IBM Design Thinking

Baruch College March 2, 2018



Artour

IBM Executive Creative Director



Maria

IBM Consultant-Communications Sector



Agenda	Time	Duration	
Welcome	10:00 AM	5	Stan
Introduction to IBM Design Thinking • Framework Overview	10:05 AM	30	Artour
 Problem Rundown / Intent Statement Review existing statements Refine in teams 	10:35 AM	30 (5/15/10)	Artour
 Stakeholder and Personas Map Create map of stakeholders and personas Playback and refine 	11:05 AM	30 (5/15/10)	Cindy
As Is Scenario Maps	11:35 AM	10	Artour
Empathy Maps and Needs Statements • Create Empathy Map for one selected persona • Create Needs Statement	11:45 AM	40 (5/10/5/10/10)	Cindy
Lunch Break	12:30	30	all

Agenda	Time	Duration	
Lunch Break	12:30	30	all
 Big Ideas Create Big Idea Vignettes Prioritize Playback and refine 	1 PM	35 (5/20/10)	Artour
HillsWrite 1-2 HillsPlayback and refine	1:35 PM	30 (5/15/10)	Cindy
Storyboarding Big Ideas and User Scenarios • Storyboard scenario for selected Big Idea(s) • Playback and refine	2:05 PM	35 (5/25/5)	Cindy
Prototyping and User Feedback	2:40 PM	10	Artour
Wrap-Up	2:50 PM	5	Stan

100 hat is IBM Design Thinking?



We'd like to show, not tell





Design an alarm clock.



Design a better way for people to wake up in the morning.

Design an alarm clock

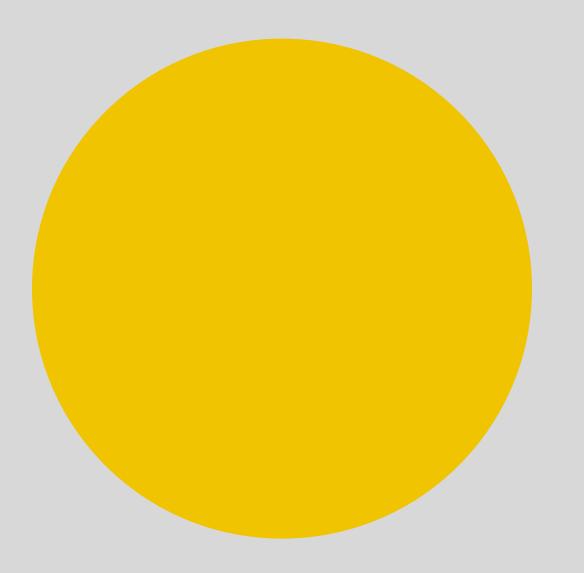
Design a better way for people to wake up in the morning



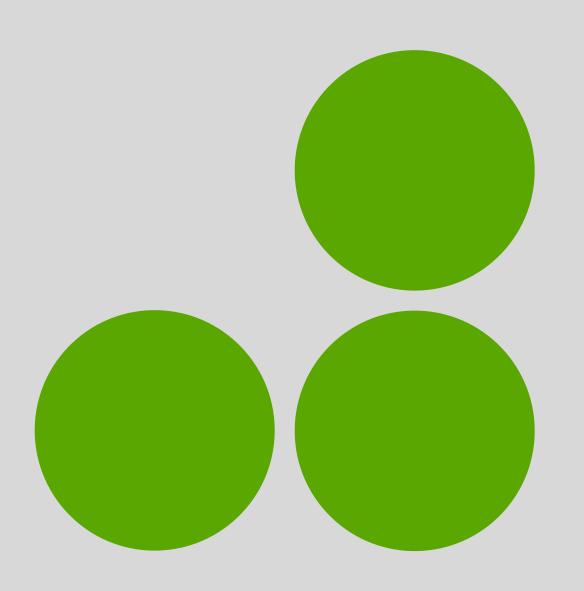


What did we learn?

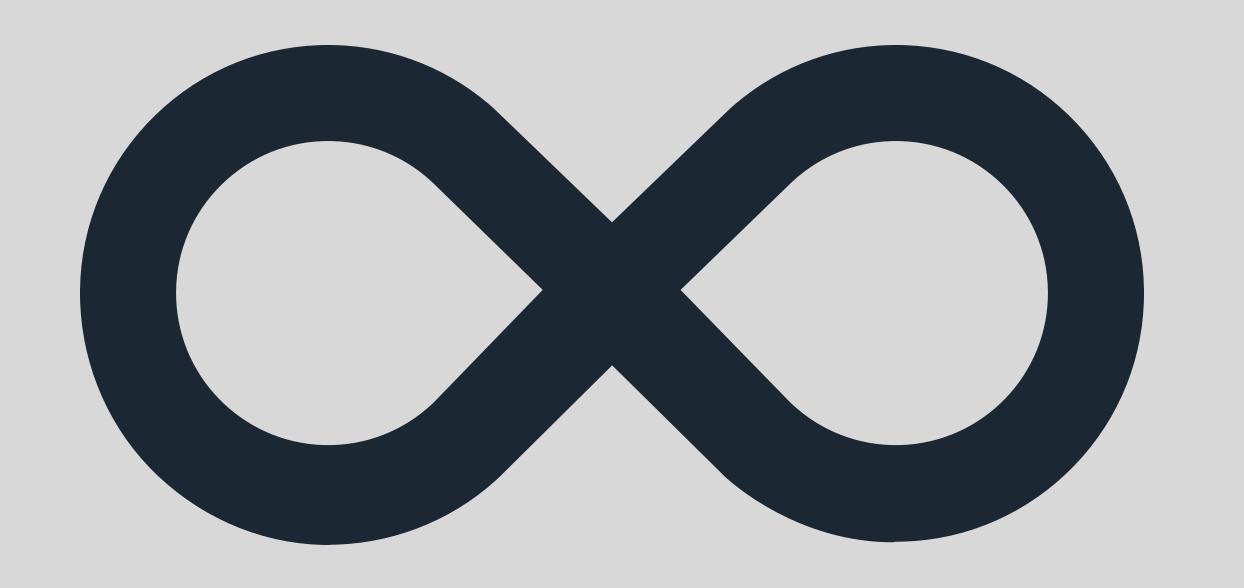


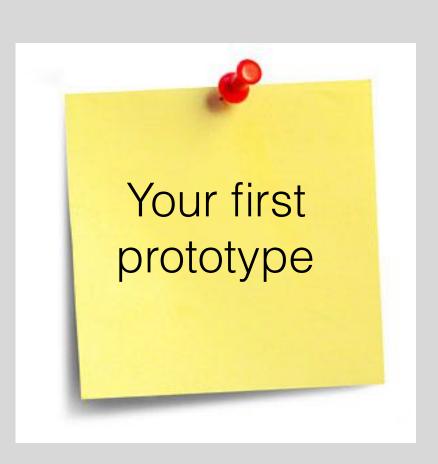


Focusing on user leads to more innovative ideas



Working in diverse empowered teams generates more possibilities





Reinventing restlessly allows us to fail fast and fail cheap

Okay, so... what is IBM Design Thinking and why should we practice it?



