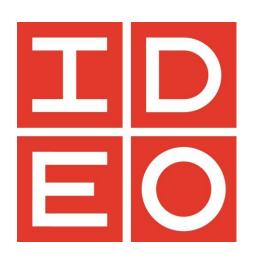


DESIGN THINKING INITIATIVE



David M. Kelley

1987 book Design Thinking





WHAT IS DESIGN THINKING?

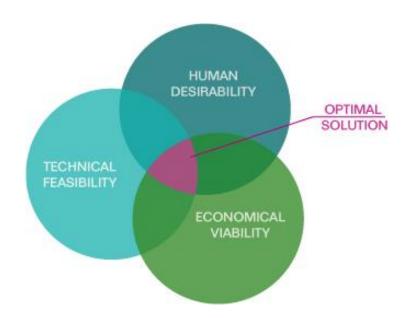
Design Thinking is a method for solving complex problems and creating new ideas.

DESIGN THINKING means...

...creating INNOVATION by combining diverse PEOPLE, creative SPACE and an iterative APPROACH.

WHAT IS INNOVATION?

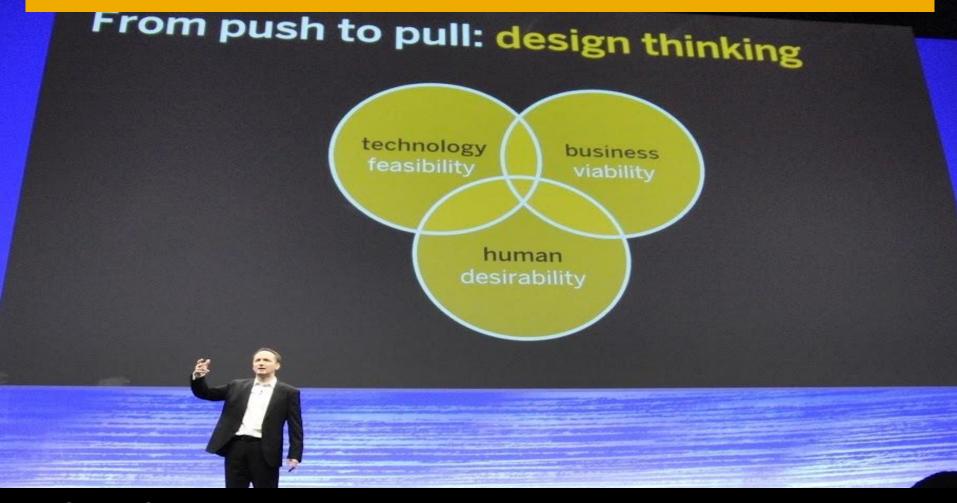
A PATH TO SUCCESSFUL INNOVATIONS



Design Thinking focuses on **desirability**, but also considers viability and feasibility along the innovation process.

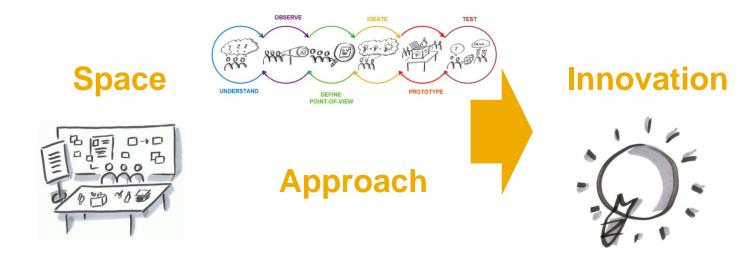
The optimal solution to a problem is at the heart of the three.





