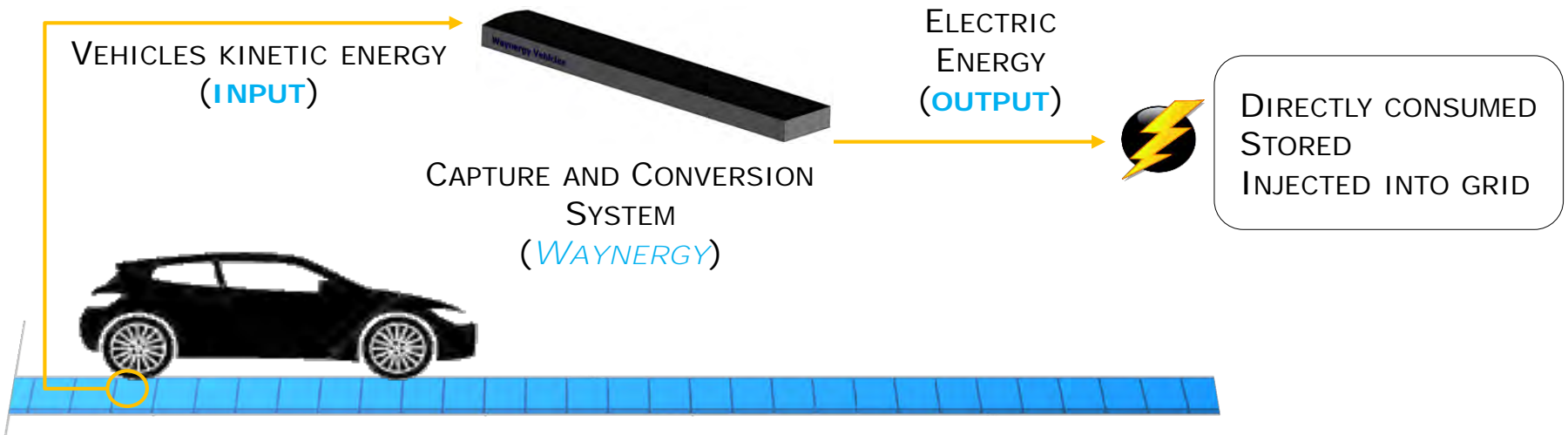
ClimateLaunchpad

The Sexy Plant

ClimateLaunchpad
2015

Climate-KIC
Climate

Climate-KIC is supported by
EIT, a body of the European Union





PRODUCT

COMPONENTS

HARVESTER

- **Handles 50.000 vehicle loads per day**
- Handles for fully loaded trucks
- Harvest >90% of the released energy
- Installs easily

CONVERTER

- **Conversion efficiency higher than 60%**
- Installs easily

STORAGE

- **Storage efficiency higher than 80%**
- Controllable system

Road developed to capture energy from passing cars



<http://www.3news.co.nz/world/road-developed-to-capture-energy-from-passing-cars-2014090718>

Road developed to capture energy from passing cars



<http://www.3news.co.nz/world/road-developed-to-capture-energy-from-passing-cars-2014090718>

Road developed to capture energy from passing cars



<http://www.3news.co.nz/world/road-developed-to-capture-energy-from-passing-cars-2014090718>

“WE HOPE, WE WILL TRY,
MAYBE”

“WE WILL BE, WE ARE”.

Cover slide

DEAL

MARKET

VALUE PROPOSITION

product/solution

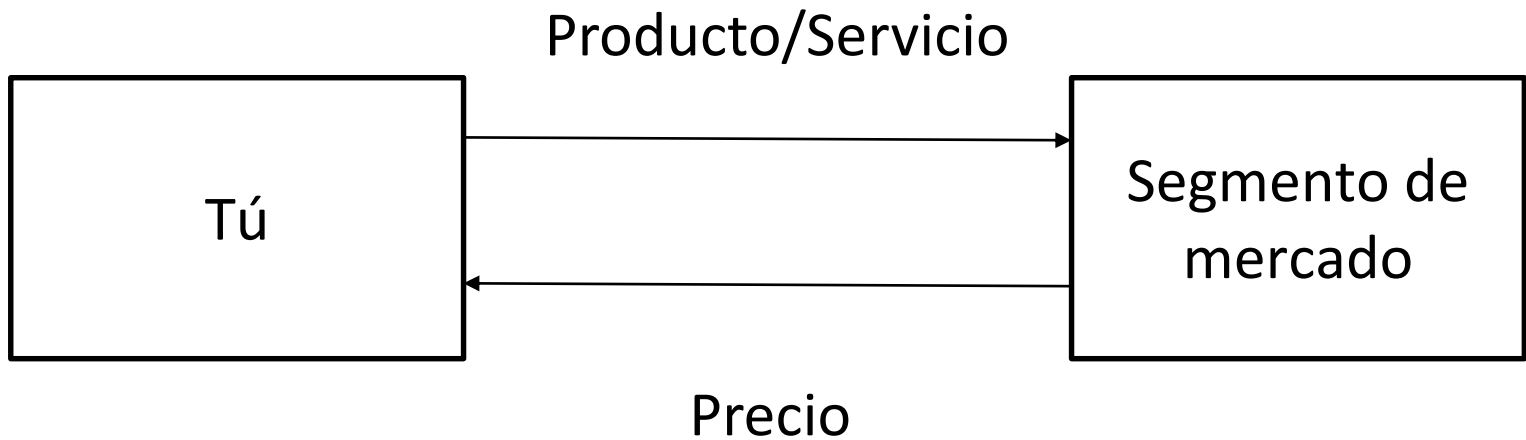
FINANCIALS

CLIMATE IMPACT

ITBD/COMPETITIVE ADVANTAGE

TEAM/DREAM

MODELO DE NEGOCIO





Aporta visibilidad

Free

Integración Mínima

PUBLICIDAD

Contratación Almacenamiento Pro con Principales Púbes

Gratis

Uso Profesional

RECOMENDADA



Professional

Integración de Plataformas

Grupos Colaborativos

Herramientas de Trabajo

9.90€/mes

Uso Seguro



Business

Integración de Plataformas

Grupos Colaborativos

Herramientas de Trabajo

Encriptado Seguro
con CloudSpaces

19.90€/mes

PROPUESTA DE VALOR – B2C

- 1) INNOVACIÓN, TECNOLOGÍA
- 2) PERSONALIZACIÓN
- 3) DISEÑO, USABILIDAD, EXPERIENCIA DE USUARIO
- 4) MARCA
- 5) PRECIO
- 6) REDUCCIÓN DE COSTES
- 7) VALORES ECO, SOCIALES...





LO QUE QUIERE EL CLIENTE + TIEMPO ESPECÍFICO + CONSECUENCIAS

- 1) Historia con final feliz.
- 2) No uses promesas vacías: *“Simple, rápido y fácil”*
- 3) CUANTIFICA!!!!