IBM Design Thinking is a framework



IBM Design Thinking is a framework helping us get things done



IBM Design Thinking is a framework helping us get things done in a way that enables speed



IBM Design Thinking is a framework helping us get things done in a way that enables speed, constantly delivers new value



IBM Design Thinking is a framework helping us get things done in a way that enables speed, constantly delivers new value, and ensures minimal risk.



Speed



A focus on user outcomes

We go straight to the truth, which lies with our users



Diverse empowered teams

We move rapidly with the empowered stakeholders, users and subject matter experts we surround ourselves with



Restless reinvention

We treat everything as a prototype, delivering the first within a short period of time, then iterating on it as quickly as possible

New Value



A focus on user outcomes

We arrive at fresh solutions rooted in previously undiscovered user problems and opportunities



Diverse empowered teams

We pull from the knowledge and experience of the experts around us to inspire imaginative ideas



Restless reinvention

We learn new insights from every prototype tested, shaping an even stronger next iteration

Minimal Risk



A focus on user outcomes

We align with reality going in, check against it during, and validate with it coming out



Diverse empowered teams

We leverage the expertise of our team to avoid costly assumptions and pitfalls



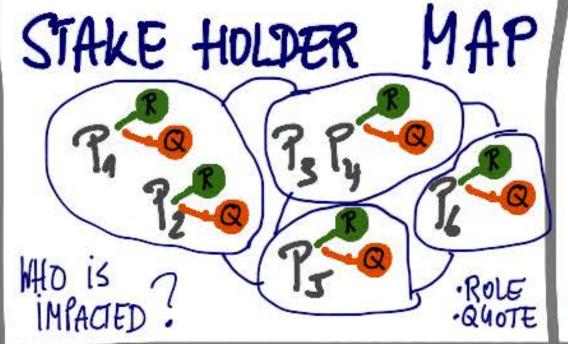
Restless reinvention

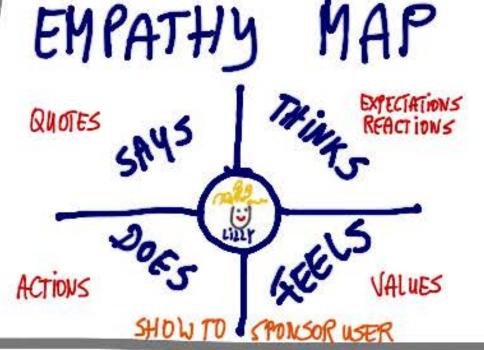
We fail fast and fail cheap, always uncommitted to a dangerous amount of money, time and resources

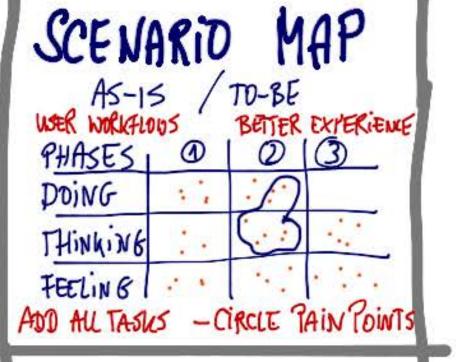
IBM Design Thinking is a framework helping us get things done in a way that enables speed, constantly delivers new value, and ensures minimal risk.