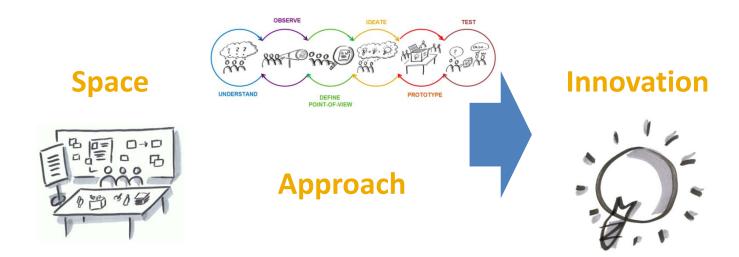


People





People





People







Approach



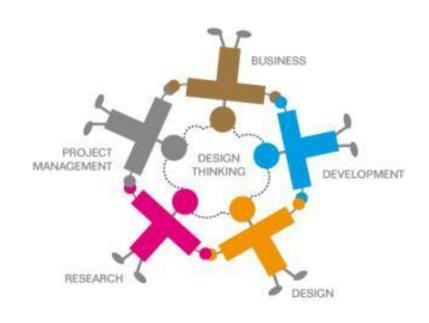
Innovation



PEOPLE WITH A DIVERSE SKILL SET

Multidisciplinary Teams

A common culture of empathy, a design thinking mindset, as well as an environment where it is safe to explore are fundamental for an inspired and successful team with diverse backgrounds.







People

Space



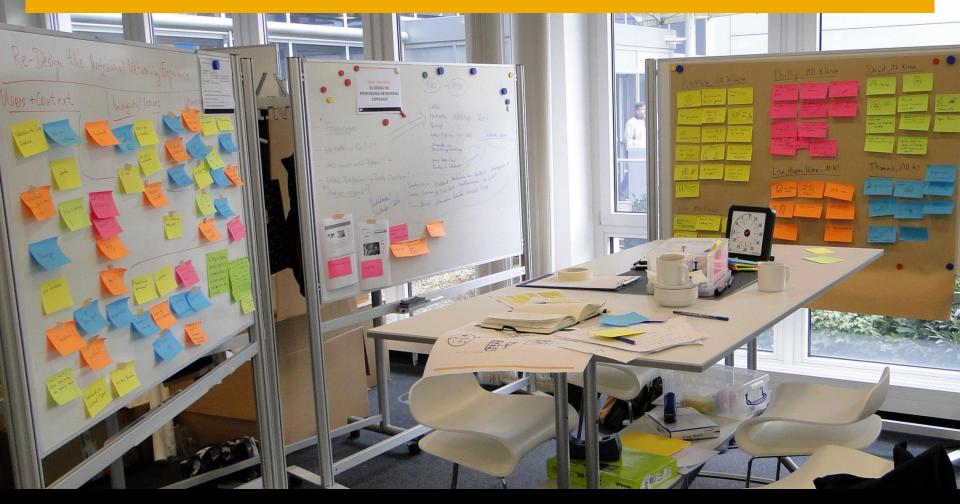


Approach



Innovation





...and the freedom to explore.



People

Space



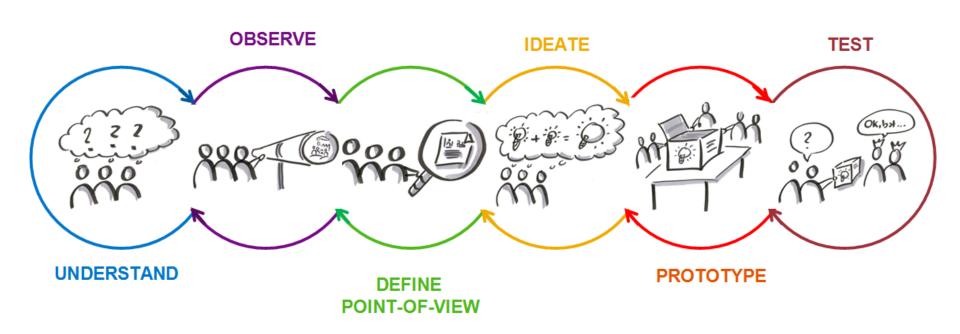


Approach



Innovation

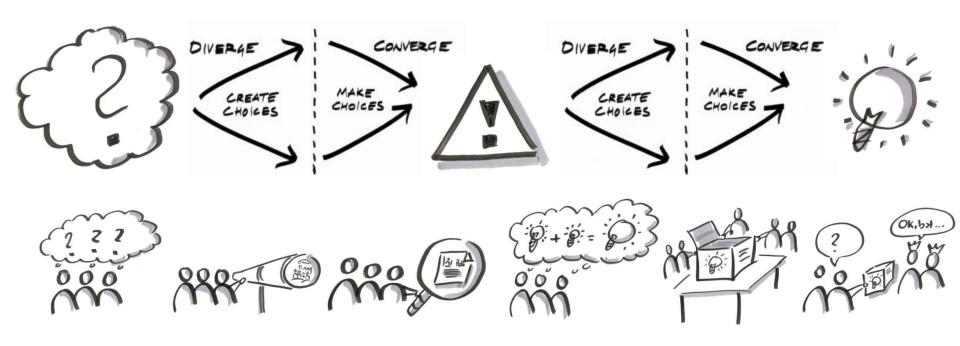




THE DESIGN THINKING STEPS.

