Structuring Analysis for Innovation

INSITUM™ INNOVATION THROUGH RESEARCH

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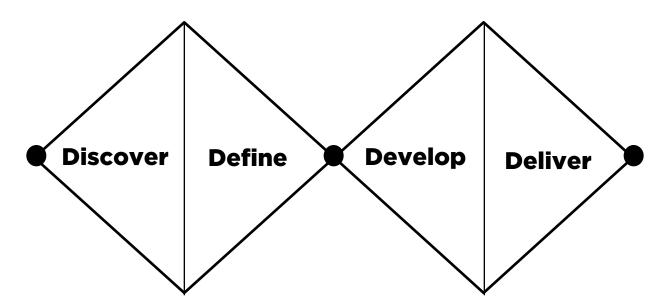
EPIC 2016

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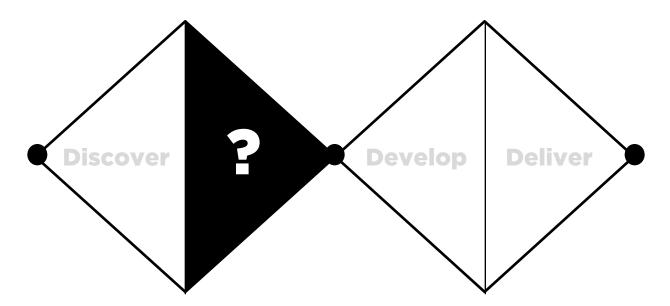


The design process has been widely internalized by organizations that were seeking to innovate.

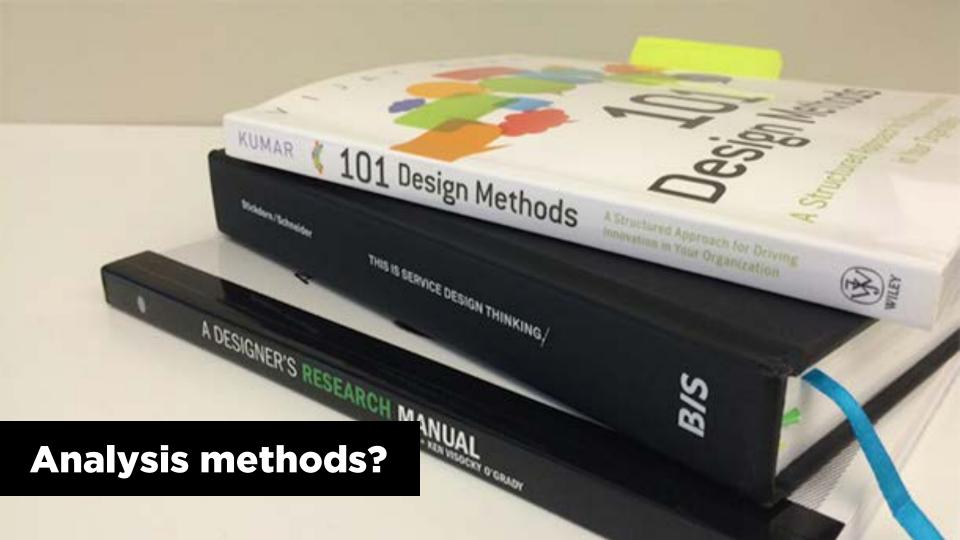


Source: UK Design Council, 2005

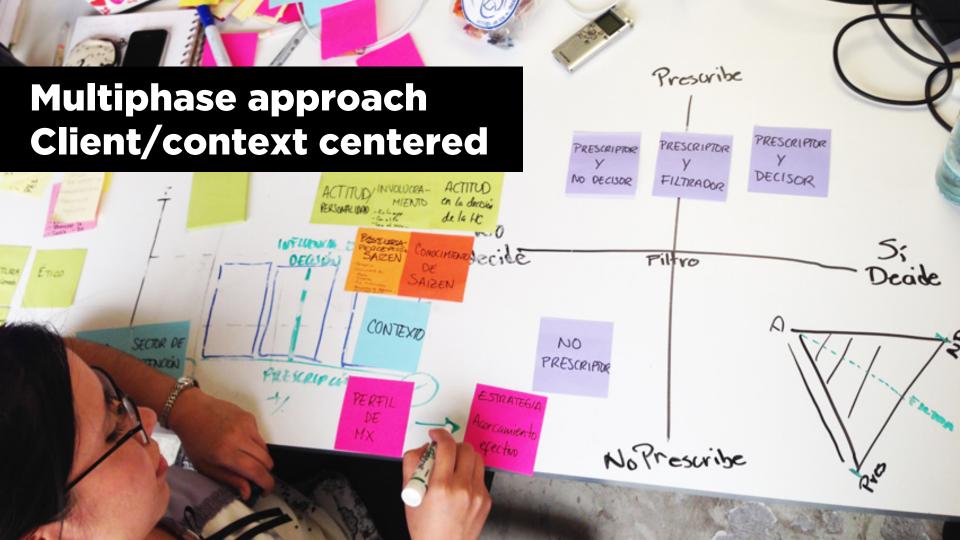
Although it has been practiced by people from different backgrounds, data analysis seems to be a black box for most non-researchers.