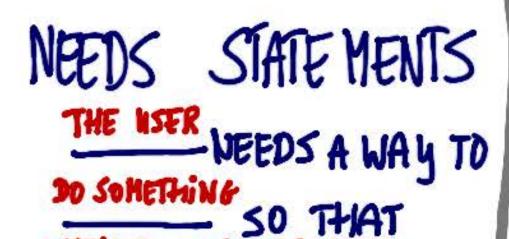




CLUSTER - CONVERGE

-> PRIORITIZE



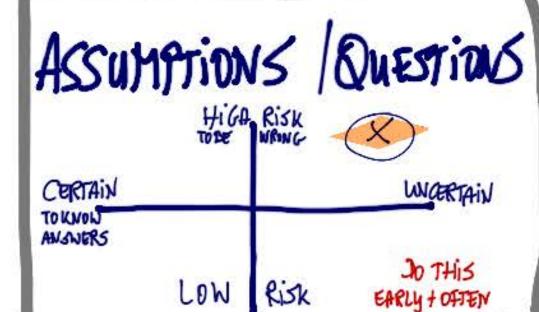


GO BACK TO PAINPOINTS

STORY BOARDING



SHARE - CONVERGE - MASTER STORIES STORY



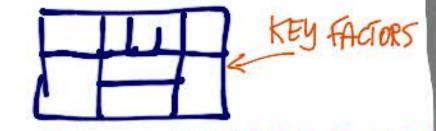


FROM
STORYBOARD +
NEED STATEMENTS

- WHO-WHAT- WOW
- 2 WHO-WHAT- WOW
- B WHO-WHAT- WOW

Business Model Cannas

THEY BENEFIT DIRECTLY

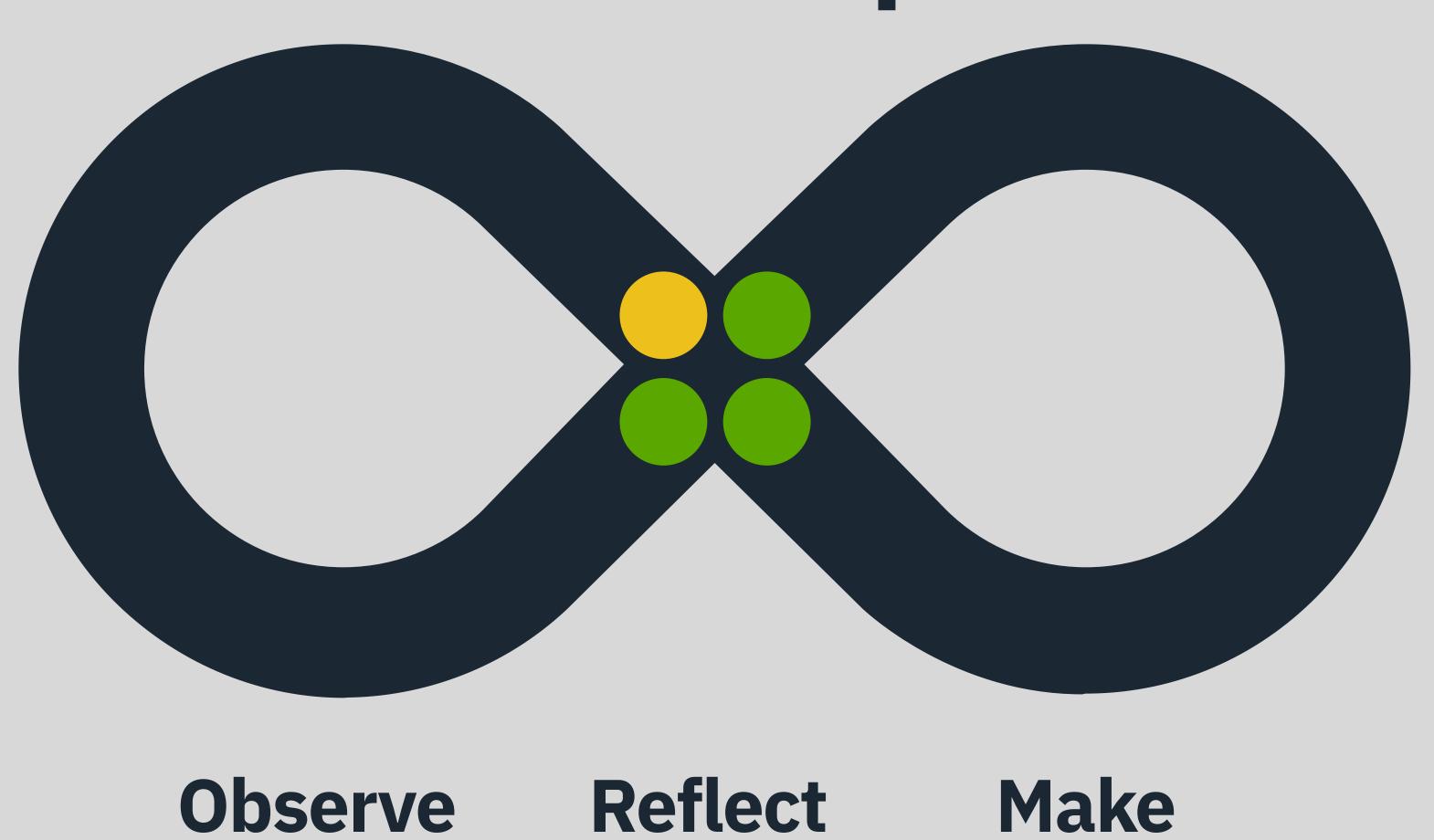


USER EXPERIENCE — VIABILITY FOR BUSINESS
DEFINE SOLUTION — TARGET CUSTOHERS

ELEHATOR TITCH

- · PROBLEM TO SOLVE
- COMPETITION
- TARGET ANDIENCE
- INITIAL BUSINESS PLAN
- VALUE TOTHE USER
- DELIVERABLE

The Loop



The Keys Align Us



Hills align us across teams.



Playbacks align us across time.



Sponsor users align us with reality.



Principles







A focus on user outcomes

Diverse empowered teams

Restless reinvention

The Loop



The Keys align us.