PROBLEM SPACE

SOLUTION SPACE

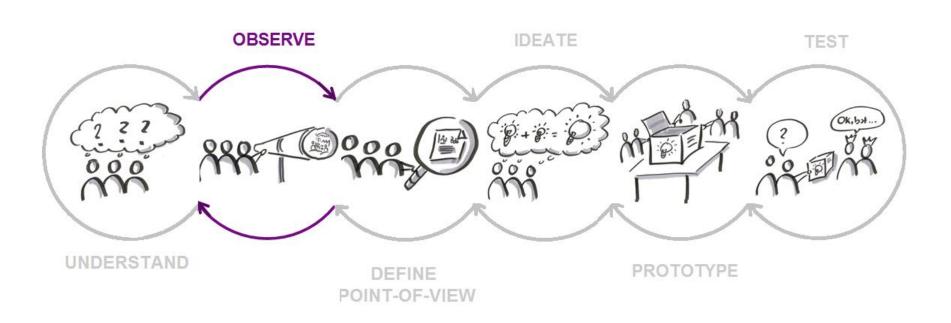


THINK LIKE A DESIGNER Go broad first and focus later.





OBSERVE.



Where are we in the process?







TRY AND DO

ASK AND LISTEN

WATCH AND OBSERVE

DIFFERENT METHODS OF OBSERVATION TO GET EMPATHY.



TRY AND DO



- Ask open-ended questions
- Ask 5 times WHY
- Be aware of body language (own and interviewee)
- LISTEN You are the student (20-80)
- Be curious!

- Take photos
- Collect artifacts
- Write down your impressions
- Pair up for interviews, interviewer and note taker
- Say thank you in the end
- Debrief and make the next interview even better

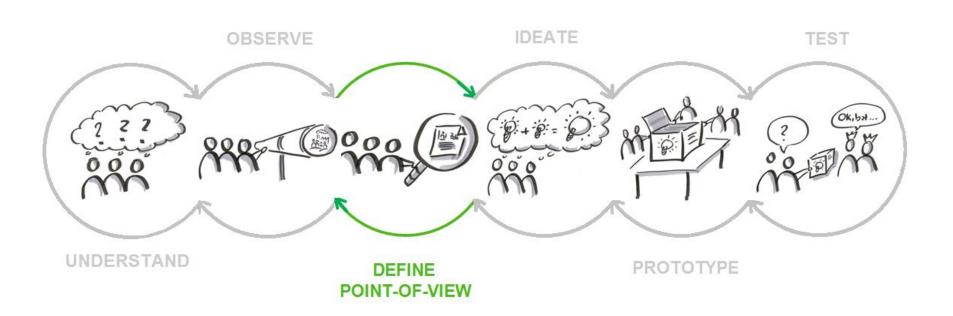
ASK AND LISTEN



- Look for details
- Capture the atmosphere
- Be curious and talk to people
- Take photos and notes
- Speculate: what if...?

- Buy things, do things
- Collect artifacts
- Write down your impressions
- Be polite and do not disturb
- Act as a guest

WATCH AND OBSERVE



Where are we in the process?





SYNTHESIS

The art of structuring your insights.

FRAMEWORK

Model/view of specific aspects (interim step).

