



Agile UX Research Practices in Android

Google I/O 2013

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Agenda

Challenges of UX testing for Agile Development

Case studies:

- Heuristic Evaluation

- RITE Study with Prototypes

- Cafe Study

- Pulse study

 - Deep dive

Wrap up





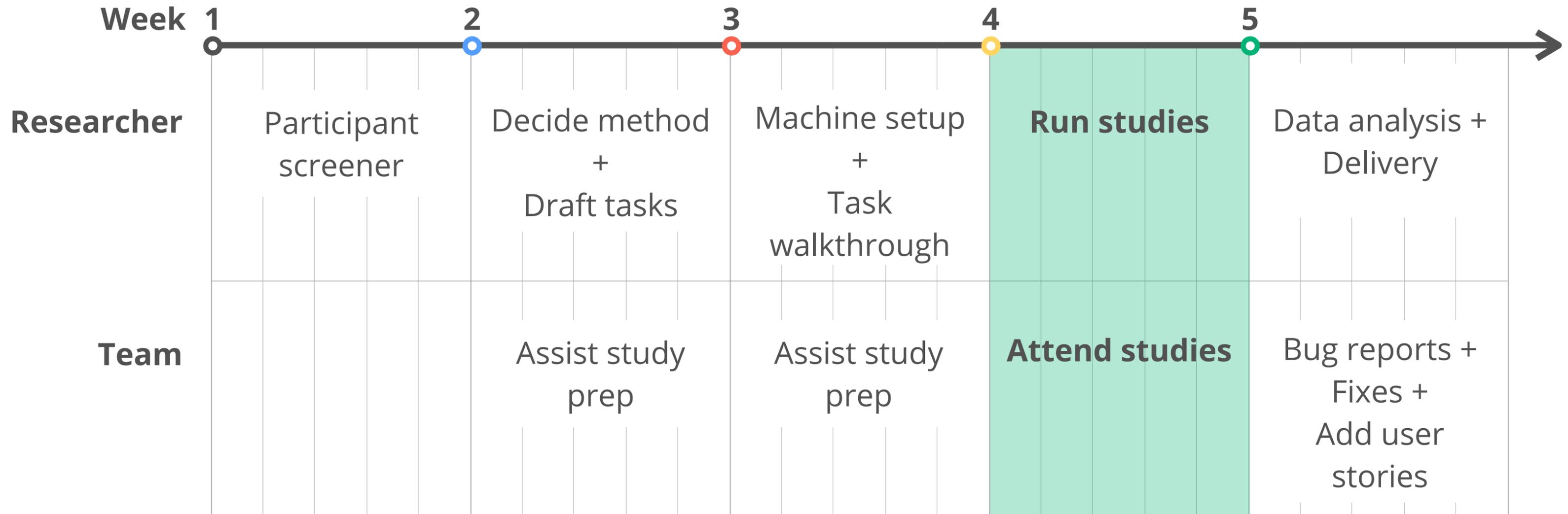
Challenges of UX Research for Agile Development

\$1 : \$10 : \$100





Traditional UX Research Study Timeline



Traditional UX Research Study Timeline

Week 1

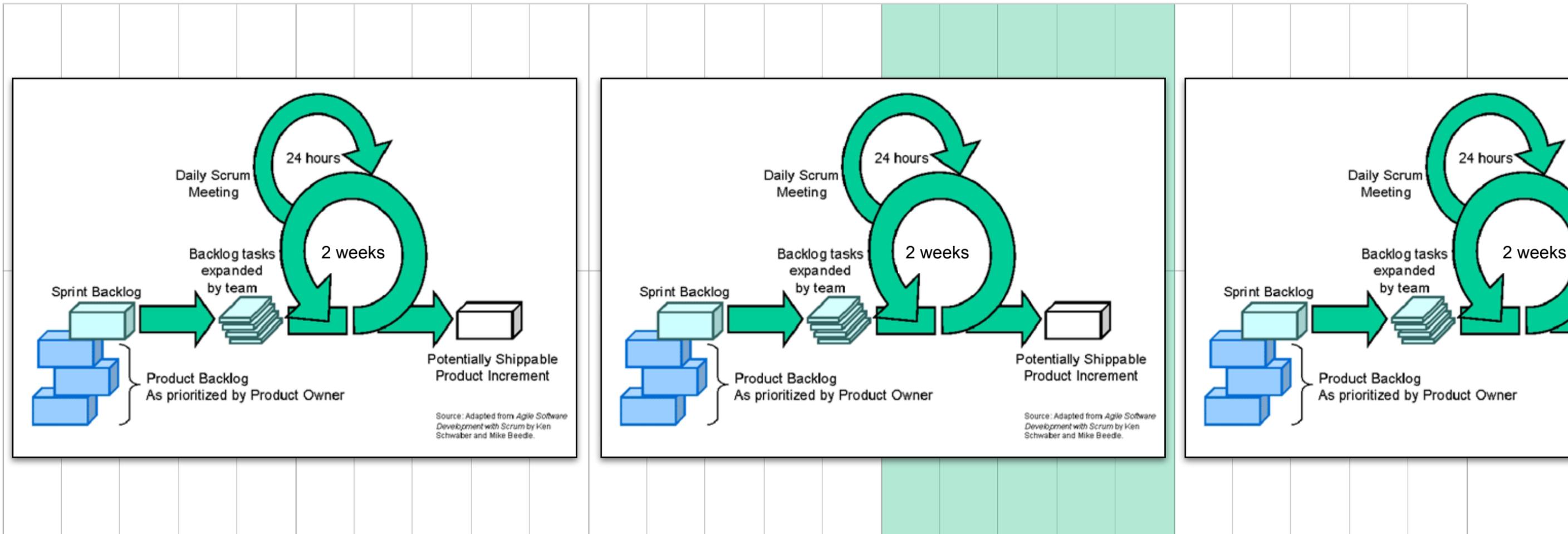
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3