Source: UK Design Council, 2007



Please, don't deliver us another set of personas.
We probably have 50 here...



There was an opportunity to formalize our planning process to help others better understand their project and research context in order to define assertive analysis approaches.

This is what this tutorial is about.

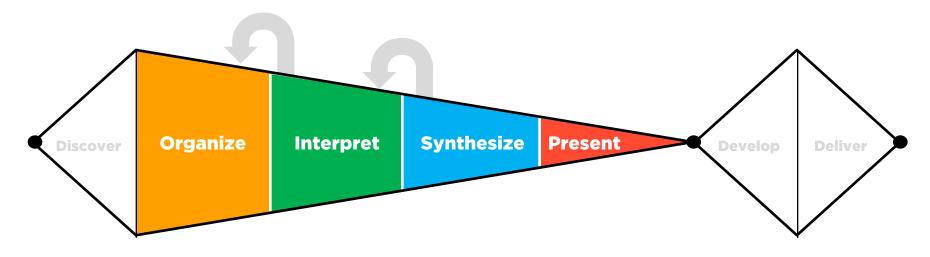
// Activity #1

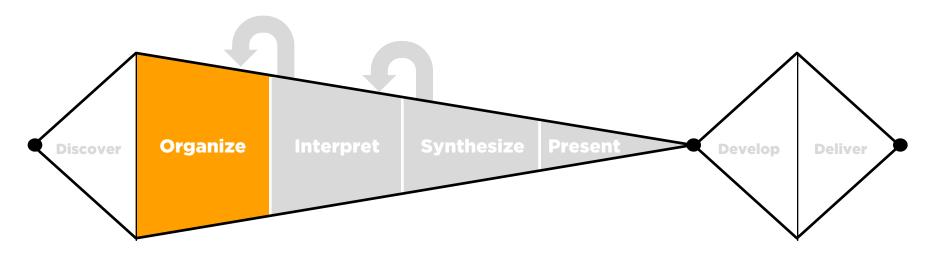
How is the ethnographic data analysis handled where you work?

The analysis process where I work can be described with the one word

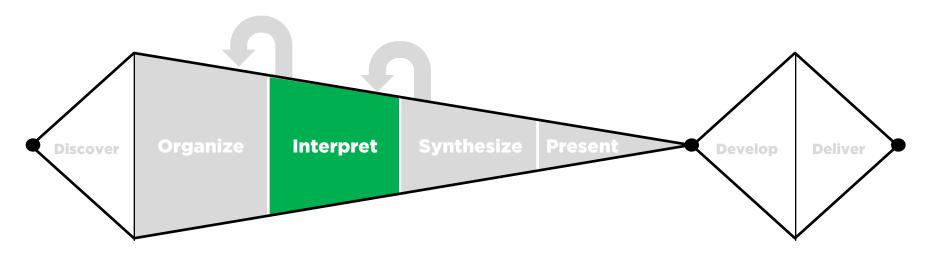
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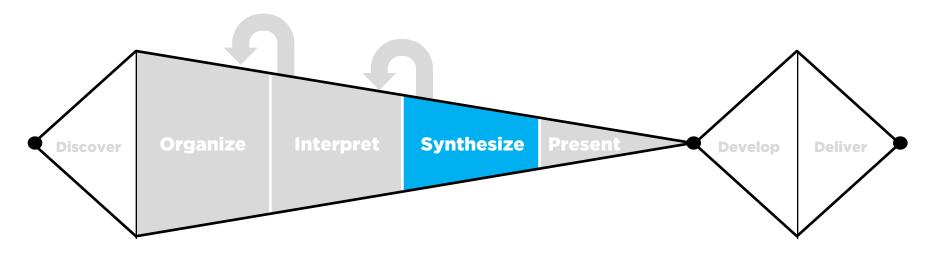


Go through primary research raw data and **extract information** in an organized and structured way.

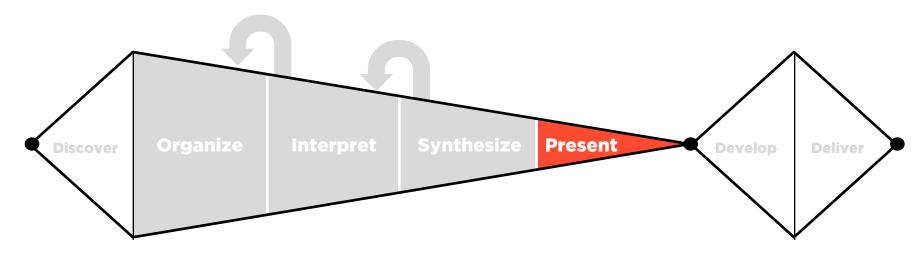


Dive deeply into the downloaded information to understand the reasons behind the findings.

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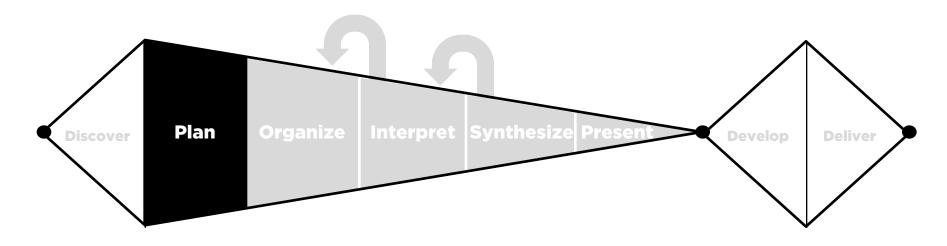


Transform and synthesize the **interpreted information into structured models** that allows for comparison and further interpretation of data.