“Pizza caliente en 30 minutos o es gratis”

“Consigue el trabajo de tus sueños en 30 días”

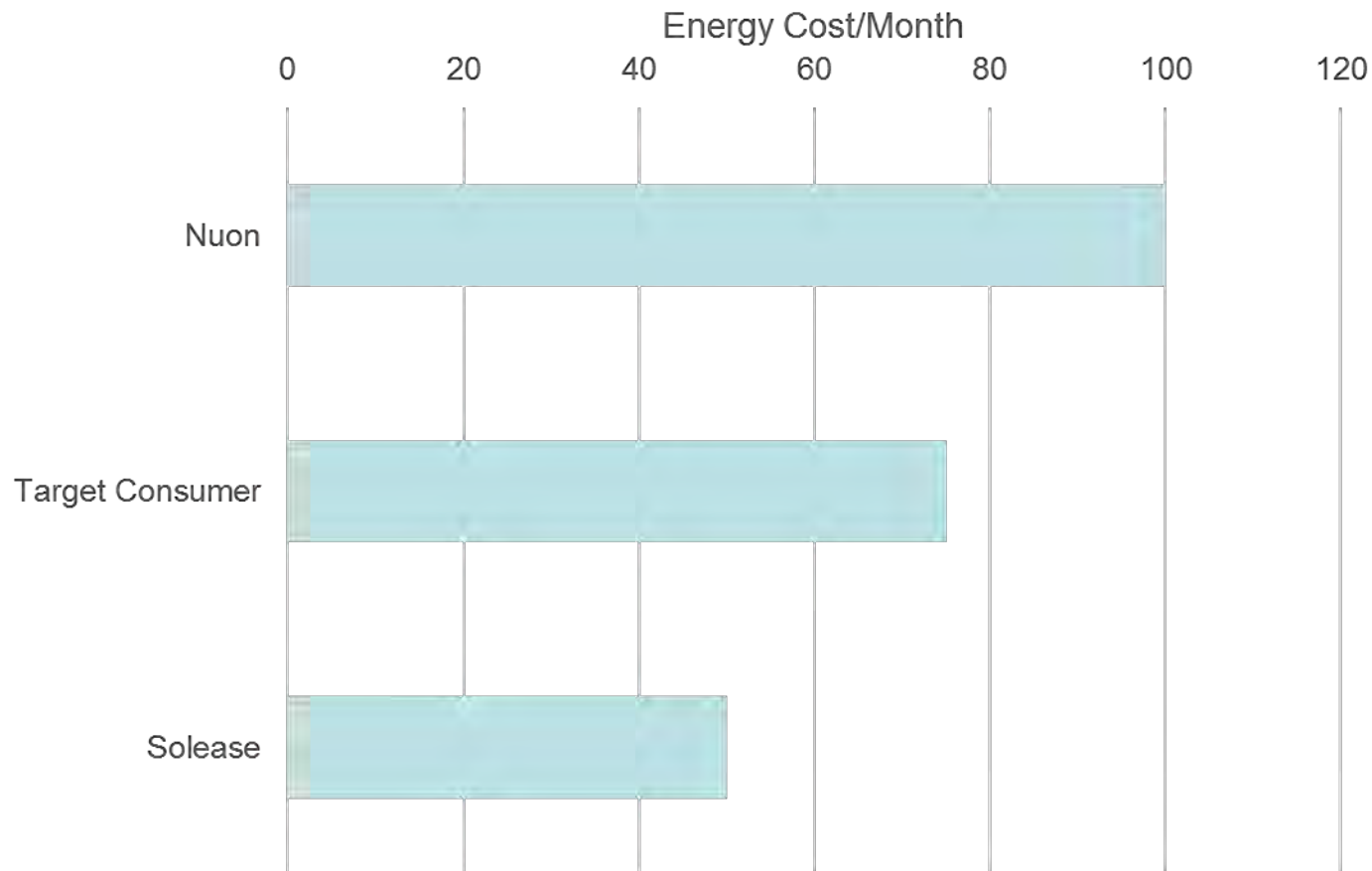
HIGH-CONCEPT PITCH

Boca a oreja





Propietarios quieren energía más barata

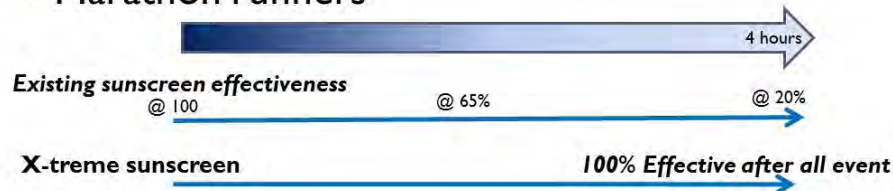


Quant. Value Prop. Example II

- Tri-athletes



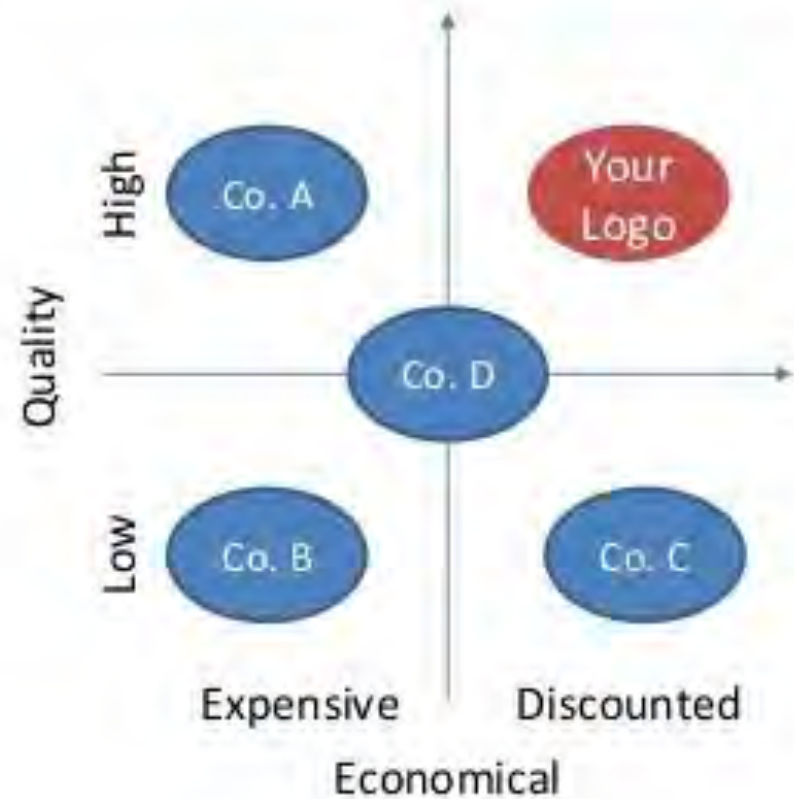
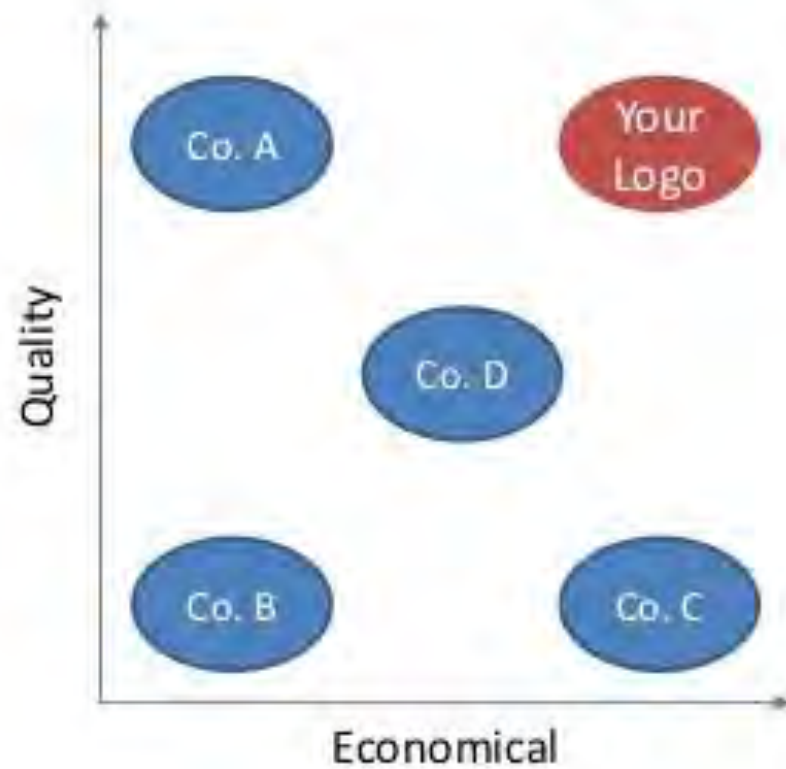
- Marathon runners



