### Design thinking

Introduction workshop



#### Jerry/ Japinen

Product design consultant











jerryjappinen@lateralnord.com

+358 40 7188776

@jerryjappinen

#### Latera Nora.

Slides and materials will be shared You won't need your laptops You won't need your phones Take a day off of deadlines Learn something new Keep an open mind

### Today's program

9:45 (15 min)

Warm-up

10:00

What is design and why is it important?

COFFEE BREAK

12:00 (1 h)

Journey mapping workshop

13:00 (1 h)

LUNCH BREAK

14:00 (1 h)

Design thinking process

15:00 (1 h 30

Idea generation workshop

min)

COFFEE BREAK

16:45 (30 min)

Implementing design thinking

17:15 (45 min)

Your topics, freeform feedback + Q&A

### Let's warm up

### Warm-up workshop

Stand up!

Take out your keys

Who are you?

What did you do over the weekend?

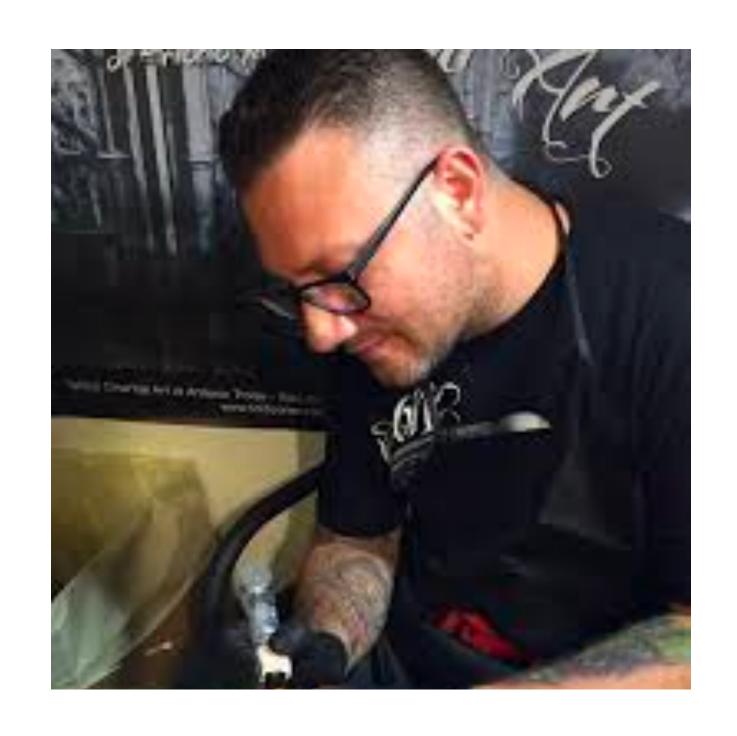
What is each key for?

### Warm-up workshop

Tell us 3 things about yourself: 2 true things, one lie

Write down which of the other people's things you think is a lie

### Meet Tony



Tony is a tattoo artist

You're finally getting him to do the tattoo you always wanted

Instruct Tony with a picture and description of your next, most beloved tattoo

### Why did you come here?

Have a think, write the answer on post-its

Have you ever started a project that turned out to be more complicated than you thought?

### Examples?

New product?

New customer?

New processes?

Old processes?

New value propositions?

New competitors?

New O or KR?

How to make a digital business grow?

How to present campaign results?

How to get 200 people to work towards one goal?

How to deliver new users with OOH campaigns?

How to get a customer to trust our expertise?

How to automate a campaign booking process?

## We'll come back to these topics

### Please participate!

## What does design mean to you?

# Why is design important?

### What is design actually?

# How do you create successful products for humans?

What do we mean by product?

### Solution to a problem that works and that people care about

## Let's talk about Norman doors

https://99percentinvisible.org/article/norman-doors-dont-know-whether-push-pull-blame-design/

#### People are weird

Especially people other than you

People never behave the way you want

All your users are free-thinking human beings

They all have their own thoughts, emotions, needs and wants, interests, motivations, impairments, pet peeves

#### What can we do?

People are individuals and individuals are weird

But you can research, predict and take advantage of their behavior

You can choose a narrow user group

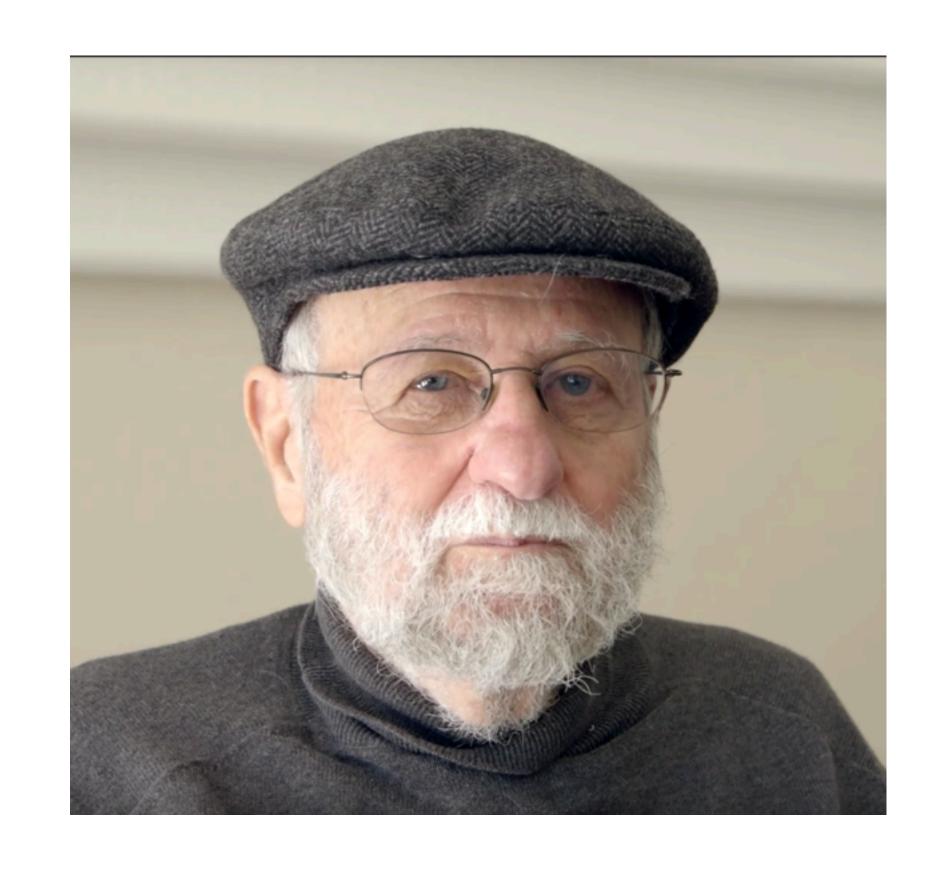
You can think in behaviors, roles, user groups, personality types, personas

#### Humans are Lemmings





Is this door a good or a bad product?



If you continue to get it wrong

and if other people continue to get it wrong

good sign that it's a really bad door

### No, it's not a good door

#### This is so obvious...

in *retrospect* when we talk about *someone else's* product

### Our challenge for today

How do we make sure *our own products* aren't Norman doors?

Before we manufacture them?

### What's the answer?

### Design

#### Things we call design

Graphic design

Motion design

UI design

UX design

Typographic design

Information architecture

List goes on...

What are these?

They're all activities

Specific fields, disciplines, vocations

Compare to frontend development, online marketing, financial controlling...

# Activities are important

#### 

#### Some time, somewhere

- a project manager said the doors were shipped on time
- a designer said the handles are consistent with other doors
- an engineer said the doors were built to spec
- a QA person said the doors work as intended
- a CS agent who said "thank you for your feedback"
- a head of product said "Spotify's doors open this way"
- · ...and they're all correct, and doing good work

### Activities are not enough to solve new problems

### Activities are not enough to create great products

# We don't deliver shit

## We deliver products that work and work for numans

## What do we do when activities are not enough?

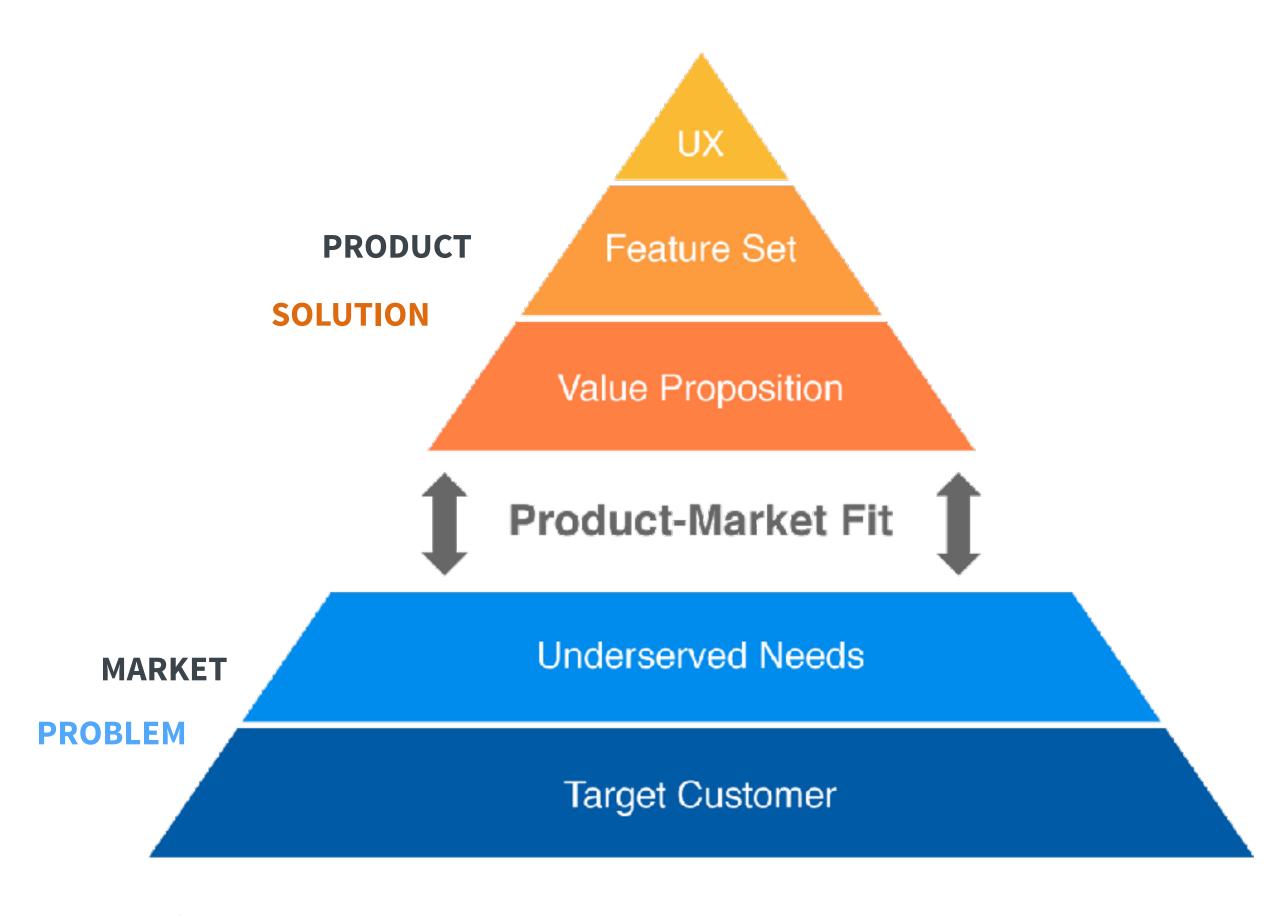
## Design thinking

# Many models, one reality

#### Product-market fit pyramid

In the process of trying to define and build a successful product, you form hypotheses in all five of these areas (whether you realize you are doing so or not).

The Product-Market Fit Pyramid helps you be more explicit and rigorous about your hypotheses.



## Have you heard of "Jobs To Be Done"?

Jobs-to-be-done describe the tasks that a product or service is carrying out.

People don't just buy products or just want to use a certain service.

They "hire" them to do a job.

Clayton Christensen



Jobs to be Done is a theory of consumer action. It describes the mechanisms that cause a consumer to adopt an innovation.

## A good product is a good solution to a meaningful problem

A good product is a solution that works and that people care about

# Good product has a good design

# What is good design?

#### Design as a quality of a product

"This door is a shitty design"

"This site is so well designed"

"This vase has such an amazing design"

## Can we break this OWN ?

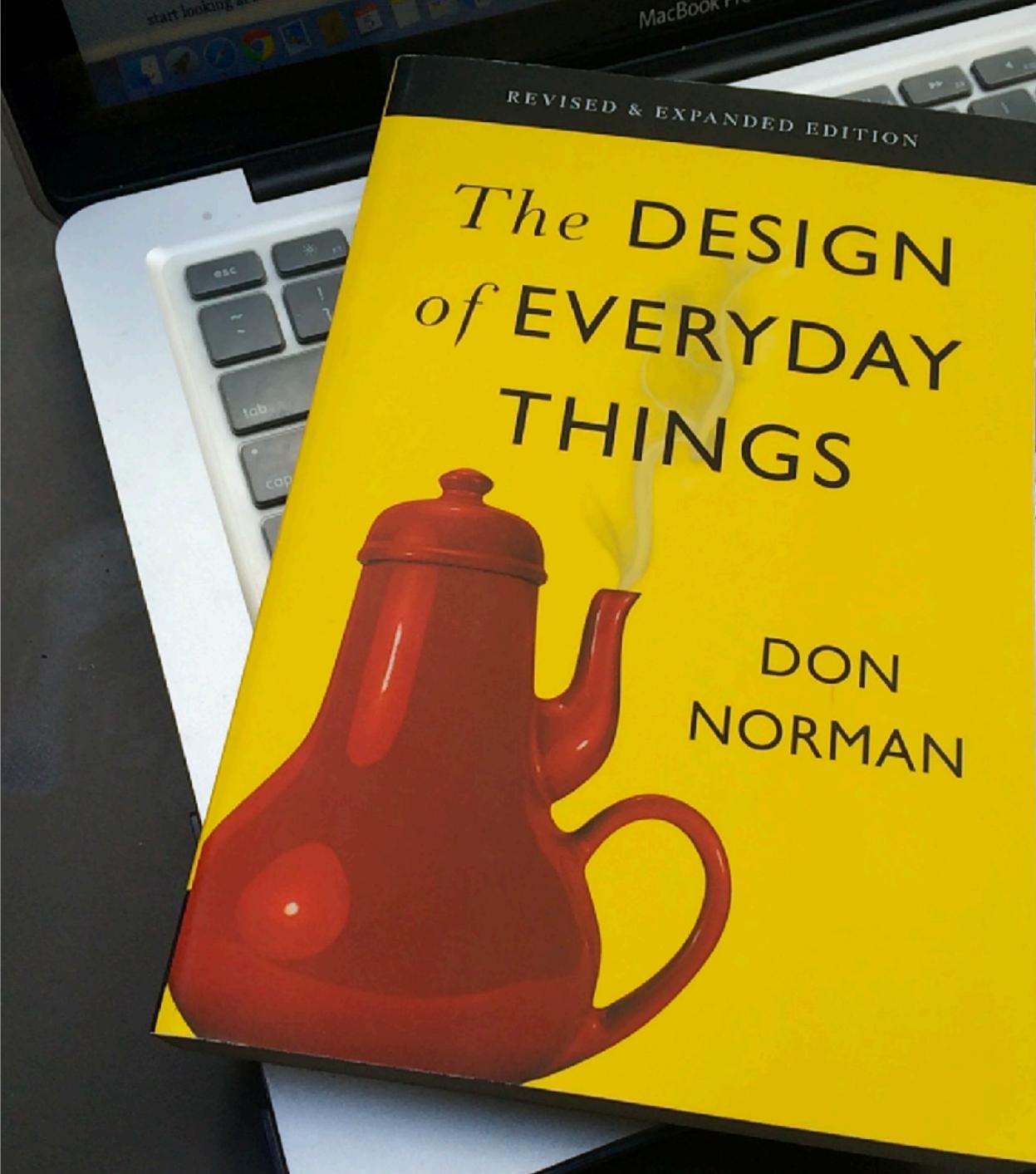
# What does it mean to have good design?

## Design The later page with T

"The book pops with break paradigms, applying scientific rigor to our remands with the imminute.

You'll never see bossesseriers the same again." — NURED

Why we love (or hate) everyday things





https://www.youtube.com/watch?v=PqVfLqu1I20

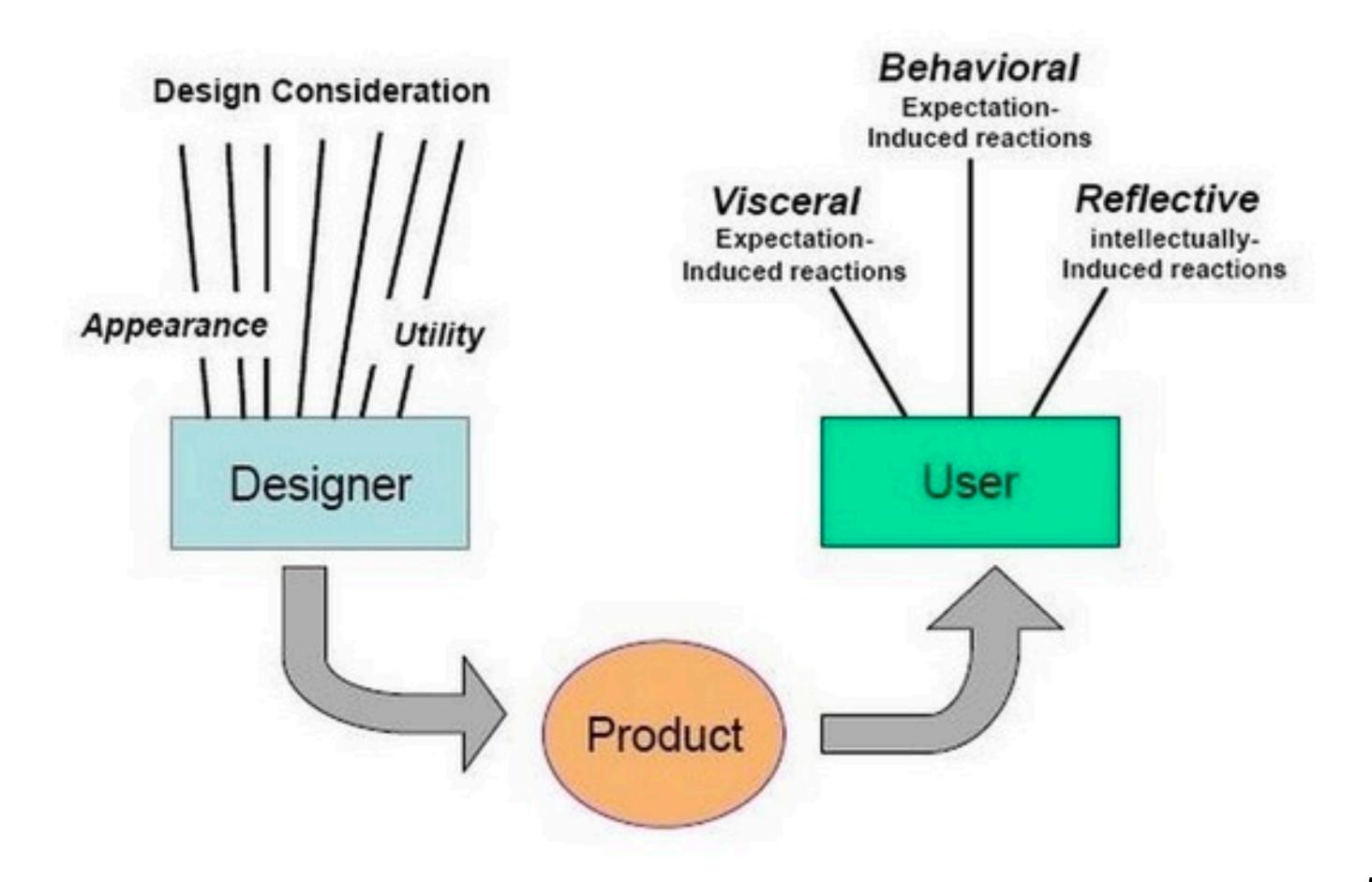
# How do we know if this teapot is a good product?

#### Good design works for humans

On a visceral level

On a **behavioral** level

On a reflective level



## Visceral



# Behavioral

### Reflectiv





# Is this teapot a good product? Why?

## Which design?

For the most part, your customers don't break down and analyse the design of your product

The design either works or it doesn't (on a spectrum)

It is valid to talk about design as one quality of a product

Distinctions between visual, motion and usability design are not very user-centric

## A good product works for humans on visceral, behavioral and reflective levels

# But we also won't talk about this today

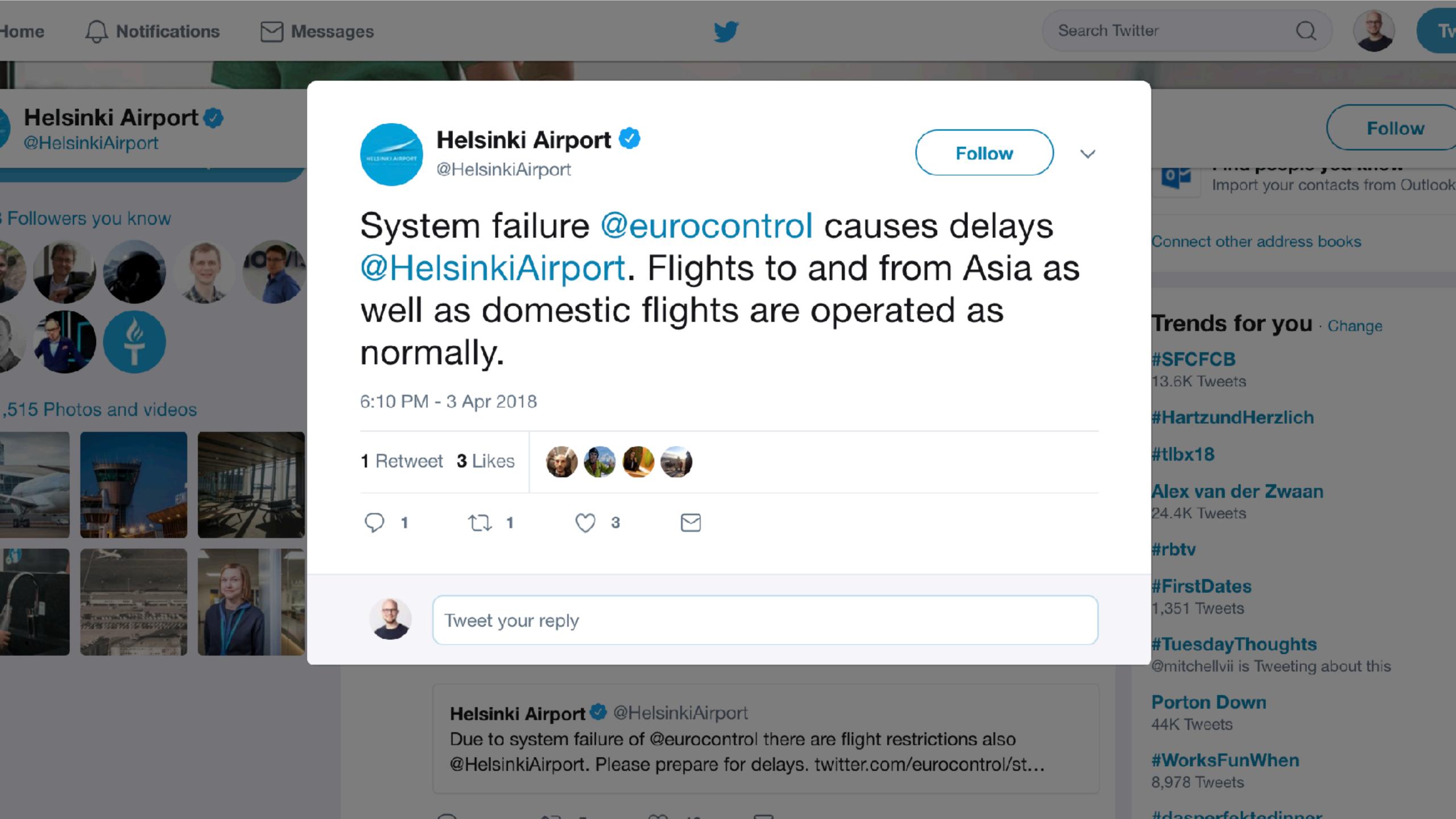
## Design thinking

# Design has one more meaning

We believe that good design makes the world a better place.