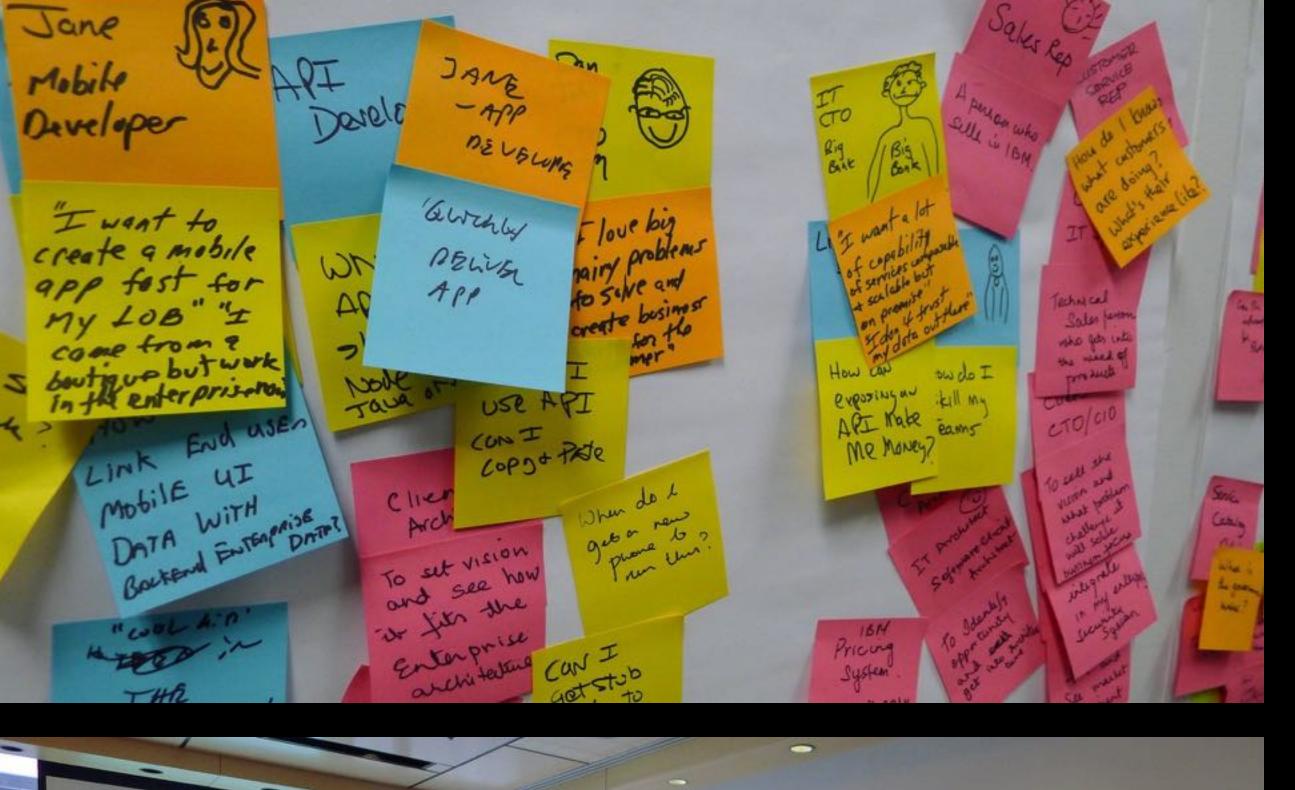
Hills



Playbacks

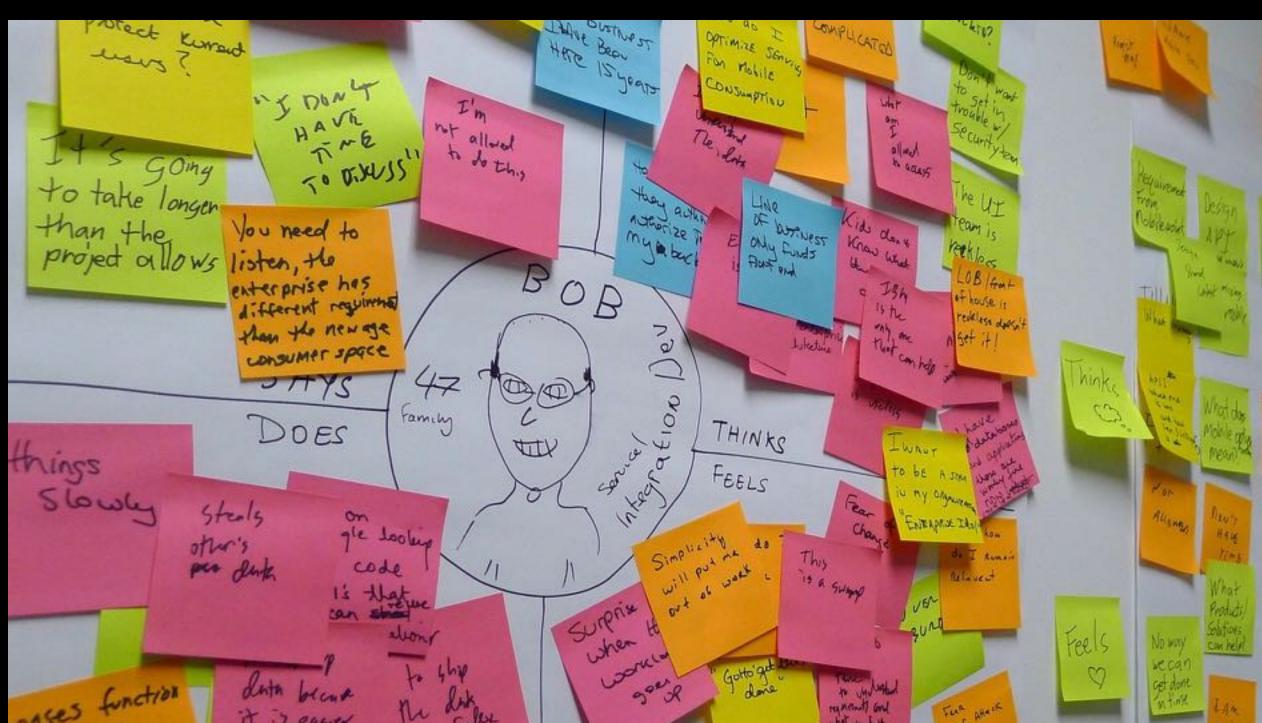


Sponsor Users

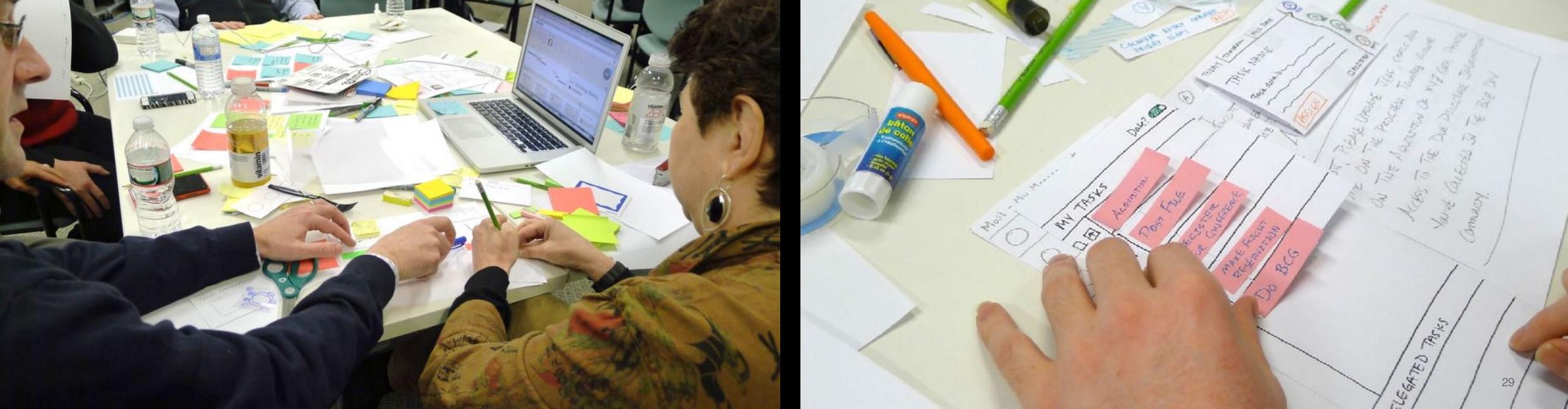












Tools of the trade



Sharpies
(1 per participant)



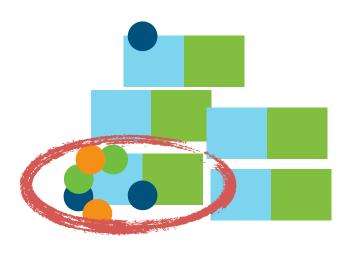
Chisel Tip
Permanent
Markers
(2 per team)



Sticky Notes
(1 pad participant)



Post-it Super Sticky Easel (wall) Pads (1 per team)



Dots
(2 sheets per team)

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Problem Rundown



What is a problem rundown?

