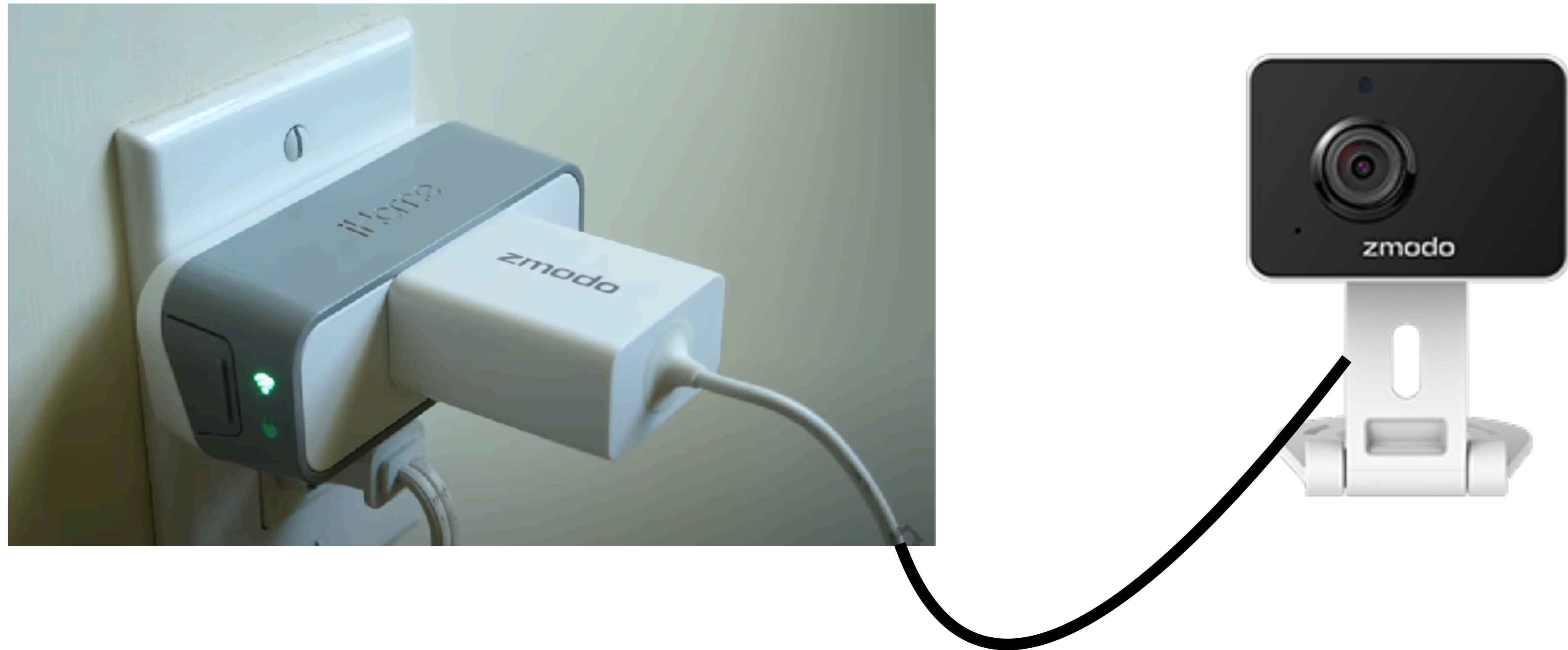# Exploring the Needs of Users for Supporting Privacy-Protective Behaviors in Smart Homes

Haojian Jin, Boyuan Guo, Rituparna Roychoudhury
Yaxing Yao, Swarun Kumar, Yuvraj Agarwal, Jason I. Hong

Home security camera + smart plugs

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

Users are improvising tricks to protect their privacy.

Posted by u/Thematturals 4 years ago

3

Wyze Cam into a smart plug?

Has anyone used a smart plug to control when the wyze cam is on? I would like it to only notify me when I am not home l, but would turning the camera on and off cause any issues?