Define how the analyzed data will be visualized and presented to its audience.

The planning session



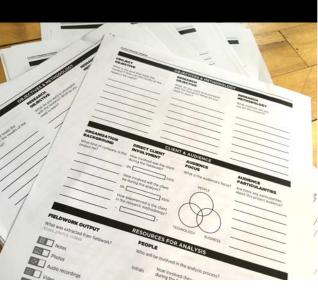
Structured session to **plan ahead for the analysis**: how information will be organized, how it will be used for analysis, and what will be delivered from that.

The planning session

In order to start the planning sessions, we must **map the context** in which the research is part of.

Then, based on that context, we must **prioritize and define the criteria** that will be used to decide which analysis methods will be more impactful for the project

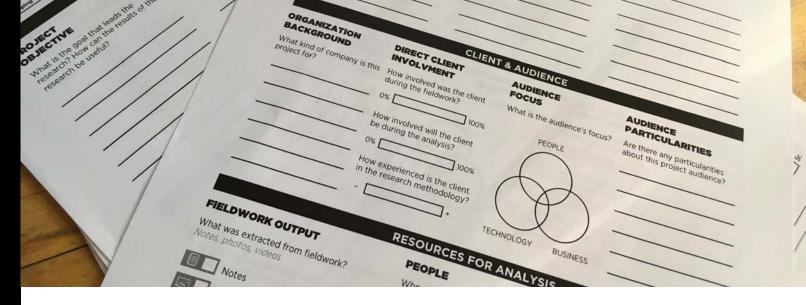
With a clear understanding of the criteria that will be used to plan the analysis, we must then **map the methods.**







0 - Mapping context



Objectives and Methodology

- Project objective
- Research objective
- Research Methodology

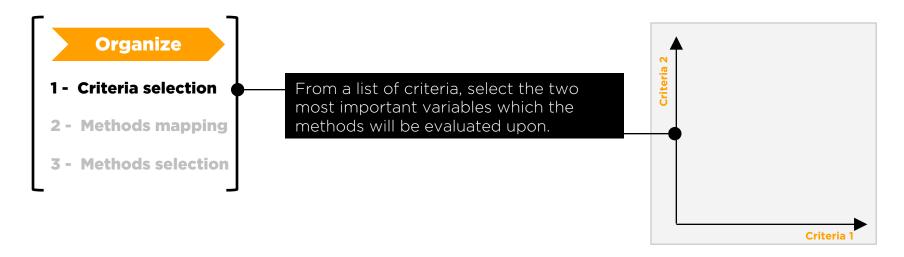
Client and Audience

- Organization background
- Direct client involvement
- Audience focus
- Audience particularities

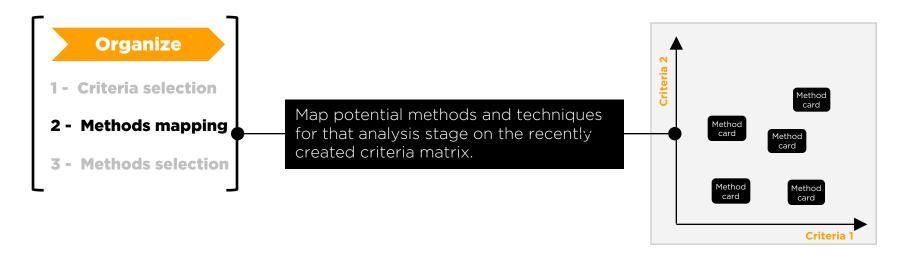
Resources for Analysis

- Fieldwork outputs
- People
- Time

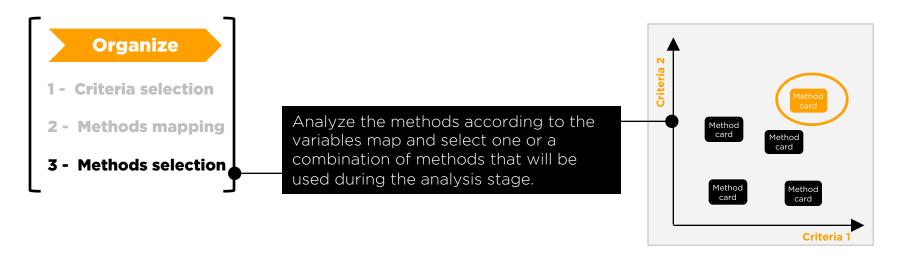
The planning session analyzes each of the analysis stages individually, using a 3-step process for each stage.



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The planning session analyzes each of the analysis stages individually, using a 3-step process for each stage.



Once we're done planning the first analysis stage, we move to the next one.