A set of statements that help us establish a shared understanding of the problem.



What makes a good problem rundown?

- 1. It deconstructs your user's situation and challenges into simple terms that everyone can understand
- 2. It's as clear and direct as possible no buzzwords or acronyms
- 3. It provides the group with a shared focus narrowing in on the specific problem to be solved



Draw template
Ideate silently
Finalize sentences

Our users are _ We will improve their _ experience. Currently these users struggle because _ It's kinda like _ ____ (a simple analogy or metaphor). In a perfect world, they would This would be great because





For presenters:

- Tell us a userfocused story
- Keep it down to a few minutes
- Summarize and prioritize insights

For the audience:

- Pay attention to stay aligned
- Ask about uncertainties
- Point out assumptions





Refine example

Our users are ______.

We will improve their ______ experience.

Currently these users struggle because ______.

It's kinda like ______ (a simple analogy or metaphor).

In a perfect world, they would ______.

This would be great because ______.



Stakeholder Map



What is a stakeholder map?

Captures the full landscape of participants and interested parties in a project or process.



What makes a good stakeholder map?

1. It includes everyone you can think of

2. It's completed as early as possible and revisited periodically

Examples:

End users

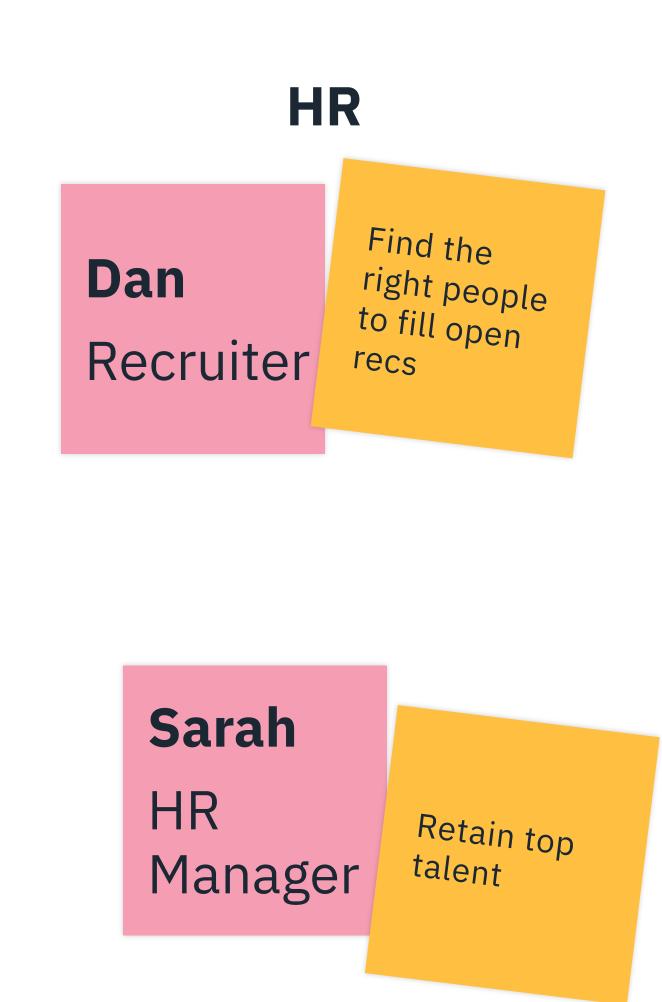
Technologies

Business

Sponsors



Ideate silently Cluster









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As-Is Scenario Maps



What is an as-is scenario map?

A chart that portrays the user's current experience.



What makes a good as-is scenario map?

- 1. It focuses on a single user
- 2. It presents a detailed, honest picture of the current situation
- 3. It exposes pain points and opportunities



What does it look like?

Doing

Thinking

Feeling





Empathy Maps



"Good design is about recognizing that the **person on the other end** has a lot less patience than you do."

- JASON FRIED, BASECAMP





The upside?

Everyone on the team knows something about the user.



What is an empathy map?

Enables us to gain a better understanding of the user and their specific needs.



Think of it as stepping into your user's shoes.



What makes a good empathy map?

- 1. It explores what users feel
- 2. It explores multiple user dimensions
- 3. It describes more than the user's job title
- 4. It captures both the positive and the negative



errord trotti inf OOTB solutions

Were going into the software dev business."

Look at all the things We could do LATINATION STORE it in a way that people can find?

Distruct in

vendor products

IF its free can

it be as good as

something we can

build ourselves?

there is a desire to find something OOTB with as little customizatiion as possible



Is the Information secure?

Everyone writes their own instructions

Talks to Brett

> We've tried vendor products in the past, they never work

out

Works internally within Chase. Deal w/ LOB was that has their own LOB

Uses Workplace XT

Build your empathy map





Need Statements



What is a need statement?

A statement that frames your user's actual needs, desires and goals.



What does it look like?

User that addresses benefits their need needs a way to their need so that



What makes a good need statement?

- 1. Focuses on a user's real pain points
- 2. Does NOT focus on features
- 3. Can be either specific or general

A bad example



see a dashboard
W/211 of so that
her latest
data on it

she has all her

A bad example



needs a way to



so that



A better example



needs a way to

better manage her customers' changing business requirements

so that

she can spend her time doing more important things

Build your need statements

User _needs a way to _____

do something that addresses their need

the user benefits directly

so that

CO Playback

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Refine example(s)

[User Name] needs a way to ______ so that _____.

Lunch! 30 min

Big Ideas







"Early on, all of our movies suck."

—Ed Catmull, founder of Pixar

What is ideation?

Problem solving with no limitations.



What makes ideation bad?





What makes ideation good?