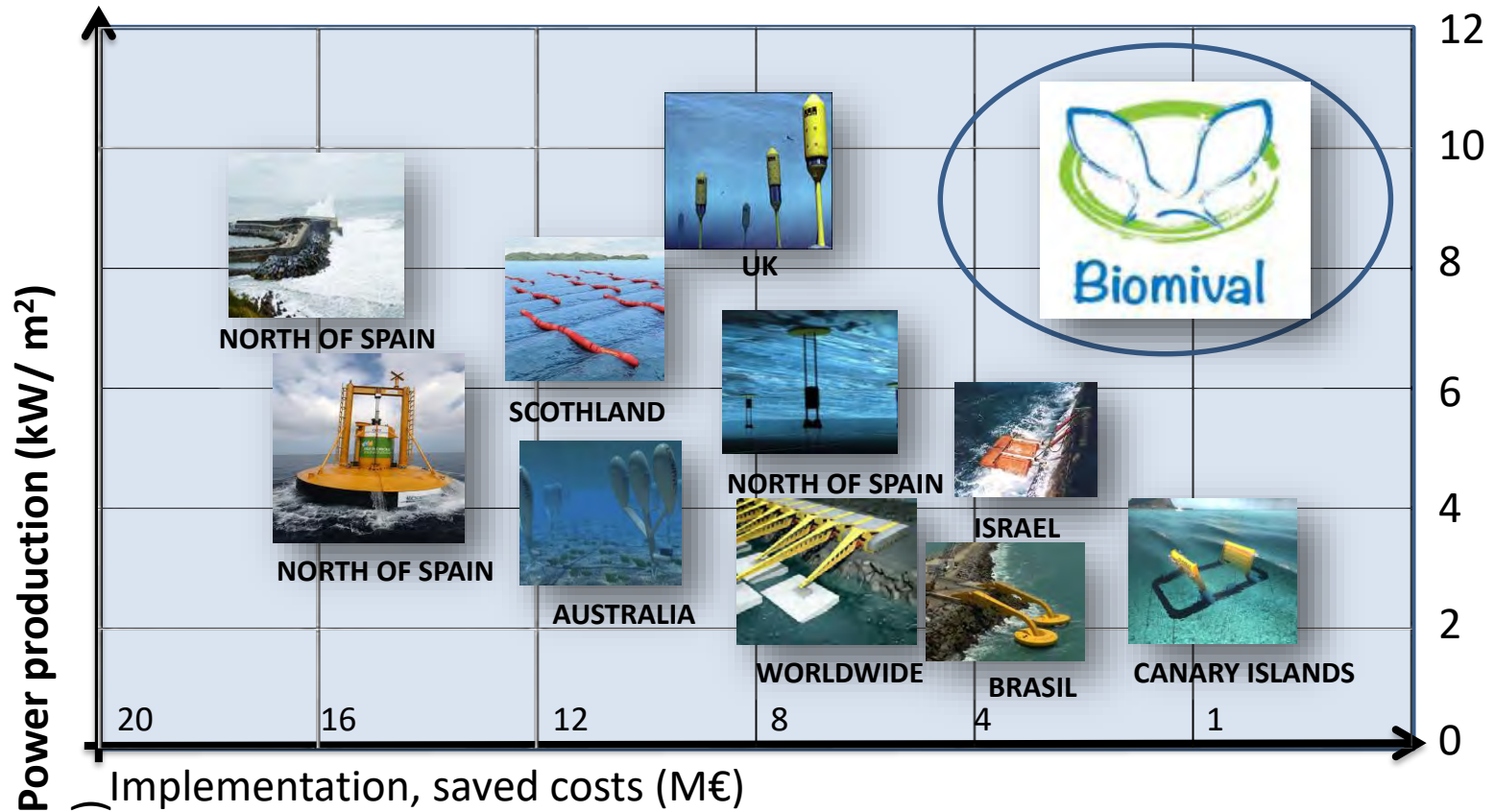
1. SIX times longer duration
2. FIVE times higher effectiveness
3. At least THREE times lower quantity applied.

SMART SKIN CARE Long-lasting protection for your skin

Market Landscape (Example 2)



ANALYSIS OF COMPETITORS



BIOMIVAL COMPARED TO SOLAR/WIND POWER GENERATION



=



=



... CONSTANT, PREDICTABLE AND HAS NO POWER VALLEYS.