Organize

- 1 Criteria selection
- 2 Methods mapping
- 3 Methods selection

Interpret

- 1 Criteria selection
- 2 Methods mapping
- 3 Methods selection

Synthesize

- 1 Criteria selection
- 2 Methods mapping
- 3 Methods selection

Present

- 1 Criteria selection
- 2 Methods mapping
- 3 Methods selection



Mapping the context

OBJECTIVES & METHODOLOGY

PROJECT **OBJECTIVE**

Context Mapping Template

What is the goal that leads the research? How can the results of the research be useful?

To explore the development of

upcoming new home

appliances and electronics

in the Brazilian market for the

next 3 years.

RESEARCH **OBJECTIVE**

What do you want to accomplish with the research? What do you need to learn?

understand the lifestyles,

behaviors, and interactions

that contemporary Brazilian

family arrangements have

with their home appliances.

RESEARCH METHODOLOGY

What methods did you use for the research?

Total of 16 3-hour-long in

home interviews in Sao Paulo

EXAMPLE

and Rio de Janeiro with same-

sex couples, DINKs, late

parents, people living with

friends, empty-nesters, and

multi-generational family.

CLIENT & AUDIENCE

Mapping the context

multi-generational fumily

CLIENT & AUDIENCE

ORGANIZATION BACKGROUND

What kind of company is this project for?

An Asian market

leader of technology-

driven electronics

company. Run by

engineers and like-

minded people.

DIRECT CLIENT

How involved was the client during the fieldwork?

100%

How involved will the client be during the analysis?

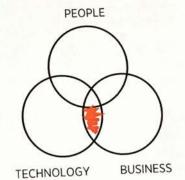
100%

How experienced is the client in the research methodology?



AUDIENCE FOCUS

What is the audience's focus?



AUDIENCE PARTICULARITIES

Are there any particularities about this project audience?

Small design teams

spread over the world

with little or no

research background.

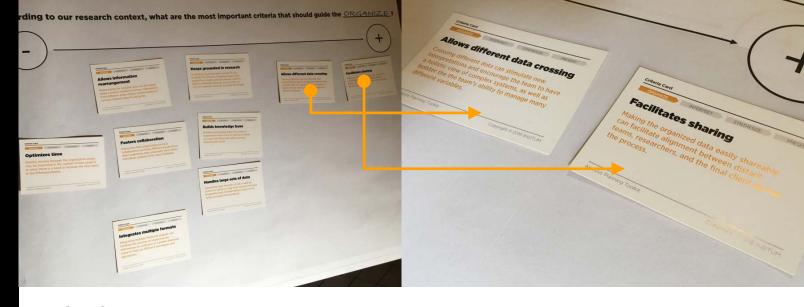
RESOURCES FOR ANALYSIS

PEOPLE

Mapping the context

FIELDWORK OUTPUT	PEOPLE				
What was extracted from fieldwork? Notes, photos, videos	Who will be involved in the analysis process?				
Notes	Initials	How involved they were during the fieldwork?	•	How experience the research me	
× Photos	MG	0%	100%	Jr.	Sr.
Audio recordings	MF	0%	100%	Jr.	S
Video recordings	FF	0%	100%	Jr. Transp	s s
Generative activities	YL	0%	100%	Jr.	
Cultural probes			100%	Jr.	
Other:	-	0%	100%	JI. [
Other:		0%	100%	Jr.	

- 1 Criteria selection
- 2 Methods mapping
- 3 Methods selection



Rational

Facilitates sharing

- Fieldwork was carried by multiple teams simultaneously.
- Enable team and client to collaborate during the Interpret and Synthesize stages of analysis.

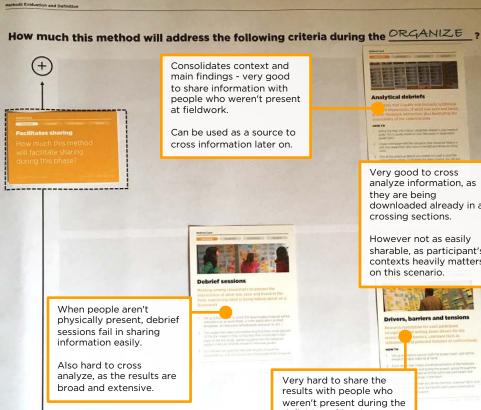
Allows different data crossing

- Very diversified sample, many different user profiles and specifications.
- Cross-analyzing data is crucial when understanding differences and patterns of different user profiles.

- 1 Criteria selection
- 2 Methods mapping
- 3 Methods selection



type of research





Very good to cross analyze information, as they are being downloaded already in a crossing sections.

However not as easily sharable, as participant's contexts heavily matters on this scenario.



Very hard to share the results with people who weren't present during the definition of barriers. drivers, and tensions.



- 1 Criteria selection
- 2 Methods mapping
- 3 Methods selection



Rational

Analytical debriefs

- Multiple team members could download their own fieldwork information on independent debriefs.
- Each interview was very deep and touched on different discussion topics, as there were many different participant profiles.
- Consolidates a good amount of information, pictures, and results of generative activities, thus making it a powerful sharing tool among team members.
- Even though it doesn't cross information as well as a topic guided framework, it is still possible to cross the debriefs afterward.

- 1 Criteria selection
- 2 Methods mapping
- 3 Methods selection Analytical Debriefs



Household Structure

Assistance required not only tactically but also at management level.