4

5

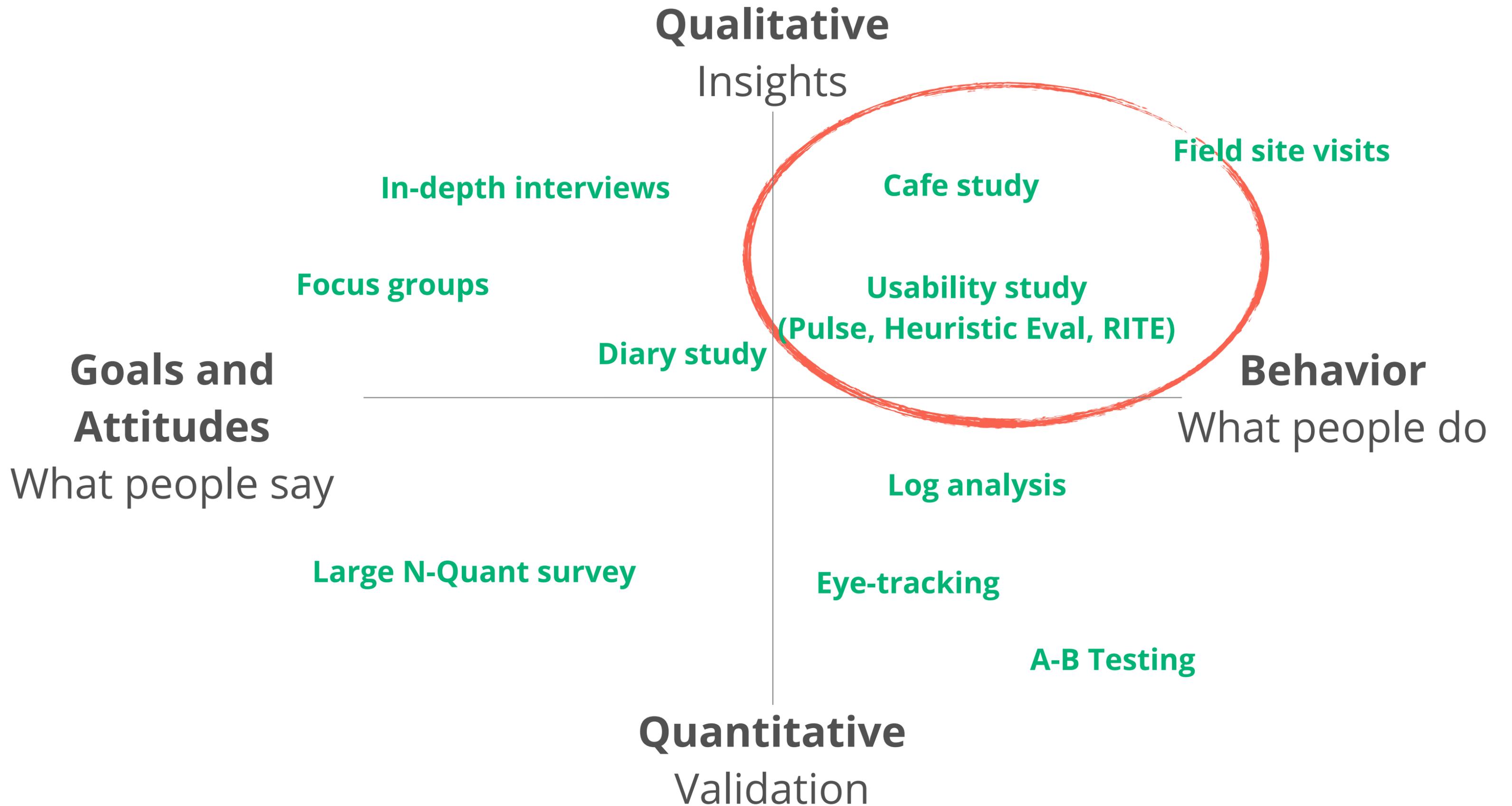
Development cycle





BEFORE coding
feedback **NOW**
analyze **QUICKLY**
NO TIME for everything







Case studies

Heuristic evaluation

RITE study with prototypes

Cafe study

Pulse study



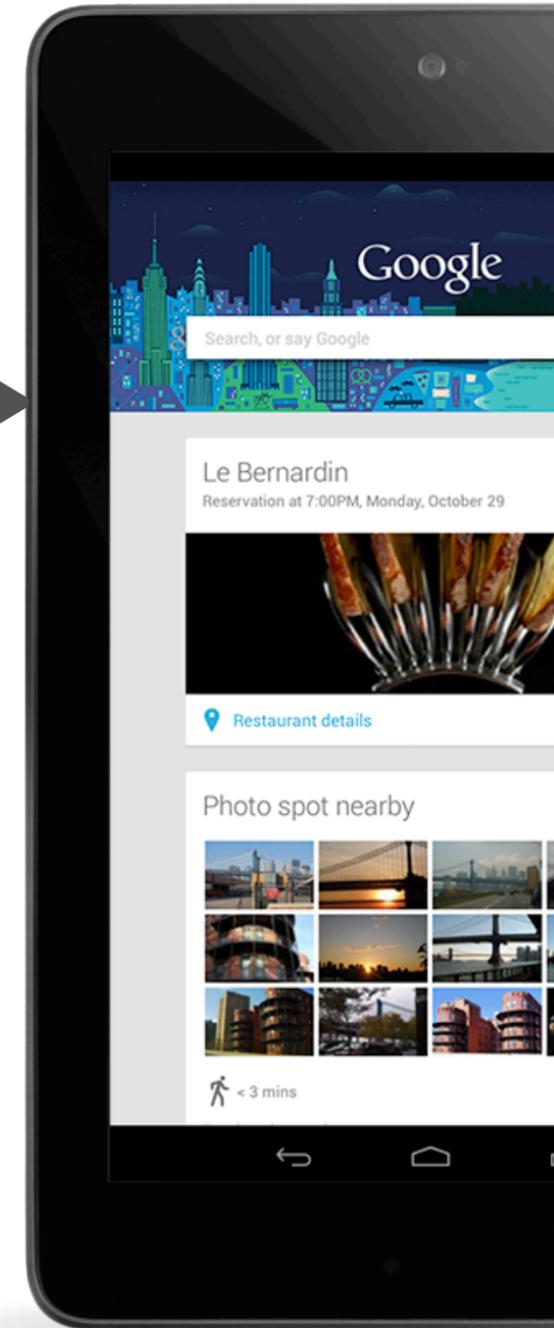
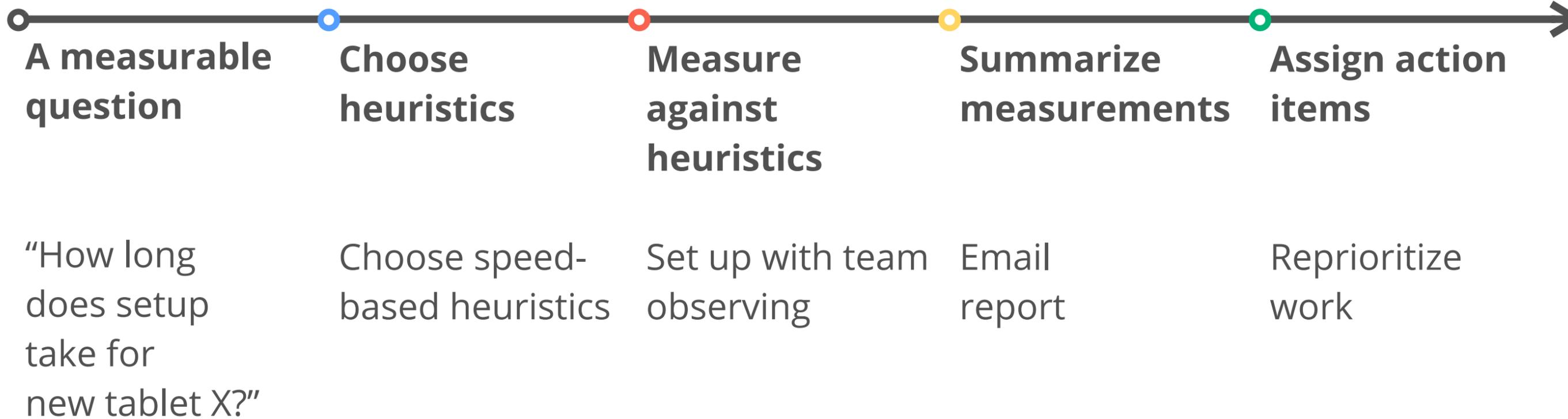
Heuristic Evaluation