PERSONA

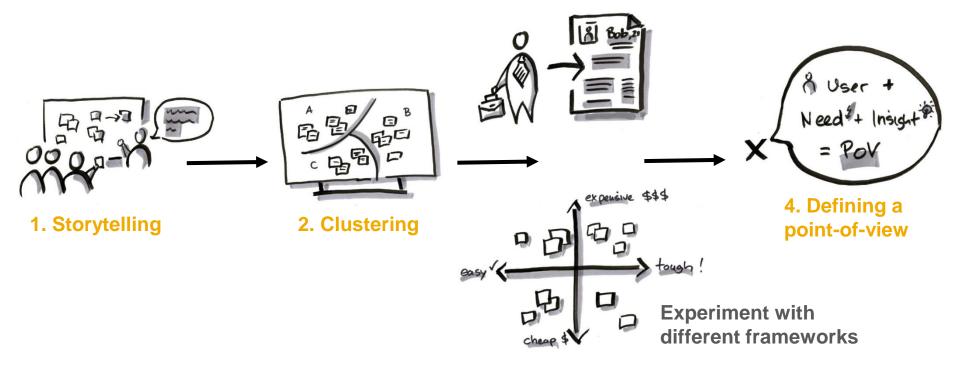
End-user-focused model/view (interim step).

POINT OF VIEW

Hypothesis about users' needs (result of synthesis).

Glossary of concepts involved in this step

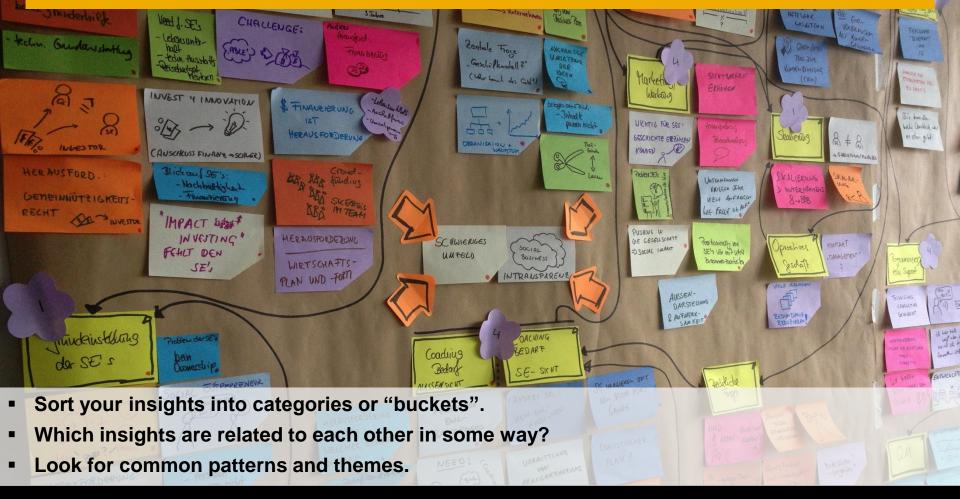
3. Creating a persona



SYNTHESIS The art of structuring your insights.



COLOR-CODING TO STRUCTURE RESULTS.

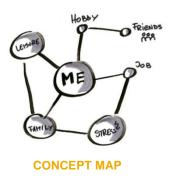


SYNTHESIS STEP TWO: Clustering



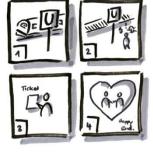












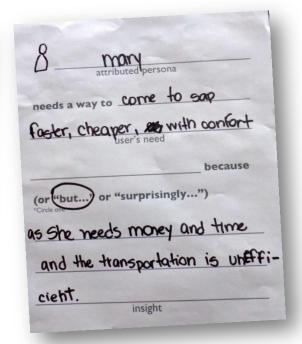


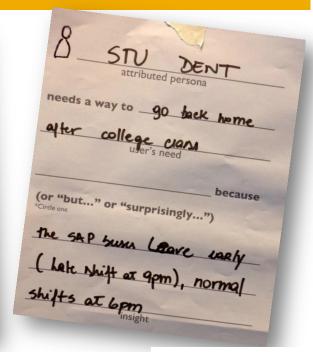
GEOGRAPHIC MAP

SCENARIO / EXPERIENCE MAP

VENN DIAGRAM







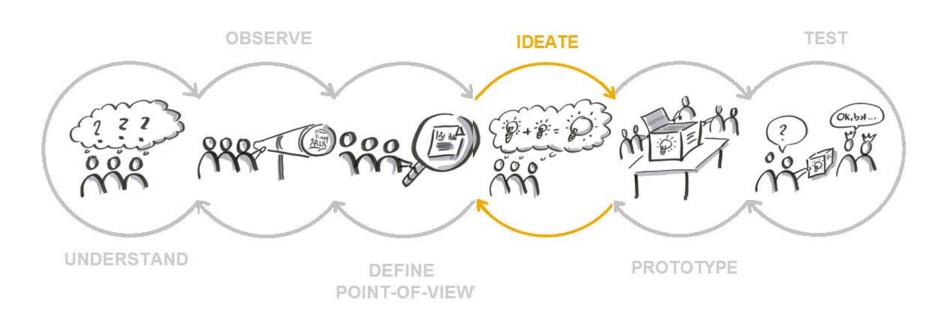
POV = USER + NEED + INSIGHT

The point-of-view is one sentence that creates an image in your mind.