Claudia is the economic and administrative axis of the house, she rules everything and delegate tasks. She has a nanny who lives by during the week, which is kind of the house manager, who get in touch with the tangible issues and solves/delegate them to the husband. The husband is like an advisor, but he must solve daily issues.

She had two maids, one regular for everyday and one that would come once a week for the hard cleaning. Once the regular one got control of everything and the hard cleaning as well the daily one was released.

The family is basically herself, the husband, her infant son, the nanny and the maid. Her step son (her husband's son) would come by each 15 days.

Keeping the company ranks metaphor, the nanny would be like the vice president, she organizes the staff (including the husband), the tasks and make the direct communication with Claudia, she points out problems, she pass out decisions, etc.

The maid runs the kitchen department. She is responsible for cooking and cleaning, she makes decisions and delegate tasks, even to the husband (asks him to our base stuff for example).

The husband have basically no decision power on the daily house tasks or planning. He have a voice in some specific subjects that she doesn't consider of much importance such as car management, appliances, etc.

Now she is completely focused on the baby, she is planning the house and prioritizing everything towards him. The most important place in the house for her is the TV room that she spends time with the baby instead of the big living room planned to receive people to take.

The maid does the minor grocery shop, she goes with the husband once a month to a bix box store to make the major purchases.

She consider her family as a playdoll family, one that is attached to each other and would never separate and no matter what one does everyone follows.

House helpers:

- The nanny who not only takes care of the baby but is also sort of the manager of the house, finding issues, solving problems, delegating tasks.

-The maid, responsible for the heavy duty of cleaning and cooking

- The husband, responsible for aiding the employees in logistics and purchases, and for specific subjects (ones he has interest in) such as cars maintenance, home appliances purchases, etc.

Household Routine

Eating: Busy life ends up making cooking an effortful task that people don't prioritize over others once they can pay to have it done.

She have a very busy life, not finding time to cook during the week, which makes the maid so important in the home. She in fact used to cook and claims that she is good at it, but very if she finds time to cook she now prioritize other activities, mainly spending time with her baby, because cooking now is related to a task that she can pay to get done.

Cleaning: Maid's service becomes indispensible for a cheerful life

The maid is responsible for the house cleaning, dishes, clothes, etc. Claudia considers the maid is job as a crucial part of the house environment. Every tasks performed by the maid is considered cumbersomer or distasteful to be performed by herself. To have the maid at home taking care of everything that needs to be addressed is invaluable and she can't consider a containor where she would be required to do this job by herelf instead of spending time with the tably or hazaband. Provided the contained the second of the provided is the second to the contained the second the second to the second the second to the second the second the second to the second thas the second the second the second the second the second the sec

Having fun: Becoming a mother changes the

She enjoy receiving friends for a wine and chatting and she is concerned about this occasion when it comes to house arrangement and priorities. The living room is the biggest room of the house, fully designed to receive guests with comfortable couches, balconies filled with wine bottles and crystal glasses and only pictures and books where it would normally be expected to have a TV, so people interactions and conversations won't be jeopardized by the TV drawing attention.

She likes to bicycling around, she goes to a day club often and like to travel a lot. However all these behaviors seems to belong to an older stage of life, when she didn't had the baby. Nowadays all her attention is focused to her son, the daily "entertainment" might be considered the time she spends with him, as this is what truly seams to give her low.

Values

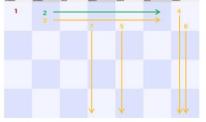
What she values the most is protection for her family and specially for her baby. Physical protection and emotional protection in terms of having a stable and functional home, where the tasks are done perfectly, where the quality of life can be maximized.

She is independent and values being a boss. Independence comes as a reward for her hard working and achieved life position. She likes to control everything and everyone, and likes to ensure that everyone will play their roles correctly in her life, from the maid to her husband.

How is the ideal future for them? Grow as a super united family

In her ideal future she would be able to spend all the time she wants at home, with her son and family. She would like to work from home, not to work more or to be more focused at it, but to be close to their loved ones. She wants to grow her family united above all things. She needs everyone together and she hopes to accomplish the dream of a bip happy and united family.

Aline Comadre
Close friend
Sister Nanny CLAUDIA Son Husband
Father in law

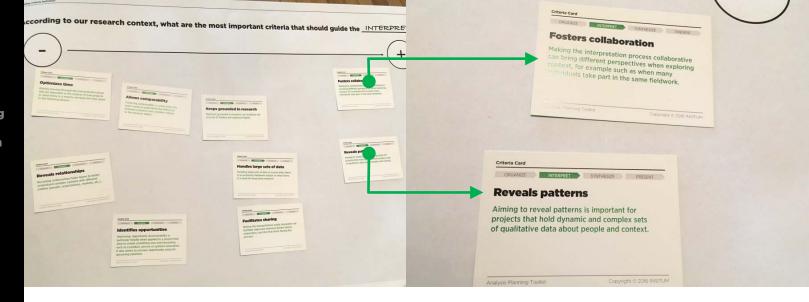


- 1. Big super market purchase early each month
- 2. House cleaning by maid
- 3. Lunch at home
- 4. Dishes left unwashed
- 5. Nanny/maid takes dog to pet shop
- 6. Husband takes car to be washed
- 7. Therapy