- 1. No idea is "bad" or "stupid"
- 2. Go for quantity
- 3. Encourage wild ideas
- 4. Build on the ideas of others
- 5. Stay focused on the topic
- 6. Have one conversation at a time
- 7. Draw pictures
- 8. Don't go into much detail
- 9. Consider "It's kinda like..."



Example

Sketch
+
Headline
+
Caption

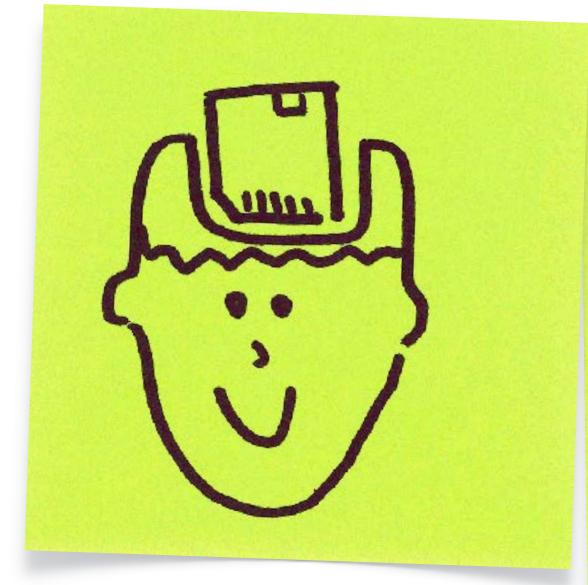


personal chef understands what you want and serves it up right on time.



An absurd example

Sketch
+
Headline
+
Caption

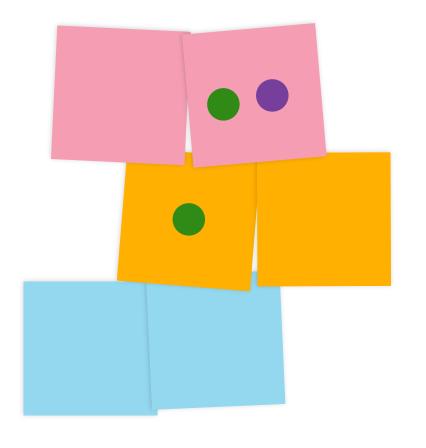


gets installed in ppi's brains and transfers all needed knowledge instantly.

Ideate silently Playback Cluster



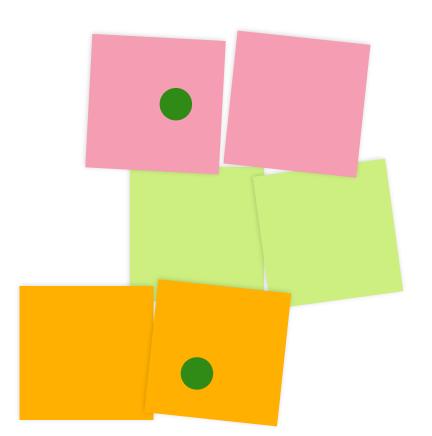




Cluster Name



Cluster Name







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Hills



Hills align our teams.

Great outcomes begin with a shared understanding of intent.



HUVETURE OF STREET

I believe that this Nation should commit itself to achieving the goal, before this decade is out, of landing a man on the moon and returning him safely to Earth.

- JOHN F. KENNEDY





What is a Hill?

User-centered statements of intent that the entire team can rally around — so that everyone is pulling in the same direction.



You are capturing the essence of your idea so there is no question among your entire team about what you're trying to achieve.



You are elevating your idea to a concept that can lead to the best possible solution.



What makes a good Hill?

- 1. Be clear
- 2. Impact your user's pain point
- 3. Compelling
- 4. Measurable
- 5. Be achievable
- 6. Not prescribe a solution



How to build a Hill

Who

Specific user or class of users.

What

Specific user enablement.

Wow

Specific and differentiating value to the user.



Yellow flags in Hill-writing



Improve
Enhance
Better
Accurate
Easy-to-use

Quickly
Intuitively
Next-generation
Best-in-class

A Good Hill



Jack, a person with Type 2 diabetes, gets personalized meal plans and shopping lists that adapt to his changing health tastes in a matter of minutes.





A Bad Hill

Deliver a customizable dashboard to display data from various sources.