Based on an understanding of a user group and insights in to a specific need, it narrows down the problem space and focuses on a specific problem.



SYNTHESIS STEP FOUR: Establish a point-of-view (POV



Where are we in the process?







BRAINSTORMING RULES.





BRAINSTORMING RULES.



BE VISUAL

"draw a crazy picture...put something silly in the world that ain't been there before" shel silverstein



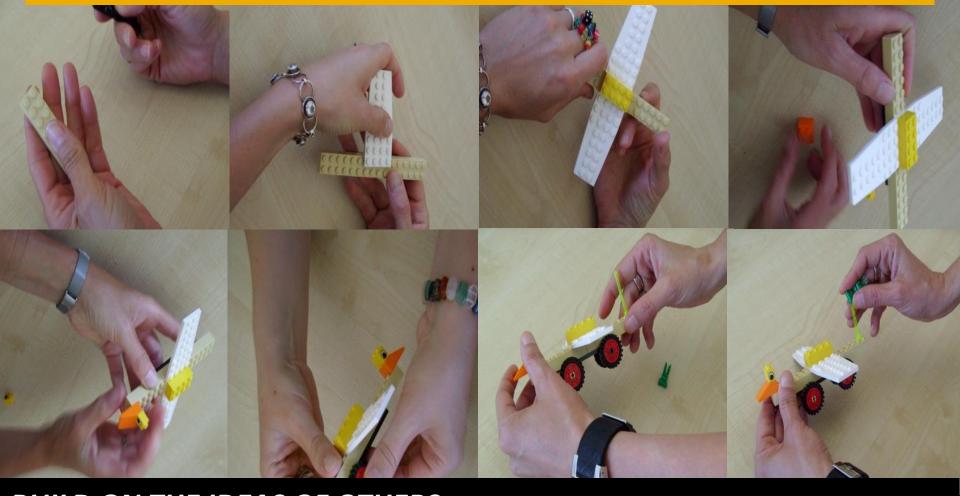
DEFER JUDGEMENT

"criticism is hard to take, particularly from a relative, a friend, an acquaintance or a stranger " franklin jones



ENCOURAGE WILD IDEAS

"if at first an idea doesn't sound absurd, then there's no hope for it" albert einstein



BUILD ON THE IDEAS OF OTHERS



GO FOR QUANTITY

"the best way to get a good idea is to get a lot of ideas" linus pauling



ONE CONVERSATION AT THE TIME

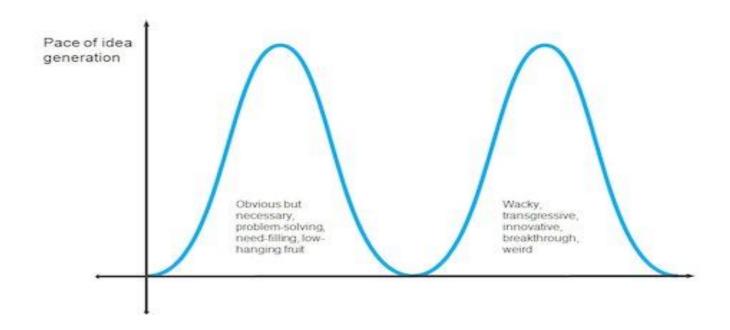
"it takes a great man to be a good listener" calvin coolidge