MERCADO

MERCADO DE LA MÚSICA ONLINE

ESPAÑA 192M €

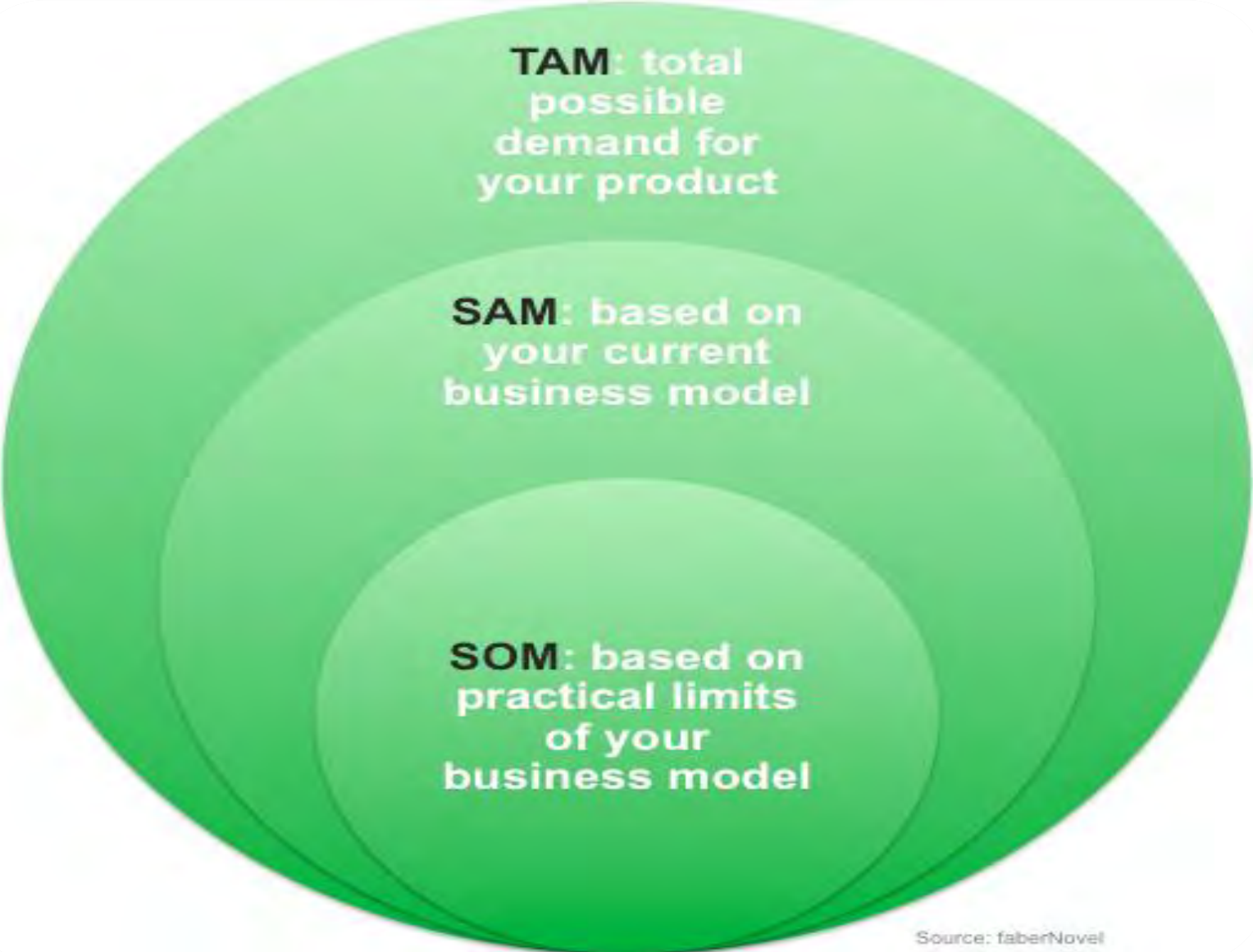
A.LATINA 759M €

MUNDIAL 5.200M €

PREVISIÓN
2014
15.772M €

94.000 M

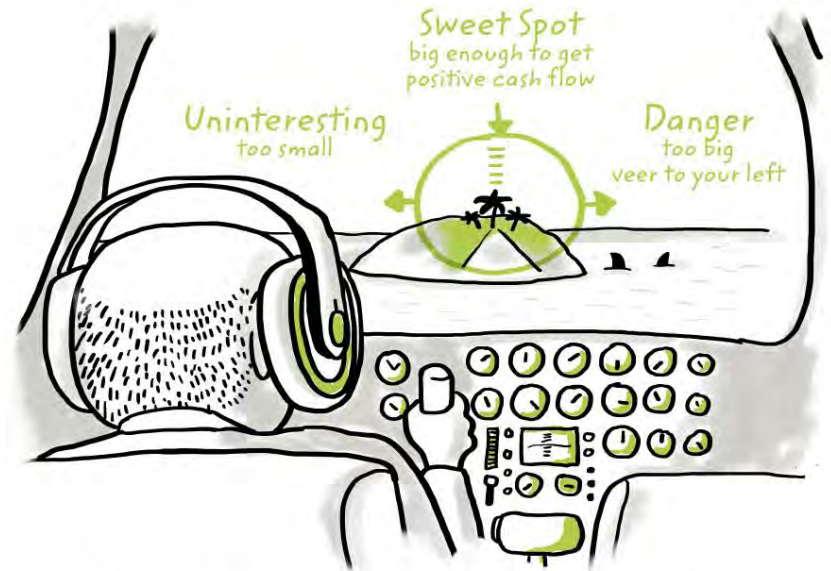
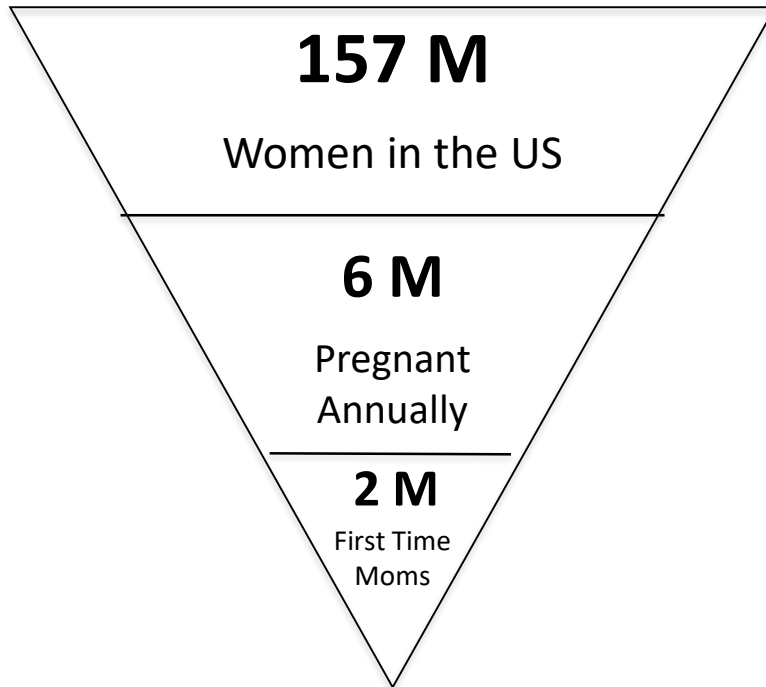
CANCIONES ESCUCHADAS ONLINE
EN 2012 A NIVEL MUNDIAL



TAM: total
possible
demand for
your product

SAM: based on
your current
business model

SOM: based on
practical limits
of your
business model



Beachhead TAM calculation
is your sanity check
that you are headed
in the right direction

Beachhead Market

Waste Management Facilities in
Valencia Region

Adjacent Markets

Activities/places
with sewage and
black waters

WWTP

Agroindustry

“Prison”