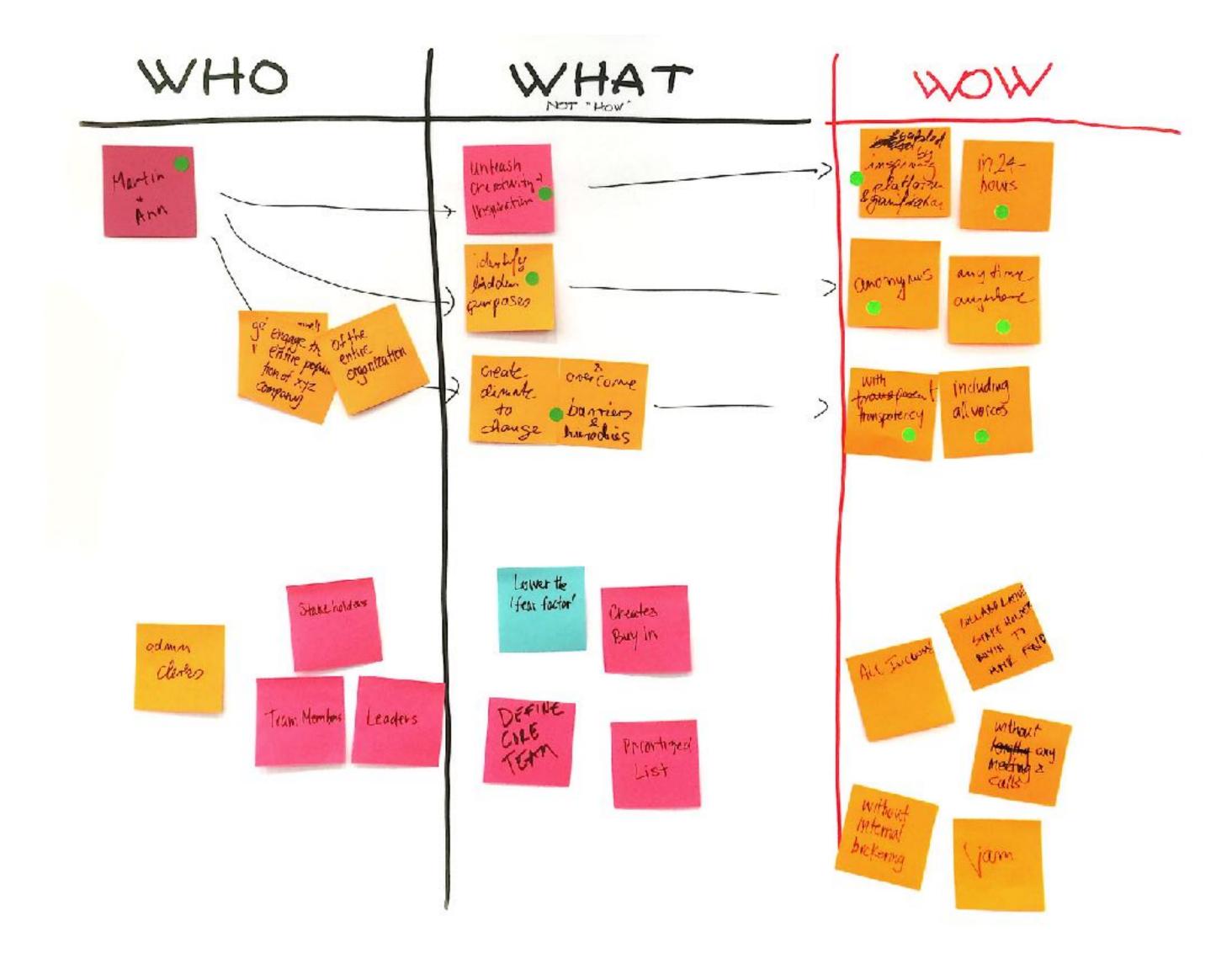


Another Bad Hill

Enhance customer experiences by providing digital applications in stores.



Exercise: Write Hills







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HILLS

Whos and Whats
Converge
Add Wows
Converge again
Write your hill

Pro-tip

- · Clear
- · Impact your user's pain point
- Compelling

- Measurable
- · Achievable
- · Not prescribe a solution



Storyboarding



What is storyboarding?

A way for us to visually communicate our own understanding of the user's future for team alignment.



What makes a good storyboard?

- 1. Tells a seamless future-state story with characters, a plot, conflict and resolution
- 2. Focuses on the user, and not screens
- 3. Is about how well you tell a story, not how well you draw it
- 4. Enable team discussion and alignment



What does it look like?



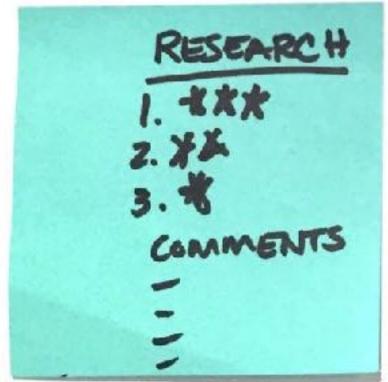
TOM EXPRESSES HIS NEED FOR MARKET INSIGHTS



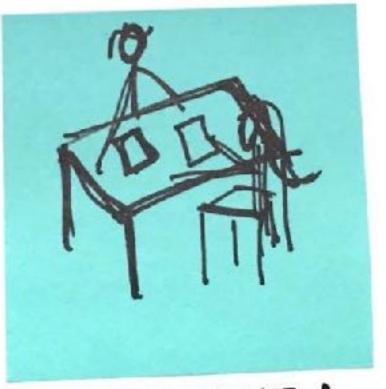
KATIE FUNDS AN IPAD FOR TOM WITH THE IBM MARKET APP.