STAY FOCUSED ON TOPIC



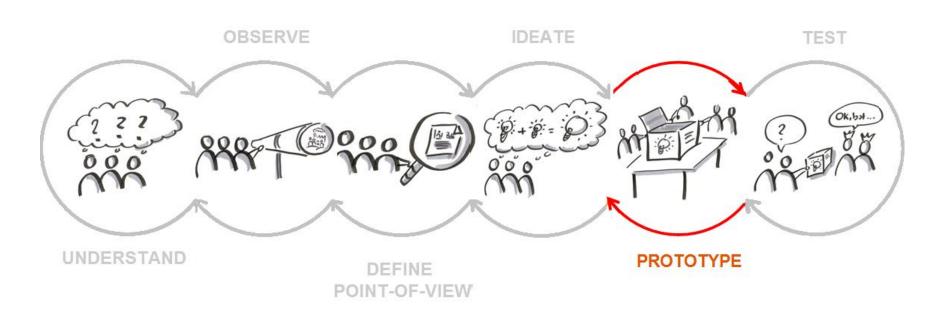
HOW WOULD SUPERMAN DO IT?



Steve Portigal: The power of bad ideas

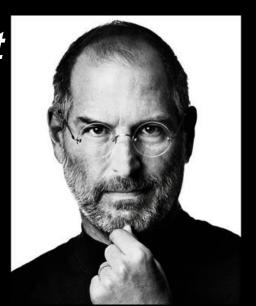
THE POWER OF BAD IDEAS.

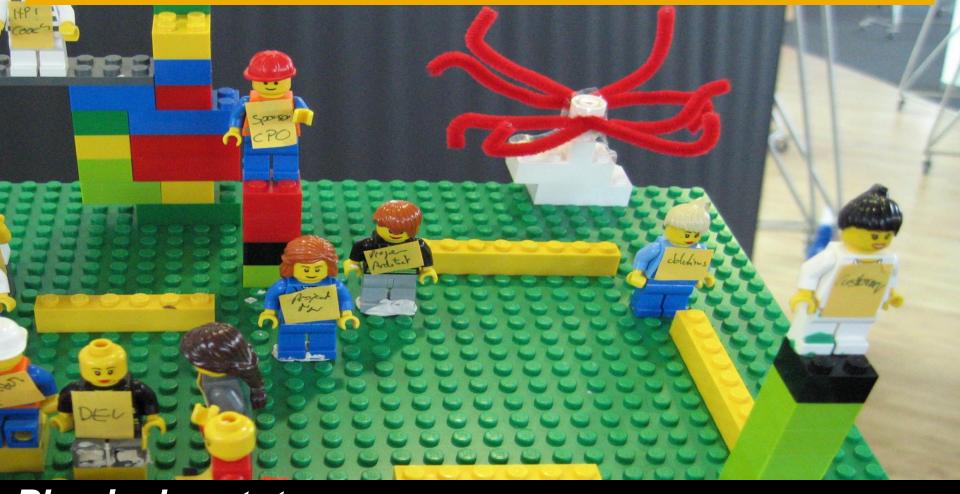




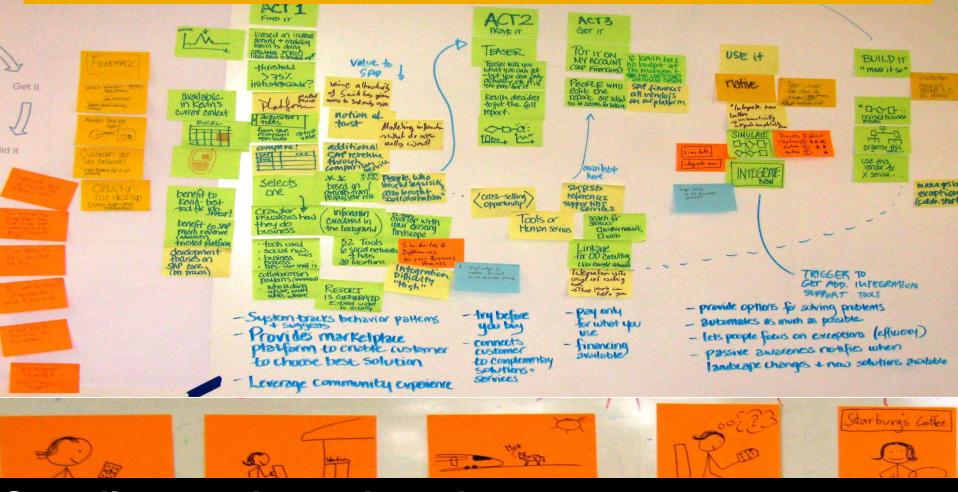
Where are we in the process?