That holds true also at this airport Therefore, we are developing the design of the Security Control. Please tell the security control official how this works for you.

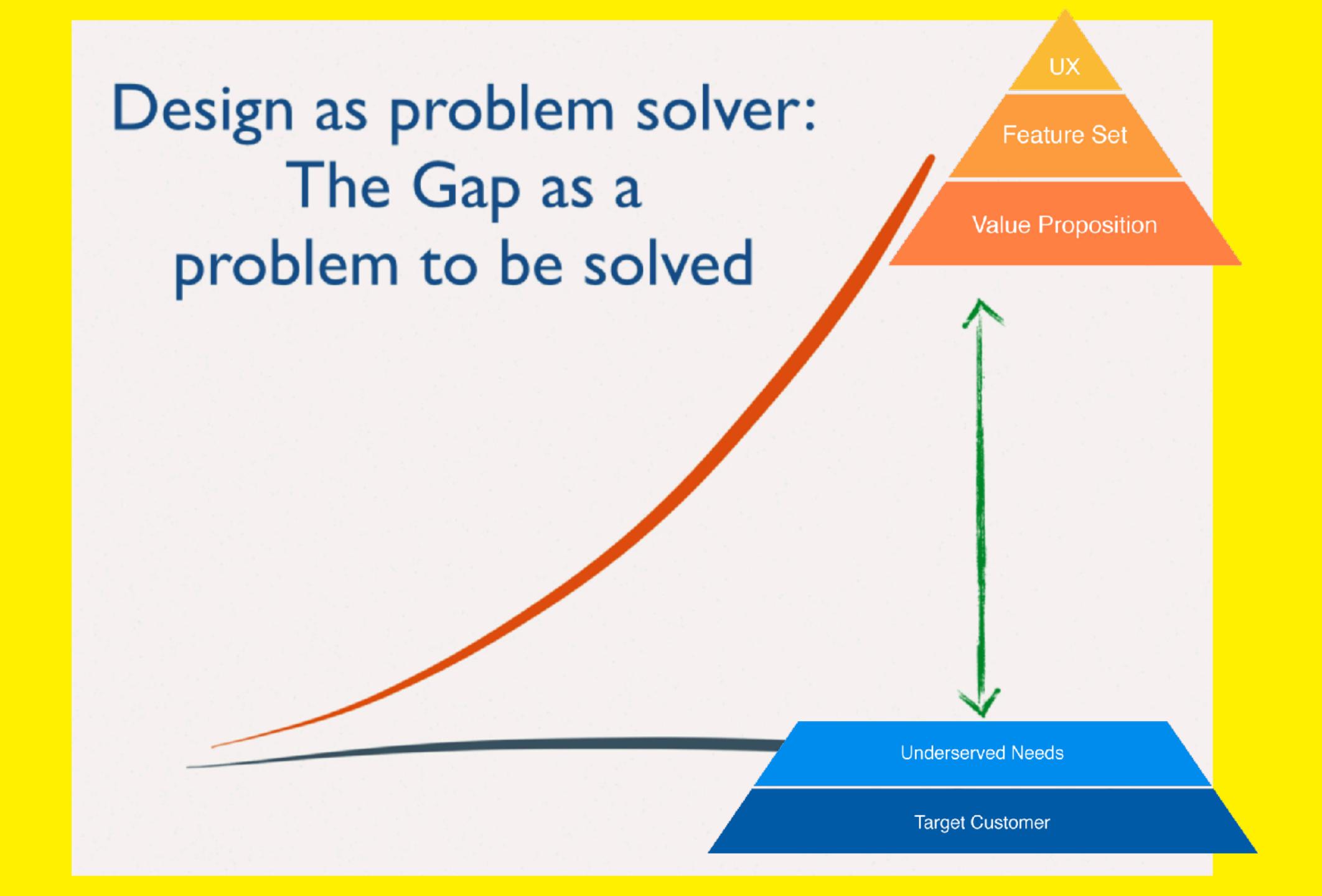
We are listening closely in order to make Helsinki Airport even better for us all.



# Design is a mindset

# Design is an approach to problem solving

Design is the methodology of moving from a poorlyunderstood problem space to finding one solution that works great

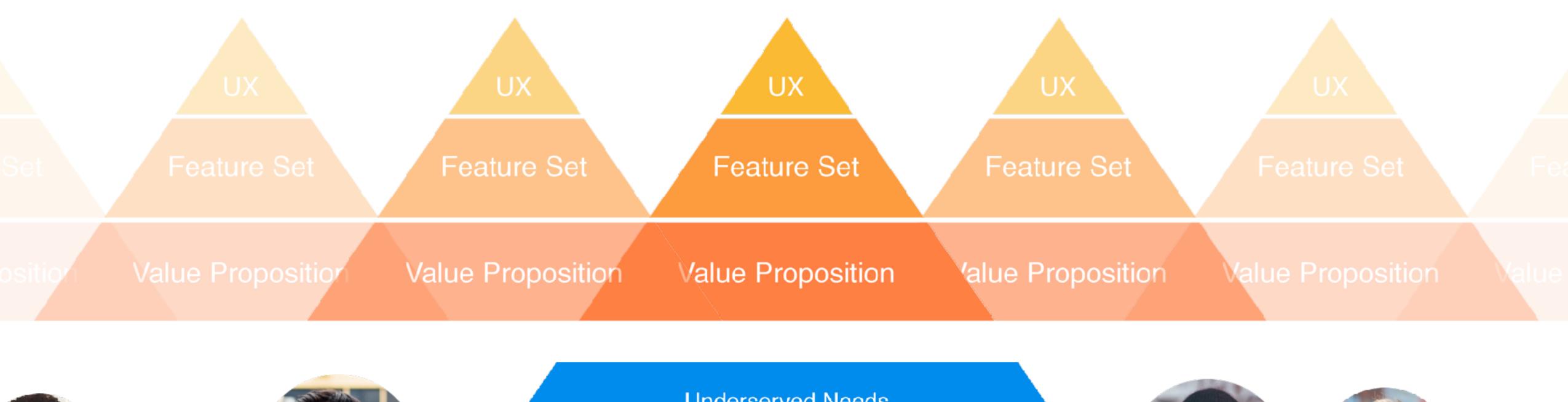


# And how do we do it?

How do we get from status quo to something that works on visceral, behavioral and reflective levels for humans?

### Solution space

Wealth of options to ideate and test























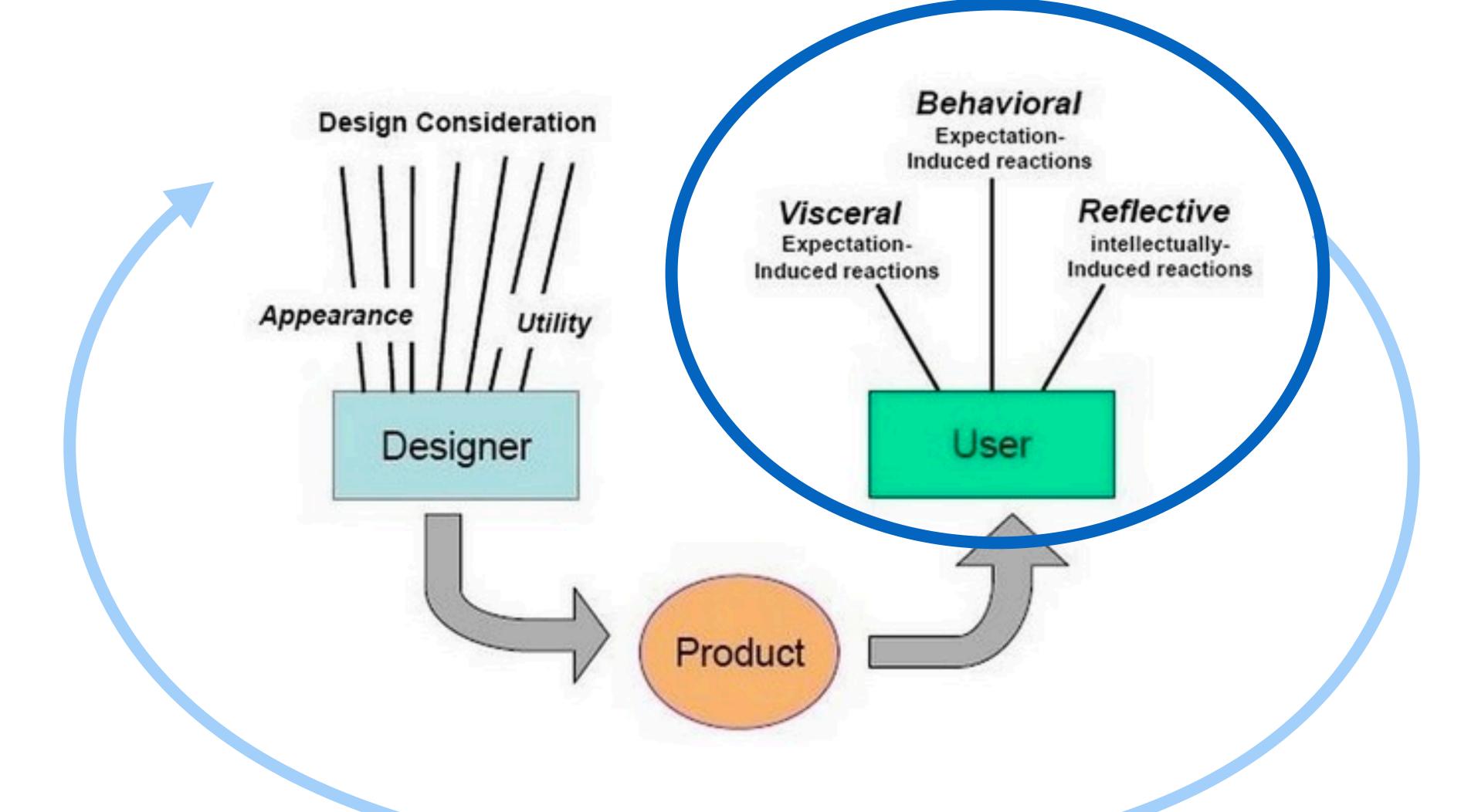


#### Problem space Wealth of details to discover and research





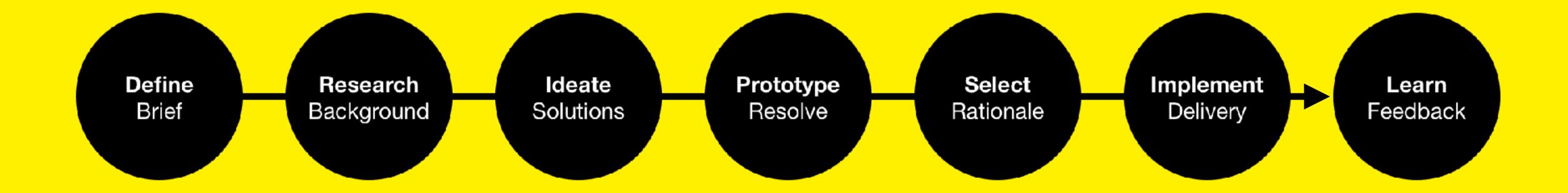




## Design is discovering and testing multiple ideas

## Design is creative problem SOlving

# This is what we call design thinking



### Design is a process that turns a brief or requirement into a finished product or design solution.

Design is an iterative process and design thinking is present in each stage of the journey from client brief to finished work.

Different solutions can be produced for any given brief and these can differ widely in levels of creativity, practicality and budget.



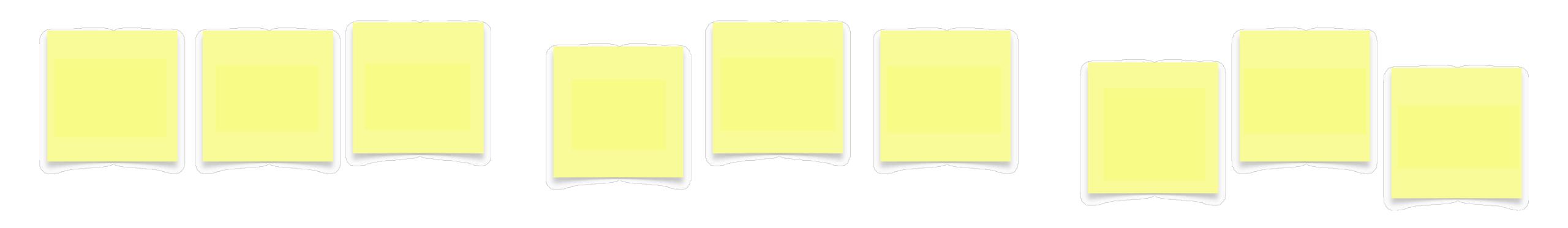
### 

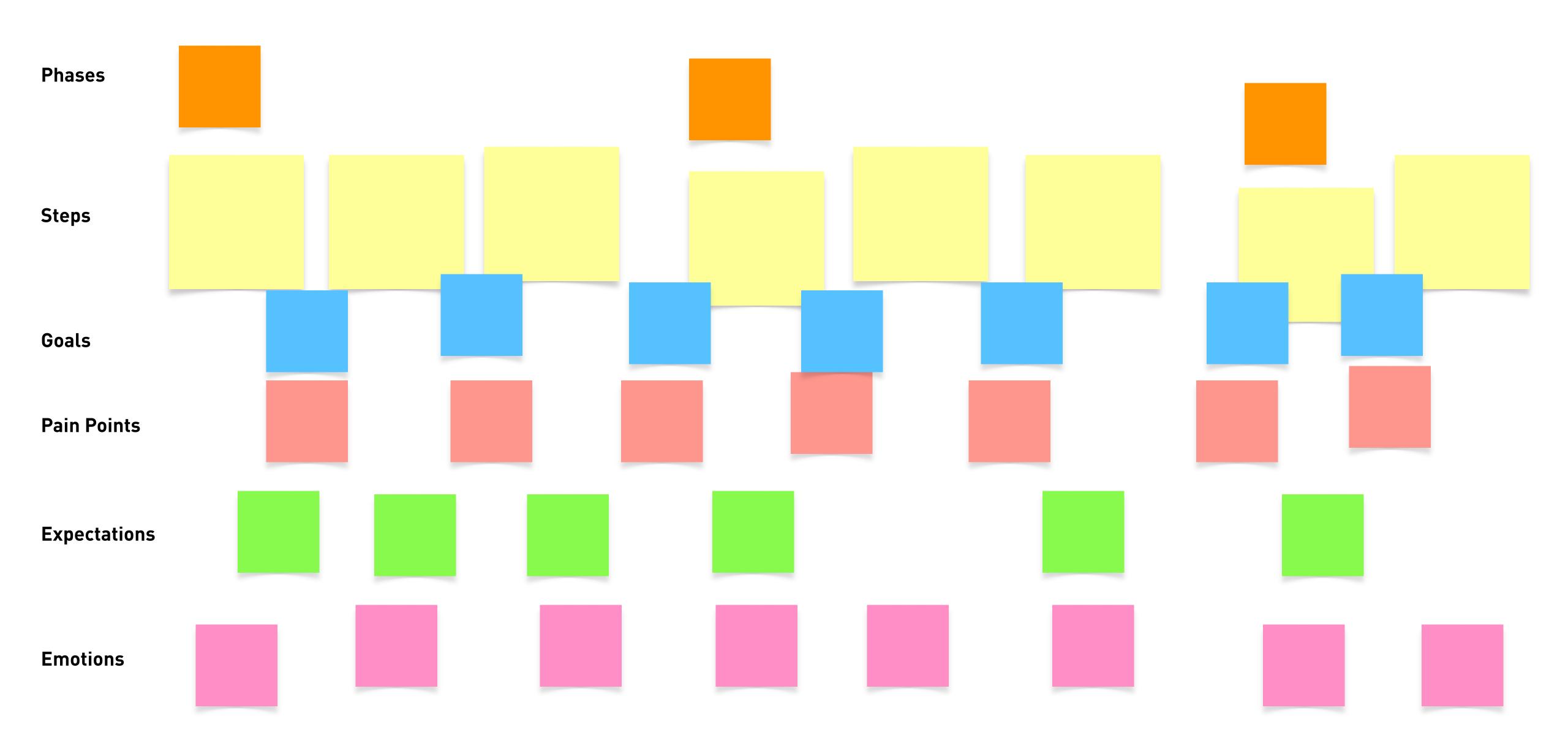
# Customer journey mapping

# Customer journey mapping

Simple framework to help you think through key moments for your customer as they experience your solution

## What does a journey map look like?





# Why do we journey map?

## To understand what's happening and learn from it

# To focus on users and business value

### To empathise

## Choose your problem and scenario to research

# Don't get stuck Write down everything your team can think of

# Get your post-its ready

### Key activities

Gets out of bed

Takes a shower

Gets Dressed

Makes coffee

Makes breakfast

Eats breakfast

Gets to train station

Buys a train ticket

Boards the train

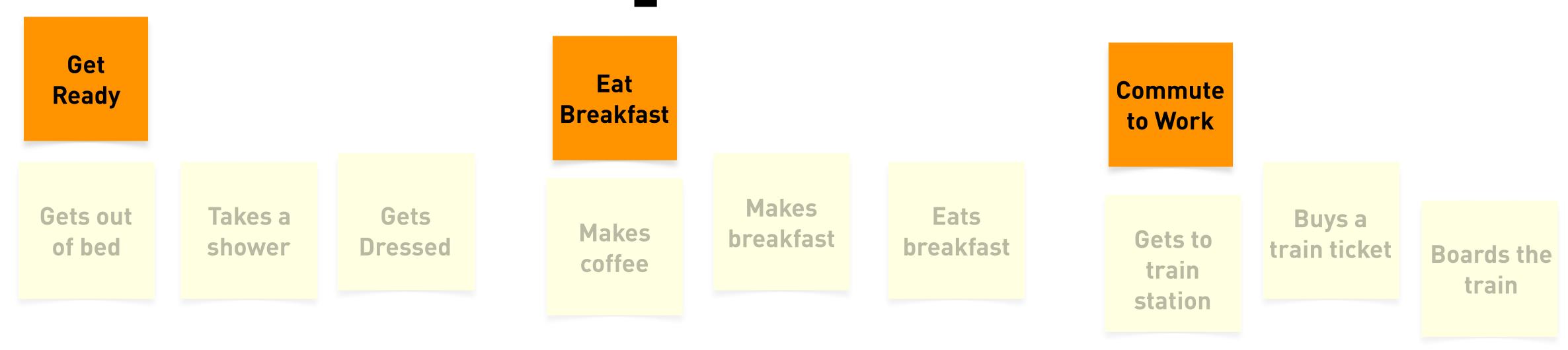
Phrase as a verb i.e. "downloads the app"

The flow of steps is similar to recipe instructions

Don't be concerned with the touchpoint i.e. mobile, inperson, etc. Don't try to list the steps of your entire product

Think from the customer's point of view

### Mental phases



Group your customer's steps into 3-7 phases

Think of your customer's mental state over the course of the journey

Try to summarise the steps from your user's perspective, e.g. "Starting out" over "Onboarding"

If you can't think of a phase, do before/during/after a key event such as "payment"

### Goals and motivations



A goal is what will proper a user from one step to the next

Write one goal per sticky and arrange them between each step to reflect that they propel a user between two steps Write one goal per sticky

This will help you understand what is happening behind the scenes. Remember, humans need inherent motivation to do things

### Pain points and blockers



Pain points keep a user from moving to the next step

Arrange pain points *between* the steps to reflect that they are obstacles between two steps

Write one pain point per sticky

Pain points help you understand why your product or service might not be effective or work as intended in the wild



### Assumptions and expectations

Gets out of bed

Takes a shower

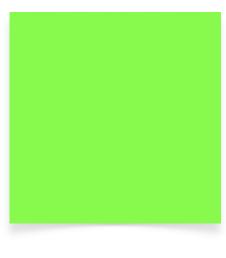
Gets Dressed

Makes coffee

Makes breakfast

**Eats breakfast** 

The alarm wakes him up/it's the right time to get up.



knowledge of the outside temperature

Expects that it will contain caffeine

Assumes that he has time

Expects to sit down and read while he eats

What will your customer need for a successful experience at each step?

There are things that customer will expect as a given, the assumptions.

These will often be industry-specific insights.

These should be checked often with your customer.

### Emotions and feelings



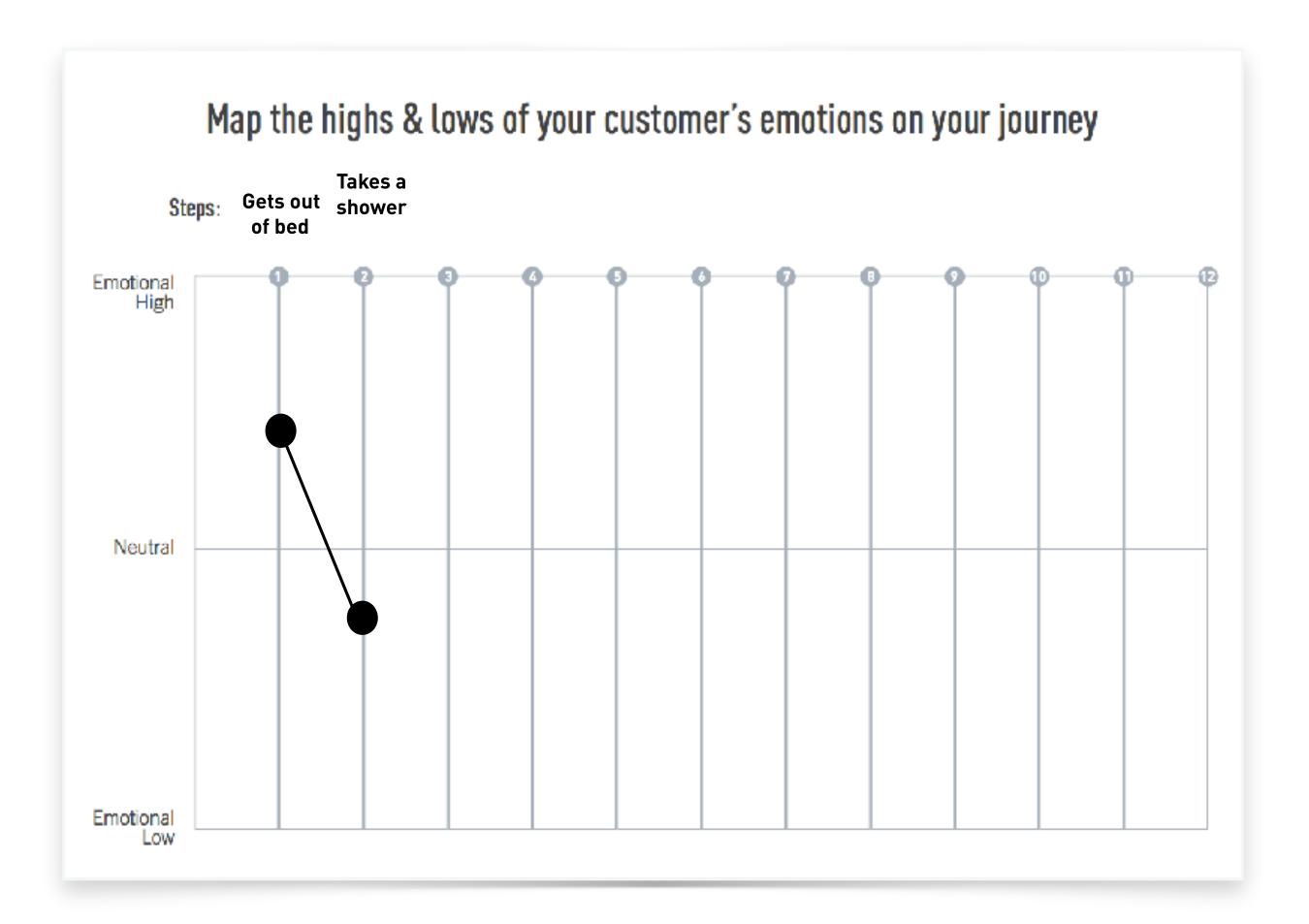
Keep it simple: one-word emotions or emojis

Can be multiple emotions per step

Think about the spectrum of emotions that the customer could be feeling at each step

