DESIGN METHODOLOGY

• TOOL KIT •



FRANCISCA SEVERINO

Integrative Studio 1

ALLIE MAHLER

MS STRATEGIC DESING & MANAGEMENT

PARSONS THE NEW SCHOOL

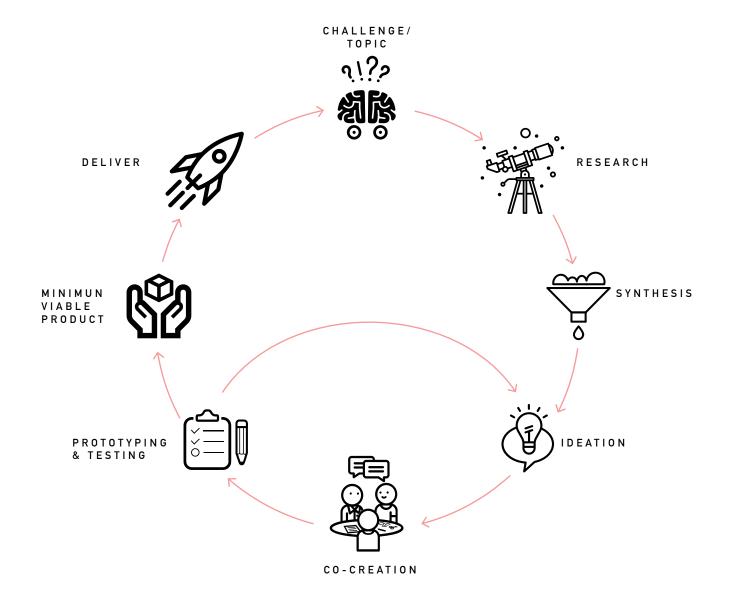
WHAT IS THE DESIGN APPROACH?



MINDSET

Design has been evolving as a key mindset to address problems within any organization and has become an essential part of a business. Today design is a key element for a cultural change.

Is also our responsibility as design thinkers to embrace complexity and integrate a holistic approach to challenges to understand the bigger picture. I believe design methods are a key resource to face problems from another point of view and here I present the ones that I used during my own design thinking process plus other topics and resources to integrate them into a toolkit.



METHODS OF RESEARCH















Quantitative & Qualitative Research

Quantitative: Measuring sets of variables or quantities and their relationship to another. Ex. Numbers + Logic + Objective Data

Qualitative: Understand the qualities of a specific field of inquiry. Ex. Words + Images

Primary & Secondary Research

Primary: Original research that is conducted by an organization for it's own use.

Secondary: Reviewing collection of data or findings that have previously been published by and outside party.

Formative + Summative Research

Formative: Exploratory research used to gain insight into an area of study. Aids in problem identification and problem solving.

Summative: Conclusive research is use to frame and decipher the outcome of an investigative process. Did I make it better?

TO KEEP IN MIND

Ability to understand people from their own perspective.

Write a research plan:

- 1. Overview (Project context and aim of research)
- 2. Key Questions
- 3. Logistics
- 4. Methodology (purpose, approach, output)

RESEARCH STRATEGIES + TACTICS

COMPETITOR ANALYSIS:

Evaluate the strengths and weaknesses of an organization's competitors.

Competitive Intelligence: Secondary Source tools of competitor analysis with primary research. Ex. Informants.

Literature review* *(Starting point for other research strategies) Surveys + questionnaries Focus groups

ETHNOGRAPHIC RESEARCH:

Link between human behaviors and culture.

Internal Perspective > Emic perspective: cultural phenomena though the perspective of the community under study.

External Perspective > Etic perspective: define cultural phenomena through the perspective of an individual who is not a participant in the community under study.

Photo ethnography Visual anthropology Observational research Literature review Surveys + questionnaries Focus groups

MARKETING RESEARCH:

Understanding human behaviors as it applies to a market-based economy.

Qualitative or quantitative

Several different tactics give more accurate information

TACTICS

Demographics
Focus groups
Psycographics
Surveys + questionnaires
Web analytics
Color theory + predictions
Literature review
Personas

RESEARCH FOR INSPIRATION

4 QUALITATIVE WAYS

ASK

Engagement

- Conversations in context provide a rich understanding of a person > Keep Looking / Keep Asking
- · Drawings can help unearth what's hard to put in words
- Extreme users are able to better articulate what many feel

LOOK

Observation

• Observations help identify what people do intuitively

TRY

Immersion

- Putting yourself in the shoes
- These activities run new results
- Role-playing reveals details that conversation doesn't