Priority activity

- Work at home Work at home so she would be closer to her son.
- Change the home Values capability for the house to change to better suit her family needs once the baby and her step son grows
- 3. Promote encounters Put the nice living room to a good use, show status
- Have fun at home Have fun with her family, specially her son, at the "fun room"
- Take care of people/family

- 1 Criteria selection
- 2 Methods mapping
- 3 Methods selection



Rational

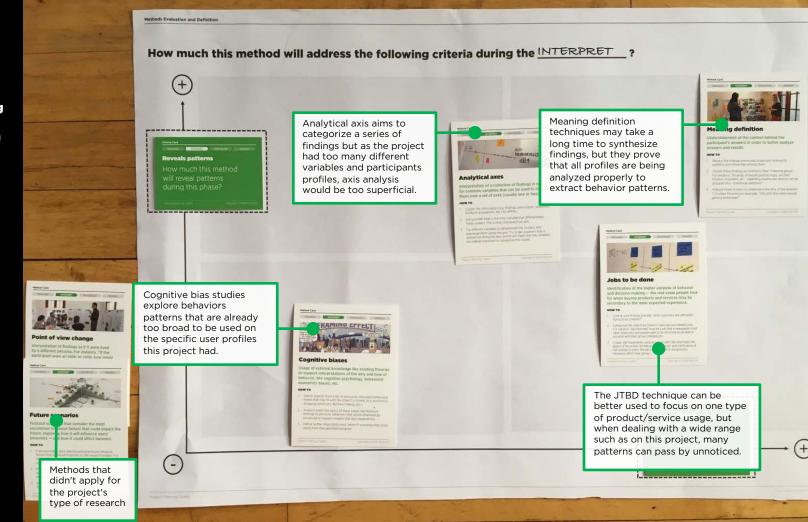
Fosters collaboration

- A big team would benefit from a method that allows everybody to contribute at the same time.
- Because the client is participating during the interpretation stage, it is important to allow them to feel included with hands-on work—not as merely spectators.

Reveals patterns

- As the research was dealing with multiple user profiles and contexts, it is important to find patterns that will guide the strategy development.
- Majority of the data was purely qualitative; finding patterns among the data allows for an easier big picture interpretation.

- 1 Criteria selection
- 2 Methods mapping
- 3 Methods selection



- 1 Criteria selection
- 2 Methods mapping
- 3 Methods selection



Rational

Meaning definition

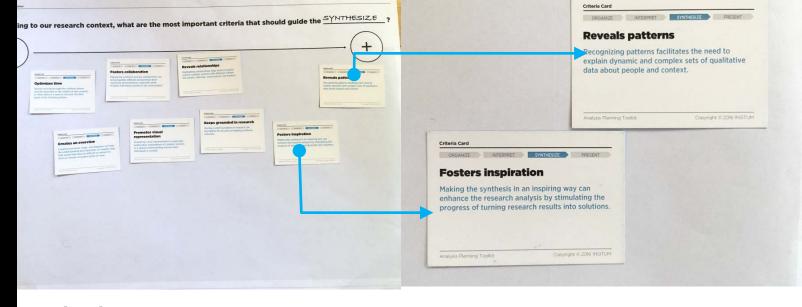
- Each fieldwork interaction had a large amount of contextual and behavioral information on the organized data, which requires a deep dive on the meanings individually.
- The whole team and clients were working on this stage of analysis, therefore the process had to be very collaborative and argumentative.
- Behavior patterns can be identified per user profile when understanding the meaning of their daily life events, barriers, and motivations in home.

- 1 Criteria selection
- 2 Methods mapping
- **3 Methods selection Meaning Definition**



SYNTHESIZE

- 1 Criteria selection
- 2 Methods mapping
- 3 Methods selection



Rational

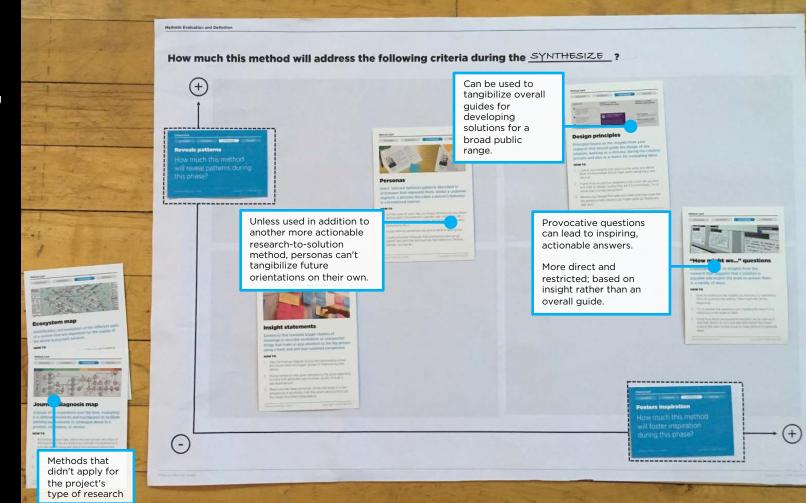
Reveals patterns

• Research results aimed to identify behaviors and drives for a broad market based on the interpretation of multiple user profiles, which required identification of patterns between them.