All Europe
5,000

South
Europe
652

Spain
256

Valencia
Region 25

BUDGET

| | |
|---------------|---------|
| CONSULTING | \$ 50K |
| STUDIES | \$ 20K |
| - PREPARATION | \$ 11K |
| - PANEL A | \$ 1K |
| - PANEL B | \$ 2K |
| - PANEL C | \$ 3K |
| PRODUCTION | \$ 18K |
| - SHOOTING | \$ 6K |
| COMMUNICATION | \$ 12K |
| - PRINTING | \$ 4K |
| TOTAL | \$ 100K |

BUDGET

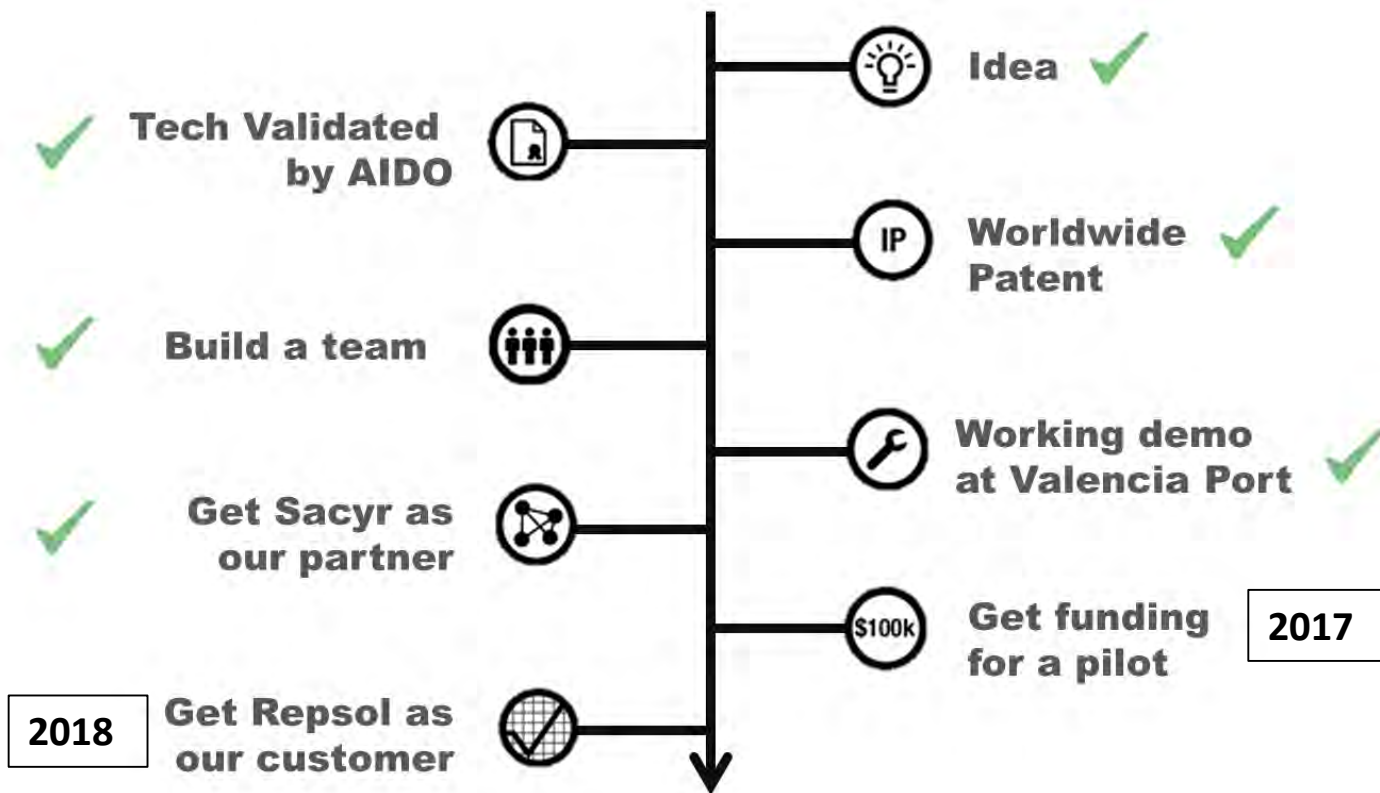
CONSULTING

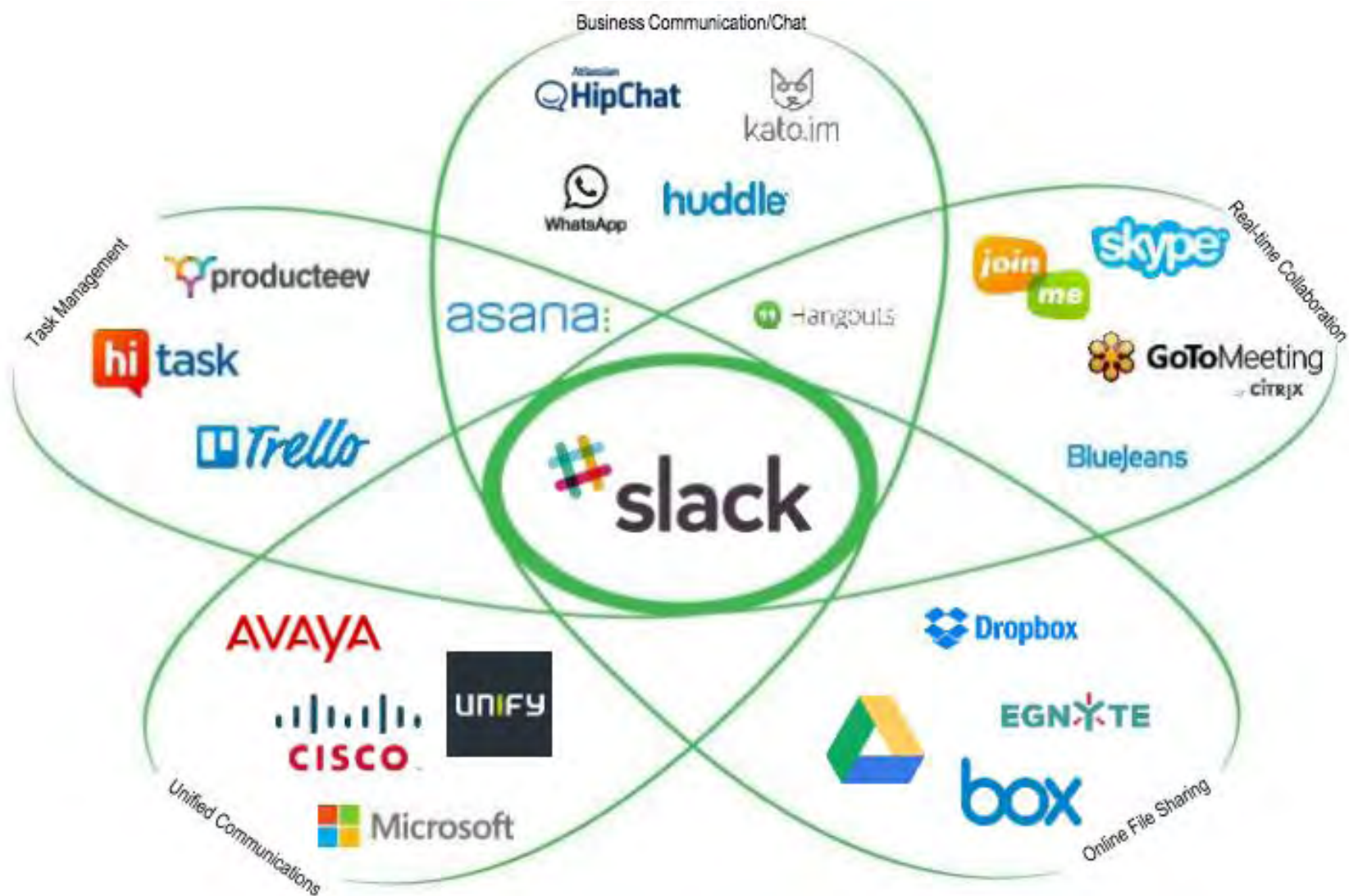
STUDIES

PRODUCTION

COMMUNICATION

OUR STRATEGY





TIENES EL EQUIPO PERFECTO...



... PERO SI NO LO DESCRIBES BIEN...

... PARECERÁ QUE SOIS X VECES LA MISMA PERSONA.



Biciway Team



Hugo Freire
Operations
and Product
Development

Full Time



Rui Amador
Sales and
Marketing

Full Time



Paulo Santos
Bike Mobility
Expert

Advisor



Emily Saturnino
Sales and
Marketing

Part Time



Frederico Lopo
Industrial
Designer

Part Time

EQUIPO



David Leiva