BORROW

Analogies

• Analogous experiences from other scenas

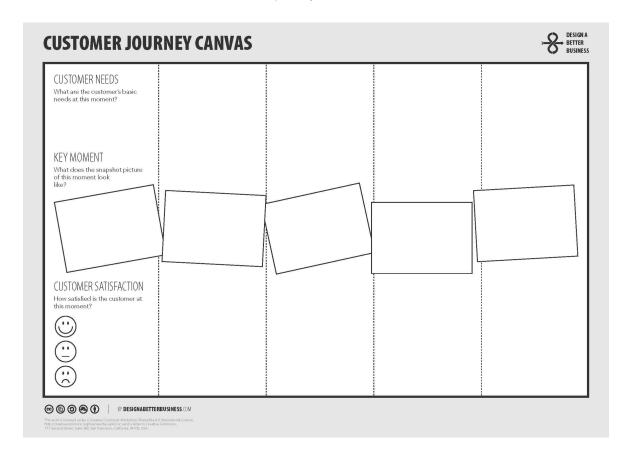
12 DESIGN RESEARCH METHODS

12 DESIGN RESEARCH METHODS

- I. User Interview
- 2. Expert Interview
- 3. Extreme Interview
- 4. Group Session
- 5. Expert Pannel
- 6. Analogous Experience
- 7. Empathy Experience
- 8. Desk Research
- 9. Data Mining
- 10. Behavior Tracking
- II. Surveys
- Guerrilla Research

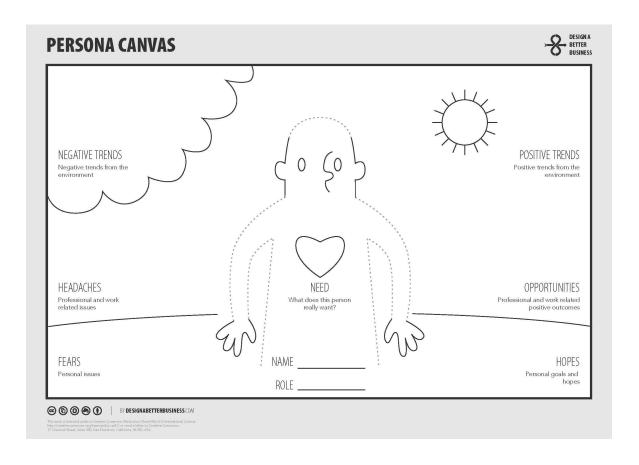
JOURNEY MAPPING

Gain a detailed view of the customer's service journey.



PERSONA

Describe the customer in different areas.



SYNTHESIS













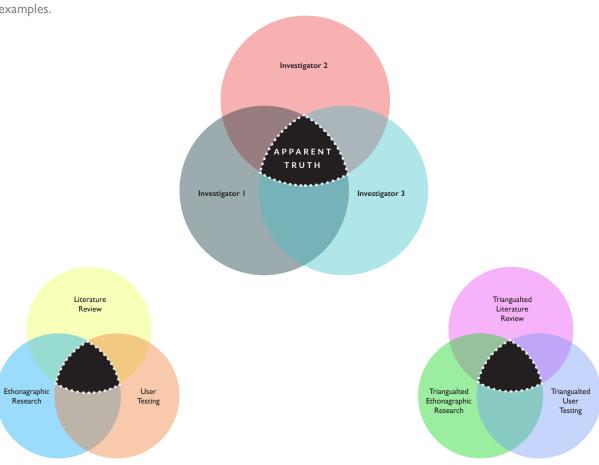


TRIANGULATION

CONFIRMING RESEARCH FINDINGS

Triangulation is the process of combining several different research methods to illuminate one are of study.

There are different ways to triangulate information. Here are some examples.



GRAPHIC ORGANIZERS

Research finding visualized / Tools to organize information

KWHL

- > What do I Know
- > What do I need to find out?
- > How am I going to find the information I need?
- > What have I Learned

K	W	Н	L

IDEATION COCREATION PROTOTYPING TESTING



UNIVERSAL METHODS OF DESIGN

A/B Testing: Compare two versions of the same design to see which one performs statistically better against a predetermined goal.

Behavioral/Quantitative/Adapted/Evaluative/Design Process

AEIOU: Organizational framework guide Activities, Environments, Interactions, Objects and Users.

Behavioral/Qualitative/Innovative/Exploratory/Observational

Affinity Diagramming: Process used to externalize and meaningfully cluster observations and insights from research.

Behavioral/Qualitative/Adapted/Generative/Design Process/Attitudinal

Artifact Analysis: Systematic examination of the material, aesthetic, and interactive qualities of objects contributes to an understanding of their physical, social, and cultural contexts.

Behavioral/Qualitative/Adapted/Exploratory/Observational/ Attitudinal

JOB TO BE DONE

Identifying Jobs to Be Done — 5 Questions for Uncovering Jobs

- I. Do you have a job that need to be done?
- 2. Where do you see non consumption?
- 3. What work-arounds have people invented?
- 4. What tasks do people want to avoid?
- 5. What surprising uses have customers invented for existing products?