💬 10 Comments   ↗ Share   🔖 Save   👁 Hide   🚩 Report   81% Upvoted

---

Home Security Camera Privacy...Solved with Smart Plugs!

6,687 views   👍 169   👎 DISLIKE   ↗ SHARE   ↓ DOWNLOAD   ✂ CLIP   ≡+ SAVE   ...

Smarter Home Life
34.7K subscribers

SUBSCRIBE

Home security camera companies would love for everyone to install their cameras both outside AND inside your home. But isn't that a little bit creepy? To be sure that your security camera isn't monitoring you when it shouldn't be, automate its power with a smart plug. It's really simple to do and doesn't require a "smart home system" either.

Posted by u/johnkhoo 1 year ago

32

Guest Mode: An easy privacy control for your home devices

blog.google/produc... ↗

Google

💬 7 Comments   ↗ Share   🔖 Save   👁 Hide   🚩 Report   88% Upvoted

---

Posted by u/TheGreatestCapybara 3 years ago

2

Recommendations for a home camera respecting my privacy

My apartement was robbed a couple of days ago, and I'm looking for an indoor camera to install in front of my door in case it happens again (mainly because my girlfriends wants one). But I'm generally mindful of my privacy online, and having a camera inside my house is extremely worrying to me. Here's what I would want, ideally :
- No Amazon or Google cameras, I don't trust these companies
- Local storage and backup to the cloud, ideally one that I can host myself (I'm thinking of getting a VPS for a bunch of other things). I would need the cloud backup to be done quickly, in case the burglar sees the camera when entering and smashes it straight away.

Posted by u/kmg6284 1 year ago

0

use of wyze cams inside your home

i have 3 of the cams setup on the exterior of my house. i never considered using them on inside of house plus the family had NO interest in being subject to video recording while indoors. if you use the cams indoors, why ? if your answer is "to watch the house" then wouldn't using cams on the exterior of house accomplish the same thing while not invading privacy of your family members?
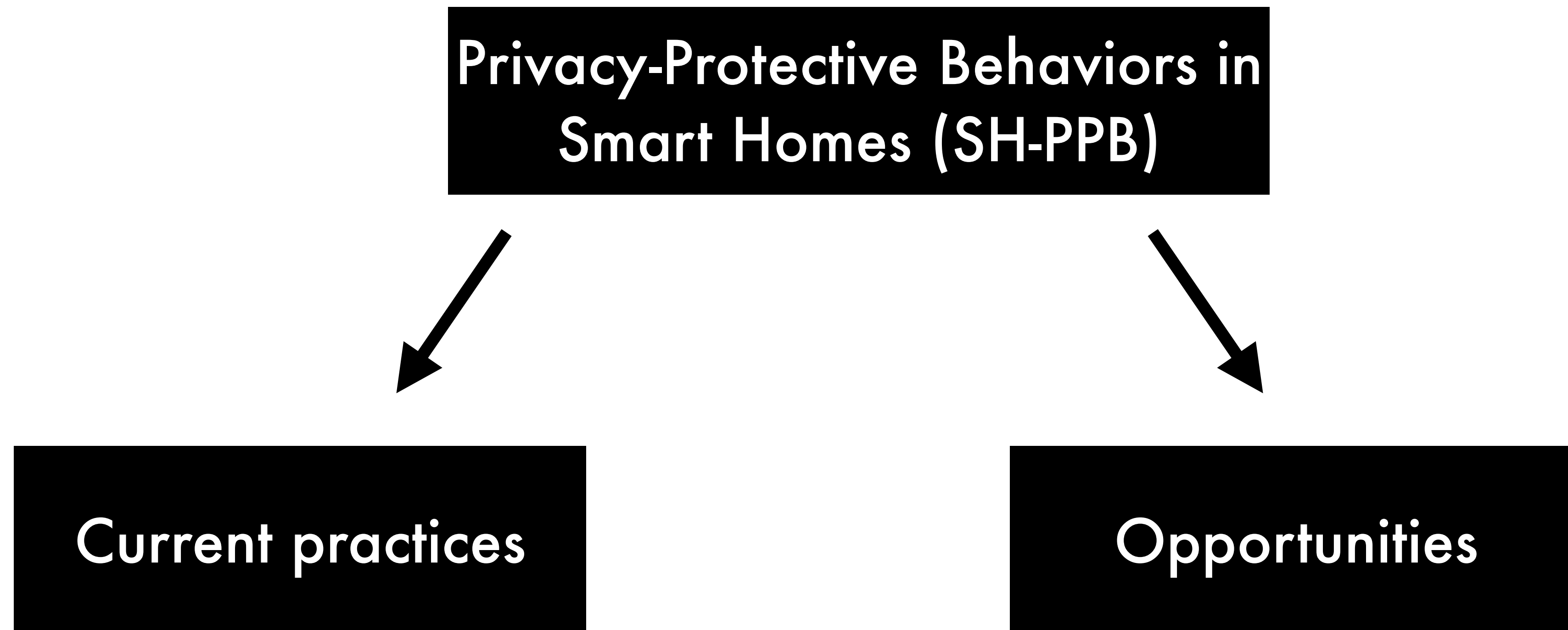
💬 29 Comments   ↗ Share   🔖 Save   👁 Hide   🚩 Report   40% Upvoted