Fosters inspiration

- The research outcome at this point needed a shift from contextual depth to straightforward actionable.
- Project's audience wasn't familiar with qualitative research—results needed to look actionable without requiring a deep dive study.

- 1 Criteria selection
- 2 Methods mapping
- 3 Methods selection



- 1 Criteria selection
- 2 Methods mapping
- 3 Methods selection



Rational

Design principles + "How might we..." questions

- Design principles define the direction products should follow in future developments in a tangible, yet broad way.
- In order to further inspire the audience and to approach more specific opportunities, "how might we" questions work as a complement of the design principles.
- A design principle consolidates each broad opportunity area, with each main individual opportunity being provoked with a "how might we" question.

- 1 Criteria selection
- 2 Methods mapping
- 3 Methods selection Design principles + "How might we..." questions

Opportunity areas summary

SAFETY One of the main concerns Brazilians usually have is regarding safety, especially inside their home boundaries.

QUALITY OF LIFE People's concerns about quality of life extends to present actions and future planning for aspects related to work, family, home, entertainment, health, and food.

CONVENIENCE The city context hinders people's routines—-further emphasizing the busyness of their lives. As a result, they outsource household tasks in order to aid their home management.

VERSATILITY Families have in-flux lives, causing their homes to be in constant evolution.

SHARING People must deal with the tension of wishing to use spaces and appliances both individually and collectively.

TAKING BACK THE CONTROL OF HOME

Because the house is permeable, the influence of external agents makes people eager to take back control of the situation, thus aiding to fulfill the desire to revalue their homes.



- 1 Criteria selection
- 2 Methods mapping

3 - Methods selection Design principles + "How might we..." questions

WHY IT HAPPENS

- Kids have became the most important agent in a household
- Parents try to compensate their absence by closely monitoring their kids
- There are many uncontrolled sources of information accessible by children

Household member quotes

"The computer is placed on the corridor so I can see what my stepson does on the internet."

Claudia, late parents

"After we installed the cameras to monitor our son during the day, we started trusting her (the nanny) more."

Douglas, father who travels frequently

FURTHER EVIDENCES

Market growth of in-home surveillance

Micro-cameras and audio bugs are being sold for parents wanting to **monitor their nannies and maids**.

Source: Hotfrog

Expert auotes

"Parents need to be careful about their children's contact with technology. They need to define the boundaries between entertainment and learning times.

Renata, psychologist

"Nowadays, parents are using more technology for monitoring and taking care of their children.

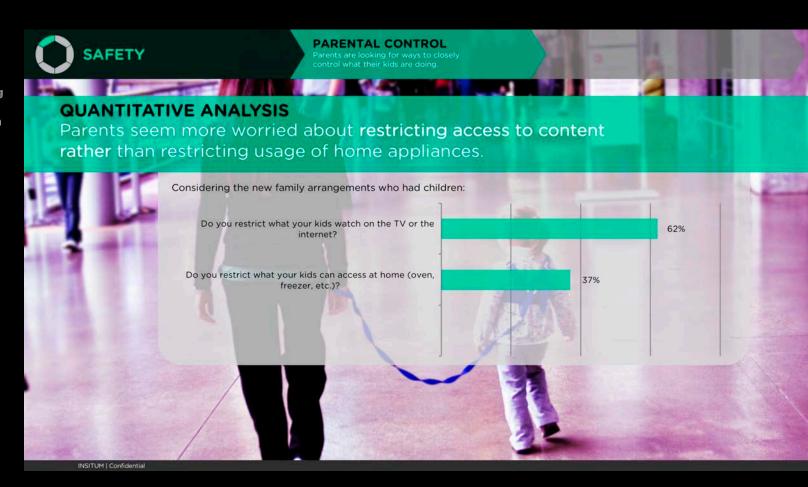
🗩 Lėa, psychologist



PARENTAL CONTROL

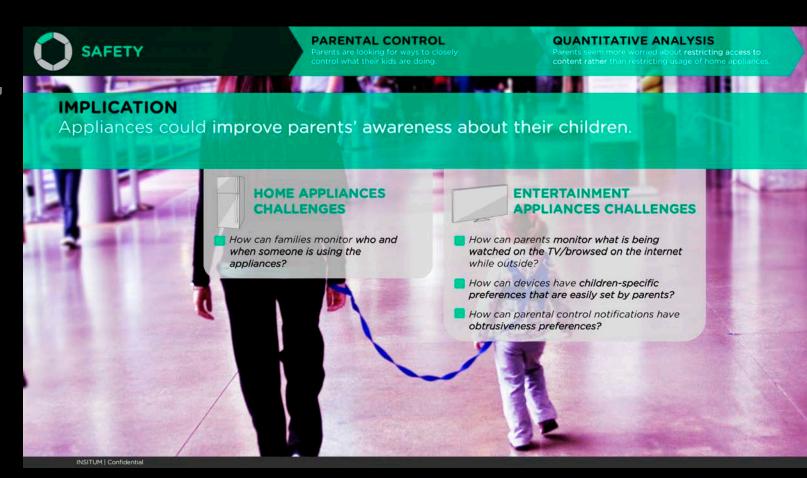
 Parents are looking for ways to closely control what their kids are doing.