Heuristic Evaluation

Expert review against
a set of principles

1-2 hours

Heuristic Evaluation Process



0
USERS

1
RESEARCHER



Quantified Evidence





RITE Study with Prototypes

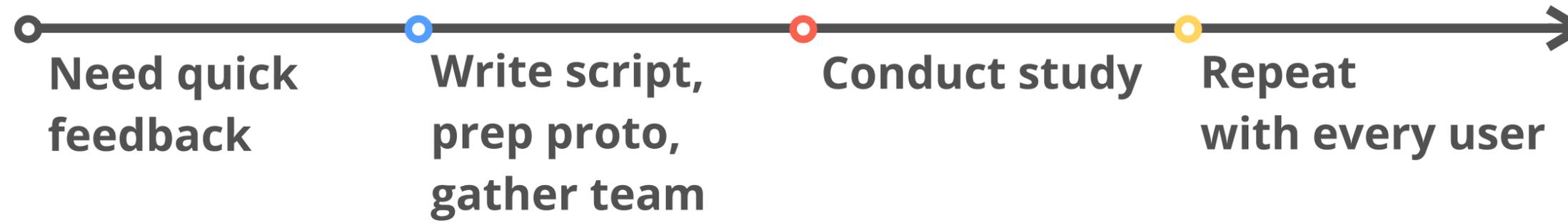


RITE Study with prototypes

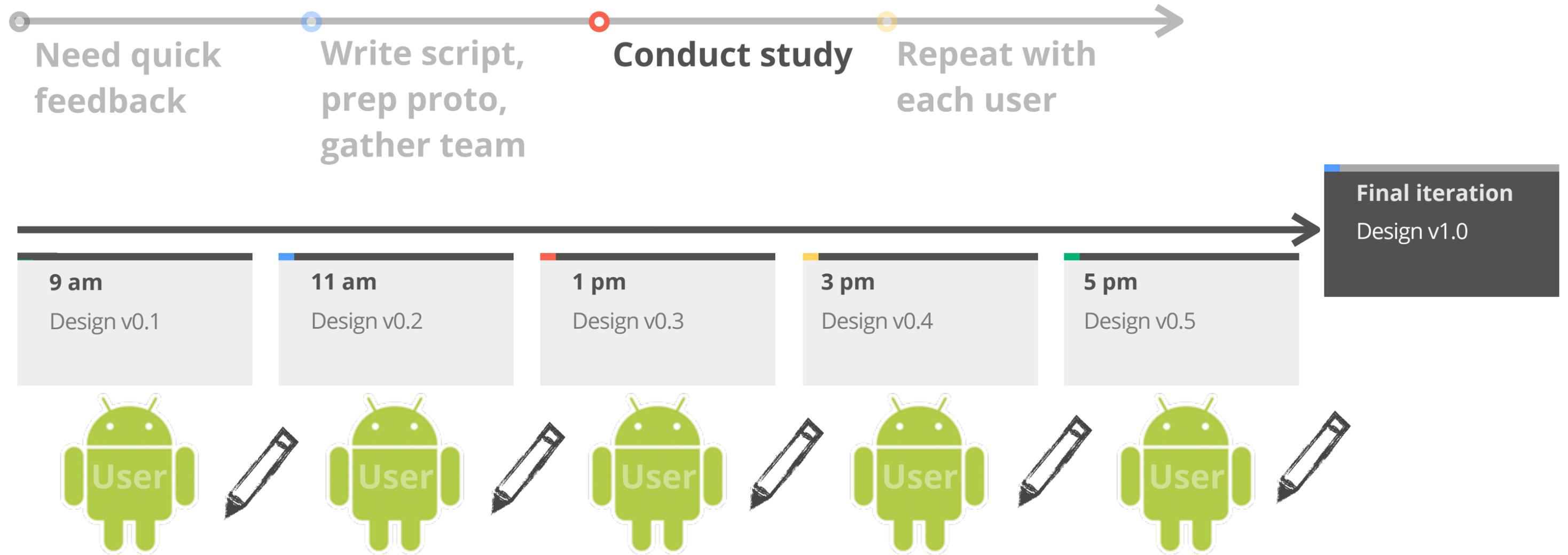
Rapid Iterative Testing & Evaluation

1-2 days

RITE Study Process



RITE Study Process: One day



RITE Study Process: Two days

Day 1

Day 2

9 am
Design v0.1

11 am