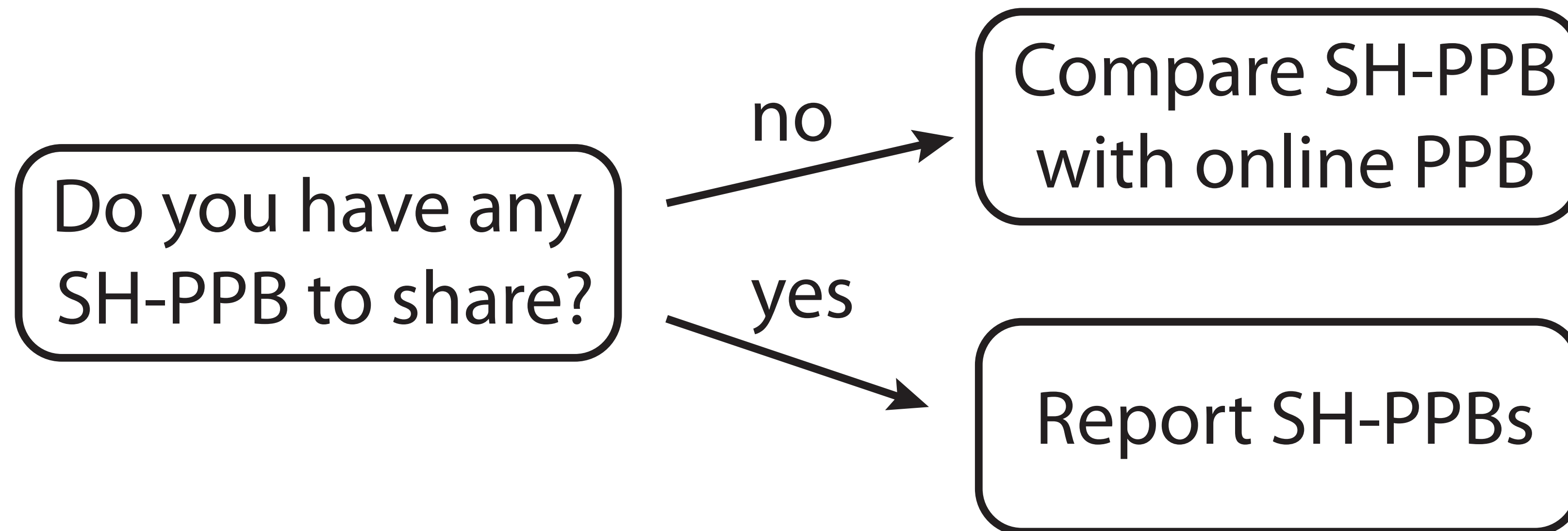Log in or sign up to leave a comment   [Log In]   [Sign Up]