TOM USES HIS NEW TOY TO TRACK TEM AND USER-GEN CONTENTY



THE CONTENT HAS USER RATINGS AND CONTENT



TOM SCHEDULES A FOLLOW-UP DISCUSSION FROM ACROSS THE INDUSTRY WITH KATIE ON SOME



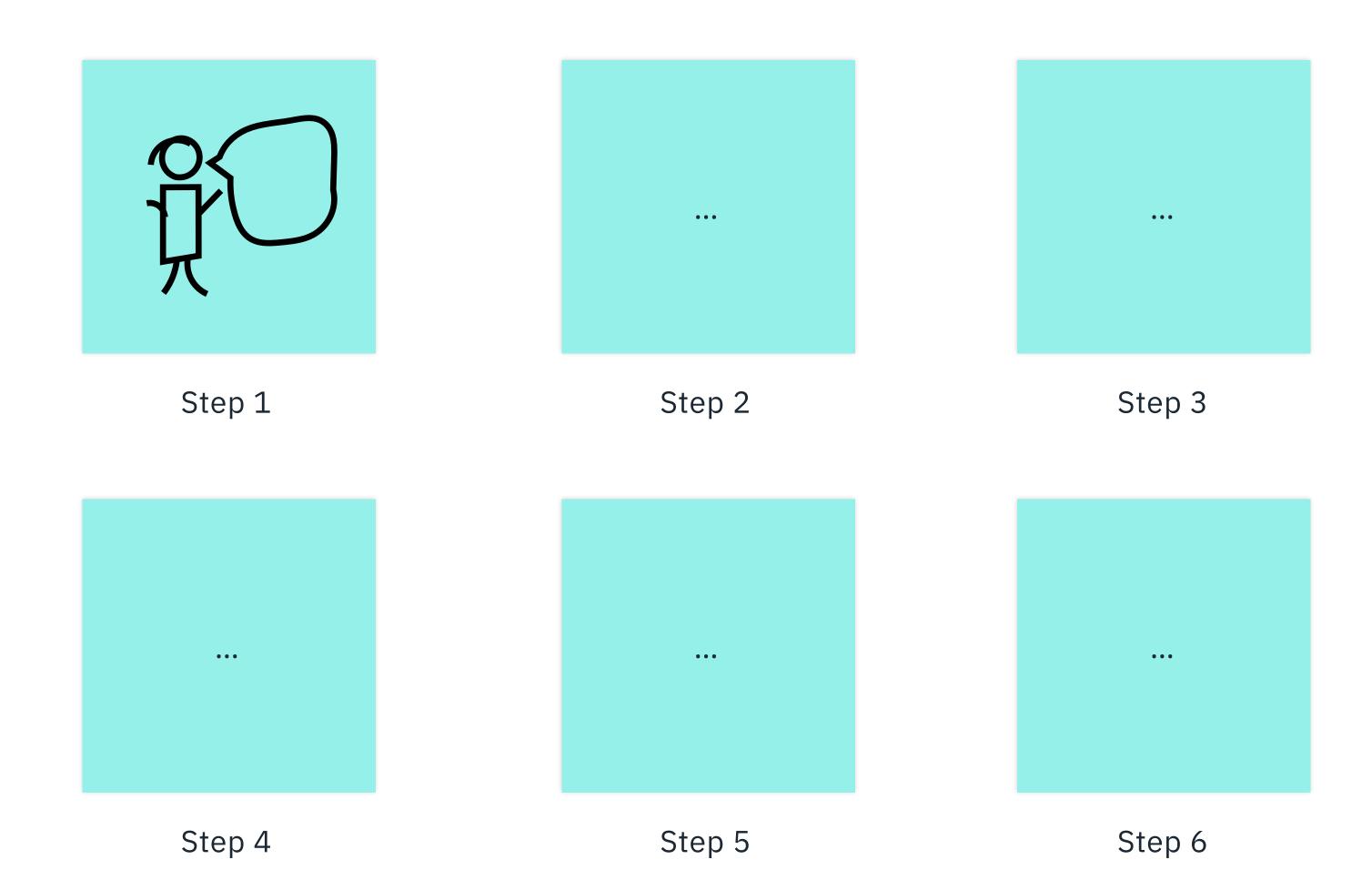
GOOD DISCUSSION AND KATTE IS GAINING TOMIS TRUST

Pro-tip:

· Using markers keeps it at the right level of fidelity



Team embers individually: Draw and Caption storyboards for 1 - 2 big ideas

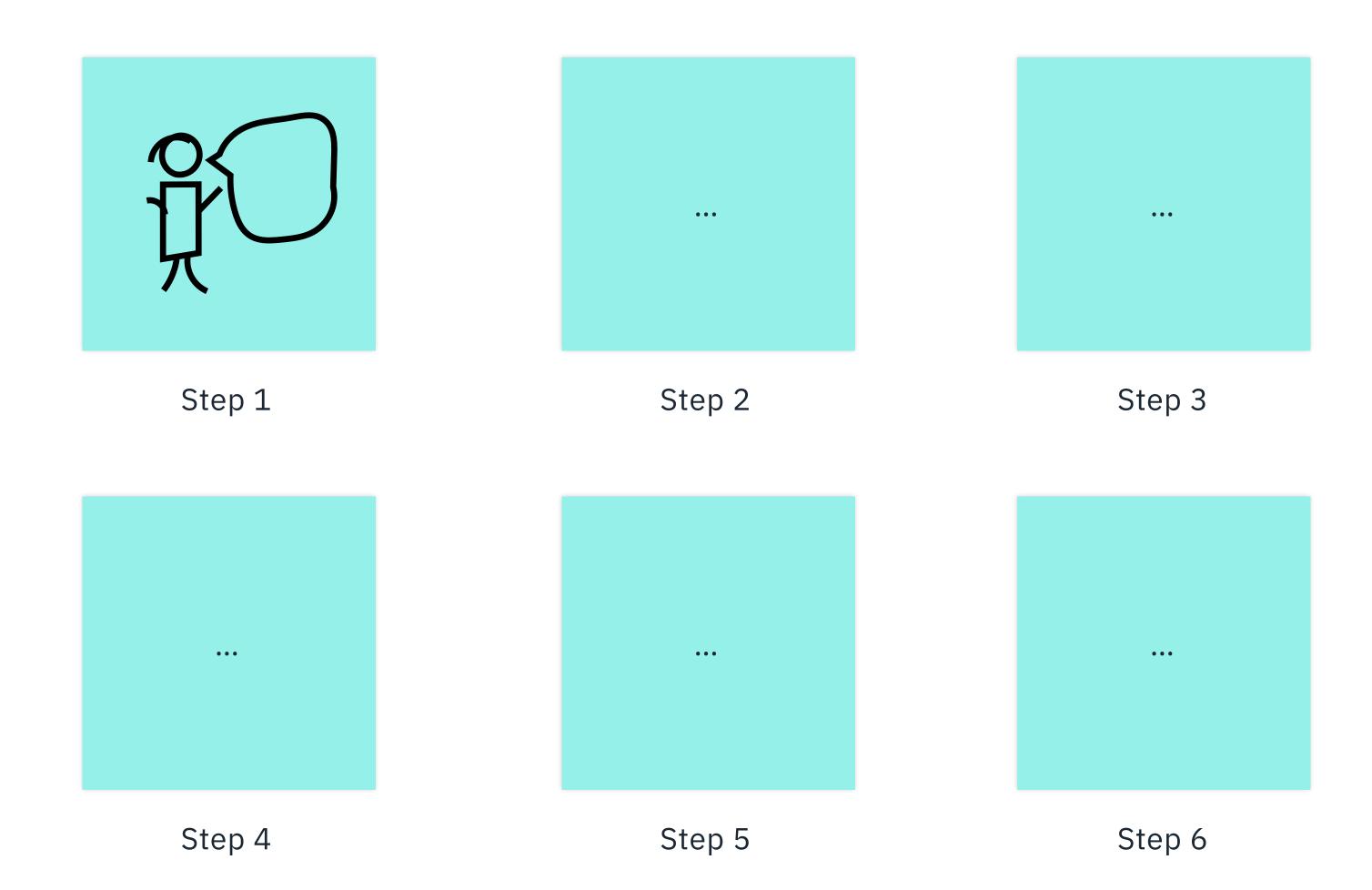




Reflect and consolidate



As a group, consolidate your storyboards into team version of 1 - 2 big ideas







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Prototype User Feedback



Prototype

Why prototype?

Understand as a team what you're building
Need it to test with users, get early feedback
Explain to your stakeholders and partners what you want to building

What is prototype and it is hard to create?

Prototype can be anything. Sketch on posted note —> fully functional pilot

Users Feedback

Why feedback?

Fail early — users will tell you if they love or hate your solution
Learn insights that only users can give you
Gain confidence that your solution is useful and will succeed
Make your business case stronger by documented positive feedback from users

How can you gather users' feedback?

User the prototype
Casual feedback —> Formal testing
Diverse groups of users

Questions •



Wrap up