Design v0.1

1 pm
Design v0.1

9 am
Design v0.2

11 am
Design v0.2

1 pm
Design v0.2

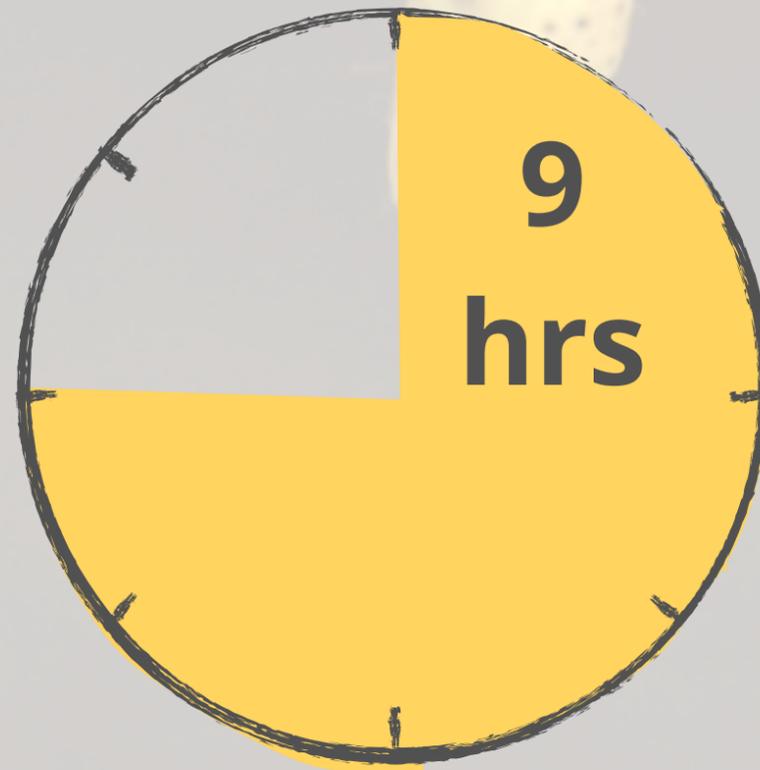
Final iteration
Design v0.3



5
USERS

1
RESEARCHER

1
DESIGNER



USABILITY LAB

Focused Change





Cafe Study

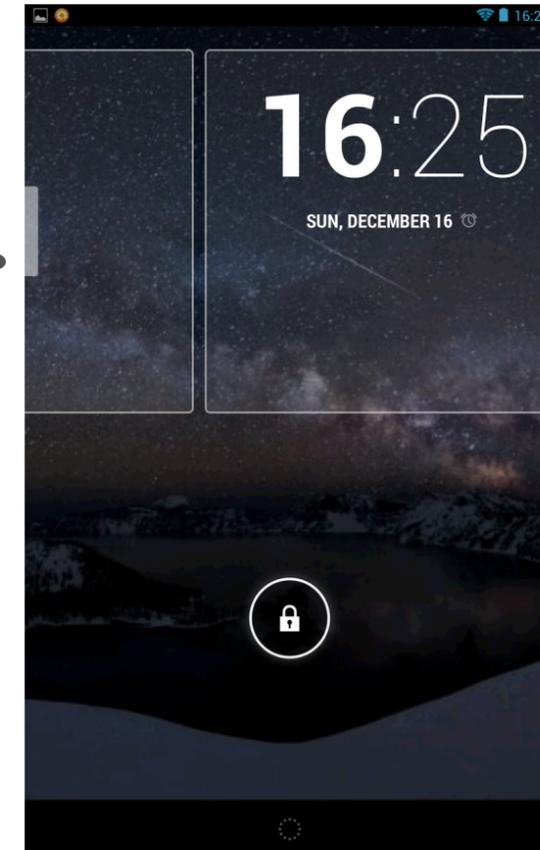
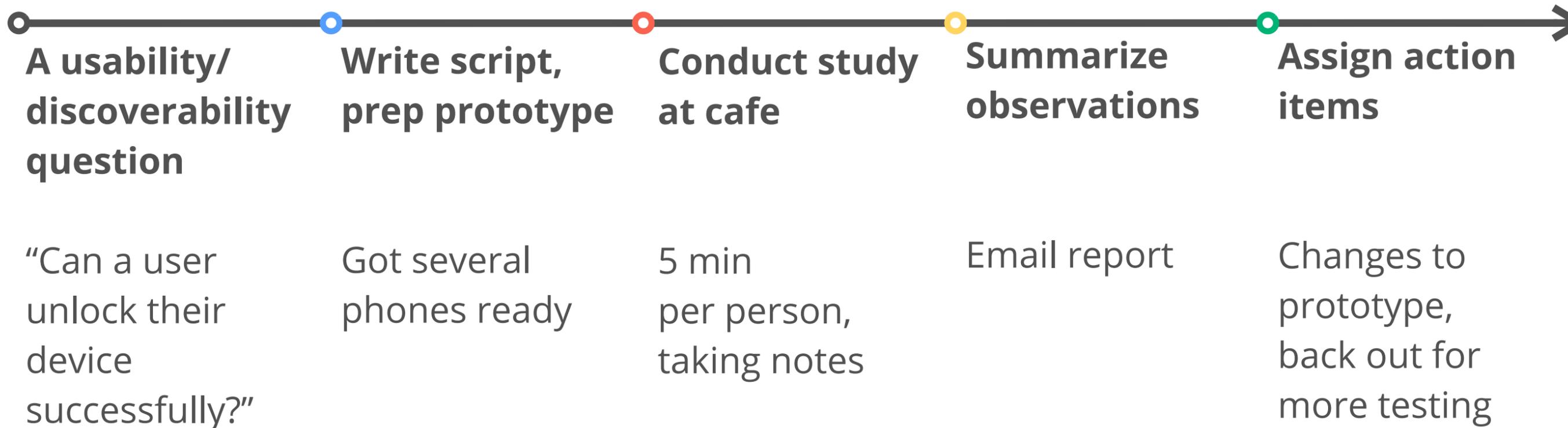


Cafe Study

Fresh eyes on small,
isolated usability
issues

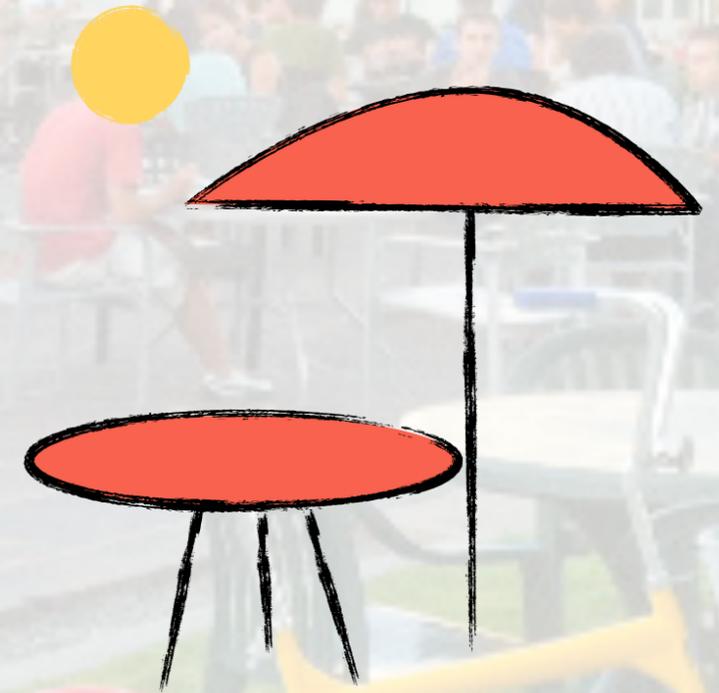
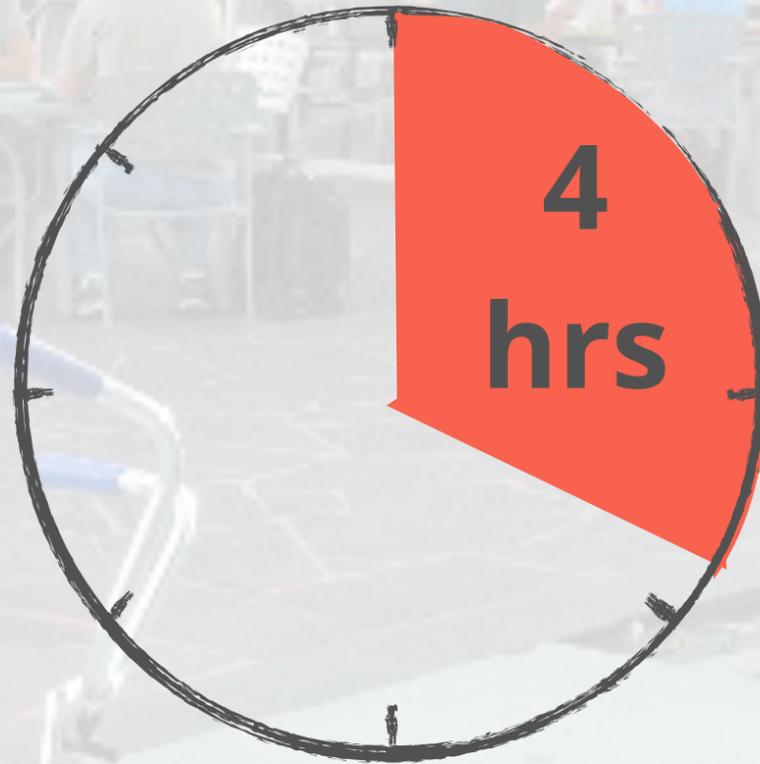
Half day