3

Research goals

Privacy-Protective Behaviors in Smart Homes (SH-PPB)

Current practices

Opportunities

Current practice inquiry surveys (N=159)

Do you have any SH-PPB to share?

no → Compare SH-PPB with online PPB

yes → Report SH-PPBs

Generate storyboards about privacy protection

Context

Problem

Privacy protection concept
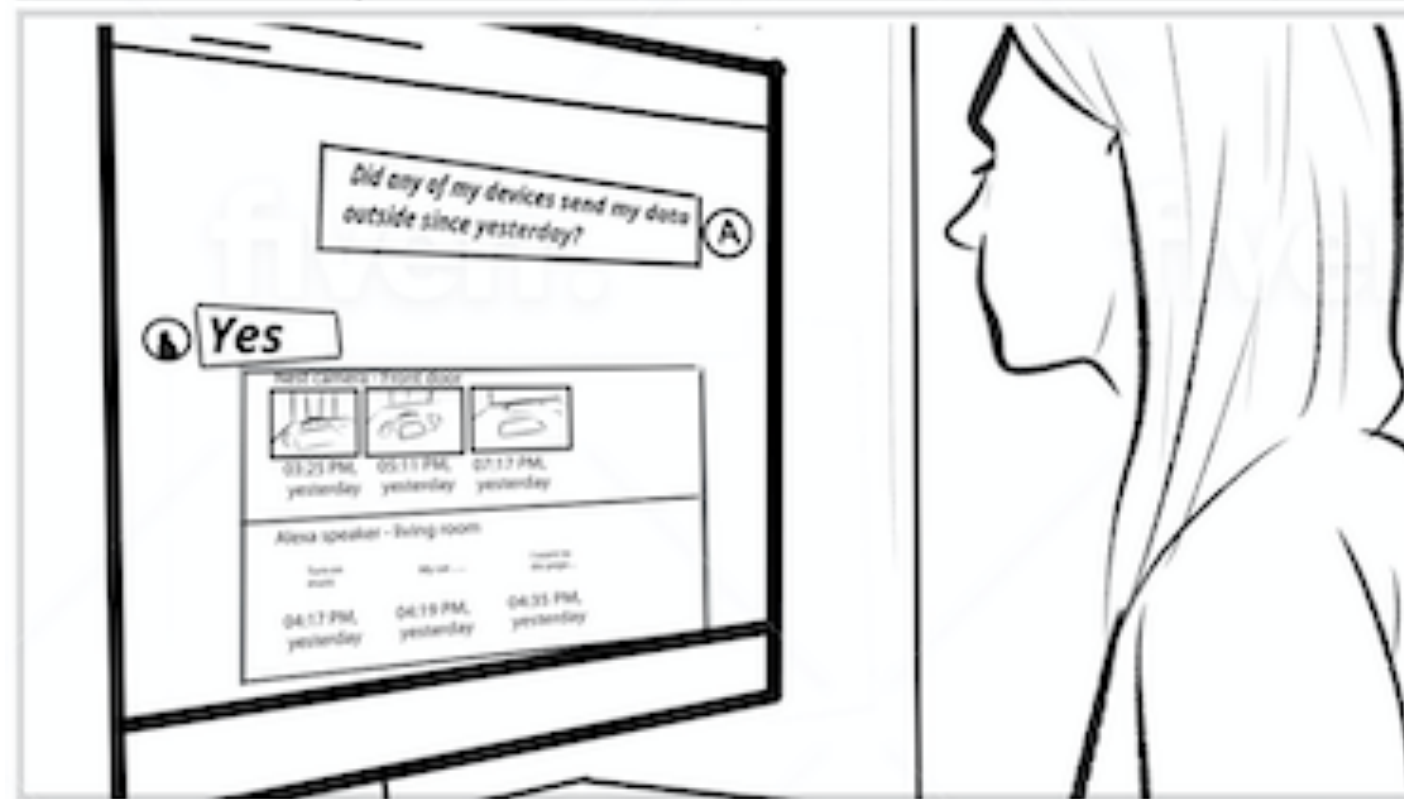
Users' reactions