Co-Founder & CCO



VNIVERSITAT
ID VALÈNCIA



Paula Mascarós

Co-Founder & CEO



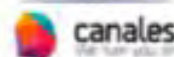
Jose García-Luengo
Co-Founder & CTO



Guilherme Vinickus
Back-End Dev.



Domingo Casarubio
Front-End Dev.



Maria Escrivà
Co-Founder & CFO



-LINEEX-



Alfredo Cuadron
CMO



Cover slide

DEAL

MARKET

VALUE PROPOSITION

product/solution

FINANCIALS

CLIMATE IMPACT

ITBD/COMPETITIVE ADVANTAGE

TEAM/DREAM



Do it with your

own

style



NEW!

Note and Point



Slideshare



and...



JUST TRY.



IDEASUPV
tu empresa empieza aquí



UNIVERSITAT
POLITÈCNICA
DE VALÈNCIA

VICERRECTORADO DE EMPLEO
Y EMPRENDIMIENTO

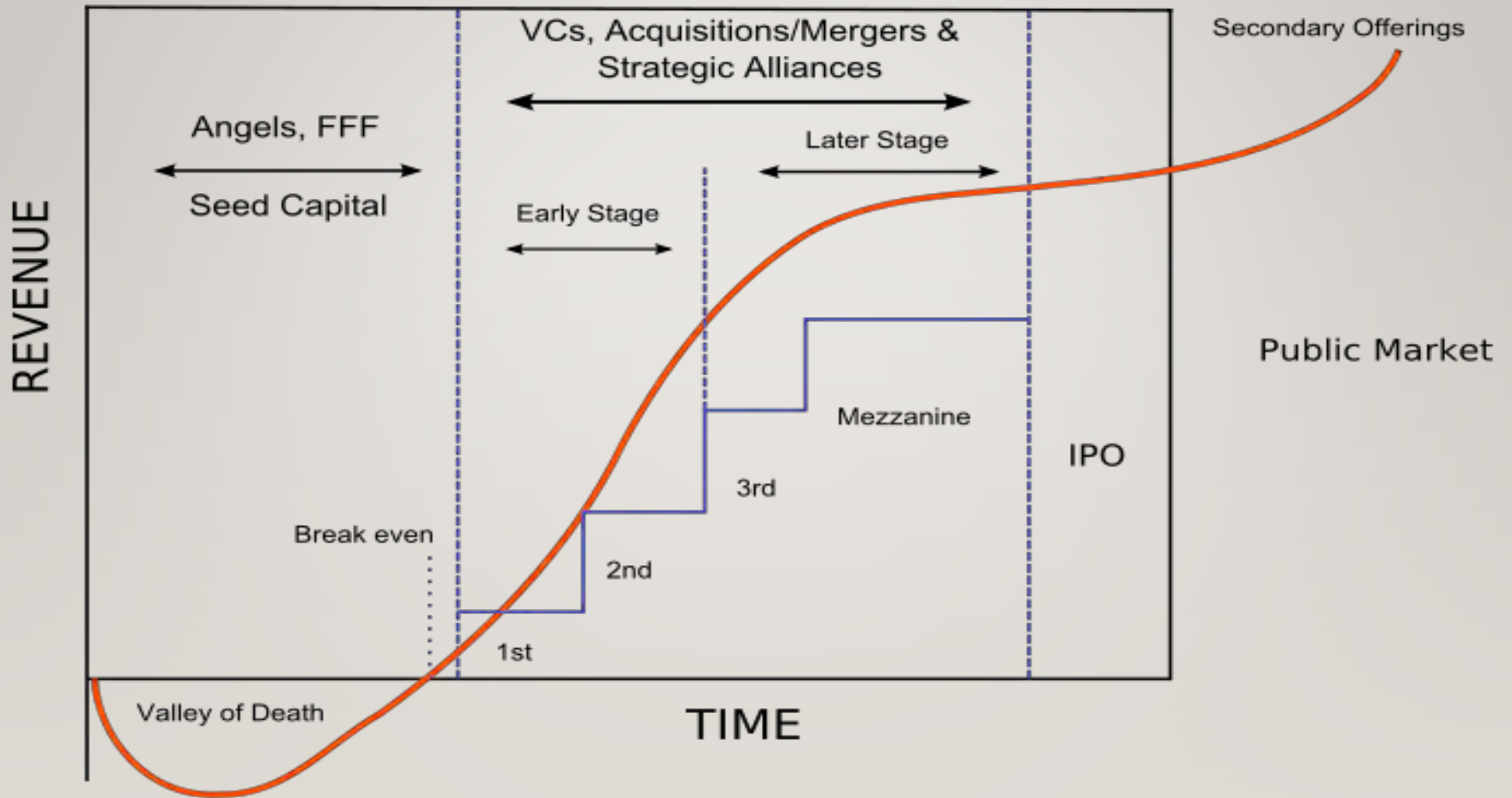
STARTUP FUNDRAISING THE CASE OF STARTUPV

ISRAEL GRIOL BARRES IGRIOL@IDEAS.UPV.ES

STARTUPV ECOSYSTEM MANAGER – IDEASUPV

UNIVERSITAT POLITÈCNICA DE VALÈNCIA

STARTUP FUNDING CURVE



CLOSCA





CLOSCA

CROWDFUNDING

INDIEGOGO

Explorar ▾

Lo que hacemos.