These should be checked often with your customer

### Emotions summary



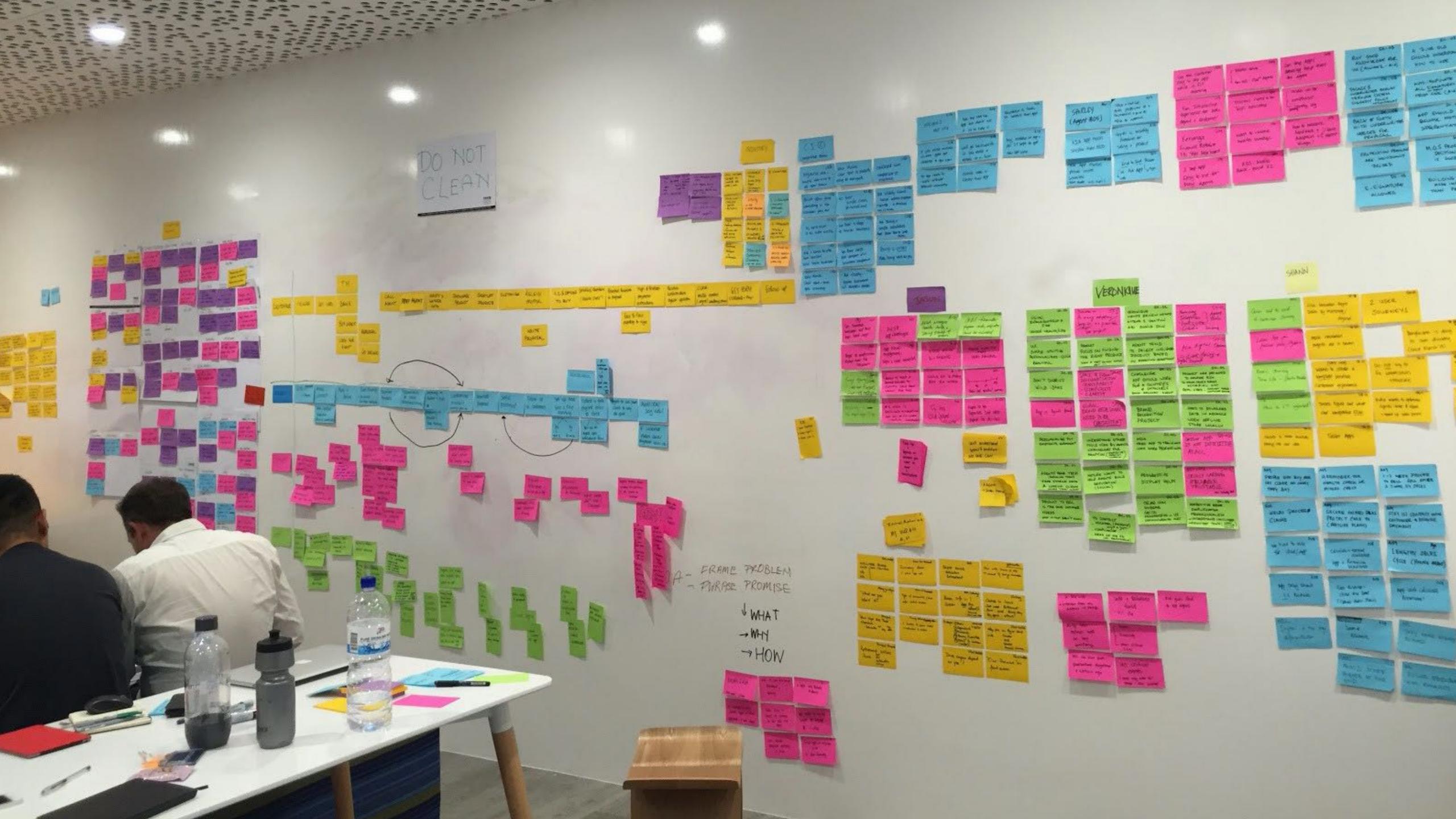
Use the emotions from your post-its to draw user's journey on the chart

Don't overthink it, it's not meant to be scientific

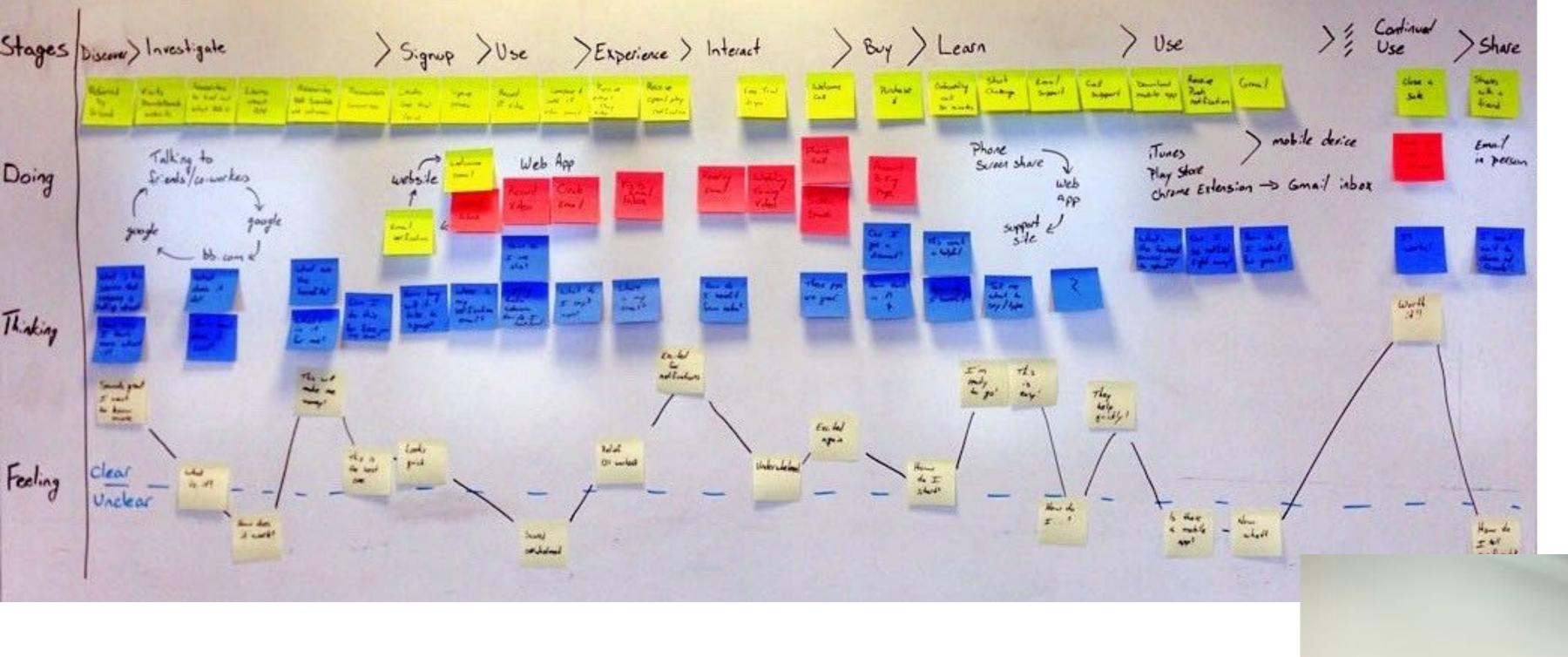
Repeat this exercise with customers from different target groups or personas

## How did you like it?

### Was it useful?











### Journey mapping

Can be used to model any service flow from customer perspective

Maps out one customer flow - not a complex architecture

Find pain points / areas of focus of existing solution

Works for validating your new solution

Works for researching status quo (when you have no solution yet)

### Journey mapping

Service flows are rarely obvious and have multiple touch points

Helpful as a starting point or to explain a process to others

Avoids getting lost in too much detail or specifics

Produces a testable journey

Great team exercise

### Lunch

# Solving problems is nothing new

## Case study from 100 years ago

Before we had apps, scrum, Slack and Trello, history of engineering and industrialism has hundreds of years of educational stories

https://youtu.be/jFG02bh6oQk?t=19s

Listen carefully the language used in the video

## Creating products for humans has always been complex

## Case study from 100 years ago

Everything Ian said is so obvious 100 years later

How do we figure this out before we manufacture our product?

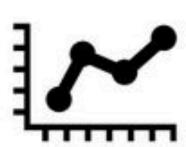
# The design thinking process

## Design thinking is a methodology for problem solving



#### **EXAMINE**

Dig into the problem. Look at the history, the context, the objects, and (most importantly) the people involved.



#### UNDERSTAND

Go deeper and find patterns. Establish open questions to build on.



#### IDEATE

Have lots of ideas, good and bad. Don't stop at the obvious or the impossible.



#### **EXPERIMENT**

Try some things out. Make some things. Fail cheap and fast.



#### DISTILL

Strip your solution down and tell the



Empathize

Define your client's pain



to the essentials story to others.











**Empathize** THE HEART OF DESIGN



**Define** REFRAME THE PROBLEM





Ideate **BEYOND BASIC BRAINSTORMS** 





**Prototype GET SMARTER, FASTER** 





**Test EARLY AND OFTEN** 



Prototype



**Ideate Again** 

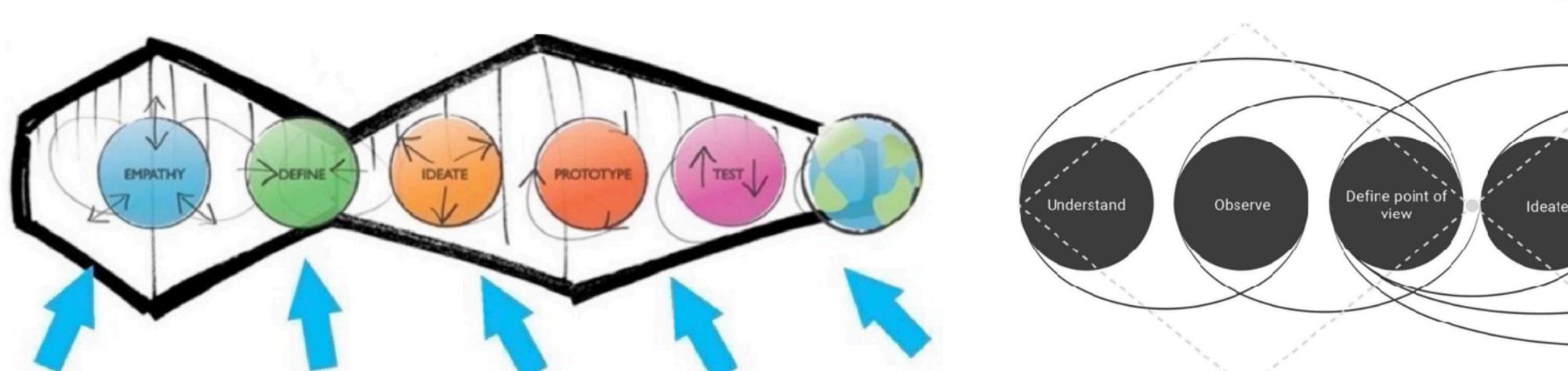


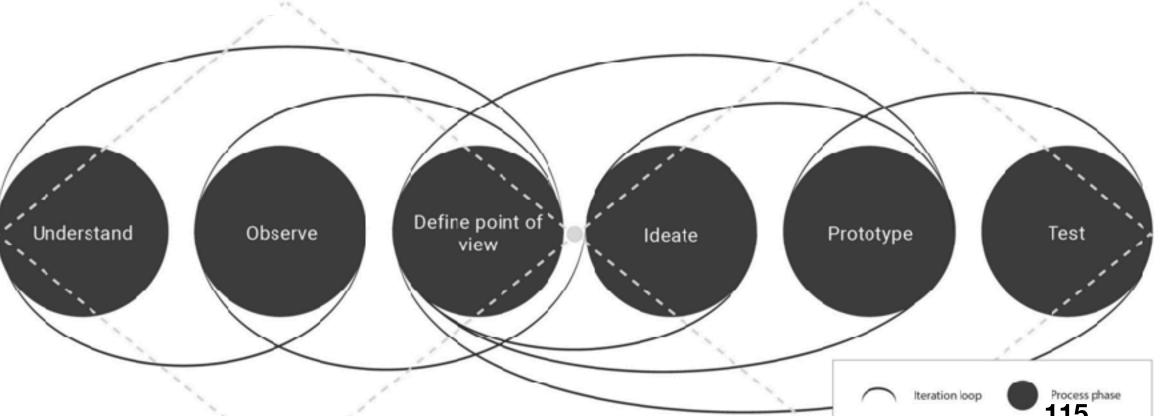
Thinking

mode:

Thinking

mode:





## 1. WHAT IS OUR PEOPLE'S ATTITUDE?

One of the outstanding things about DCMN are the people working here. The atmosphere is open and collaborative and people really enjoy being at the office. Here is why:

- We say thank you
- We listen
- We approach others with empathy
- We try to understand
- We can count on each other

## 2. WHAT IS OUR BUSINESS ATTITUDE?

You don't have to be serious to deliver great results, but you have to be driven. DCMN's unique vibe helps us to stay successful.

- We take over the market
- We are growth enthusiasts
- We choose the greater good
- We go for the best solution

#### 3. WHAT IS THE DCMN VIBE?

Everybody in the company feels it and everybody cherishes it.

- We don't deliver shit
- We embrace diversity
- We use our voice
- We feel free
- We have fun together

## 4. HOW DO WE KEEP OUR TEAM SPIRIT UP?

The key to staying successful is an awesome team. These are some key things to keep the spirit up:

- We care for each other
- We talk to each other
- Company success over personal victory!
- No blame game!

### 5. HOW DO WE EMPOWER INNOVATION?

Staying innovative is a challenge for any company. We love driving things forward and embracing new things. This is how we do it:

- We make time for developing crazy ideas
- We feed hunger for learning
- We stay ahead of the future
- We think beyond borders
- We take risks

#### 6. HOW DO WE IMPROVE?

Apart from staying cutting edge, we want to get better at everything we do. Our recipe is:

- We embrace mistakes
- We appreciate feedback
- We feed back
- We are experts of learning
- We help each other succeed
- We grow consciously

## 1. WHAT IS OUR PEOPLE'S ATTITUDE?

One of the outstanding things about DCMN are the people working here. The atmosphere is open and collaborative and people really enjoy being at the office. Here is why:

- We say thank you
- We lister
- We approach others with empathy
- We try to understand
- We can count on each other

## 2. WHAT IS OUR BUSINESS ATTITUDE?

You don't have to be serious to deliver great results, but you have to be driven. DCMN's unique vibe helps us to stay successful.

- We take over the market
- We are growth enthusiasts
- We choose the greater good
- We go for the best solution

#### 3. WHAT IS THE DCMN VIBE?

Everybody in the company feels it and everybody cherishes it.

- We don't deliver shit
- We embrace diversity
- We use our voice
- We feel free
- We have fun togethe

## 4. HOW DO WE KEEP OUR TEAM SPIRIT UP?

The key to staying successful is an awesome team. These are some key things to keep the spirit up:

- We care for each other
- We talk to each other
- Company success over personal victory!
- No blame game!

## 5. HOW DO WE EMPOWER INNOVATION?

Staying innovative is a challenge for any company. We love driving things forward and embracing new things. This is how we do it:

- We make time for developing crazy idea
- We feed hunger for learning
- We stay ahead of the future
- We think beyond borders
- We take risks

#### 6. HOW DO WE IMPROVE?

Apart from staying cutting edge, we want to get better at everything we do. Our recipe is:

- We embrace mistakes
- We appreciate feedback
- We feed back
- We are experts of learning
- We help each other succeed
- We grow consciously

## 1. WHAT IS OUR PEOPLE'S ATTITUDE?

One of the outstanding things about DCMN are the people working here. The atmosphere is open and collaborative and people really enjoy being at the office. Here is why:

- We say thank you
- We listen
- We approach others with empathy
- We try to understand
- We can count on each other

## 2. WHAT IS OUR BUSINESS ATTITUDE?

You don't have to be serious to deliver great results, but you have to be driven. DCMN's unique vibe helps us to stay successful.

- We take over the market
- We are growth enthusiasts
- We choose the greater good
- We go for the best solution

#### 3. WHAT IS THE DCMN VIBE?

Everybody in the company feels it and everybody cherishes it.

- We don't deliver shit
- We embrace diversity
- We use our voice
- We feel free
- · We have fun togethe

### 4. HOW DO WE KEEP OUR TEAM SPIRIT UP?

The key to staying successful is an awesome team. These are some key things to keep the spirit up:

- We care for each other
- We talk to each other
- Company success over personal victory!
- No blame game!

### 5. HOW DO WE EMPOWER INNOVATION?

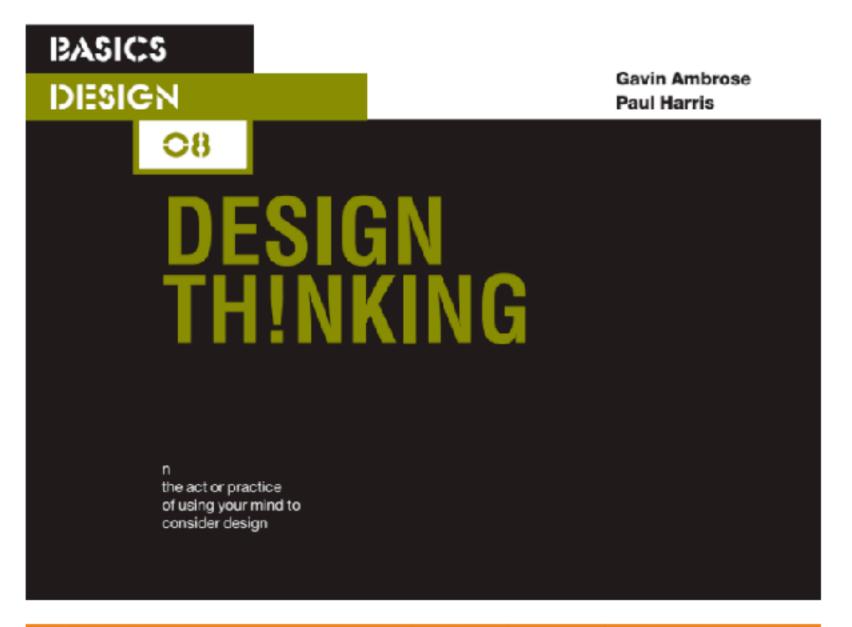
Staying innovative is a challenge for any company. We love driving things forward and embracing new things. This is how we do it:

- We make time for developing crazy ideas
- We feed hunger for learning
- We stay ahead of the future
- We think beyond borders
- We take risks

#### 6. HOW DO WE IMPROVE?

Apart from staying cutting edge, we want to get better at everything we do. Our recipe is:

- We embrace mistakes
- We appreciate feedback
- We feed back
- We are experts of learning
- We help each other succeed
- We grow consciously





18 19

The ideate stage generates a variety of potential solutions to the design brief. Prior to selection. It may be necessary to further work up the most premising of these solutions. This will allow particular aspects to be tested and will provide a better basis for comparison at the selection stage. In such cases a prototype

A prototype can be used to test the technical feasibility of a design idea to see

If it votice as a physical object. Neve peckaging or presentation ideas normally require the development of a prototype. A prototype can also test the visual aspects of the design by presenting them as they would be produced. This also

provides the apportunity to test, where pertinent, a design in three dimensions. A prototype gives the design team and client the ability to visualise and handle

a design concept, to get an idea of its physical presence and tactile qualities.

from whiteboard and airr to give a three-dimensional visualisation of a building

cesign. However, if a particular print finish is stipulated, it may be perfinent to

to all potential solutions require prototyping?

As a prototype aims to test particular aspects of a design solution, it must be made so that those expects are present and can be effectively evaluated. To convey the idea of what it will bot like, a protetype does not need to be

Stage 4 - Prototype

Resolving solutions.

information and references from other sections and markets are collated together with material from effections books and magazines, to give a broad background of the projects' "topographies or andscapes. All of this information will be fell back into the design process at the ideatestage





Stepping Out Into a World Beyond Landscapes by Lucy Jones This book reproduces details of buoy Jones's work at one hundred per cent. scale. Using oriarged scale esables the reader to see the brush data! and paint texture, comething that is usually lost in the print reproduction of painted works. After paintings are reproduced at a small scale, they tend to lose their detail. and look artificial. This presentation allows the quality of the works to be

#### Stages of thinking

Design is a process that turns a brief or requirement into a finished product or design solution. The design process can be said to comprise seven stages; define, research, ideate, prototype, select implement and learn. Each of these requires design thinking. This chapter will outline each of the seven stages and the design thinking aspects they entail, while subsequent chapters will look at specific stages of the process in more detail.

The design process engages a high degree of creativity but in a way that is controlled and directed by the process so that it is channeled towards producing a visible, practical solution to the design problem, meeting or excelling the stated aims of the brief.

While creativity in design is important, design is an activity that serves economic as well as creative goals. The design process helps ensure that a design satisfies all such considerations. The process seeks to generate a number of possible solutions and utilities various techniques or mechanisms that encourage participants to think outside the bax in the pursuit of creative or innevative solutions.

The unsafer skelle (faulty page)
These images depict (budio-Myersoough's designatudic inLordon, JK.
The space facilitates onestive thinking and presents an organised chace, laden
with stimals, and more notineed than it might first appear. The walls are used
to themaficially collateresearch and meeting zones are informal, facilitating prainstorming and working space. The space is flostitle and adaptable and can be liked and refleshed to help the design thinking process continue its cycle.

#### Stage 3 - Ideate Creating potential solutions.

During the ideate stage, the design team claws on the research gathered and the constraints established during the define stage. This information is used create ideas with which to tackle the design brief.

Designers use different methods to ideate, some of which will be discussed more detail in chapter 3, 1dea generation, ideation methods include trainstanning, skeruling liteas, adapting a tried-and-tested design that aheady exists, taking a rap-down analytical approach that focuses on the product, service or company or a bottom-up approach that focuses on the sustomer or user (both are further explained as page 50). Faith method involves a varying cegree of creativity and shoosing which method to use will depend on factors such as how much money is available and how original the design needs to be.

At this stage, a design team might also choose to harness one of the multipos of art and dissign movements or passognis. A design brief can be given a modernat, abstract, constructival or a deconstructival interpretation

As the idente stage progresses, it will become clear whether there are any misundentaedings or shortcomings in the definition stage and whether sufficient. levels of research vers carried out. Feedback can be sought throughout the cesign precess to claifly points of doubt with the client and to address aspects. that were ill-defined during the definition stage.

you understand the brief? ros heve sufficient research information? which methods will be used for idea generation?









#### Drive Record Solders Protect Record Protect Participation Process Participation Process

#### Inspiration and references

Inspiration is essential in any creative activity and design is no exception. Inspiration is key to the generation of exciting design ideas and design professionals draw inspiration from innumerable sources.

such as magazines, musc, literature and the urban environment. The work of other people in the field, past and contemporary, provides creative stimulation, which is one of the reasons why this series of design books contains so many examples of work by contemperary designers. Designers call closs-reference elements of contemporary life with those of bygonedays, and delve back into the rich tradition of art and design history for visual stimulation.

Many designars and design studies formalise the inspiration process to a ow extent though the use of an ideas book. An ideas book is a collection of outlings. words and found objects that are accumulated to inspire. An ideas book may be a general collection that is continuously added to or it may be made as part of the preparation for a specific project. Designers often create characters that are a memail image of the typical target audience for a design, exemplifying the

#### The design process

Within the design process, seven steps can be identified: define, research. ideate, prototype, select, implement

First, the design problem and the larget audience needs to be **defined**. A preuse understanding of the problem and its constraints allows more exact solutions to be developed. This stage determines what is necessary for the project to be uccessful. The research stage reviews information such as the history of the cesion problem, end-user research and opinion-jed interviews, and identifies

Meate is the stage where end user motivations and needs are identified andidias are generated to meet these, perhaps through bransforming

Prototyping sees the resolve or working-up of these ideas, which are presented

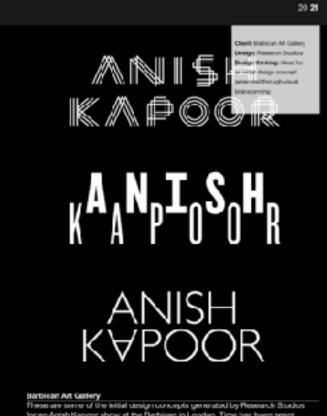
Selection sees the proposed solutions reviewed against the design brief objective. Some solutions might be practical but may not be the best ones

Implementation sees design development and its final delivery to the otient

Learning helps designers improve their performance and, for this reason, the solution met the goals of the brief. This may identify improvements that

While the design process is often linear, as shown below, it frequently involves revisiting earlier segments for reworking as it evolves.