PROJECT CHARTERS

Current Situation What is the problem?	Initial Situation (Achieve)	Assumptions 3
1	4	Constrains
Why this project exist	Success Metrics	(Limits) 3
Why now?	(Numbers)	
2	4	Risks (Budget) 3

PROJECT MANAGEMENT

Design Brief	Formalizes the growth project Defines goals, resources, timelines, etc. Serve as a "North Star" throughout the project	
Design Criteria	Sets criteria to evaluate alternative designs (derived from study of user needs and business requirements) Becomes part of the design brief	
Napkin Pitch	Crystalizes communication of solution concepts (after brainstorming and concept development) Describes each of the best few (3-5) solutions that meet the design criteria in a template that allows for apples-to-apples comparison	
Learning Guide	Defines an affordable level of resources to invest in learning wether (or not) the top 2-3 concepts are feasible	

TO KEEP IN MIND

Are you solving the right problem? Remeber to always reframe the problem.

7 Practices for effective reframing

- 1. Establish legitimacy
- 2. Bring others into the discussion
- 3. Get people's definitions in writing
- 4. Ask what's missing
- 5. Consider multiple categories
- 6. Analyze positive exceptions
- 7. Questions the objective















BUSINESS MODEL

Validate the go-to-market strategy.

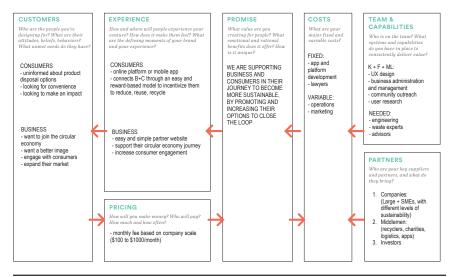
There are different type of business models that we can use to test our business.

Here are two examples from IDEO.

We have ti used this tool as a periodical exercise to prototype and test our business based on the results in the real market.

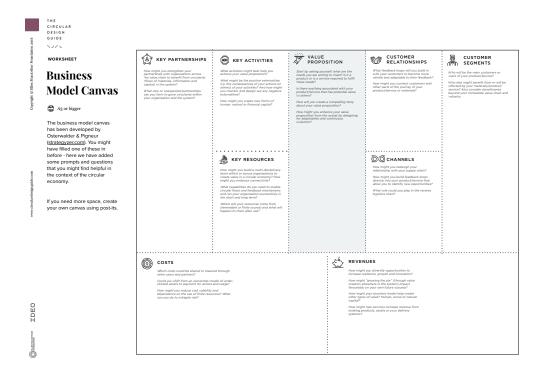
BUSINESS MODEL

Now, fill out the canvas below for your venture. Do this periodically to see where your venture is strongest, what things you still need to design or prototype and what questions come up for you and your team. This tool works hand-in-hand with your Ventu



IDEO E Venture Canvas- Venture Design Toolkit

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STORYTELLING

A method of creating imagery, emotions, and understanding of events through an interaction between a storyteller and an audience.

Practice Your Pitch: Six Different Ways
There are three ways to learn and perfect the six pitches:
Practice, practice, practice. Here's a place to begin.

I. One-Word Pitch

Write a fifty-word pitch. Reduce it to twenty-five words. Then to six words.

One of those remaining half-dozen is almost certainly your one-word pitch.

2. The Question Pitch

Use this if your arguments are strong. If they're weak, make a statement. Or better yet, find some new arguments.

3. The Rhyming Pitch

Don't rack your brain for rhymes. Go online and find a rhyming dictionary.

I'm partial to RhymeZone: http://www.rhymezone.com

4. The Subject Line Pitch

Review the subject lines of the last twenty e-mail messages you've sent.

Note how many of them appeal to either utility or curiosity.

5. The Twitter Pitch

The best pitches are short, sweet, and easy to retweet. Limit your pitch to 120 characters so that others can pass it on.

A few examples...

Once upon a time there was a widowed fish, named Marlin, who was extremely protective of his only son, Nemo. Every day, Marlin warned Nemo of the ocean's dangers and implored him not to swim far away. One day, in an act of defiance, Nemo ignores his father's warnings and swims into the open water. Because of that, he is captured by a diver and ends up in the fish tank of a dentist in Sydney. Because of that, Marlin sets off on a journey to recover Nemo, enlisting the help of other sea creatures along the way. Until finally, Marlin and Nemo find each other, reunite and learn that love depends on trust.

Once upon a time there was an education crisis haunting our schools and communities across North America. Every day, large percentages of our children were not achieving proficiency in vital literacy skills to the point that some in our community even doubted whether they ever could. One day, we developed a simple and shared definition of what children had to know to be ready for school. Because of that, our early childhood centers and parents became better at helping all children enter kindergarten ready to learn. Because of that, teachers were free to work more on skill development for each individual child. Until finally, every child, irrespective of ethnic or economic circumstance, became a proficient reader by the end of third grade.

Your try:	
Once upon a time	
Because of that,	
Because of that,	
Every day,	