✉ Boletín

Para emprendedores

Comienza una campaña

Iniciar sesión

Registrar



CERRADO

Closca Bike Helmet - Safety, Functionality & Style

Most elegant and Convenient Foldable Bike Helmet.
Red Dot Design Award 2015.

PROPIETARIO DEL PROYECTO



CLOSCA DESIGN
Valencia, España
2 campañas | [Más](#)

\$80,309 USD fondos totales recaudados
282% financiado el July 25, 2015



CLOSCA

SME INSTRUMENT



HORIZON 2020

SME INSTRUMENT

WILDFRAME MEDIA



WILDFRAME MEDIA

ar Empieza un proyecto

KICKSTARTER

Búsqueda 🔍 Registrarse

Moonlighter - ARPG with rogue-lite and shopkeeping elements



An Action RPG with rogue-lite elements about Will, a shopkeeper who dreams of becoming a hero.

Add to Wishlist!



134.000 \$

WILDFRAME MEDIA



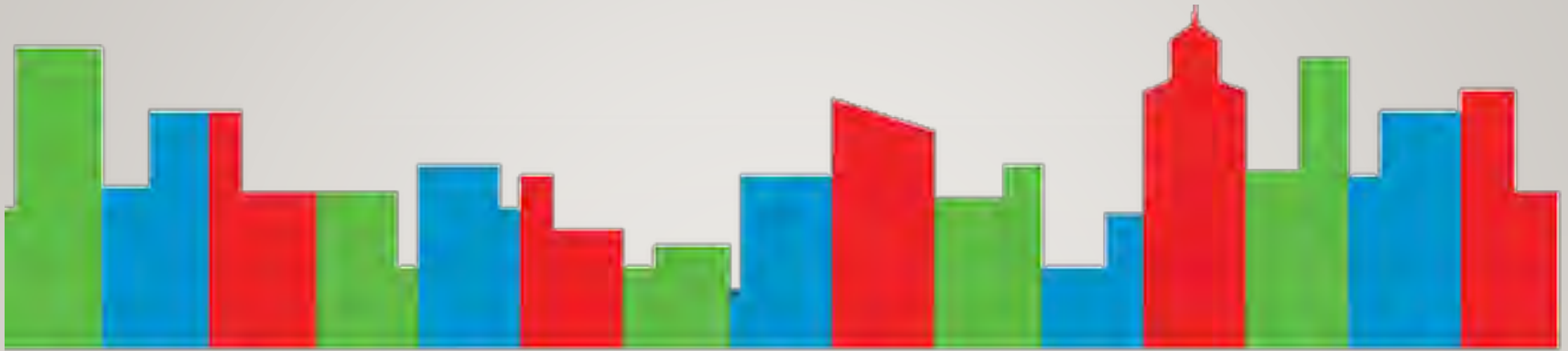
YEEPLY



LINKING MOBILE PROFESSIONALS

YEEPLY

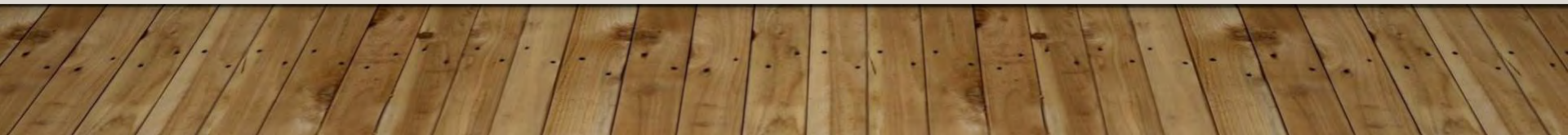
BUSINESS ACCELERATORS



PLUGANDPLAY SPAIN

Silicon Valley in a Box®

VALENCIA ECOSYSTEM: DEMIUM, LANZADERA, CLIMATE KIC, BBOOSTER...