#### Orion Record School Process Accord P



Pressures and different values of the initial design concepts generated by Plesearch Soudous for an Ariah Kapeor show at the Barbisan in London. Time has been apant asperimenting or visually brainsterming, setting the artists name in various typetanes to create different visual statements. This experimental time compresses rivaluable, allowing your minc to wander, and your hand to 'doode'. This period allows for experimentation, without considering what is 'right' or 'wrong', rejecting preconceptions in favour of free-thinking.

Home MCR This brachure for the 31-33 Sinckton Road building development was created by

Mark Studic for Home MCR and feetures a minimalist, or KISS, approach to the

design problem. The design is kept simple and focuses on the small buches that help make a building a home. For example, a three-panel (double-gatefold) cover

leatures the house numbers that one would find on the doors of the nomes. This ems a keyvisual image in the brothure, and suggests spaces that are lived in

pesent an image. The example above teatures a double-gatefold with two extra parells.

These typographic tree sculptures are an example of transfermation and convergence. The design features 14 trees, installed throughout the library building

from floor to ceiling like supporting pillars. Sand-basted into the trunks are extracts from literature, typographically executed to reflect the diverse subject matter of the

Design Museum (soing page)
These rooms were created by Studio Myrrocugh for an exhibition about the British designer Alan Aldridge at London's Design Museum. The design concentrates on the fantasy aspect of Aldridge's work with an intensity that makes the exhibition.

immersive, all-consuming and that delivers a sense of theatre.

ather than a mere building or development.

Crawley Library

texts held within the library.

Clent Home MCE

Dresign: Mark Stucto

Braign Minking: loos is more - minimalat use of

image and type communical

Dissigns Constan Young are:

Design thinking: Sand blacked

nveges diverseleds

Derived from ideas presented by Tim Peters in The Zen of Python, these tenets include: brautiful is better than ugly; simple is better than complex sparse is better than dense; readability counts; practicality beats purity; and refuse the temptation to guess.

Drive - Research - Solution - Reach - Search - S

Some believe that white space-allows key design elements to breathe and be easily seen. It also helps the viewer to focus attention on them, giving them

This tenet suggests that lext should be kept to a minimum, with sentences pased back to short, sharp phrases that have a meaningful impact.

According to many designers, graphics should create a visual impact that grabs the attention and reinforces text communication. However, graphics that go overboard and are too large, complicated or numerous are distracting.

Designers need to think about scale, an easily forgetten aspect when designing on screen. Design proofing needs to include an actual scale proof for small-or large-scale items such as stamps or posters to ensure that text and graphics are

#### User-centred design (UCD)

needs, to optimise performance and minimise discomfort. Ergonomics focuses on safety, efficiency, productivity and health in work settings to ensure that products, services and environments are compatible with the human form.

#### and finally... TIMTOWTUI (pronounced Tim Toady)

This means simply that "there is more than one way to do it" and follows the bollef that a problem may have several different, but equally raild, solutions

#### Themes of thinking

Designers often have to face the challenge of fitting large quantities of information into formats with limited space. Several tenets can be used to inform the design process and help overcome this challenge.

Reen it Short and Simple, or Keen it Simple Studie! KISS) is a modern acrossm but it employs the same lenets as Ookham's razor, which has been around for saveral hundred years. The idea is to pare back a design to its essential elements, something that requires a clear understanding of the message that has to be communicated and the audience it is to be directed towards.

#### Select only the key message elements as the locus for the design. A compen

An analytical approach appropriated from information technology development, this looks at a design problem from the system perspective and then drills' down

methodological reductionism. The principle states that elements that are not really seeded should be pared back to produce something simpler and in deing so, the risk of infroducing inconsistencies, ambiguities and educularules will be enduced. Ockharr's rezor is also referred to as the



principles in screen.

interior transcriptions or certify

WHAT





Clients, designors and the design

WHAT

These stationery elements form part of an identity created by Paydherbolds Vinger for a career accompaniment and training organization, What 2 Do. What 2 Do aims to encrusage people to step towards different potential careers. Ry incorporating the question. What to do?", the logo design acknowledges the barriers traftits clients will need to overcome. A visual sepresentation in the shape of an arrow shows the way. By outlining a direction, the logo becomes a driver for action.

FUF TOWN

Kay points are explained wittin the cented of an

Design Exponented

Braign thinkings logs d

advocatingement of some of the samers laced by the







Information gathering When conducting research, information can be classified into two categories:

quantitative and qualitative. These help define the size of a target market and its characteristics.

Occarbiation information is numerical pretatistical information that anobles a design team to out physical dimensions to a target market. Total market sales value, annual sales volume and the number of consumers in the 25-30-year-old age-group are all examples of quantitative information.

alitative information allows the design team to understand why things are as they are; the reasons that people reasoned to certain atimuli or not. Qualitative information is typically obtained via face-to-face interviews where participants talk about their experience and preferences for a given topic. This is usually undertaken via a group discussion or focus group, or an in-depth interview with carefully selected individuals.

ulitative and quantitative information can be cotained from reference libraries. but if the information sequired is not available, different surveys can be rmissioned to obtain it. These might include:

Sampling - this collects information from a population sample is order to

represent the whole

Opinion politic – these assess public opinion using sampling

Quantizative market research – this collects data for marketing purposes

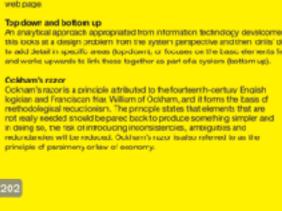
Paid statistical surveys – these reward participants for providing information about

estion aires - these contain a set of questions mnibus surveys - these ask questions in a regular shared monthly survey









#### User-centred design (UGD) places the needs, desires and limitations of the user at the centre of every stage of the design process and requires designers to forecention they are likely to use the resulting product. rgonomics is the practice of designing in accordance with physical human

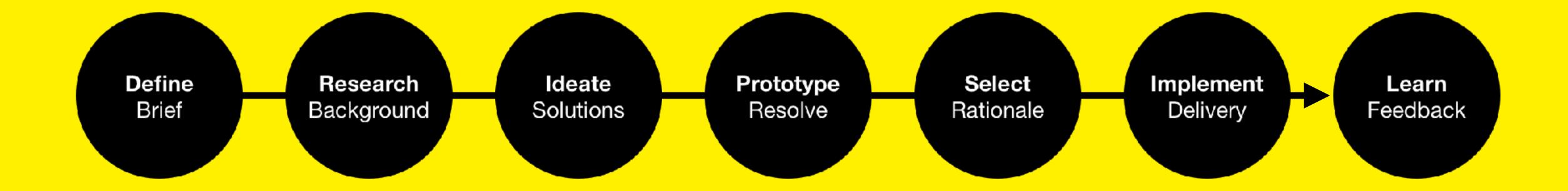
## Design is a process that turns a brief or requirement into a finished product or design solution.

Design is an iterative process and design thinking is present in each stage of the journey from client brief to finished work.

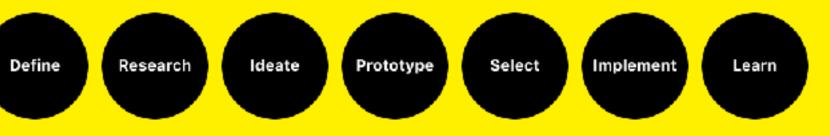
Different solutions can be produced for any given brief and these can differ widely in levels of creativity, practicality and budget.



Within the design process, seven steps can be identified:



## Let's go through each step with examples



## Stage 1 – Define Establishing what the problem is.

This is the first stage in any design process and almost always involves generating or receiving a design brief.

## 1. Define

Define the problem

Question the brief

Reframe and rewrite

Ensures shared understanding

Gets stakeholders/customers/coworkers on the same page

Helps you course correct yourself along the way

#### **Checklist:**

Do you understand what the client is asking for?

Does the client understand what they are asking for?

Do you agree on the definition of terms?

Does the brief have any flaws?

Can you manage client expectations?

#### **Product Overview:** What is the scope of the project?

The web app will function as an online curated marketplace for candidates and companies. Companies can discover and engage with pre-screened and actively looking talent, while talent can compare job offers from selected companies. Also, talent receive guidance and advice from a Talent Advocate of Try Catch as well as the online tutorials / video's / articles in the platform. The platform will need to integrate with the companies' (applicant tracking) systems.

The product design process will entail style, look and feel, branding manual, wireframes, UI/UX, user testing / prototyping (inVision), pixel perfect design, translating these designs in user stories and coordinating with development.

#### **Objective:** What is the product's purpose?

The product enables talent to discover the company they'd like to work for and get hired by these companies. Companies can hire actively looking high quality talent.

#### Target User: Who is going to use this?

Predominantly male computer programmers, ranging from 20 till 45 years old, living in Europe (sometimes America's and Asia) that are open for a new job and adventure in (most of the time) a new country. On the other hand, at the company side, it will be mostly female recruiters, that are responsible for hiring multiple developers per year. These women live in Western Europe, are in their 20s or beginning 30s, communicative, broad social networks and feel important.

#### **Distribution:** Where will it be sold?

Europe for companies, global for talent.

#### End Use: How will this product primarily be used?

By recruiters looking to fill specific roles that they're having a hard time with. By talent that wants a quick and easy solution to see what's available in the market. Eventually this will all be mobile.

#### End Use: How will this product primarily be used?

By recruiters looking to fill specific roles that they're having a hard time with. By talent that wants a quick and easy solution to see what's available in the market. Eventually this will all be mobile.

#### Key Features / Benefits: What features are must haves?

Sign up for both sides.

Rich developer and company profiles.

Ability to track multiple hiring process for candidates.

See matches job < > talent (both sides)

Browse candidates

Integrate with ATS (applicant tracking system) of company

Communicate with Talent Advocate of Try Catch (talent)

Communicate with Account Managers of TC (company)

Notifications (new jobs, new match, interview requests accepted, etc.)

#### **Design Language:** What is the mood / feeling of the design?

Simple, clean, new, trustworthy, joy, exciting, tech. Light and sometimes colorful.

Extremely easy to use, honest in communication and helpful when things are unclear.

#### **Competition:** What other products will it be competing against in the market?

US

Hired.com

Vettery.com

ΕU

Honeypot.io Workshape.io

Freelance

Toptal.com

Upwork.com

- What kind of employer do we want to be?
- What questions do we want applicants to have answered by our web site?
- What do we want to show of DCMN?
- What do we want applicants NOT to concentrate on?
- What kind of company will DCMN be in 9 months when our ideal applicant completes their trial period?
- What kind of applicants do we want to reach?
- What kind of applicants do we NOT want to focus on?
- What is our application process like?
- What other web sites do a good job of communicating similar concepts?
- What other web sites have the kind of look and feel that would work for us?
- What feedback did we frequently get from the old web site?
- What feedback do we now frequently get from the new web site?
- Do we have presentations, social media pages, posters or any other deliverables that do a better job at communicating the important things we should also have on the web site?

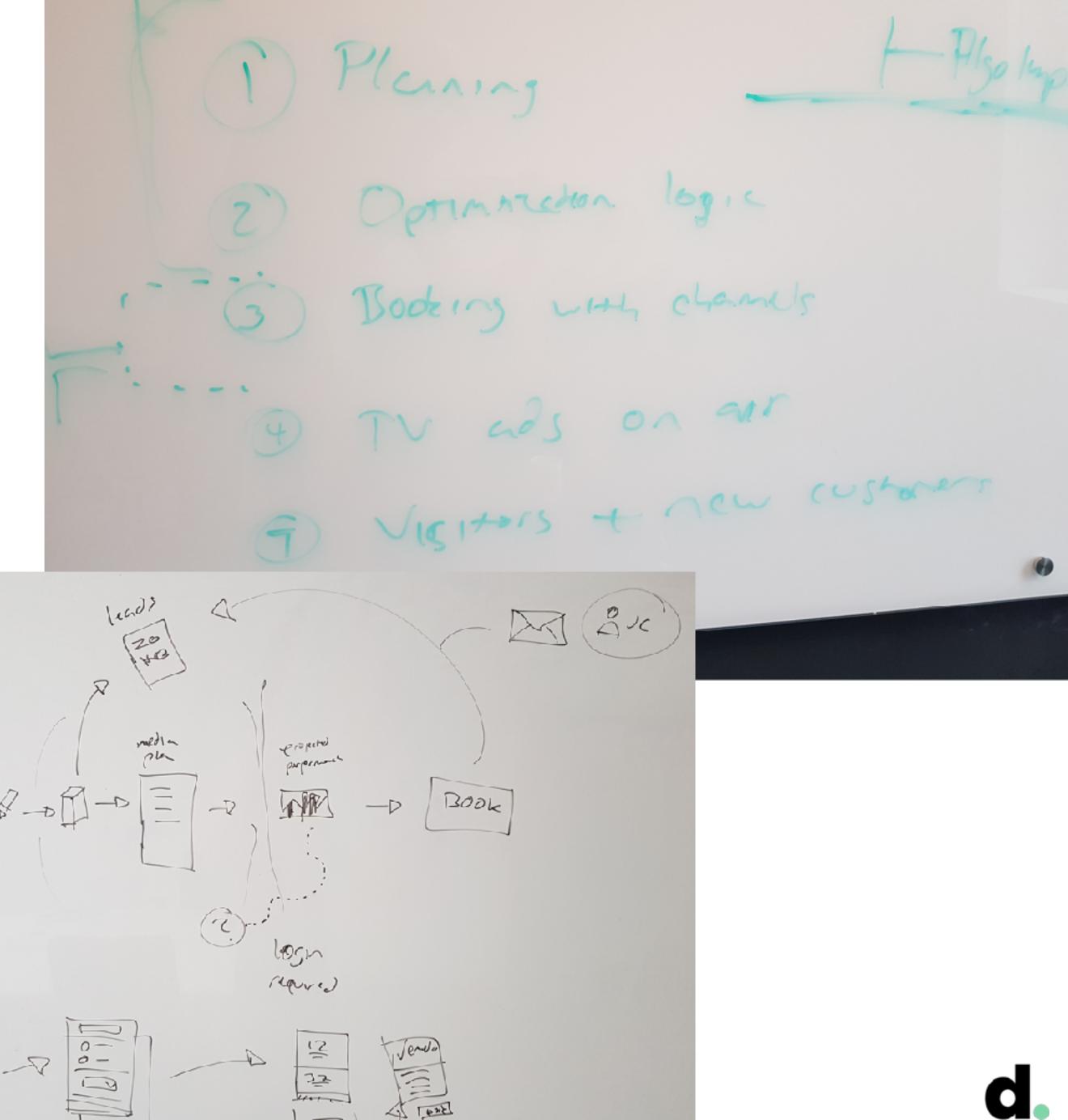
#### **Briefing checklist**

A good brief should explain what problem we're looking to solve, and for whom. It should touch on the following topics:

Who is this for? Who are the users?	Why do our users want this? What's the benefit for them?
Why are we doing this?	
Why is this the most important problem to tackle at this point?	When this is done, how will users' experience be different from before?
What could go wrong when tackling this?	Which metrics do we want to improve with this? E.g. conversion rate, usability, user delight?
Is all of this essential, or could we split this and solve one problem at a time?	What is the root cause? Is it clearly explained in the brief?

WHO - Comparies who are perpornare-diner (AB suice, 1-4m, not projetable, mus à) - ... have never done TU before, grew from digital advertizing - 50-1504 Sudget (or TU Is convinced by personce WHAT Problems one we solving - Saturated site of the will with the country - leg discivit to getsustan) pricing and pl performance numbers for TV X- high minmum Ludger Exaccess to spearl discours & network of Dann Dlone prices WHAT? - Automates (media plening)

Dexpectation of perpormance



## Stage 2 – Research Collecting background information.

Once the brief has been defined and agreed, a designer starts to search for information that can be fed into the creative process at the ideate stage. This research can be either quantitative, with hard statistical numbers about the size and composition of target user groups, or qualitative, with information about what that user group buys or consumes and what their lifestyle is like. It may be pertinent to build a mental model of a typical user in order to enable the design team to obtain a good feel for what would appeal to them. This includes factors such as education, career, holiday destinations, musical tastes, aspirations and so on.

## 2. Research

Understand the problem

Get familiar with the entire problem space

Am I the first one to look at this problem? Probably not

Get some data. Interview people.

Talk out loud, act stupid, be curious

#### Checklist

Do you have feedback from previous projects?

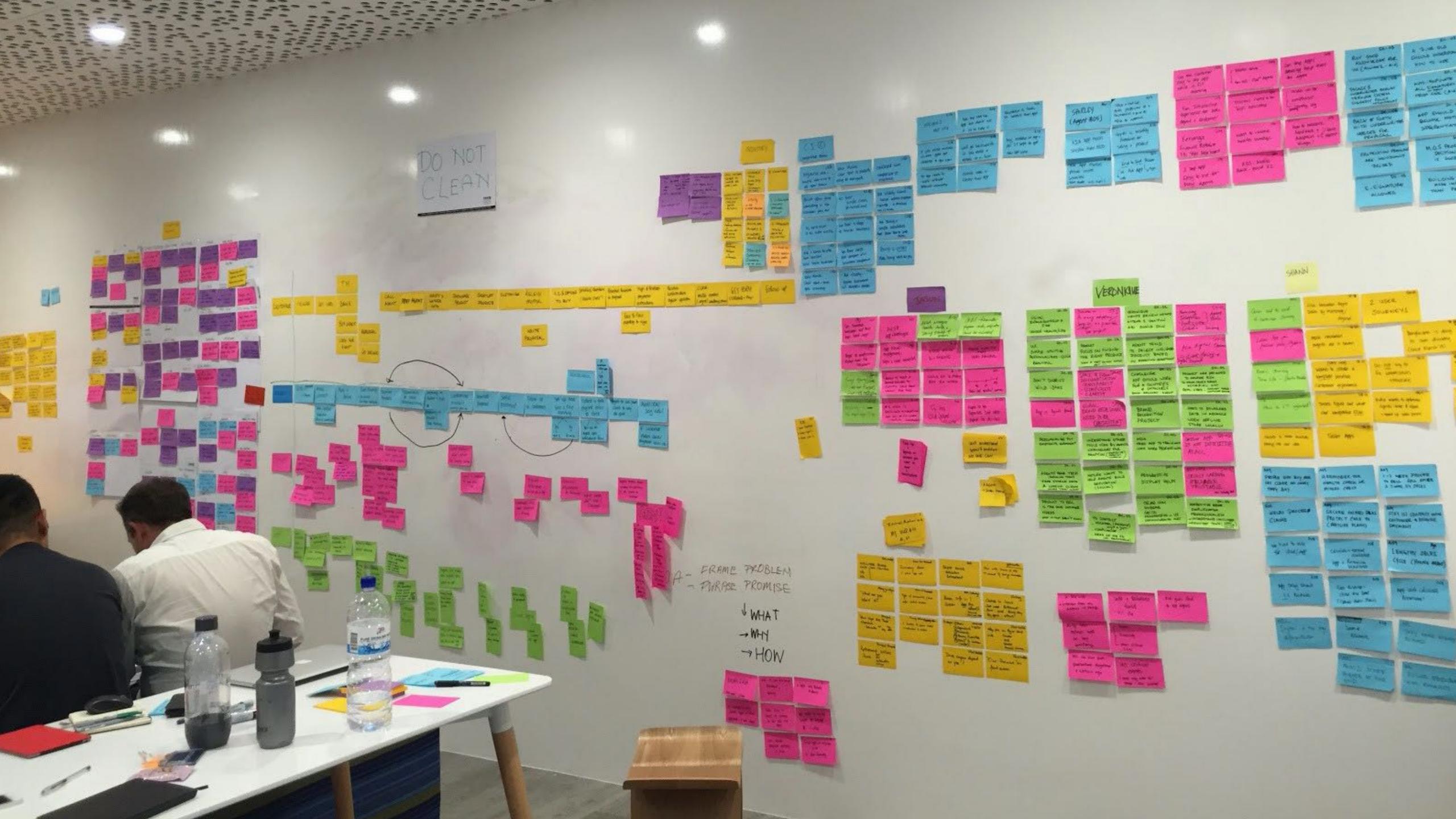
Do you have a statistical composition of the user group?

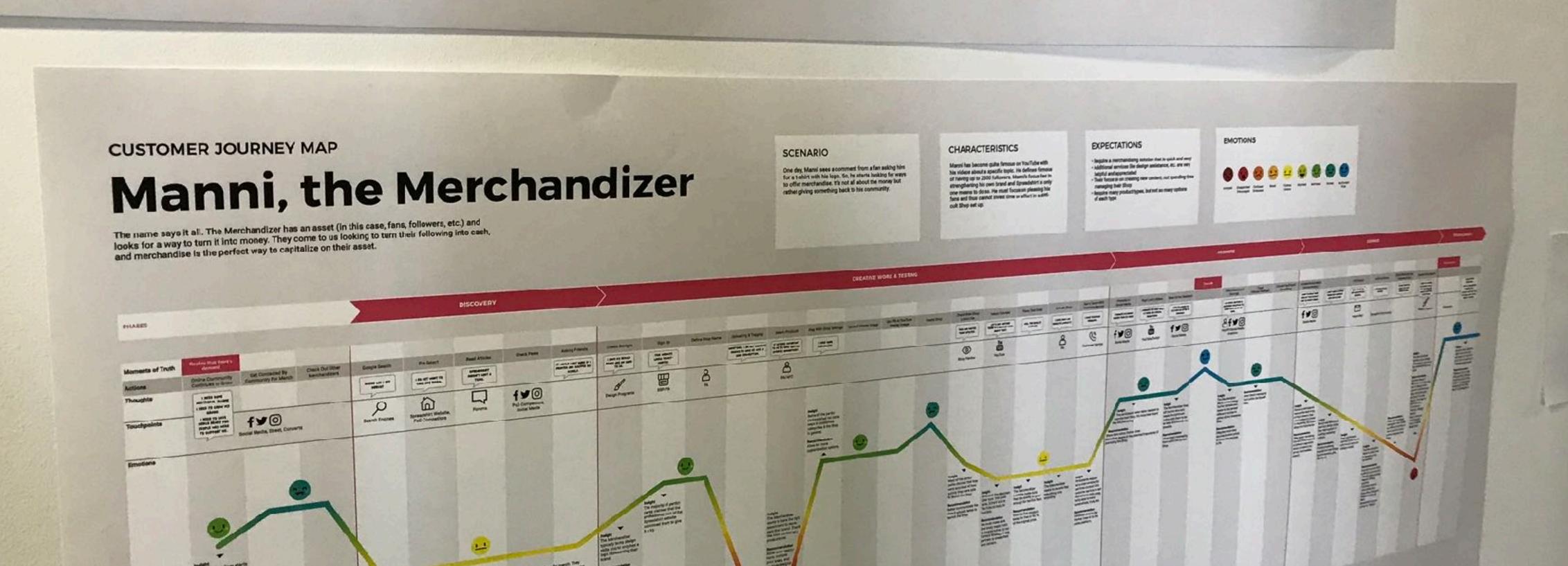
Do you understand the target market?

What is the education level of the user group?

What is the typical lifestyle of the user group?