- 1 Criteria selection
- 2 Methods mapping
- 3 Methods selection
 Design principles
 + "How might we..."
 questions



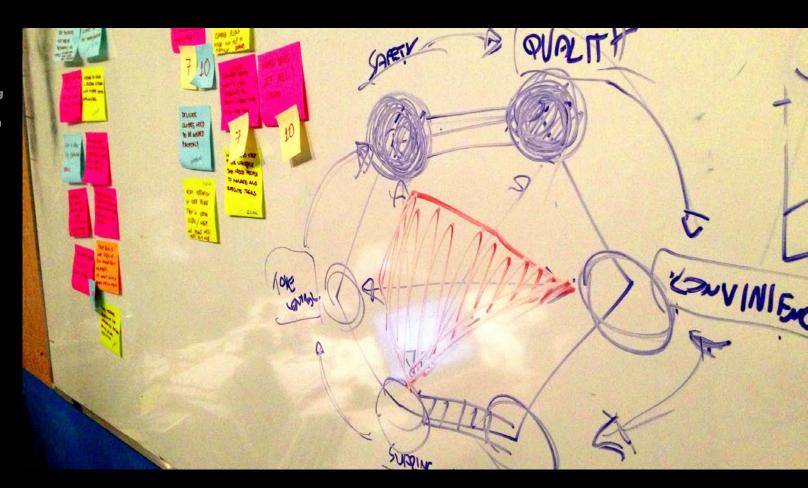
- 1 Criteria selection
- 2 Methods mapping

3 - Methods selection
Design principles
+ "How might we..."
questions



- 1 Criteria selection
- 2 Methods mapping

3 - Methods selection Design principles + "How might we..." questions

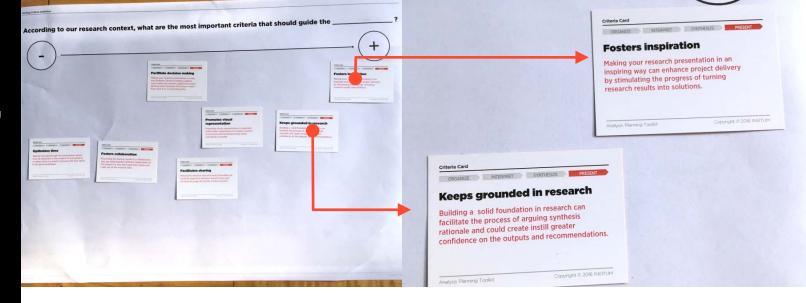


// Activity #2

Plan the PRESENT phase.

- Using the context mapping example, prioritize the 2 most important guiding criteria.
- By positioning your chosen criteria cards in your matrix, evaluate different methods and define one (or more) to be used.

- 1 Criteria selection
- 2 Methods mapping
- 3 Methods selection



Rational

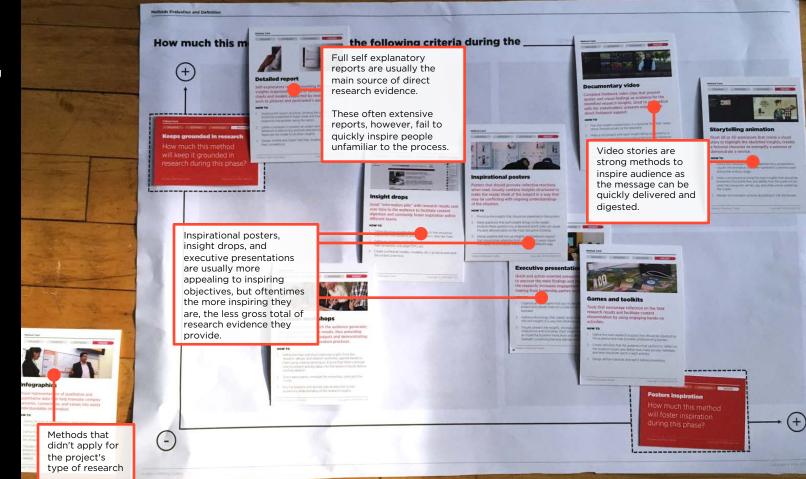
Fosters inspiration

- Main goal of the research presentation was to engage and draw attention of stakeholders who aren't used to qualitative research.
- By fostering inspiration the research can be more effective in tangibilizing results into actionable tools.

Keeps grounded in research

- Considering the client's company background based on results and skeptical or qualitative data alone, a clear showing of research evidence is necessary.
- Addition of quantitative and secondary data can make insights stronger and more reliable.

- 1 Criteria selection
- 2 Methods mapping
- 3 Methods selection



- 1 Criteria selection
- 2 Methods mapping
- 3 Methods selection



Rational

Storytelling animation

- There were no raw recordings of the fieldwork to be used for a documentary video.
- Animations also make it easy for the required quantitative and secondary data the video had to show to properly support the insights for the audience.
- Video short stories are a powerful tool for spreading insight bits around in an inspiring way.

- 1 Criteria selection
- 2 Methods mapping
- **3 Methods selection Storytelling animation**



// Activity #3

Reflection.

- What was the experience of planning the analysis like?
- What value would applying techniques like these bring to your practice?

Thank you.

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