"DESIGN is not just what it looks like and feels like. Design is how it works." – Steve Jobs



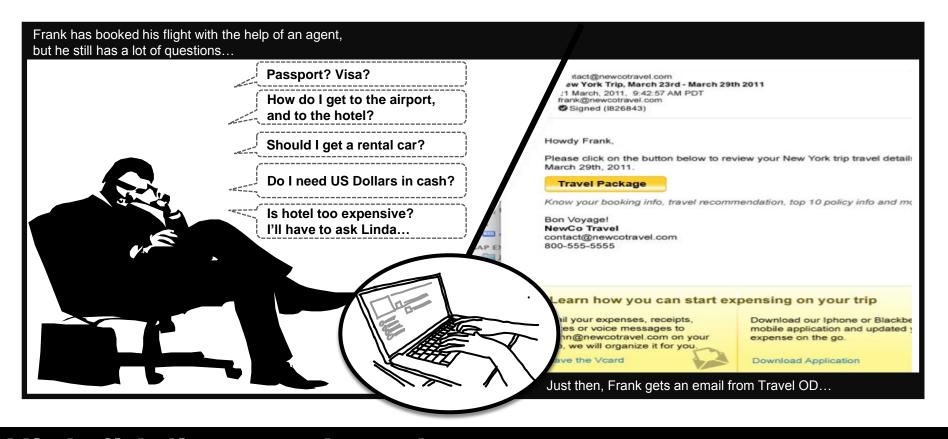


Physical prototypes



Storylines and storyboards

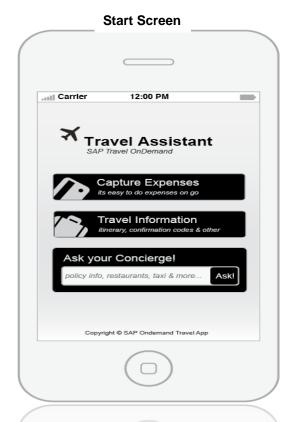
Franks plans the trip – his first ever trip to the US



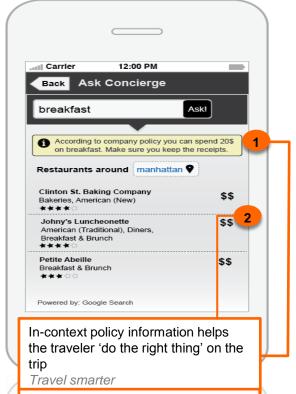
High-fidelity storyboard



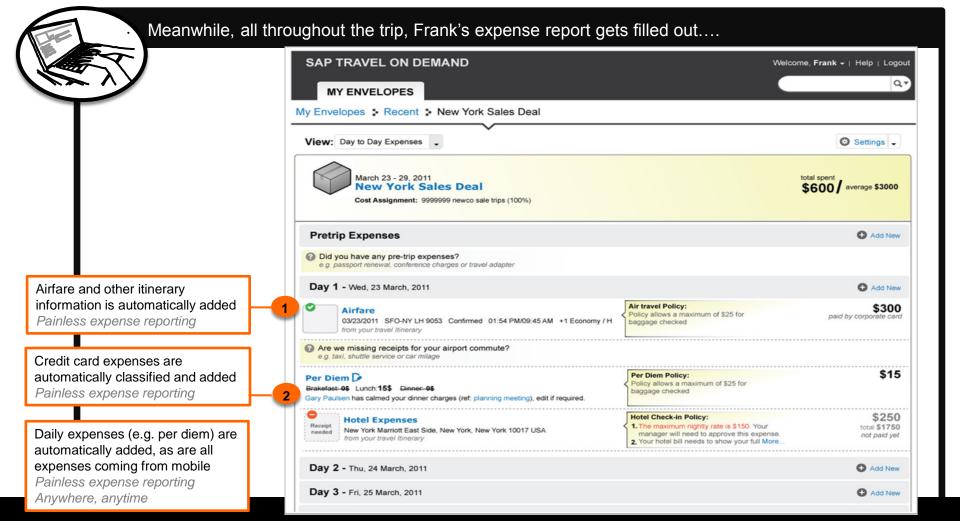
Concierge service helping Frank to be smarter