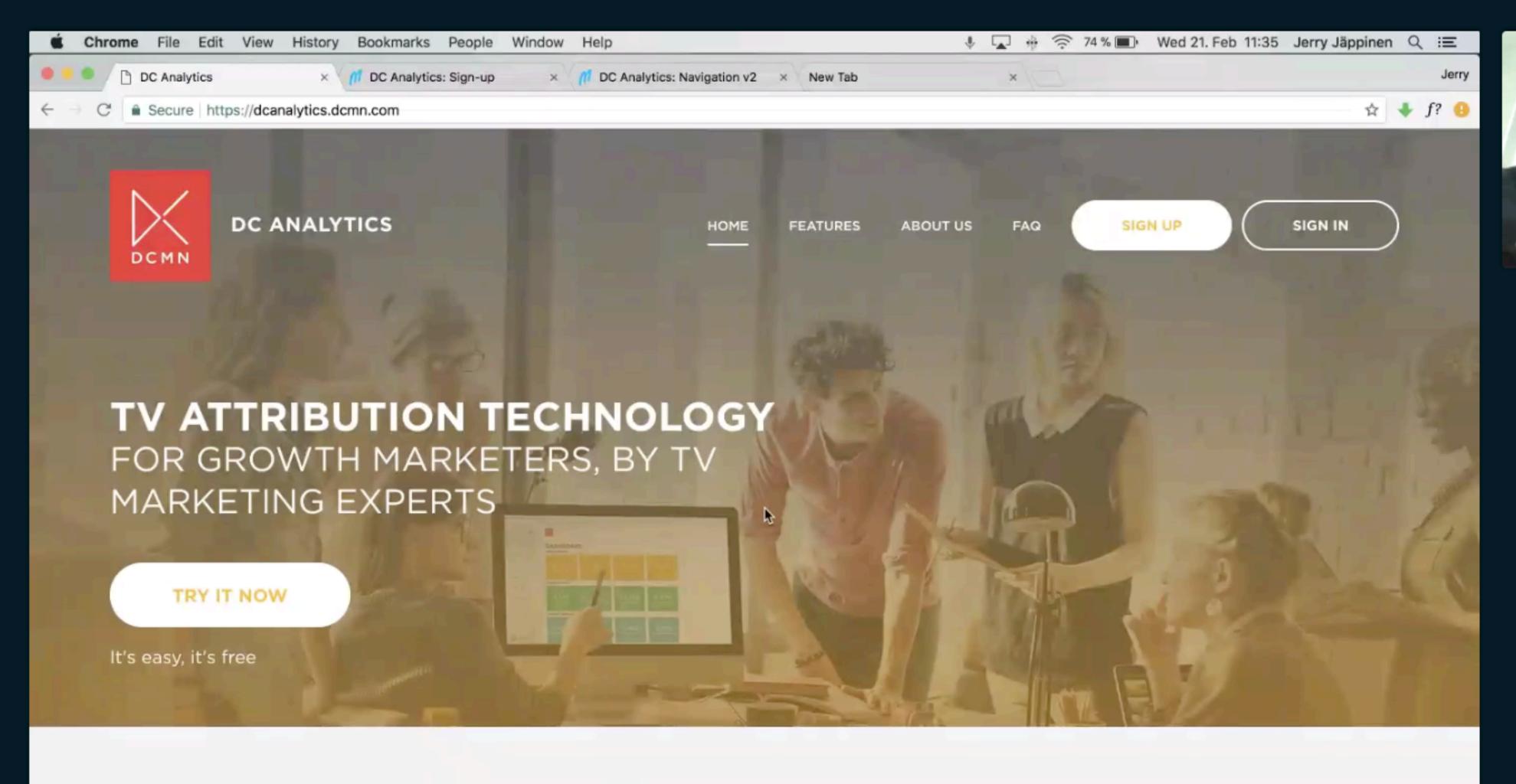
What are the aspirations of the user group?





SpreadSho

Spreadshirt



170+

**DIGITAL CLIENTS SERVED** 

3K+

**CAMPAIGNS RUN** 

30+

COUNTRIES SERVED

7+

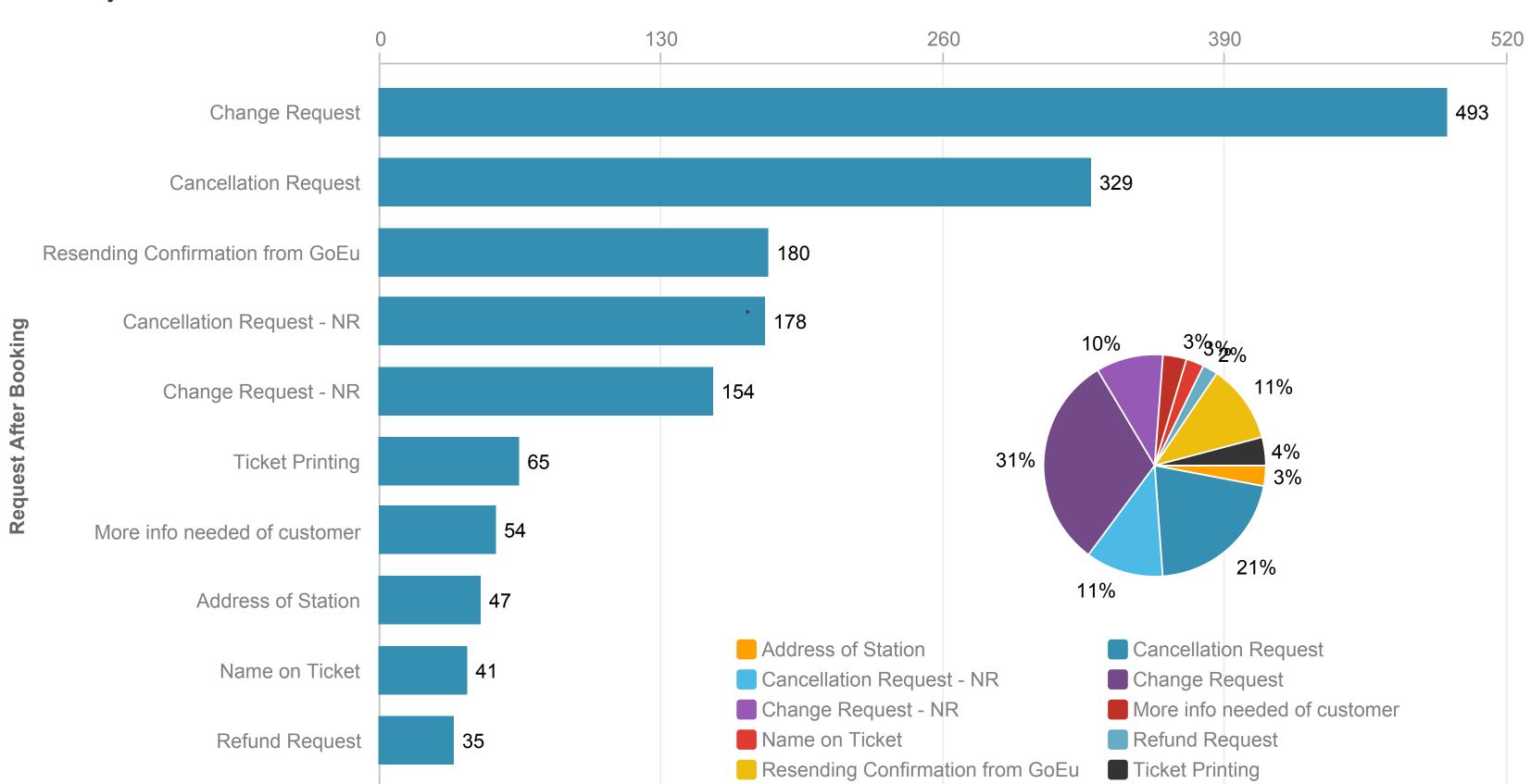
YEARS OF DEVELOPMENT





1,856
# Contacts after booking

#### Last 30 days



#### **Trending Top Ten Topics - Contacts after booking**

Request After Booking	% Δ Last 7 Days 🌲	Last 7 Days	Δ Last 7	% Δ Last 30 Days	Last 30 Days	Δ Last 30	
Address of Station	↑ <b>60</b> %	16	6	↑ 31%	47	11	
Refund Status	<b>↑ 40%</b>	7	2	↓ 5%	20	-1	
Refund Request	↑ <b>11</b> %	10	1	↑ <b>35</b> %	35	9	
More info needed of customer	no change	12	0	<b>↑6%</b>	54	3	
Change Request - NR	↓ 30%	33	-14	<b>† 2%</b>	154	3	
Belgium - Any Station / Domestic Trains	↓ 30%	7	-3	↓ 41%	29	-20	



No article No payment

Stolen credit card info

	Fake bills	Faulty Product	No prod or money	Harassed through chat	Robbed	Personal info	Suspected abuse	No trust on talking to strangers	Unsafe meet up	Trust other's info	Trust other's intentions	Other
TOTAL	5%	17%	22%	7%	3%	7%	2%	3%	8%	9%	4%	13%

No article No payment

Stolen credit card info

Country		Fake bills	Faulty Product	No prod or money	Harassed through chat	Robbed	Personal info	Suspected abuse	No trust on talking to strangers	Unsafe meet up	Trust other's info	Trust other's intentions	Other	TOTAL
AR	Lister	2%	1%	2%	1%	1%	1%	0%	1%	5%	3%	2%	4%	24%
AR	Lister&Replier	2%	7%	4%	2%	1%	2%	1%	0%	3%	4%	1%	2%	28%
AR	Replier	2%	8%	8%	2%	0%	4%	1%	1%	5%	7%	2%	7%	47%
co	Lister	1%	1%	6%	1%	2%	2%	0%	2%	4%	3%	2%	5%	28%
co	Lister&Replier	0%	4%	12%	1%	2%	1%	1%	0%	3%	3%	0%	4%	32%
co	Replier	0%	6%	13%	2%	0%	3%	0%	0%	4%	5%	0%	6%	38%
ID	Lister	2%	3%	8%	1%	1%	2%	0%	0%	1%	1%	0%	6%	27%
ID	Lister&Replier	2%	3%	6%	1%	0%	2%	0%	0%	0%	0%	0%	4%	21%
ID	Replier	4%	12%	16%	2%	0%	3%	1%	1%	2%	2%	1%	11%	54%
IN	Lister	0%	2%	5%	4%	1%	3%	0%	2%	4%	3%	3%	0%	26%
IN	Lister&Replier	2%	6%	4%	6%	1%	2%	2%	1%	2%	3%	1%	2%	32%
IN	Replier	1%	9%	6%	3%	1%	3%	1%	1%	3%	7%	2%	3%	41%
PH	Lister	0%	3%	10%	1%	0%	2%	1%	2%	4%	2%	1%	7%	36%
PH	Lister&Replier	2%	3%	3%	1%	0%	1%	0%	0%	2%	1%	1%	4%	18%
PH	Replier	0%	8%	13%	2%	1%	3%	1%	1%	5%	5%	2%	8%	49%
PK	Lister	0%	2%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	5%
PK	Lister&Replier	0%	0%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	2%
PK	Replier	0%	1%	0%	0%	0%	0%	0%	0%	1%	0%	1%	0%	4%
TOTAL	Lister	1%	2%	6%	2%	1%	2%	0%	1%	3%	2%	2%	3%	26%
TOTAL	Lister&Replier	2%	4%	5%	3%	1%	2%	1%	1%	2%	2%	1%	3%	25%
TOTAL	Replier	2%	9%	10%	2%	1%	3%	1%	1%	3%	5%	1%	6%	43%



## Stage 3 – Ideate Creating potential solutions.

During the ideate stage, the design team draws on the research gathered and the constraints established during the define stage. This information is used to create ideas with which to tackle the design brief.







Select

Impleme

#### Learn

## 3. Ideate

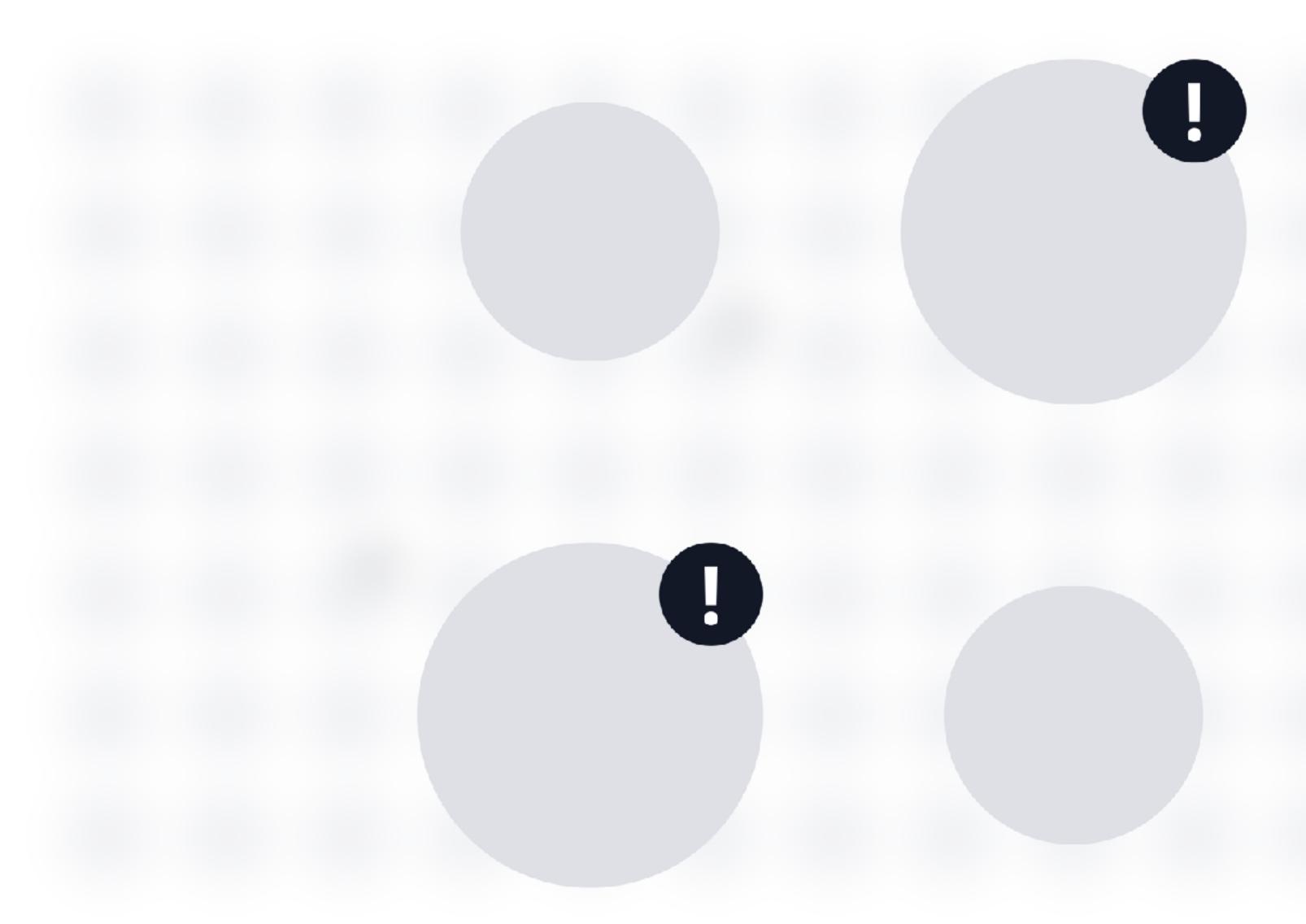
Be creative

Be analytical

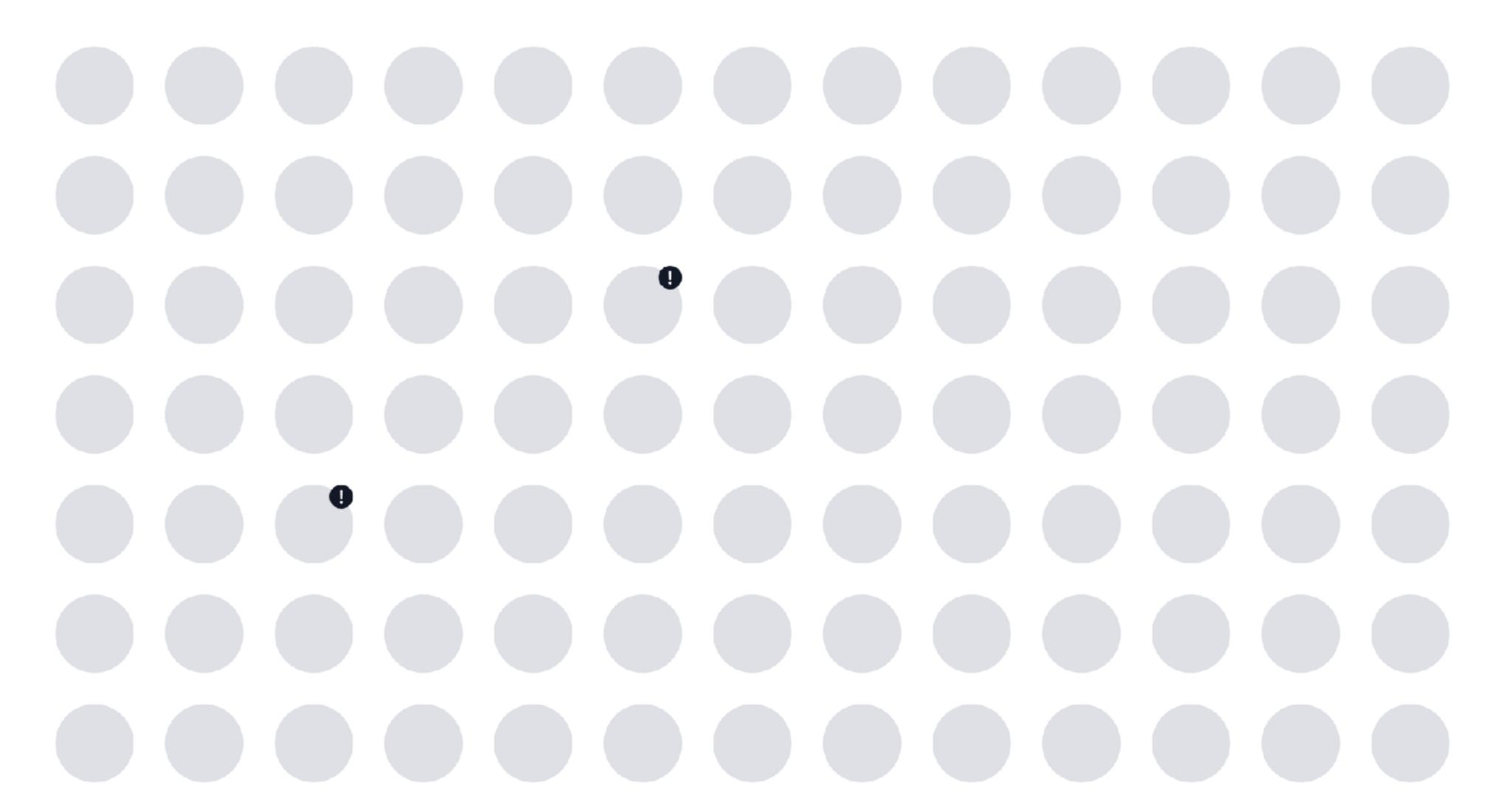
Steal ideas

Generate ideas

Don't censor ideas









#### **Checklist:**

Do you understand the brief?

Do you have sufficient research information?

Which methods will be used for idea generation?



### Stage 4 – Prototype Resolving solutions.

The ideate stage generates a variety of potential solutions to the design brief. Prior to selection, it may be necessary to further work up the most promising of these solutions. This will allow particular aspects to be tested and will provide a better basis for comparison at the selection stage. In such cases a prototype can be created.

## 4. Prototype

"Build a facade of the experience"

Time to fail!

Test your most promising ideas

Don't fall in love; discover what works

Remember status quo vs desired state?

you're trying to mock up the desired state in comparison to status quo

Use Marvel, 3D printer, a survey, PowerPoint... anything goes

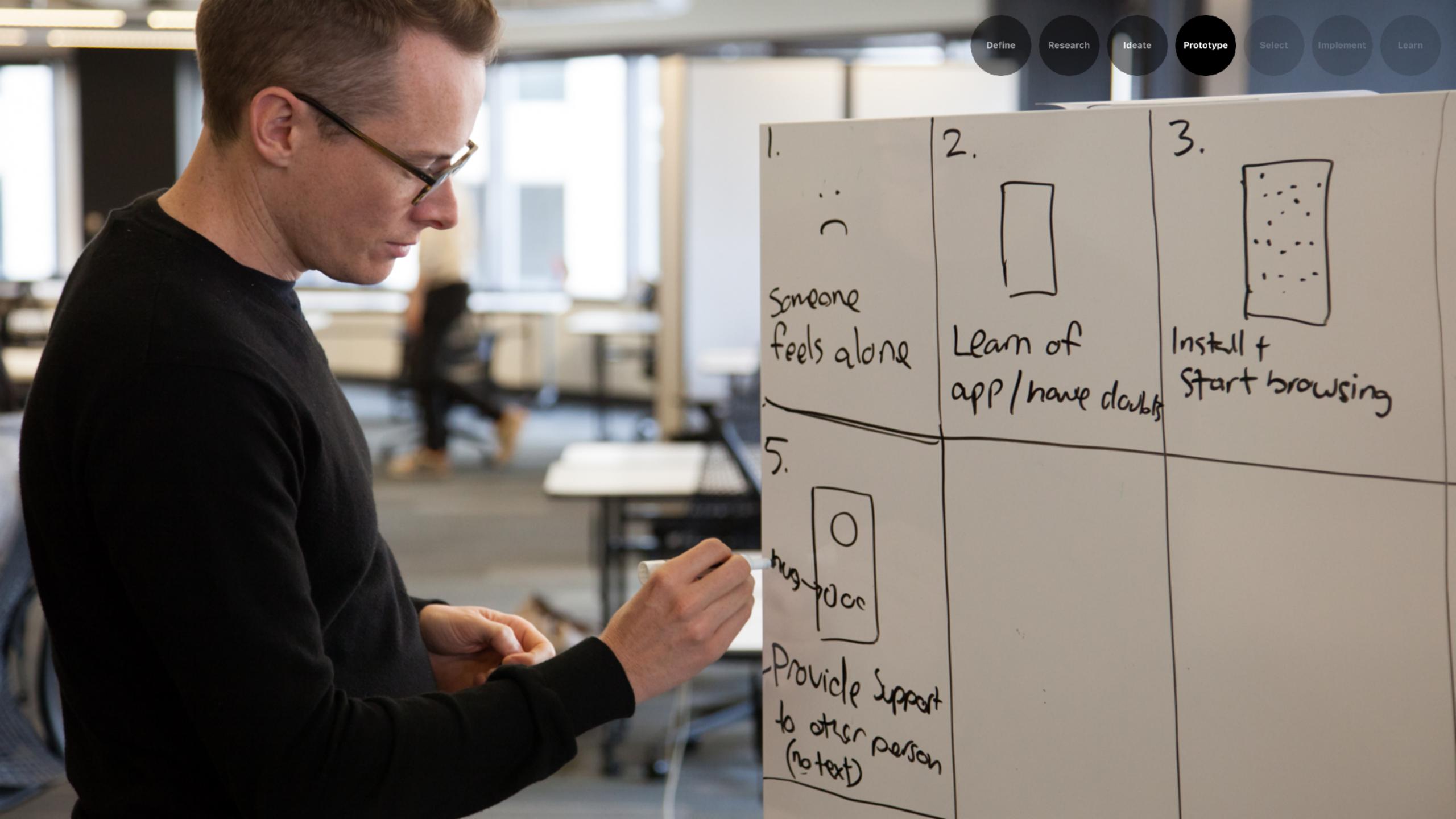
### Checklist: Are all potential solutions worth even prototyping?

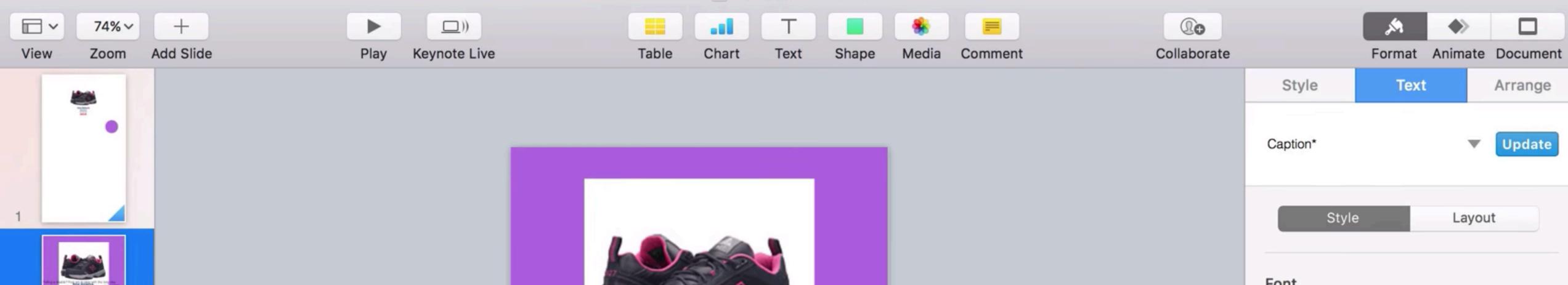
Do all potential solutions require prototyping?