Cafe Study Process



18
USERS

1 RESEARCHER
1 HELPER



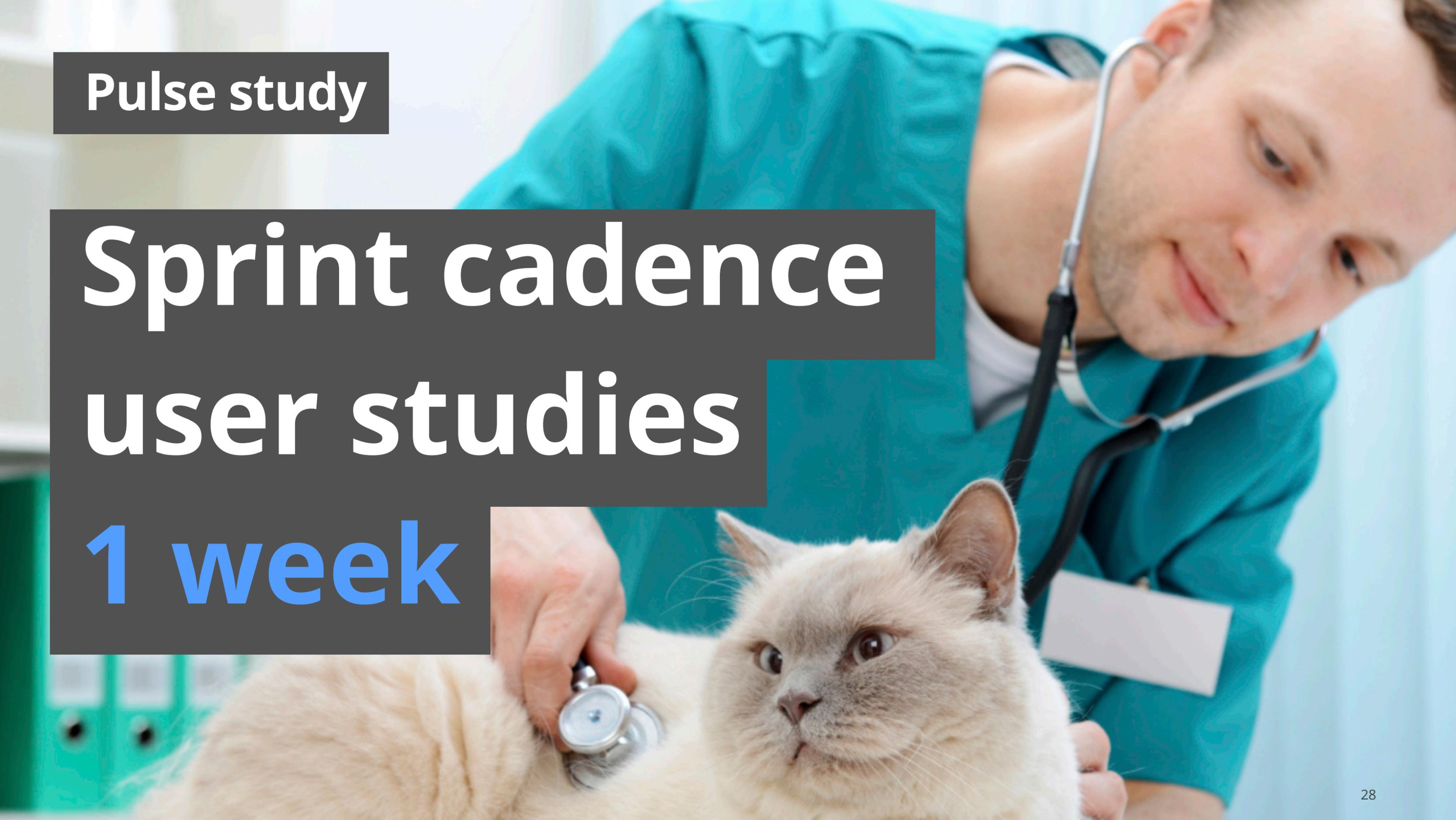
**CAFE, FARMER'S MARKET...
NOT YOUR OFFICE**

Quick Decisions





Pulse Study

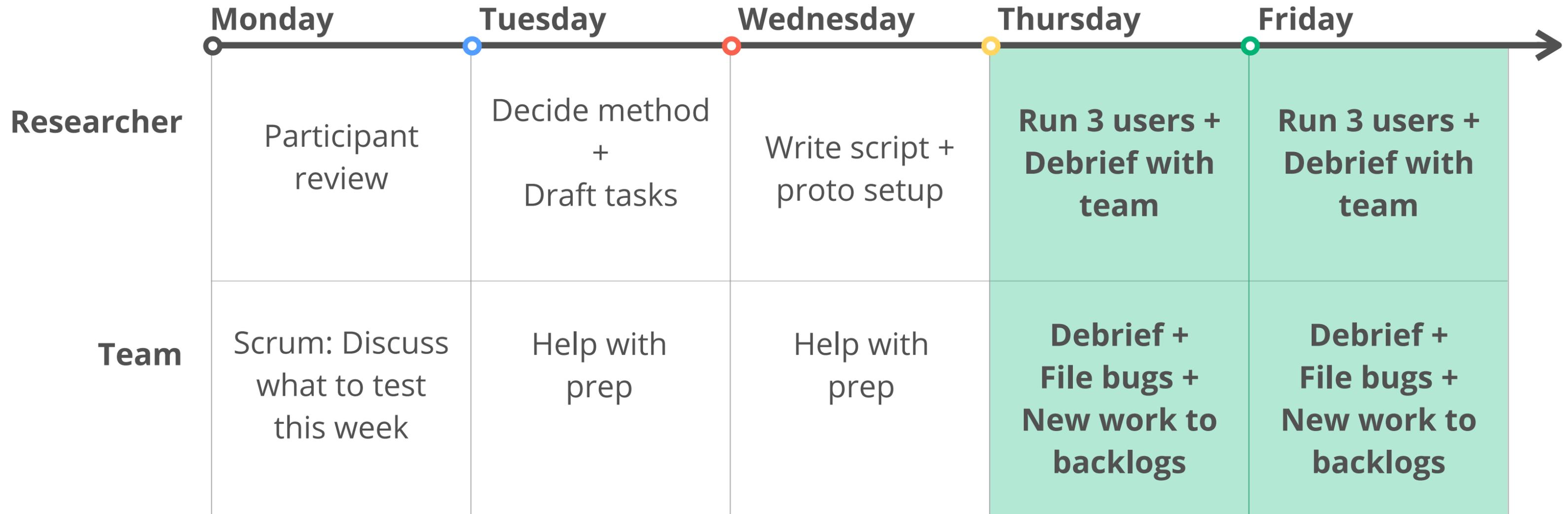
A veterinarian in teal scrubs is using a stethoscope to examine a light-colored cat. The veterinarian is looking down at the cat with a focused expression. The background is a clinical setting with a light blue wall and a green cabinet.