Seek privacy protection concepts to address needs

Lifecycle

Install	#11 Privacy Nutrition Labels	#10 Privacy Simulator	#6 Identity-based Data Management
Routine	#1 Anthropomorphism #2 Privacy Presets	#5 Data Collection Live Monitor	#7 Privacy Mirrors #9 Contextual Privacy Reminders
Deviate	#4 Guaranteed Protection	#3 Privacy Chatbot	#8 Privacy diagnostic
	Low	**Medium**	**High**

Proactivity
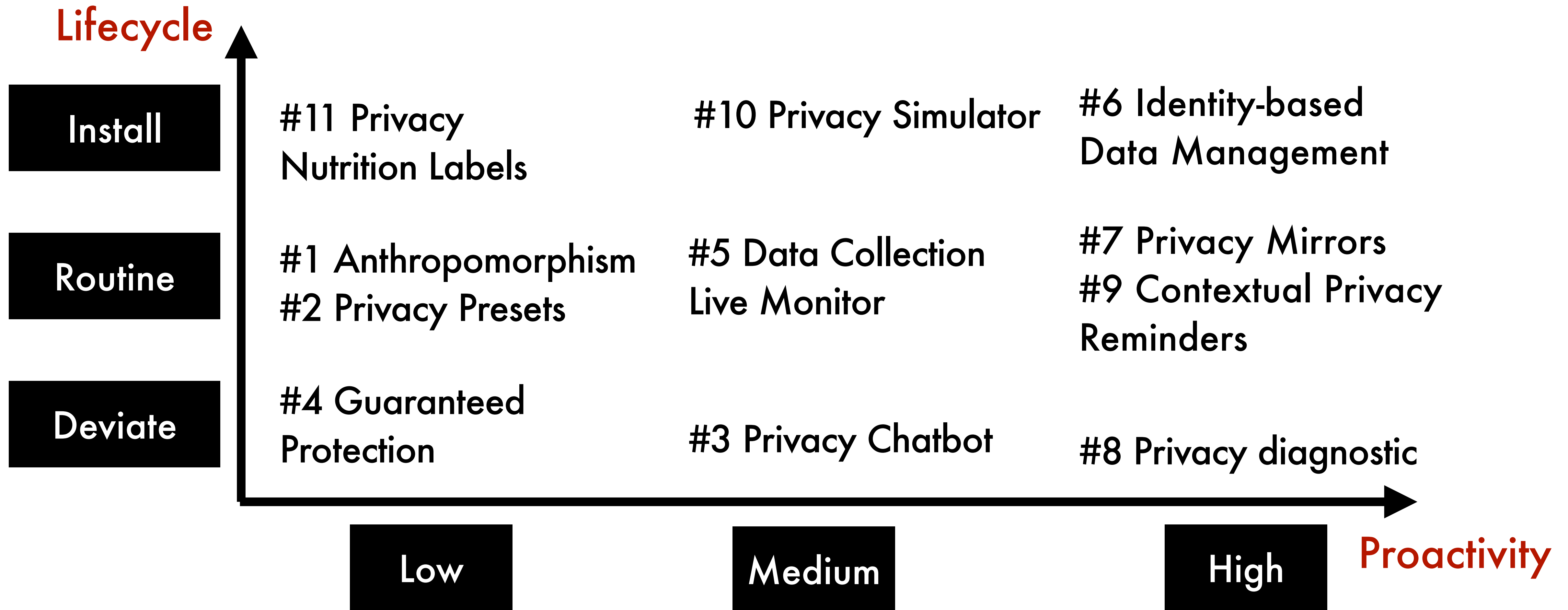
Speed dating surveys (N=227)

Each participant critiques and ranks three storyboards.