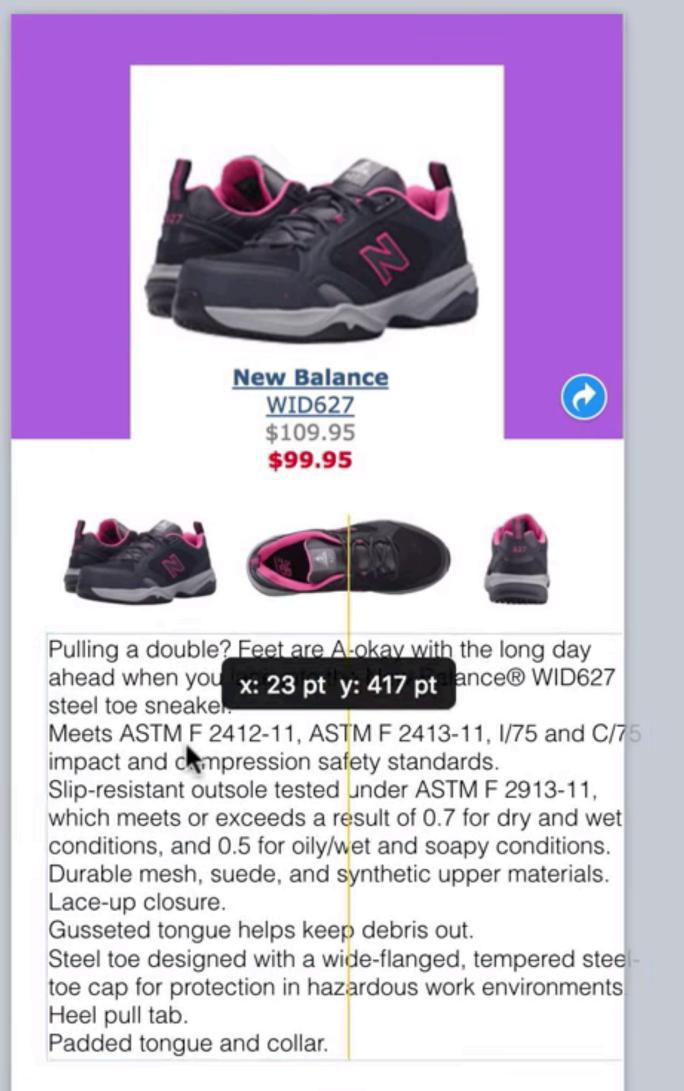
What elements will the prototype test?

What functionality will the prototype have?

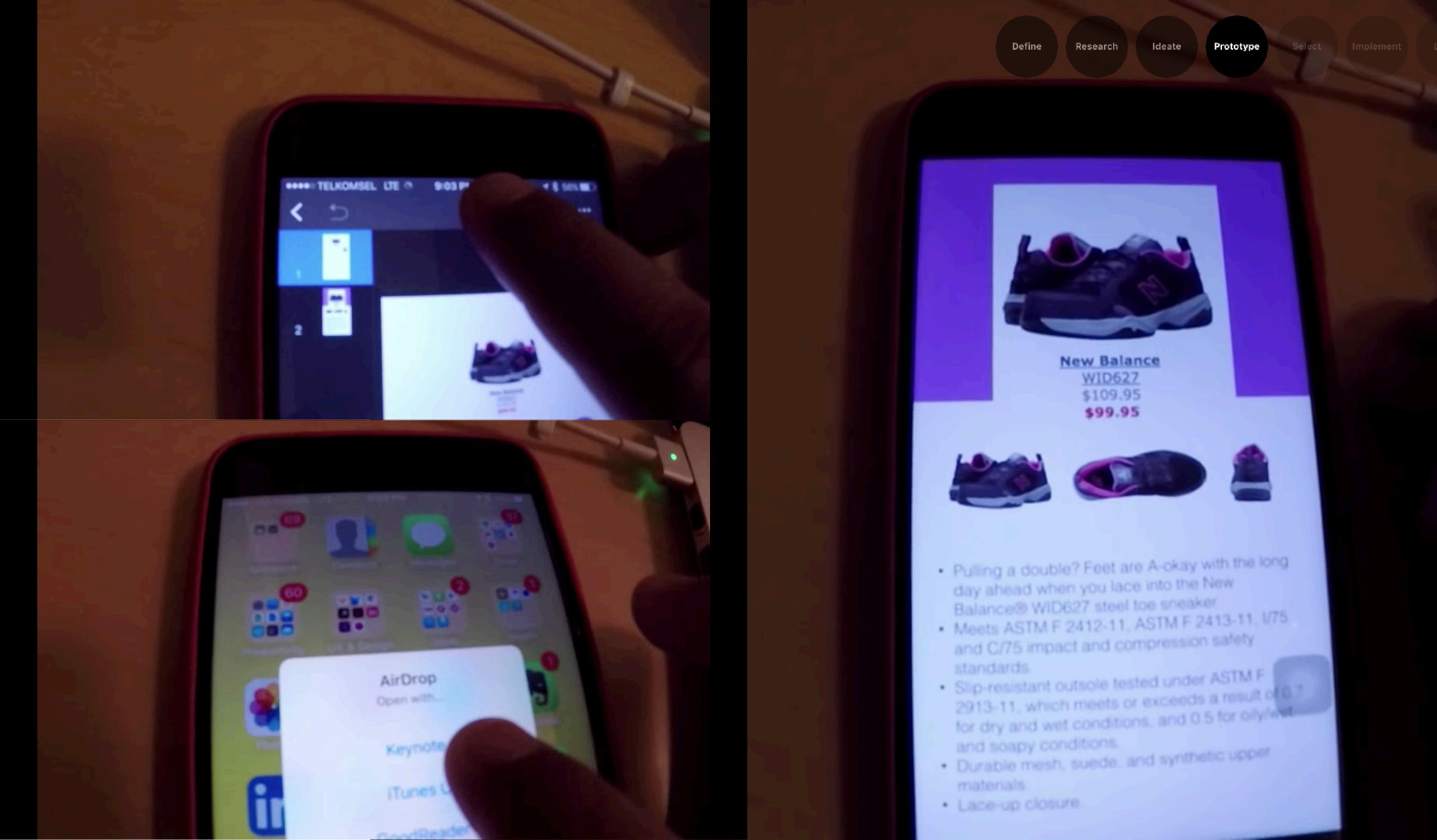








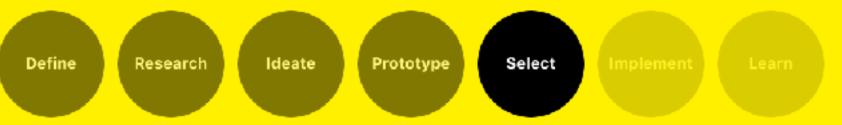




# Now, on to people's favourite place to start



For god's sake don't start here



## Stage 5 – Select Making choices.

The select stage is the point at which one of the proposed design solutions is chosen for development. The key decision criterion is fitness for purpose: does the design meet the needs and goals of the brief, and will it effectively communicate to the target audience to achieve those aims? The winning design is typically that which most closely meets the design brief, or a significant part of it. It may not be possible or desirable to meet all the requirements of a brief within a single design. For example, market segmentation increasingly calls for different marketing and design solutions for different segments.

## 5. Select

Now is the time to pick one over the others

You've now gained intimate knowledge on problem space

As well as solution space

- how different solutions perform
- how difficult they are to implement
- what problems you didn't think of before prototyping

Go back to your problem definition and use all available data and understanding

Be tough also on your favourite ideas (They might get their time to shine some other day)

### **Checklist:**

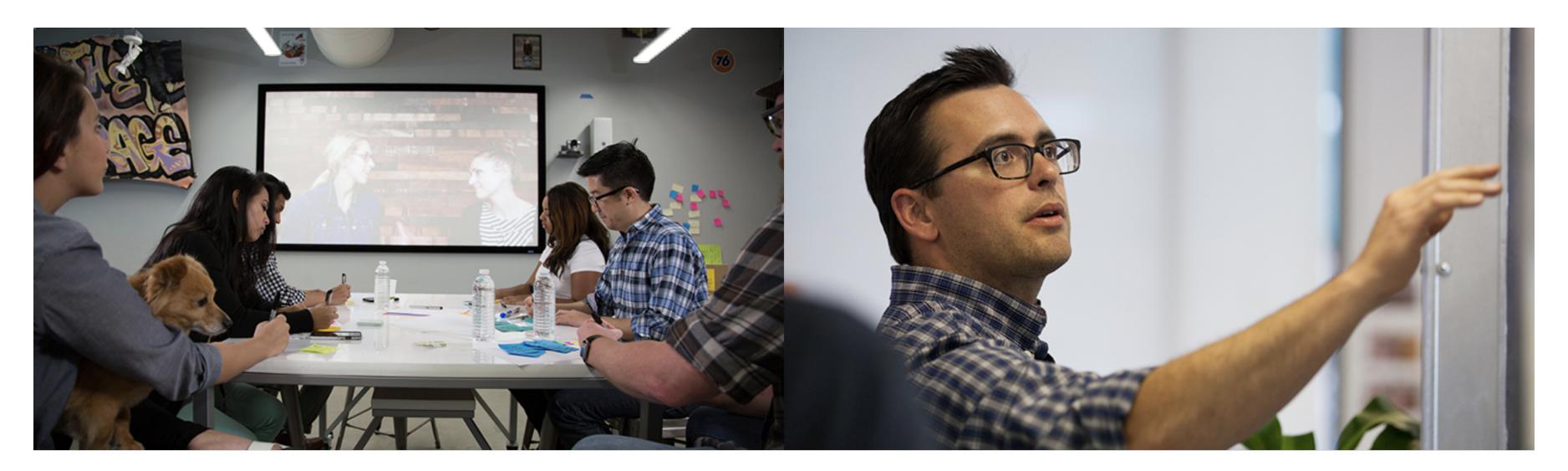
Does the design meet the defined needs of the brief?

Does the design resonate with the target audience?

Can the design be produced on time and on budget?

Are there other factors to take into account?

Has the client signed off the design?

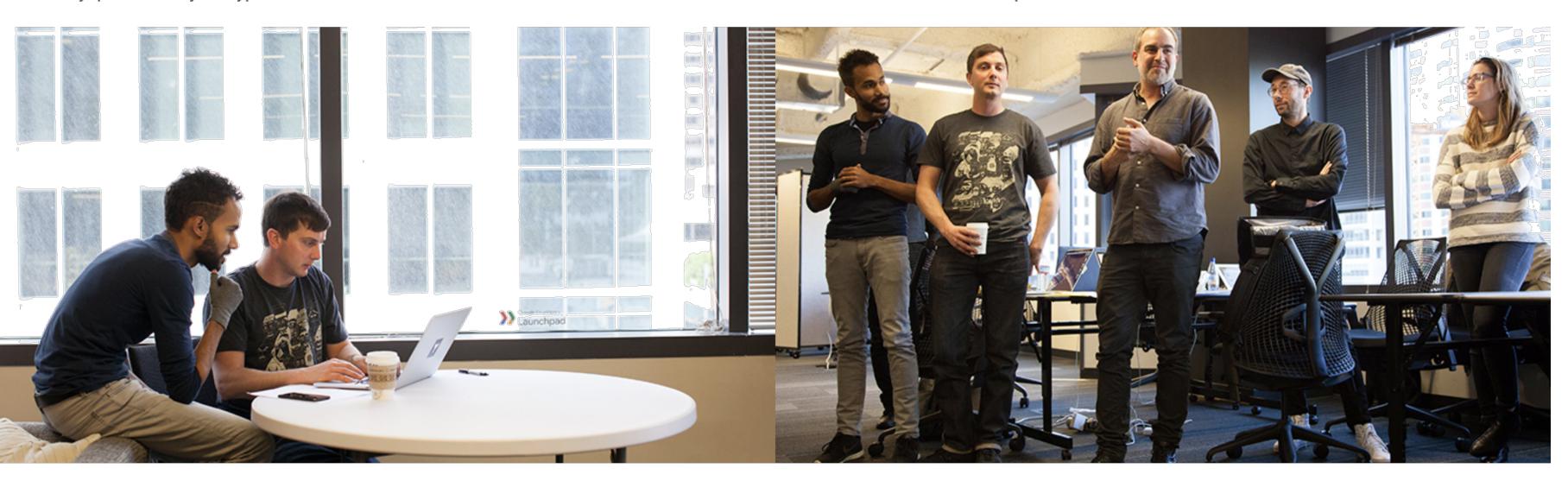


**Usability Study** 

Test key questions in your hypothesis

Stakeholder Review

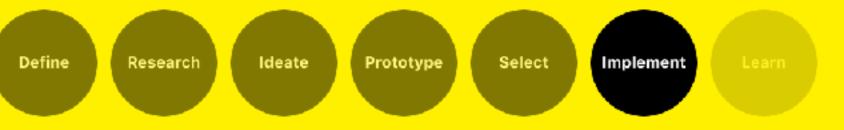
Get feedback from leadership



**Technical Review** 

Make sure it can be built

Sprint Conclusion: Recap and Next Steps



## Stage 6 – Implement Delivering the solution to the design brief.

During this stage, the designer passes the design artwork and format specifications to those who will be supplying the final product. This might be a printer, web builder or fabricator. This moment provides a good opportunity to confirm the production specifications such as print quantity and what you expect to receive. For example, a printer is usually given some leeway to account for set-up in the different steps of the the print process. This means an order for 100 flyers may not result in the receipt of 100. It may be more or may be less. By double-checking, everyone is clear about the level of expectation, and what the client expectations are.











### ement

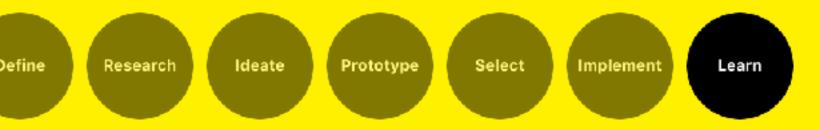
## 6. Implement

Get it done

Stay focused

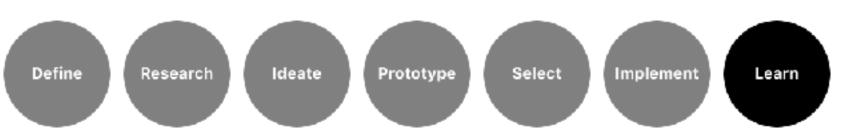
Pay attention to detail





### Stage 7 – Learn Obtaining feedback.

The final stage in the process involves learning from what has happened throughout the design process. This is a feedback stage during which the client and design agency might seek to identify what worked well and where there is room for improvement.



## 7. Learn

How did we identify the problem in the first place? Is it now resolved, did we actually solve the problem??

Are stakeholders happy with the results?

What could be improved?

Do we need another iteration round?

Did we find new issues to work on?



## 

## Idea generation

# Today we will ideate a new oroduct

# Choose a problem for your team

## We're at step 3

We have already identified, defined and gained intimate knowledge about a problem

# But you don't know the solution

# Take one A4 Fold it in half 3 times Give me 8 ideas You have 6 minutes

# Pitch your ideas within teams: max 20 sec per idea

Review and find your team's most effective idea based on fitness for purpose in 4 minutes

Take one solution Develop a product pitch Draw a storyboard from user perspective A4, 8 steps, 10 minutes

## Present!

# What would you do next?

# That's right: prototype!!!

# Another day though

## Break.

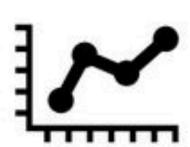


# Interpretations of design thinking



#### **EXAMINE**

Dig into the problem. Look at the history, the context, the objects, and (most importantly) the people involved.



#### UNDERSTAND

Go deeper and find patterns. Establish open questions to build on.



#### IDEATE

Have lots of ideas, good and bad. Don't stop at the obvious or the impossible.



#### **EXPERIMENT**

Try some things out. Make some things. Fail cheap and fast.



#### DISTILL

Strip your solution down to the essentials and tell the story to others.



Empathize

Define your client's pain







### 



**Empathize** THE HEART OF DESIGN





**Define** REFRAME THE PROBLEM





Ideate **BEYOND BASIC BRAINSTORMS** 





**Prototype GET SMARTER, FASTER** 





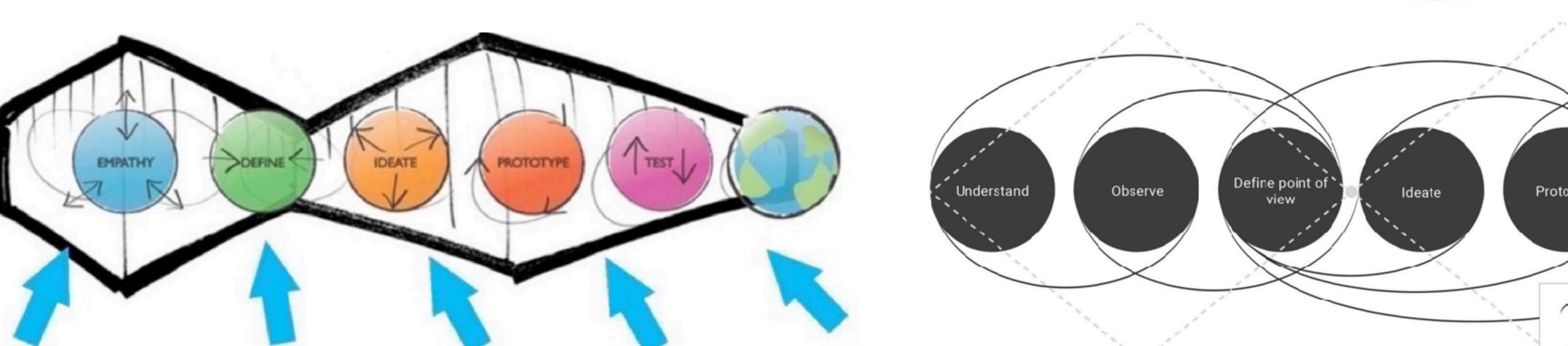
**Test EARLY AND OFTEN** 



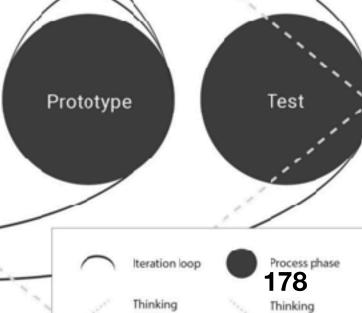
Prototype





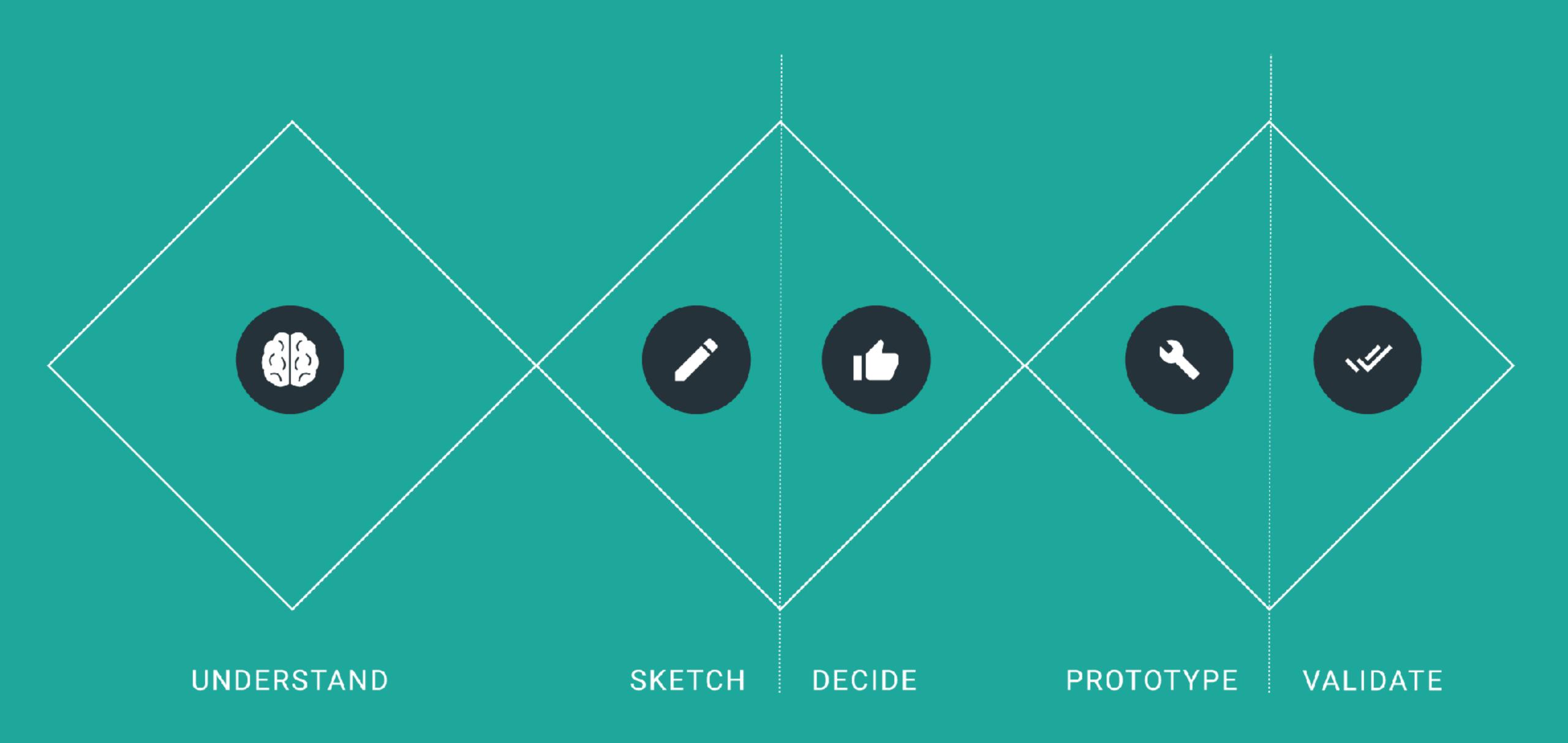






mode:

mode:



1

2

PROBLEM SPACE SOLUTION
SPACE

UNDERSTAND
THE PROBLEM

FIND A SOLUTION TOGETHER

Early feedback from

customers

\_

Continuous

Improvement

\_

Eliminate Waste

\_

Do the RIGHT thing. Not do the thing right.

\_

Early validation of assumptions

\_

Focus on outcome, not output

\_

Maximize business

value

Small slices of

value for the customer

—

Stop starting. Start

finishing.

**MVP** Mindset

\_

Learning culture

\_\_

Stop and reflect

\_

Get early feedback

\_

Fail early and often

\_

Work at a sustainable pace

—

Work with constraints:

timeboxes, Work in

Progress limits

\_

Working collaboratively, iteratively, in parallel

\_

Cross-functional & co-located teams

—

Transparency

\_

Avoid Handoffs

\_

\_

Early feedback from customers

\_

Continuous Improvement

\_

Eliminate Waste

\_

Do the RIGHT thing. Not do the thing right.

\_

Early validation of assumptions

\_

Focus on outcome, not output

\_

Maximize business value

\_

Small slices of value for the customer

\_

Stop starting. Start finishing.

\_

**MVP Mindset** 

\_

Learning culture

\_

Stop and reflect

\_

Get early feedback

\_

Fail early and often

\_

Work at a sustainable pace

—

Work with constraints: timeboxes, Work in Progress limits

\_

Working
collaboratively,
iteratively, in
parallel

\_

Cross-functional & co-located teams

—

Transparency

\_

Avoid Handoffs

\_

\_

Early feedback from customers

\_

Continuous Improvement

\_

Eliminate Waste

\_

Do the RIGHT thing. Not do the thing right.

\_

Early validation of assumptions

\_

Focus on outcome, not output

\_

Maximize business value

\_

Small slices of value for the customer

\_

Stop starting. Start finishing.

\_

**MVP** Mindset

\_

Learning culture

\_

Stop and reflect

\_

Get early feedback

\_

Fail early and often

\_

Work at a sustainable pace

\_

Work with constraints: timeboxes, Work in Progress limits

\_

Working collaboratively, iteratively, in parallel

\_

Cross-functional & co-located teams

—

Transparency

\_

**Avoid Handoffs** 

\_

Early feedback from

\_

Continuous Improvement

customers

\_

Eliminate Waste

\_

Do the RIGHT thing. Not do the thing right.

\_

Early validation of assumptions

\_

Focus on outcome, not output

\_

Maximize business value

\_\_\_

Small slices of value for the customer

Stop starting. Start finishing.