Pulse study

**Sprint cadence
user studies**

1 week

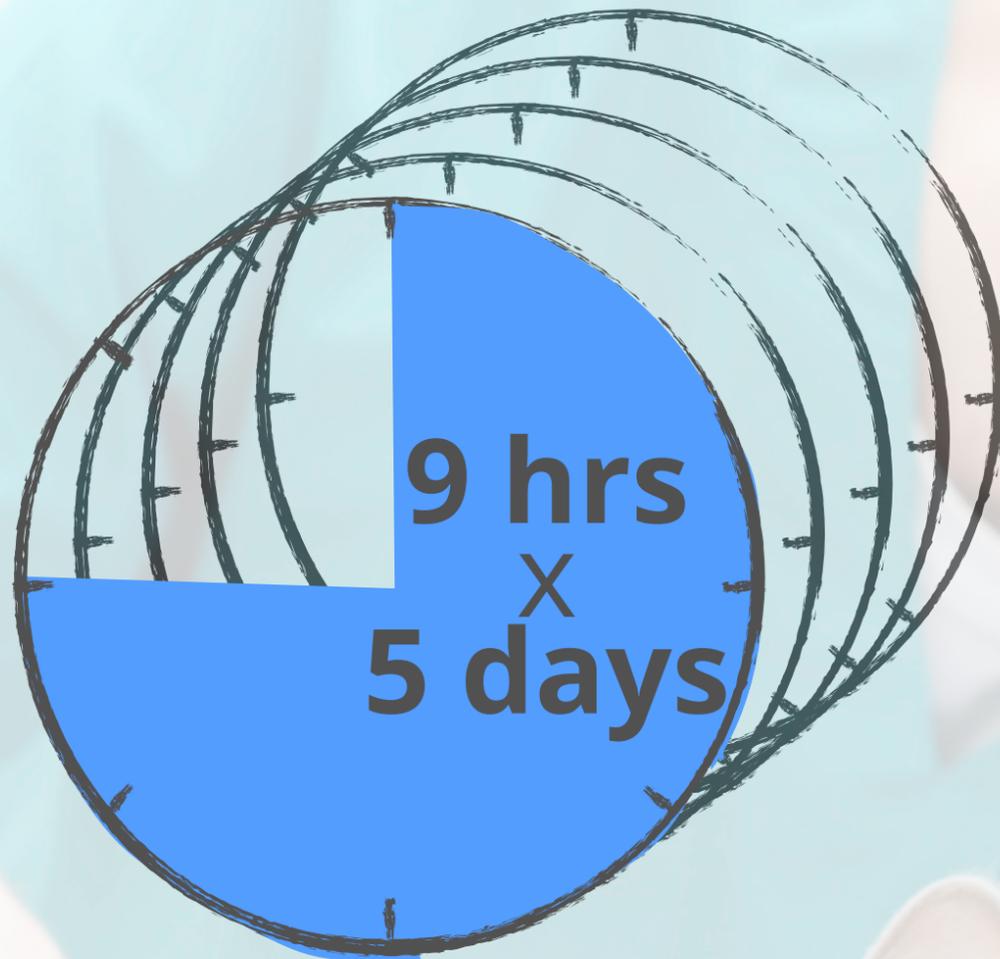
Pulse Study Process



6
USERS



1 RESEARCHER
X OBSERVERS



USABILITY LAB

Flexible research framework



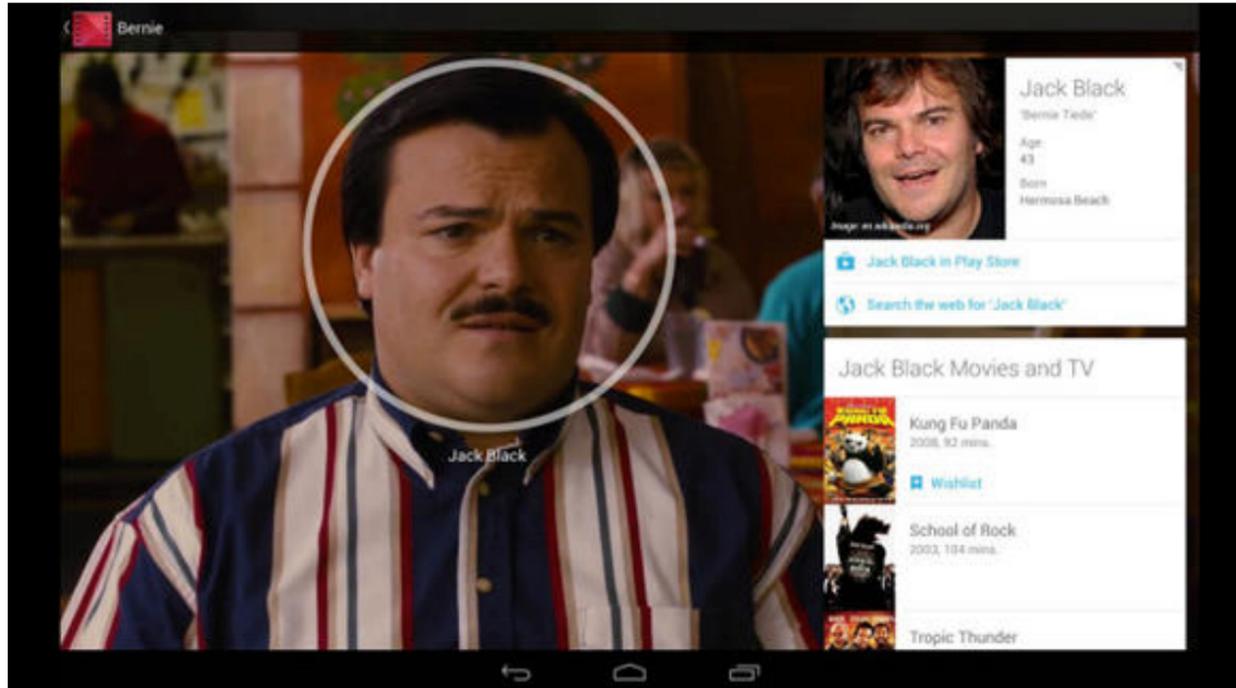


Pulse Study Deep Dive

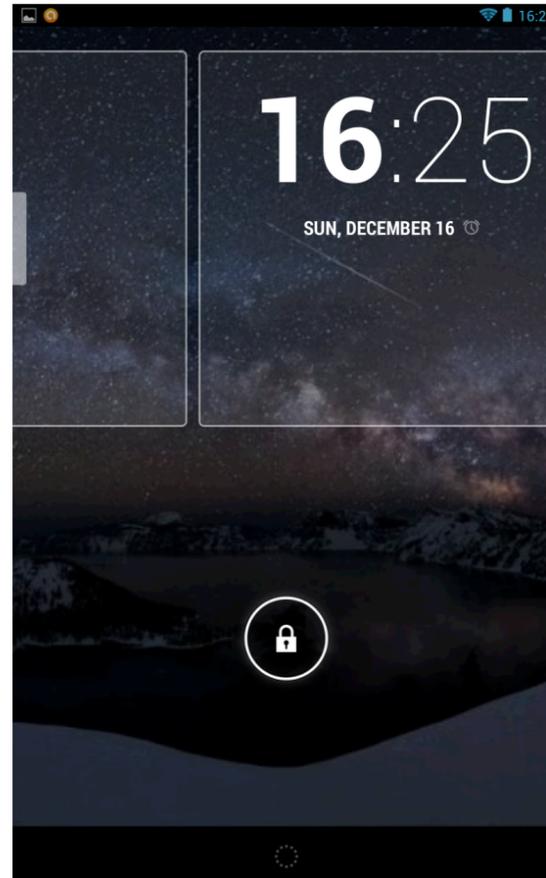
Pulse Study Step 1: Preparation

What are we testing?