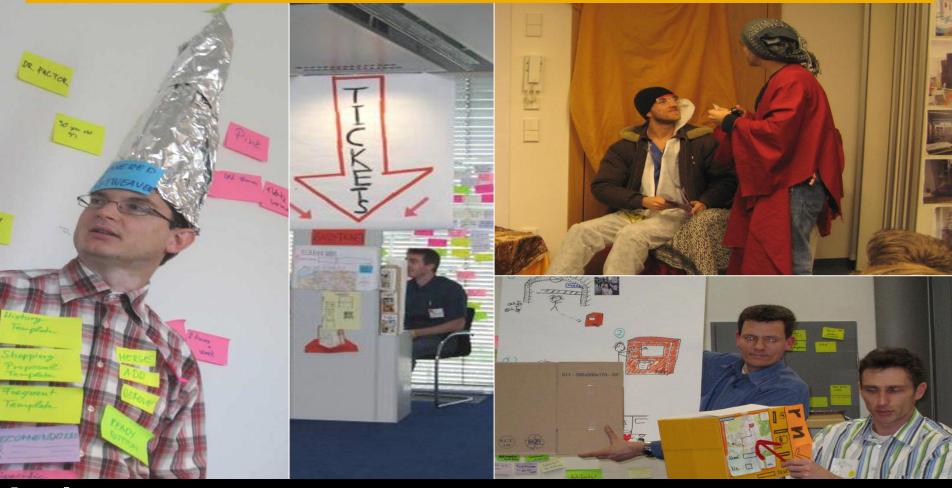


Concierge Services



Policy overlay for tips & tricks drives cost-conscious behavior Spend money wisely





Acting

Project BMW – Improving the open-air experience









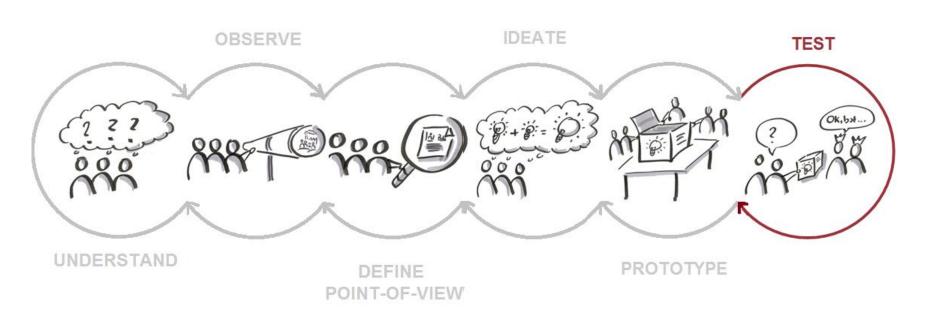




This example has been provided by Larry Leifer Larry - the Director of the Center for Design Research (CDR) at Stanford University [http://www-cdr.stanford.edu/~leifer/]



TEST.



Where are we in the process?



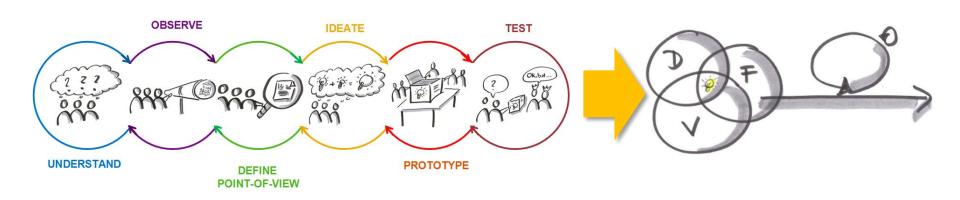


Why Test?

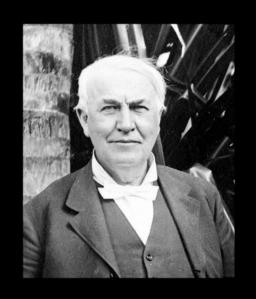
- To gather early feedback from users, stakeholders and experts, to be able to iterate
- To learn about your ideas strengths and weaknesses
- To fail early



IMPLEMENTATION



THERE'S NO INNOVATION WITHOUT IMPLEMENTATION.



"What innovation boils down to is one per cent **inspiration** and ninety-nine per cent **perspiration.**" – Thomas Edison



THANK YOU!