\_

**MVP Mindset** 

\_

Learning culture

\_

Stop and reflect

\_

Get early feedback

\_

Fail early and often

\_

Work at a sustainable pace

\_

Work with constraints: timeboxes, Work in Progress limits

\_\_

Working collaboratively, iteratively, in parallel

\_

Cross-functional & co-located teams

\_

Transparency

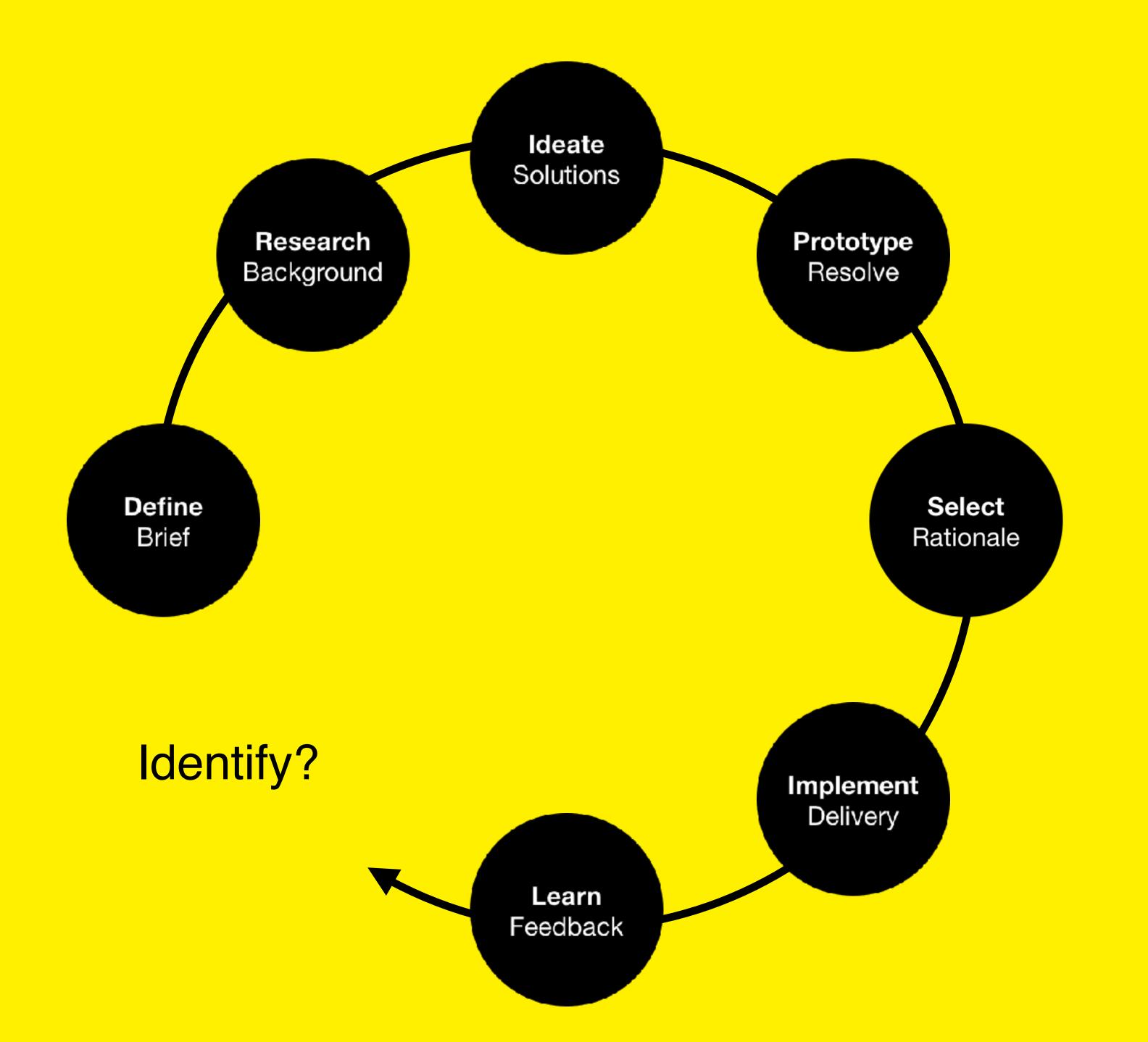
\_

**Avoid Handoffs** 

\_

## The general mindset remains the same

## How do we identify the problems we



## Design thinking teaches you how to solve a problem right

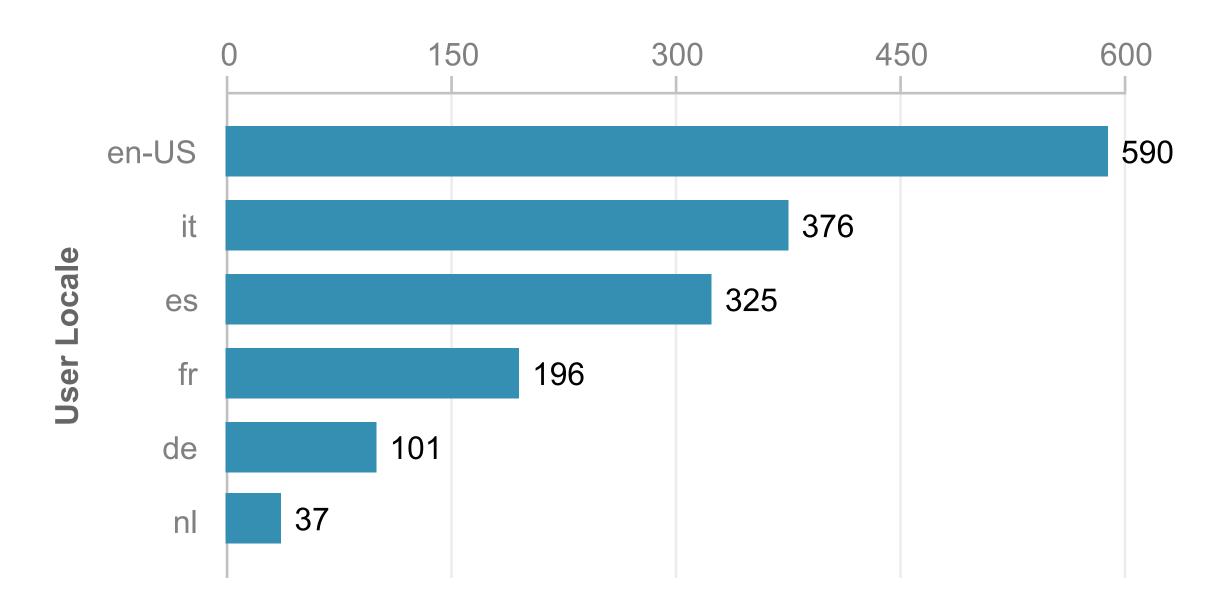
## How do we know we're solving the right problem?

Share of categories by incident type (weighted by country)								
Prob_segmen Mobil Vehic Electr Other Jobs a Property No/Blank								
Incident	42%	13%	19%	16%	5%	4%	0%	
Intent	26%	26%	20%	14%	5%	4%	5%	
Perception	18%	20%	5%	5%	5%	5%	41%	

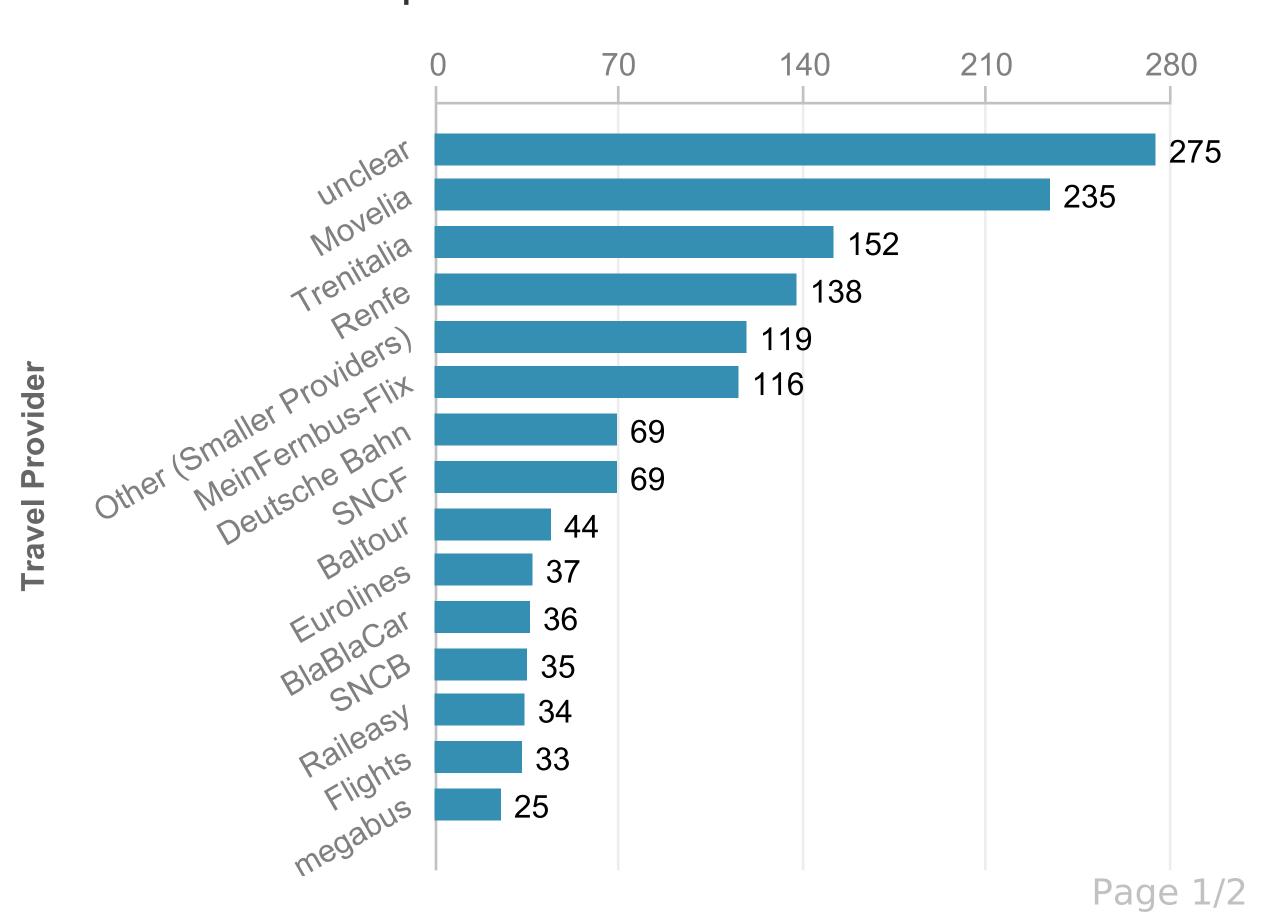
Share of categories by incident type								
Count of Unique_sk		<b>Cat ▼</b>	l					
Country	Prob_segm <sub>-▼</sub>	Mobil	Vehic	Electr	Other	Jobs a	Property	No/Blank
□ AR	Incident	30%	1 <b>2</b> %	28%	25%	4%	0%	0%
AR	Intent	18%	34%	19%	15%	4%	4%	6%
AR	Perception	6%	14%	2%	4%	2%	2%	71%
□ CO	Incident	35%	14%	17%	25%	8%	2%	0%
CO	Intent	13%	23%	19%	31%	7%	2%	5%
СО	Perception	10%	17%	4%	1%	6%	10%	53%
□ <b>ID</b>	Incident	39%	19%	16%	20%	2%	4%	0%
ID	Intent	26%	36%	17%	11%	1%	5%	3%
ID	Perception	21%	30%	2%	4%	2%	2%	40%
	Incident	54%	10%	15%	10%	8%	4%	0%
IN	Intent	31%	22%	20%	10%	8%	4%	6%
IN	Perception	21%	1 <b>7</b> %	7%	5%	9%	9%	33%
□ PH	Incident	19%	13%	37%	25%	1%	5%	0%
PH	Intent	22%	12%	32%	24%	1%	3%	6%
PH	Perception	13%	10%	14%	10%	4%	3%	48%
□ PK	Incident	43%	12%	27%	7%	6%	5%	0%
PK	Intent	27%	20%	25%	15%	7%	3%	2%
PK	Perception	13%	15%	9%	12%	9%	3%	40%

Bike Policies	<b>↑ 56%</b>	14	5	<b>† 4%</b>	56	2
Group Booking	↑ <b>25</b> %	10	2	↓ 22%	52	-15
Can I buy at the station?	↑ <b>23</b> %	16	3	† 113%	66	35
More info needed of customer	† <b>19</b> %	19	3	↓ 16%	85	-16
Address of the Station	no change	26	0	<b>† 20%</b>	107	18
Payment Options	no change	9	0	↓ 2%	40	-1
Age of Travellers	↓ 19%	13	-3	↑ <b>7</b> 6%	51	22

#### **Contact Languages**



#### **Provider Distribution - Top 15**



## Decision-making

### What really matters?

Treat decision-making as identifying what works best for a given problem

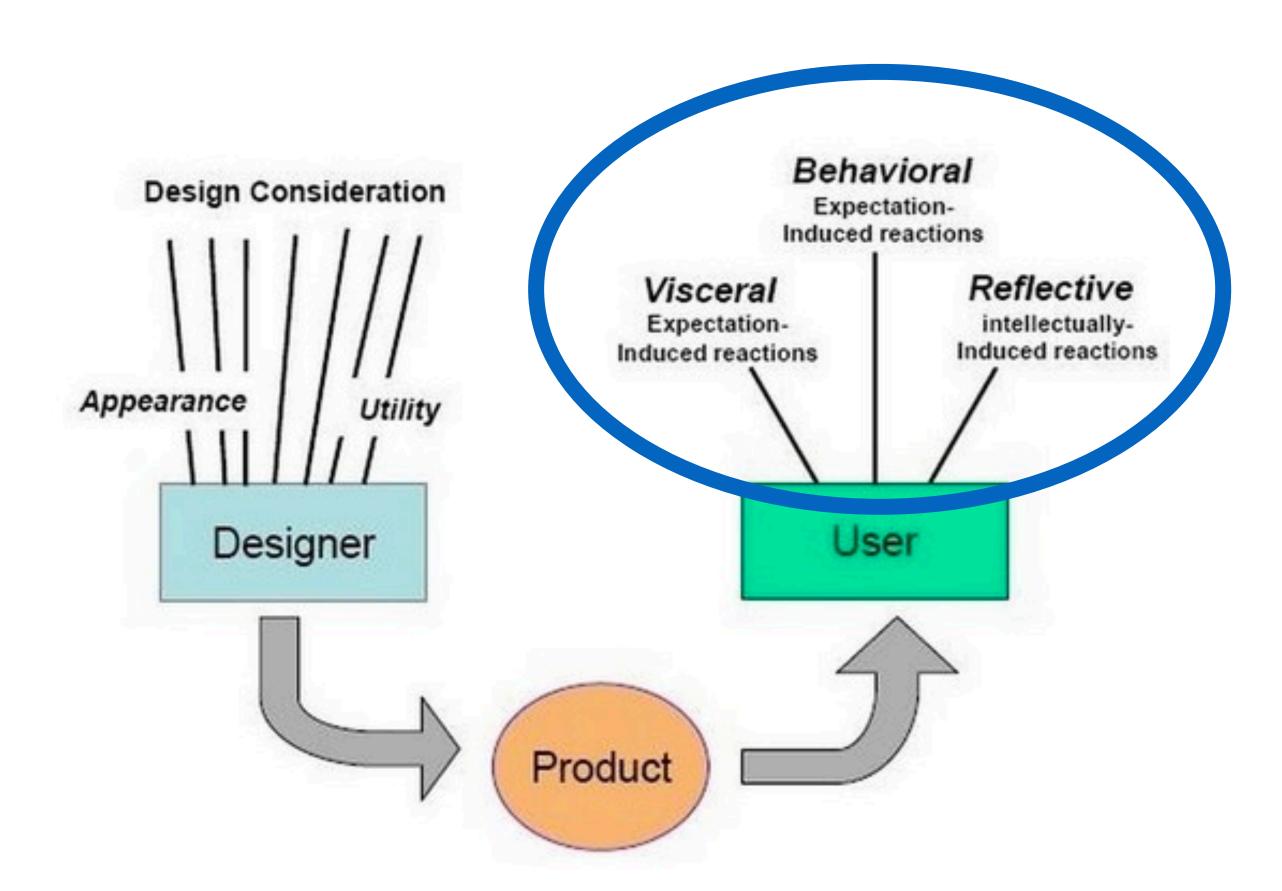
Reach consensus by demonstrating what works

Just because 80 % people in your team voted for something doesn't mean it solves users' problem

Just because your boss likes something it doesn't mean it solves users' problem

A product developer who goes by opinion, their own or someone else's, is an irresponsible one

#### What is your discussion culture?



"Hike it"

"Andi likes it"

"I think it works"

"Does this work?"

"Does my user think it works?"

"Can we test if it works for her?"

# When discussion culture fails

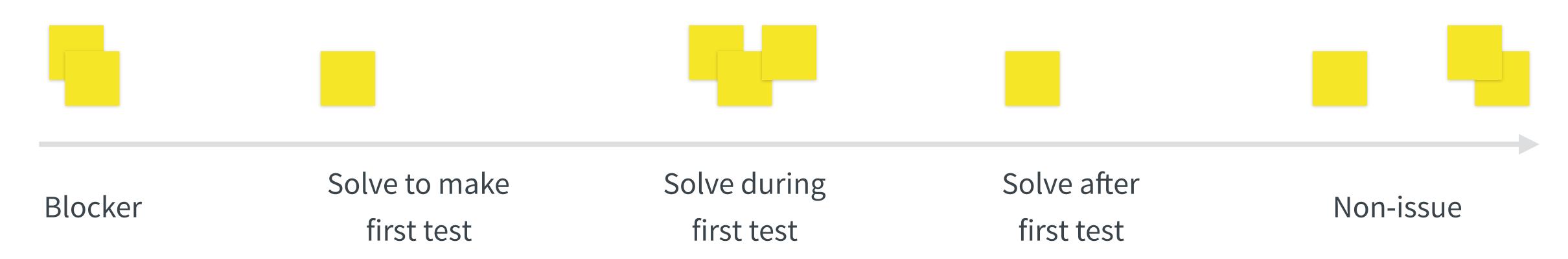
### Paralysis by analysis

Collect all the potential issues and worries

Let each individual write as many as they wish, in peace

Distribute them along this scale

Try as hard as you can to put items as far to the right as possible



### Timeboxing

### How many cans and bottles of Coca Cola products will be consumed in the US next year?

MIN ANSWER	
DAY APPROACH	
WEEK APPROACH	



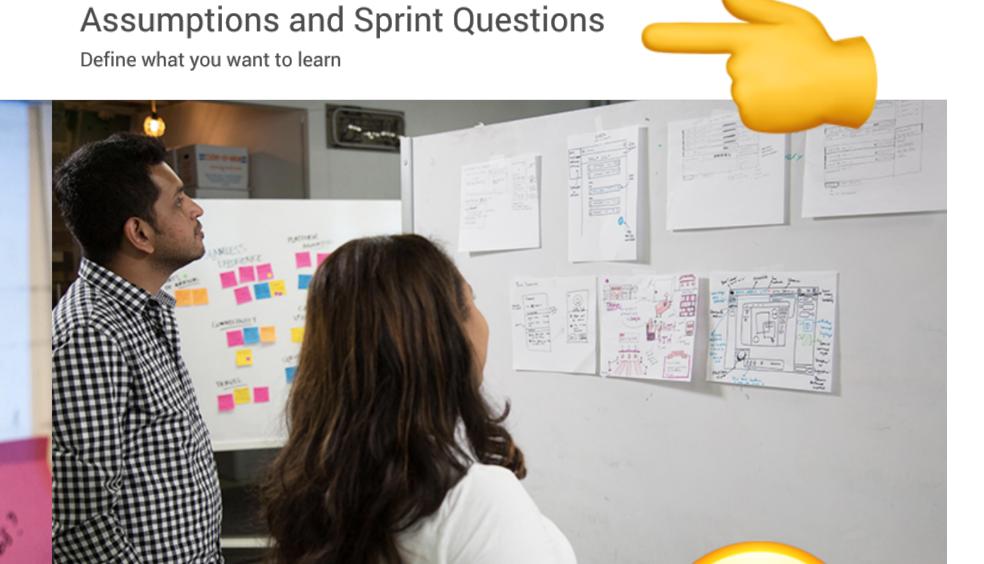


TODAY TOMORROW FRIDAY S

SEE 5 MORE

Share your concept to the team

MAP

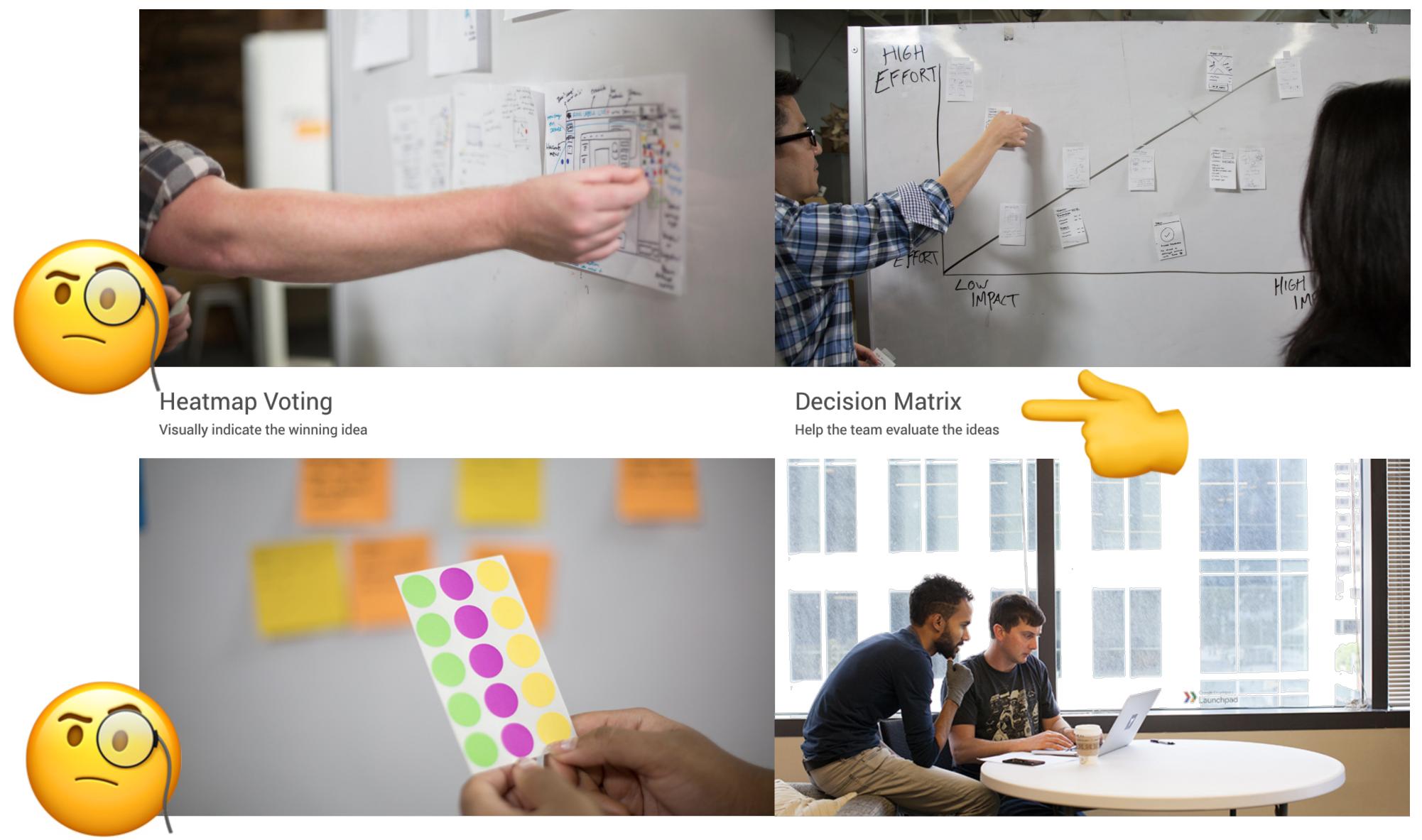


Vote and Select a Direction

Decide what you will build for your prototype

Alternate: Silent Review and Vote

For ideas that can stand on their own



Note & Vote
Combat group think or follow the leader

Technical Review

Make sure it can be built

## Everyday mindset

#### Do it vs not do it

#### Do it <del>vs not do it</del>

#### Focus of everyday conversations

Separate problems from solutions

Accept multiple possible solutions

Discovery over creativity

Testing over argumentation

What works, works

Your users won't change: empathise and reorient yourself

# Embrace mindset Build from there

# Implementing design thinking

#### What about real life?

## What do I actually do in each step?

There is no one answer to this

But designer's toolbox looks like this:

http://www.designkit.org/methods



## Design sprint

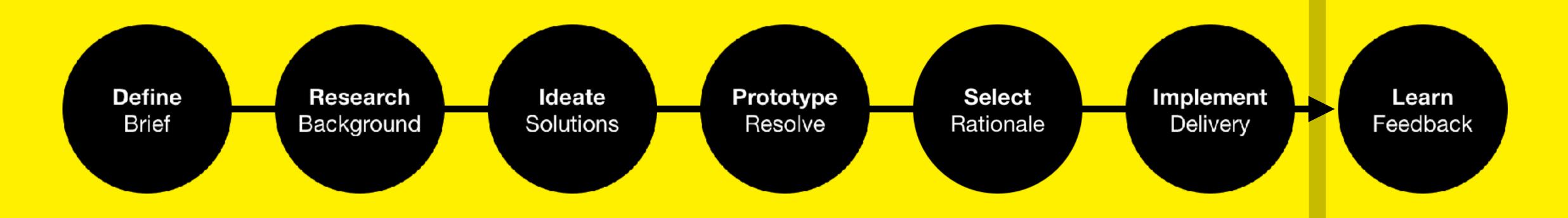
Design thinking approach distilled into an intensive 3-day sprint

http://www.gv.com/sprint/

Practical tips on methods and steps:

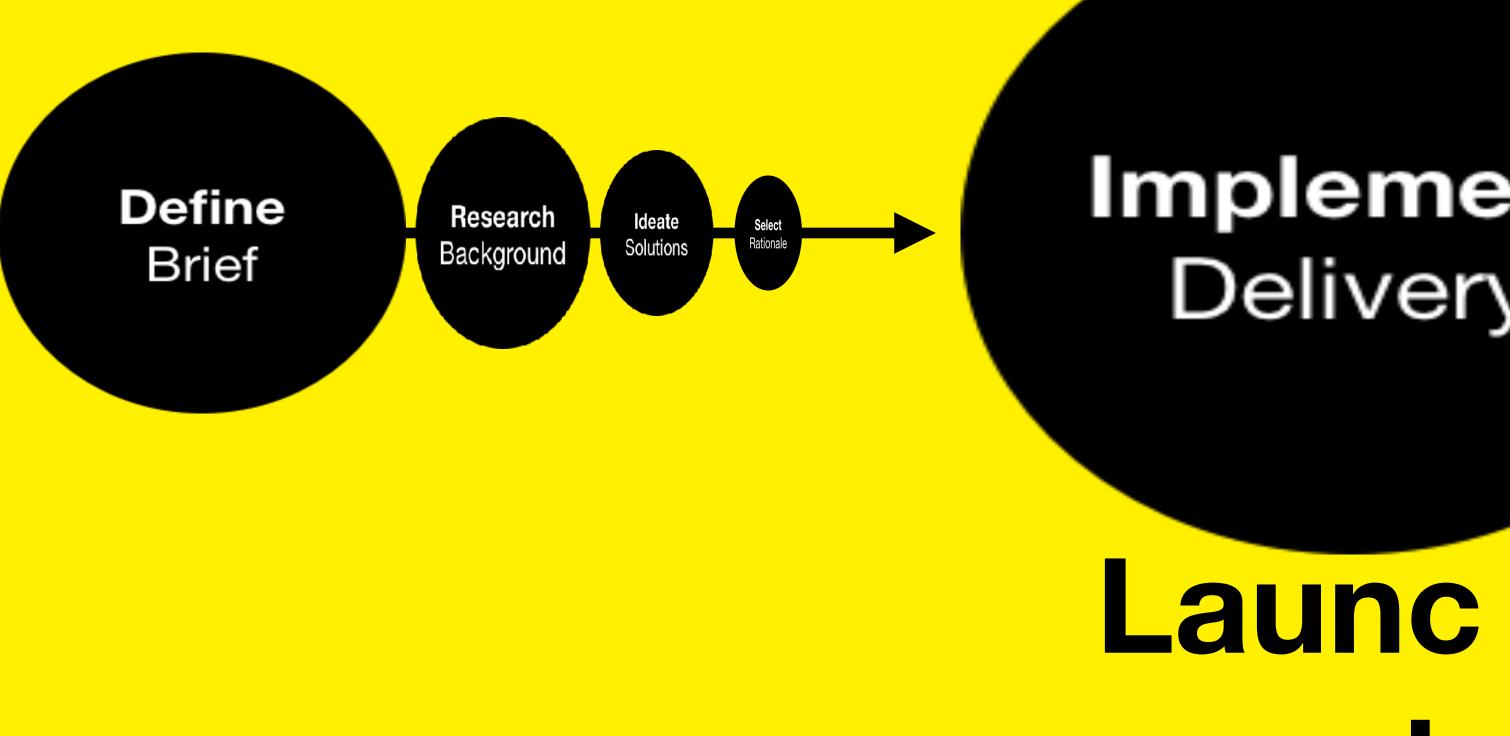
https://designsprintkit.withgoogle.com/

#### Deadines



Launch in 3 days

#### Deadines



Implement Delivery





## Deadines make failure an unviable Option

#### Commit to each step

Don't skip ahead

Don't start from 5

Don't skip learning

Don't reverse the order

## Schedule time for each step explicitly Yes, learning as well



#### Choose user-centric ceremonies

Analyse data or do a discovery workshops over decision-making meetings

Get feedback from users over coworkers

Test the solution over asking for an opinion on solution

## Schedule explicit ceremonies for each step

# Choose the tools that make it easy

# Surface each step in your project management

## Formalise your process in tools or guidelines

#### Agile methods

Develop in small increments: cheaper and easier to accept failure

Break large problems down to smaller ones with agile tools

Estimates over deadlines

Working products over specification

Measurement over judgement

### Guiding principles

# Design thinking is not for everyone

# Design thinking is not for every project

# Design thinking is not for scaling up an existing solution

#### Solutions first?

# Guess the design thinker

I find out what the world needs. Then, I go ahead and invent it.

I never did anything by accident, nor did any of my inventions come by accident; they came by work.

Just because something doesn't do what you planned it to do doesn't mean it's useless.

There's a way to do it better - find it!

Anything that won't sell, I don't want to invent. It's sale is proof of utility, and utility is success.

We don't know a millionth of one percent about anything.

To have a great idea, have lots of them.

I start where the last man left off.

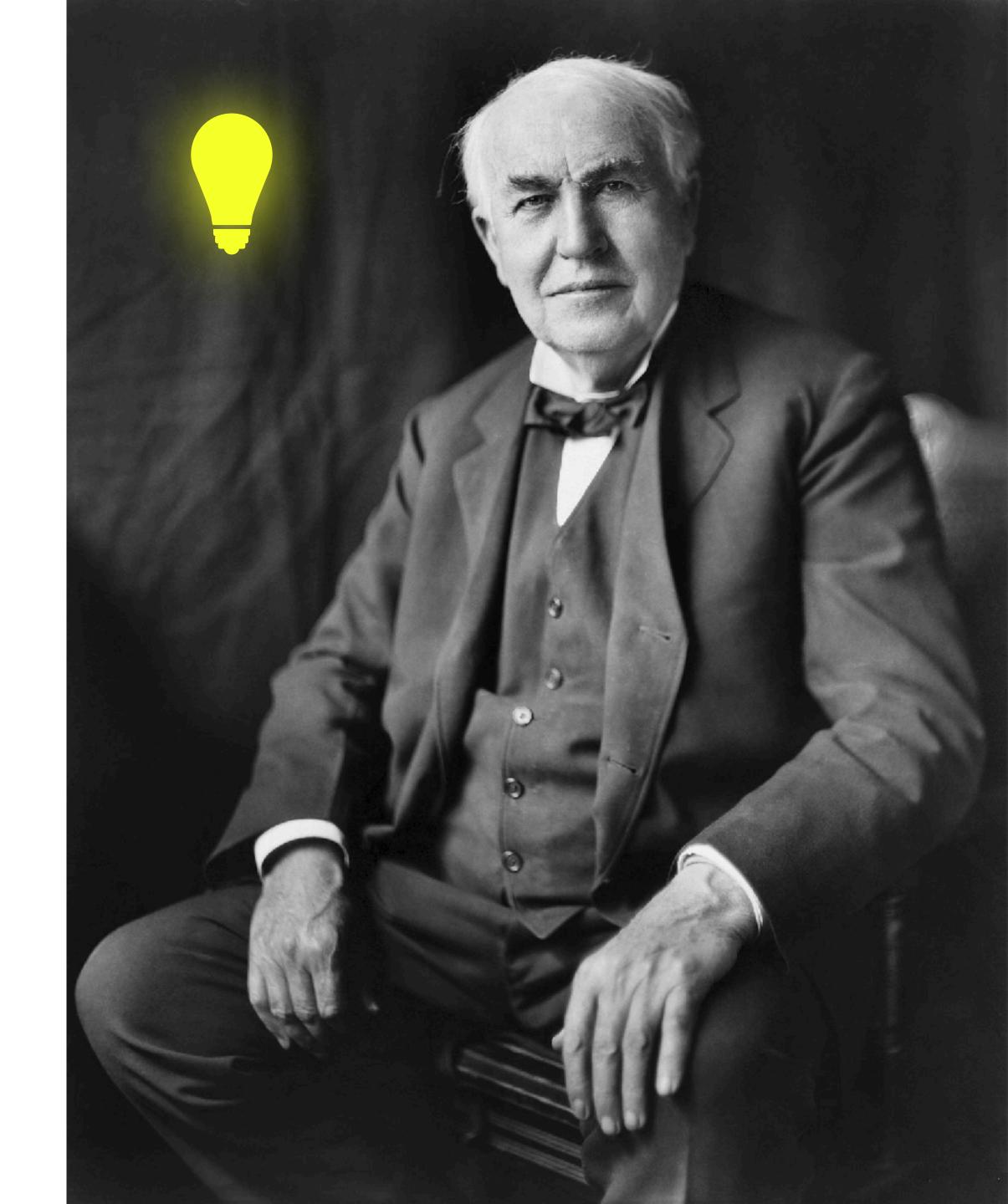
It is astonishing what an effort it seems to be for many people to put their brains definitely and systematically to work.

I am not discouraged, because every wrong attempt discarded is another step forward.

Restlessness and discontent are the necessities of progress.

I have not failed 10,000 times. I have successfully found 10,000 ways that will not work.

# Thomas Edison 1847 1931



I never did a day's work in my life. It was all fun.

### nat's It



#### Jerry/ Japinen

Product design consultant











jerryjappinen@lateralnord.com

+358 40 7188776

@jerryjappinen

#### Latera Nora.

#### Learn more

### Interesting cases

Fordlandia

Mind of an Architect

Design thinking in politics: Finland is testing basic income

Stoner M63

Forgotten Weapons (1300+ videos!!!)

Laser discs vs VHS in the 1970s

Designing cockpits for the average pilot

#### Learn more

Basics Design: Design thinking (ebook)

https://99percentinvisible.org/article/norman-doors-dont-know-whether-push-pull-blame-design/

Podcast: 99 % Invisible

Muezli browser extension (get inspired and find things to steal)

Google! It's all out there!

#### Solutions first

MS Bob

https://youtu.be/RkU4WWEUj-Y

https://youtu.be/RkU4WWEUj-Y?t=14m40s



#### Solutions first

ProHance Power Mouse from

https://youtu.be/gBCFdvBz-j8?t=1m5s

https://youtu.be/gBCFdvBz-j8?t=18m40s



# PowerMouse CHOOSE THE FUTURE



...with PowerCad

# You can approach anything with the design thinking mindset

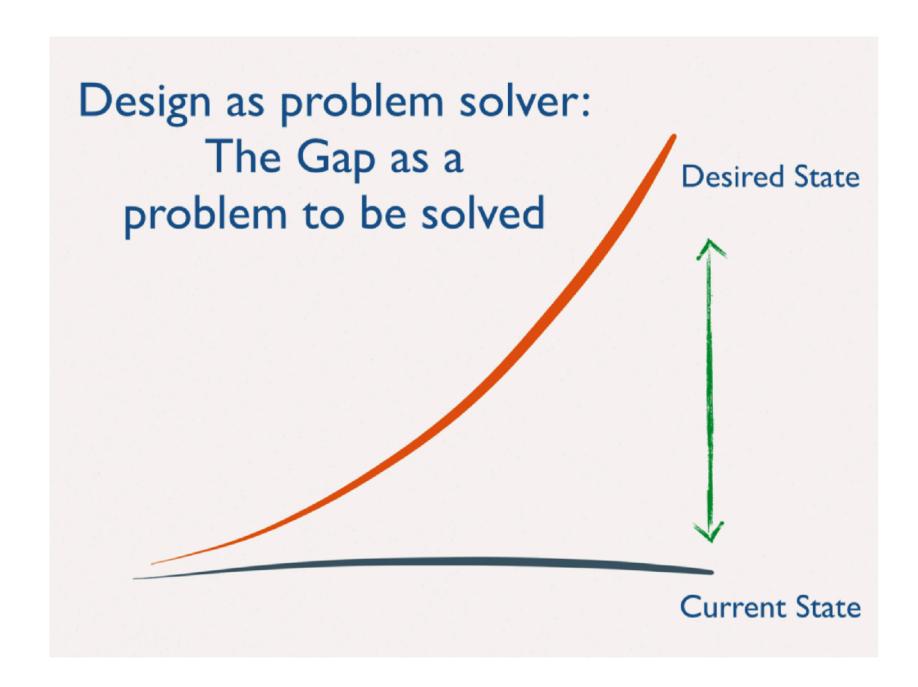
Next time you feel stuck or annoyed:

Did you start from a solution and not the problem?

Reframe the situation:

what's the status quo and what's the desired state?

#### Status quo bias



A real, emotional condition - humans are risk-averse

Your users, coworkers, stakeholders are humans

Desired state is hard to visualise and often seems risky

Thought experiment:

#### Flip the status quo

Your desired state is now status quo

Would you go back?

#### Opinions vs testing

Next time you schedule a feedback session

Think about scheduling a testing session instead

Design is evaluated out there by users, not by internal acceptance

#### 5-6

Did you start at step 5?

Don't choose before ideating

Did you stop at 6?

Don't just assume the problem got solved

There's life before 5, there's life after 6

### "Why" vs "why"

What do I say when a user/customer asks why?

Two different "whys": Internal, historical vs. external rationale

"Why is this text so light?"

Is the only answer "It's the shade of grey in our guidelines"?

Answer to the internal, historical "why" is not relevant

Related: The five whys

### Final thoughts

Keep your eyes open: Someone, somewhere used *design thinking* to create everything around you

Or didn't, and now you have a Norman door

Don't fall in love

Design for the world out there, not for yourself

People are Lemmings

#### That's design thinking

Separate problems from solutions

Accept multiple possible solutions

Discovery over creativity

Testing over argumentation

What works, works

Don't try to change your users, change yourself

#### Misc slides

1. Define

- Empathy
- 2. Research
- 3. Ideate

- ← Multiple solutions
- 4. Prototype
- Test and validate objectively

5. Select

- ← Don't skip here
- 6. Implement
- 7. Learn

#### **Horizon 3:**

Create genuinely new business

#### Value

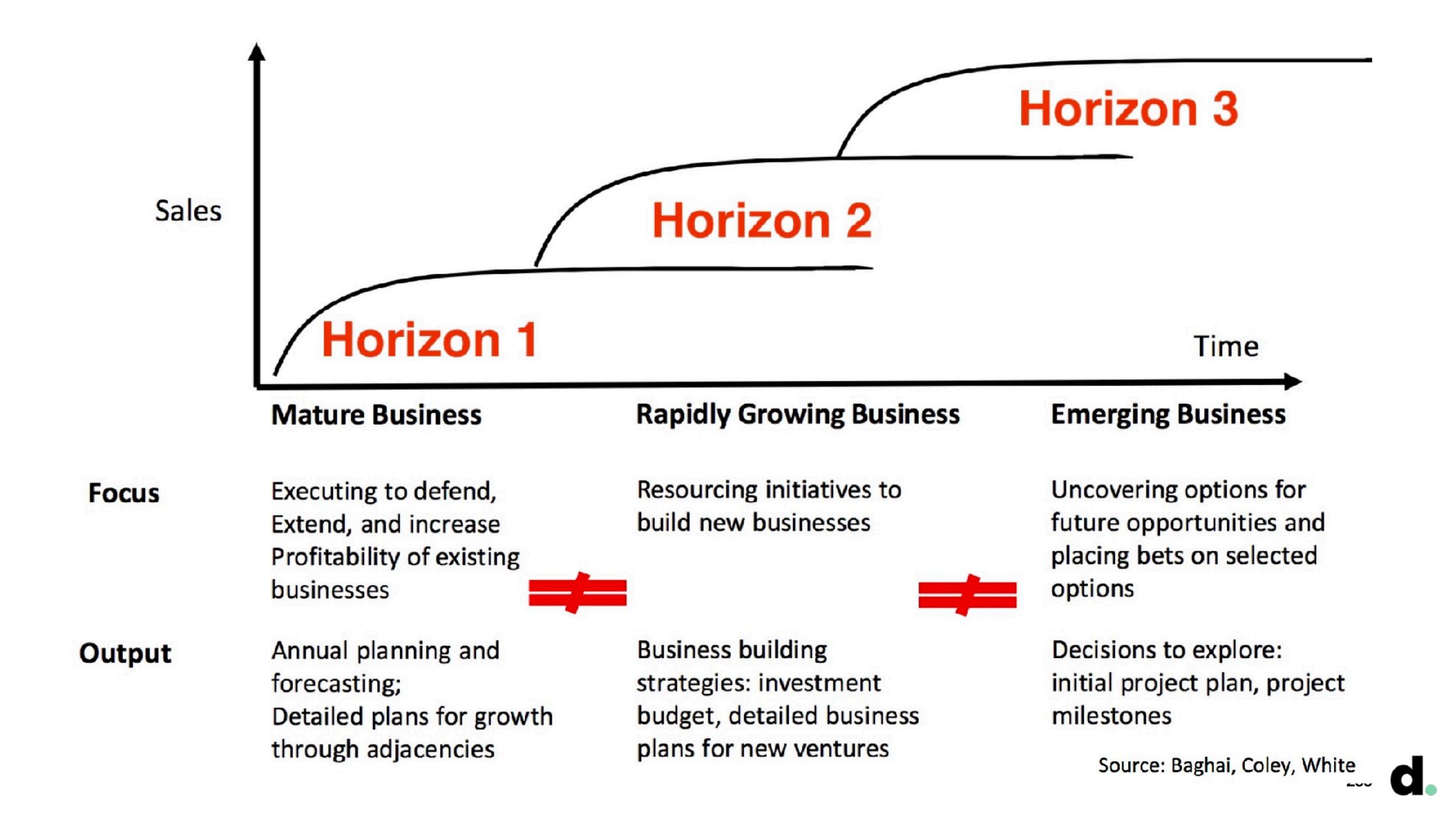
#### **Horizon 2:**

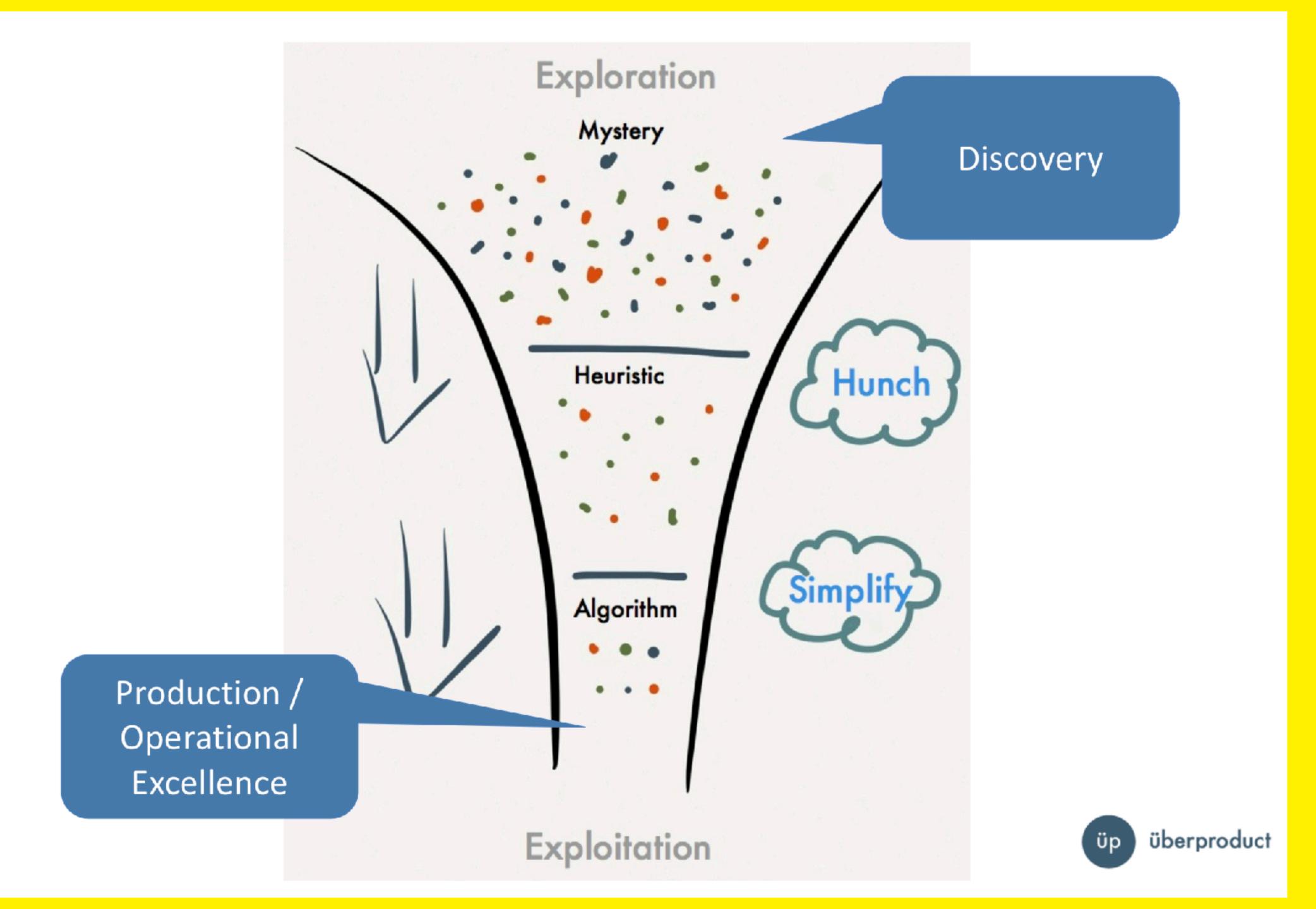
Nurture emerging business

#### **Horizon 1:**

Maintain & defend core business







## Design has a purpose

Design is more discovery than creativity

Design thinkers are more explorers than visionaries

Idea generation is important, but it's not everything

Good design is measured out there in the wild

Good design fills its purpose: good design works

What works, works

# We will talk a lot about problems and solutions today

## Applications

Design thinking can be applied by anyone to anything

Design thinking is often used by designers in their profession

Many people with designer titles work in creative professions

Not all creative problem solvers work as designers

## Applications

Airport security control design

Product concepts

Process design

UX/UI/web/service/CX design

Architecture

**Politics** 

Prison design

Firearms design

Anything

### Designing for humans

Today we talk about designing for humans

Design thinking is traditionally applied in human-centric fields

But at its core, it's about changing the status quo to something that works better for the intended purpose

And humans are not that different in the end...

## User testing

Design needs to work

Humans are weird

Humans who aren't you are VERY weird

If it doesn't work for humans, it doesn't work

Seeing your design crumble in front of your eyes is painful!

Most solutions fail

# It never works until it works keep failing and iterating

#### Dos and don'ts for today

Problem space vs. solution space

Don't fall in love with your solutions

Emphatize, research, observe

Be user-centric

Design for the world around you (people won't change for you)

Test, accept losses, fail

# Design is a toolbox