Sprint build
by product manager



Prototype
by UX designer



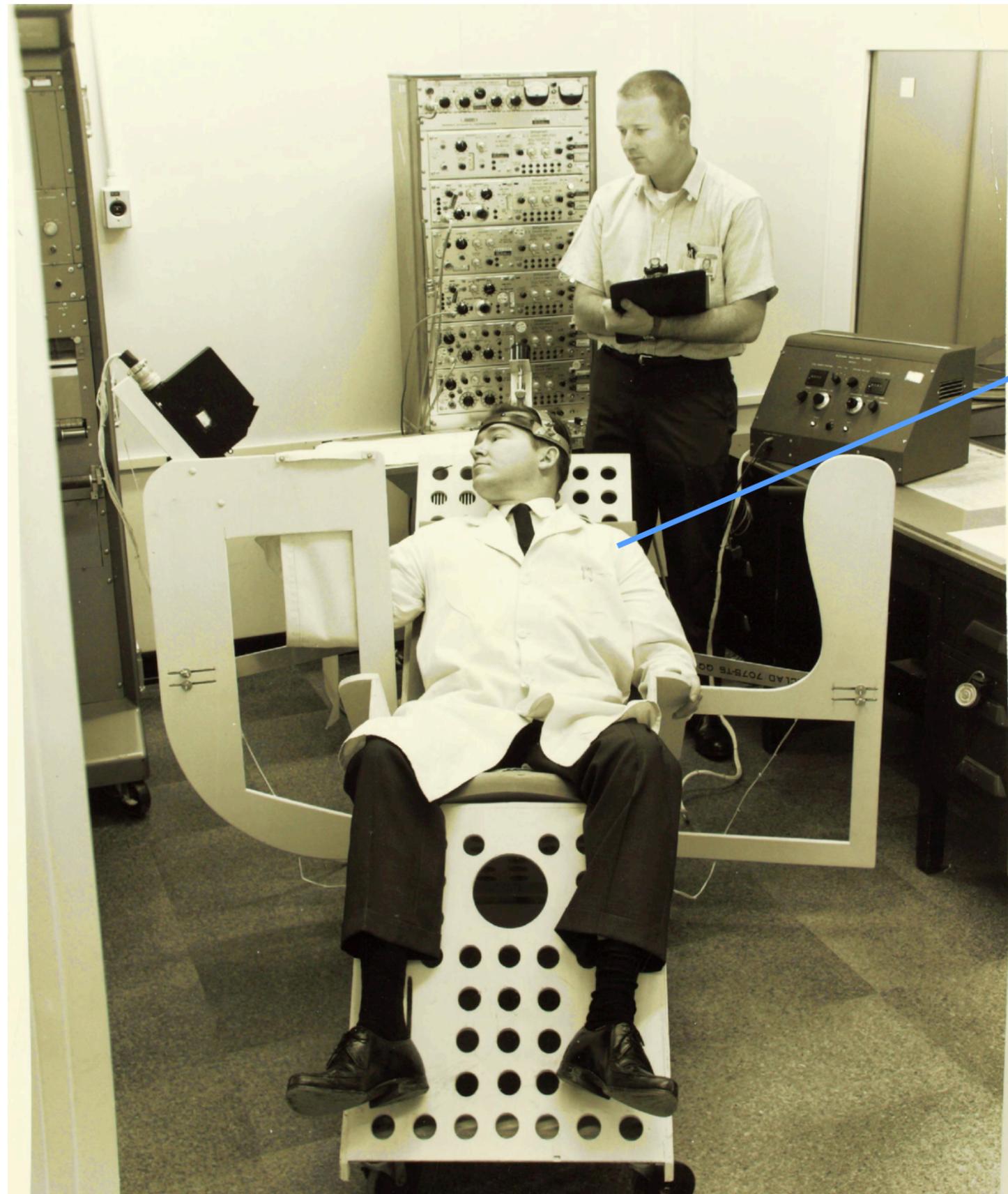
OUBE
by industrial designer



Pulse Study Step 1: Preparation

Who are we inviting?





Internal Googler?
External user?
Target a profile?



Pulse Study Step 1: Preparation

Who is doing what?



Researcher

Observer

Observer

Note-taker



Pulse Study Step 2: Lab Setup

Where are we testing?

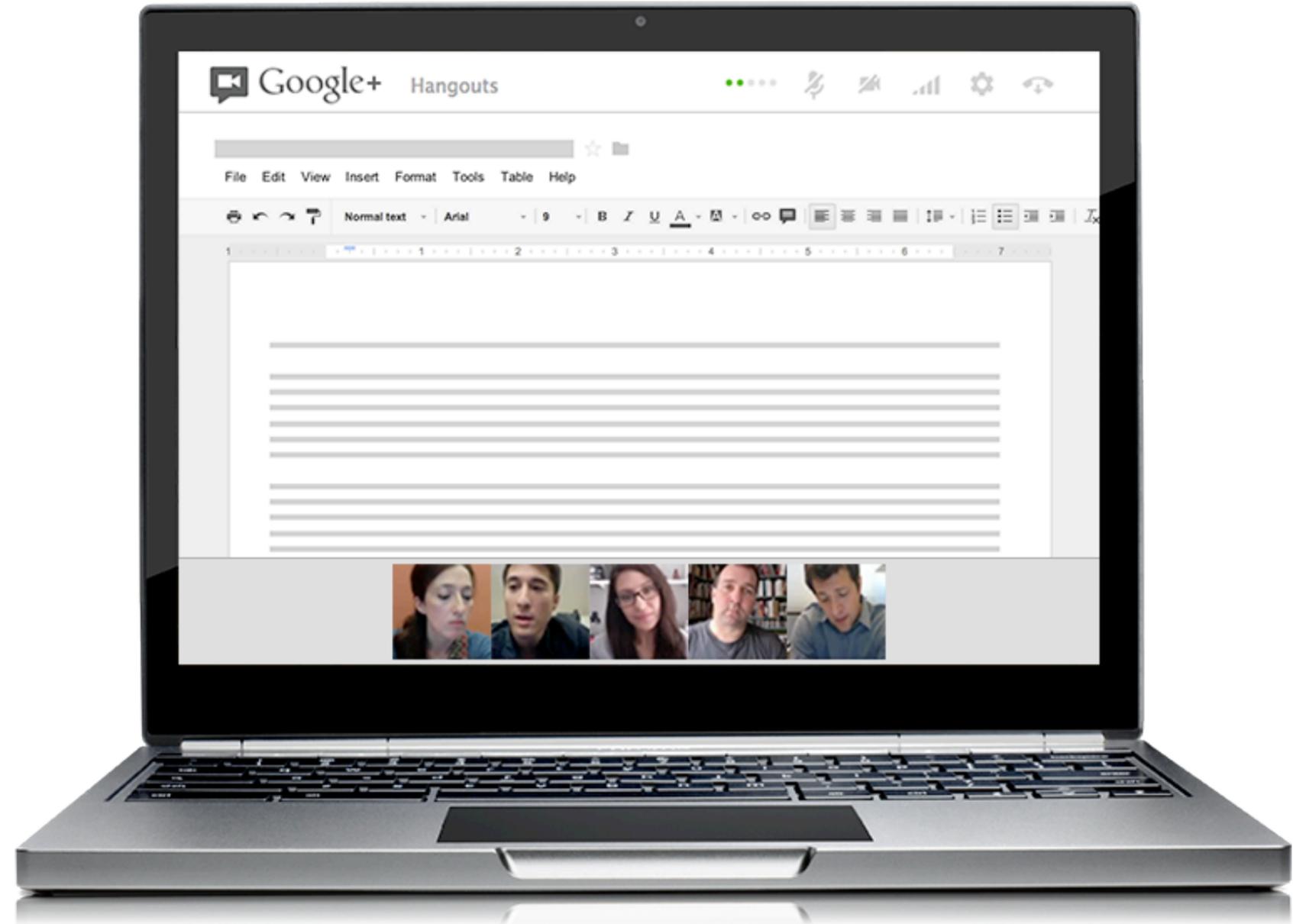








Or,



Pulse Study Step 3: Execute

GO!

I have a user in front of me! What do I do?

“Hi, thank you for helping us!”

“We’re not testing you, we’re testing the product.”

“What did you mean by that?”



What do I **not** do?

“Isn’t this a great product?”

“Seriously, I can’t believe you didn’t know that.”

“That’s still wrong. You have to keep trying.”



Use checkboxes

- Did user notice the button?
- Did user discover the icon?
- Did user use the tool?