Current practices

52% participants have SH-PPB

33 unique SH-PPBs

71% SH-PPBs leverage physical control (e.g.,

powering off, blocking, dodging cameras)

70% SH-PPBs protect participants and their families

Users' needs

18 types of wishlist features

- Better on/off control (most common)

- Fine-grained data collection

- Better awareness

- Usability

3 barriers for SH-PPB

- Awareness

- Ability

- Motivation

See details in the paper

The Plackett-Luce method
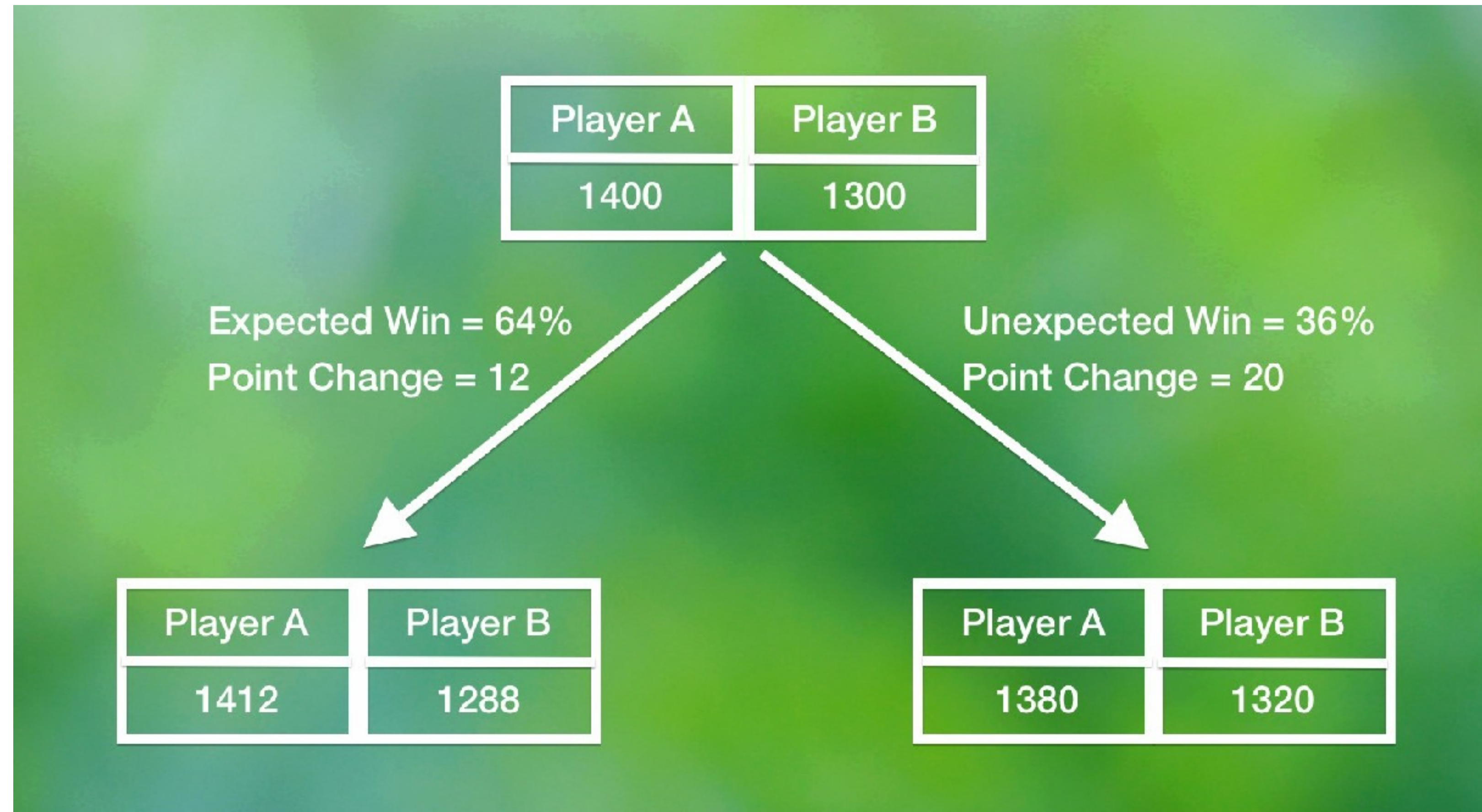
similar to how the rating system ranks chess players.