YEEPLY

AWARDS



10^a

EDICIÓN
PREMIOS

IDEAS UPV

PREMIO A LAS MEJORES TRAYECTORIAS EMPRENDEDORAS

YEEPLY

INVESTMENT ROUND

4500 developers – 700 projects

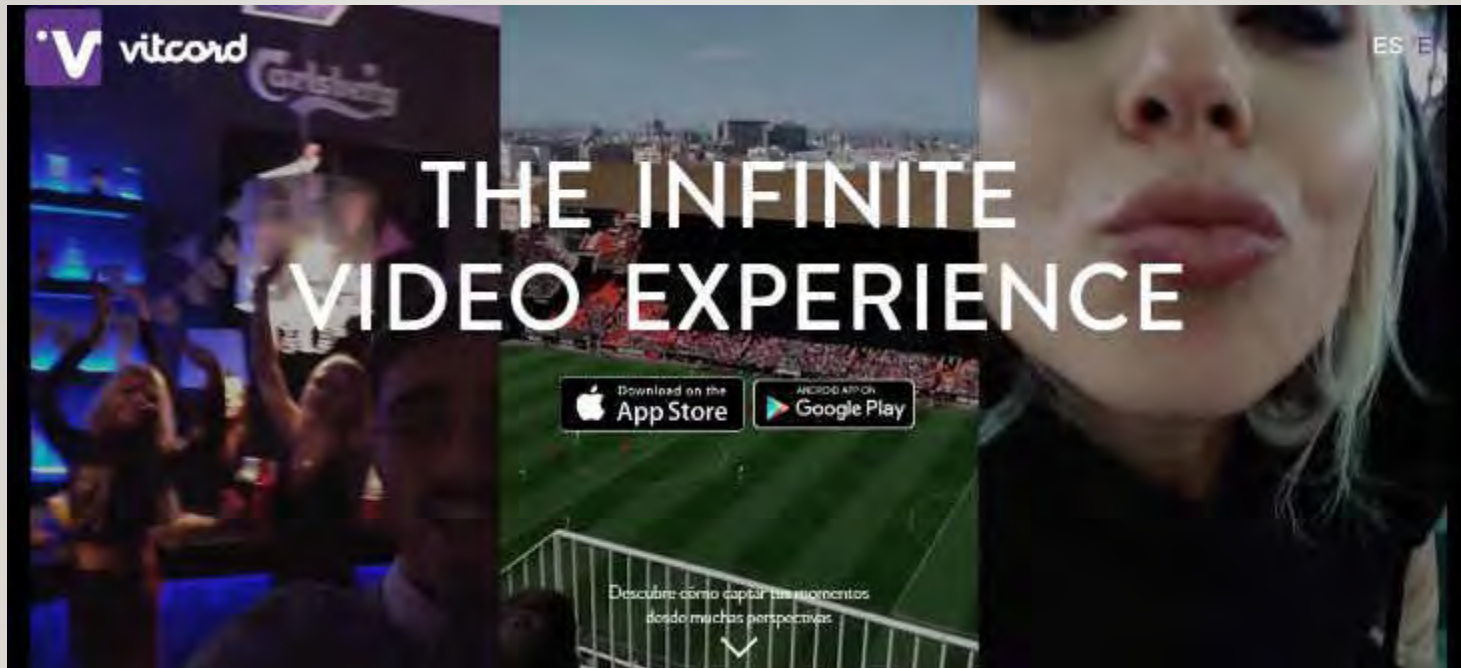
320.000 €

Private + ENISA + IVACE



VITCORD

vitcord



VITCORD

BUSINESS ACCELERATORS + PRIVATE INVESTMENT

SeedRocket

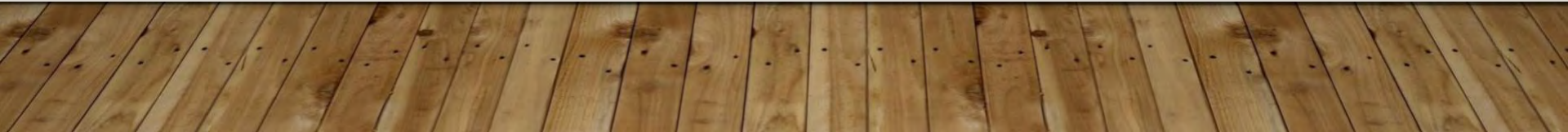
Born in 2014

Round in 2017:

750.000 €

100.000 users

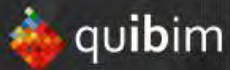
739.000 video reproductions



QUIBIM



QUIBIM

[BIOMARKERS](#)[ABOUT](#)[RESOURCES](#)[BLOG](#)[CONTACT](#)[LOG IN](#)

FROM IMAGES TO DATA, POWERED BY
ARTIFICIAL INTELLIGENCE AND RADIOMICS

NEURO | MSK | LUNG | LIVER | ONCOLOGY

REQUEST AN ACCOUNT

QUIBIM

BUSINESS ACCELERATOR + PUBLIC GRANTS

LANZADERA

Persigue tu sueño emprendedor

CONVERTIBLE LOAN

The logo for the Horizon 2020 SME Instrument. It features a blue background with a glowing horizon line and a small globe in the center. The text "HORIZON 2020" is written in white, with the globe replacing the letter 'O' in "HORIZON". Below it, the text "SME INSTRUMENT" is written in white.

HORIZON 2020
SME INSTRUMENT

PUBLIC GRANT
Phase 2 → 1M€

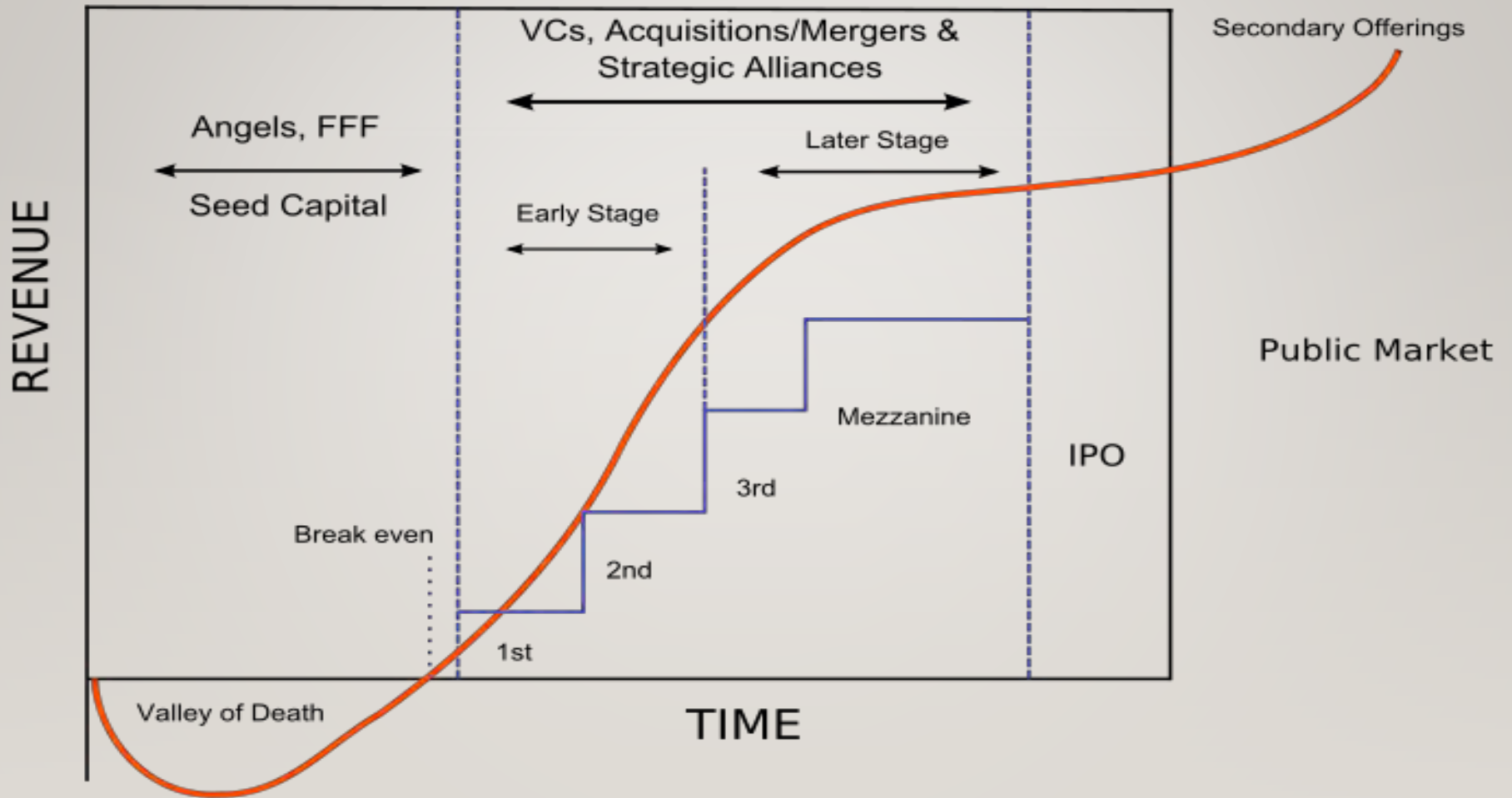
QUIBIM

TECH TRANSFER UPV – OWN INVESTMENT FUND

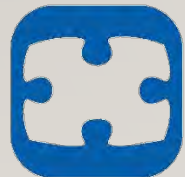


550.000 € - Tech Transfer UPV, AYCE Capital, Bioinfogate

STARTUP FUNDING CURVE



STARTUPV



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VICERRECTORADO DE EMPLEO
Y EMPRENDIMIENTO



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DE VALÈNCIA

VICERRECTORADO DE EMPLEO
Y EMPRENDIMIENTO

THANK YOU THE CASE OF STARTUPV

ISRAEL GRIOL BARRES IGRIOL@IDEAS.UPV.ES

STARTUPV ECOSYSTEM MANAGER – IDEASUPV

UNIVERSITAT POLITÈCNICA DE VALÈNCIA



"NO!

Try not!

DO or DO NOT,
There is no try."