Pulse Study Step 4: Debrief with Team

**What happened and
what can we do about it?**



Filing bugs

Listing action items

Reporting key findings

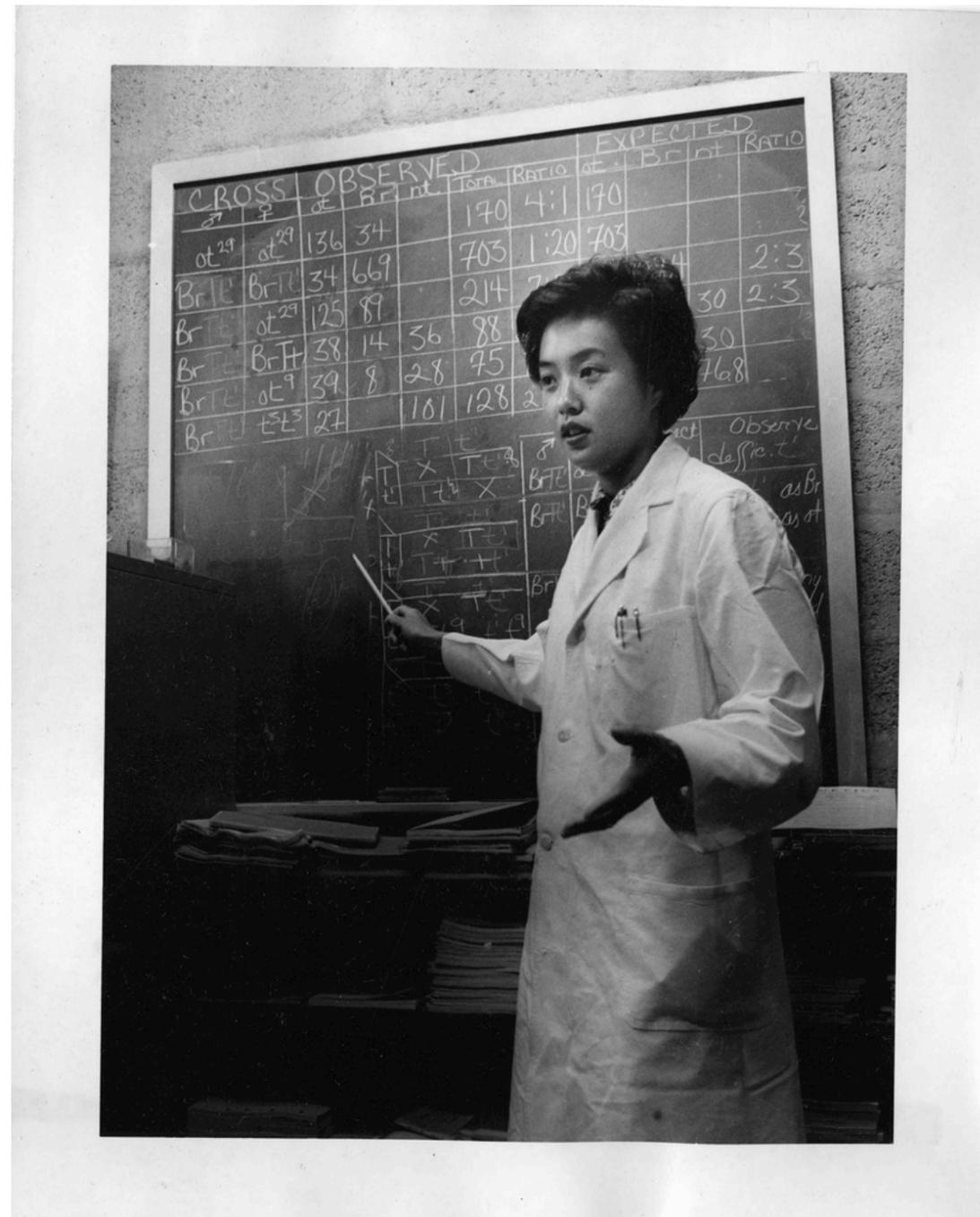
Noting design fixes



Pulse Study Step 5: Communication

What should we remember?





Quick summary by email +
Brief presentation to wider team

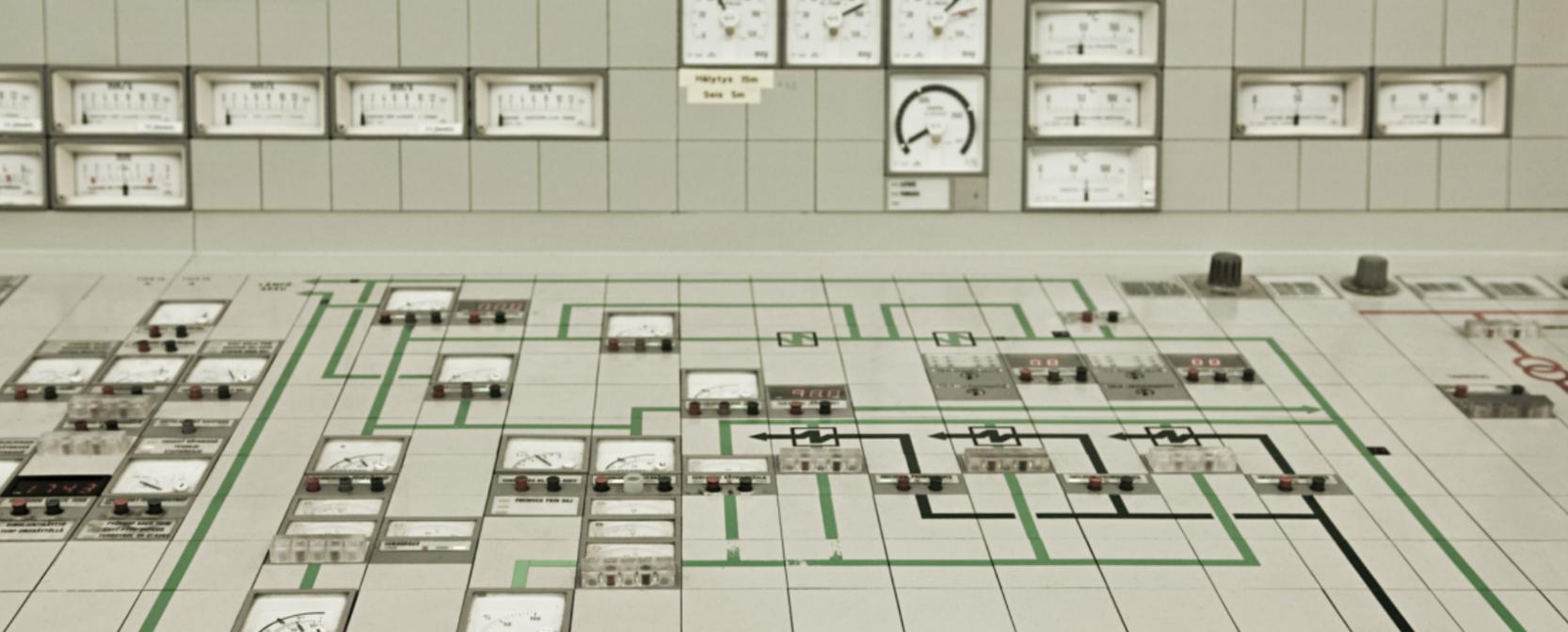




Wrap up

FAQ





\$1 : \$10 : \$100



Thank You!

Stop by our office hours after the talk to get started on conducting your own study!

Bethany Fong

Miki Konno

#Androiddesign on Google+





Google
Developers