Privacy diagnostics
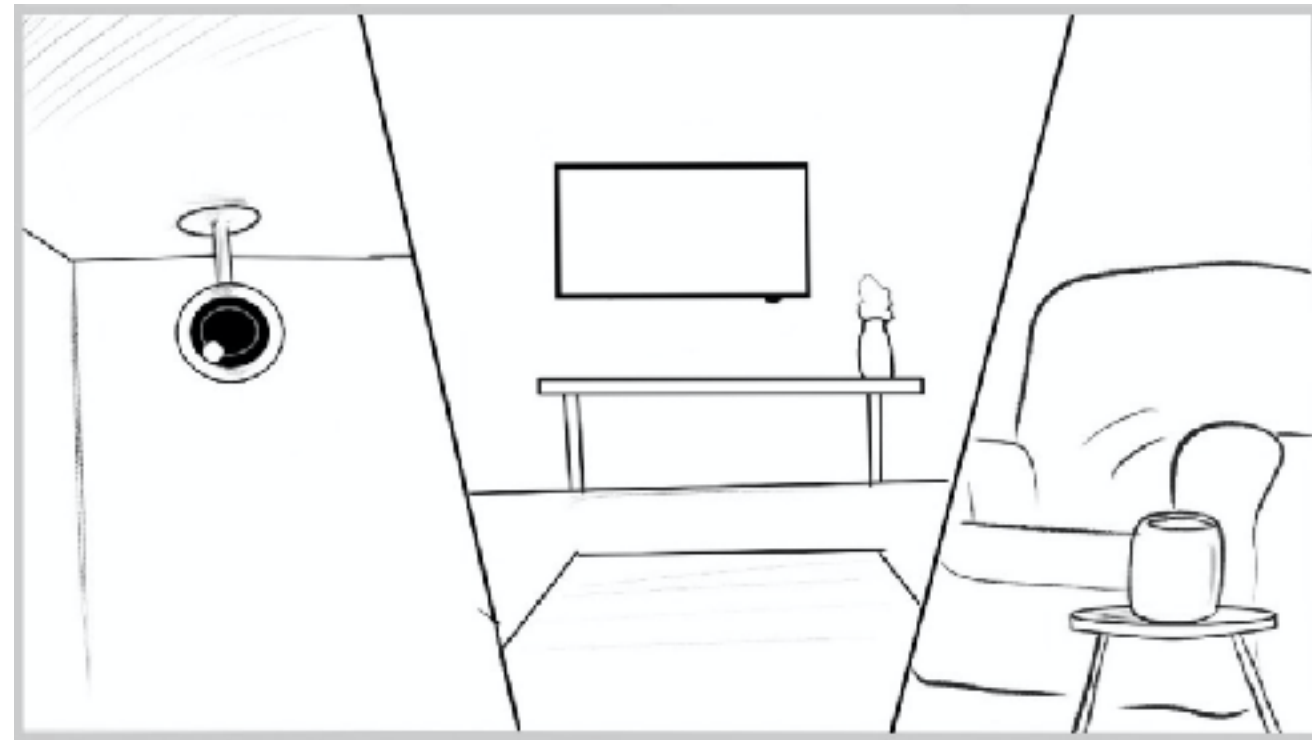
Note: storyboards in the surveys have captions.

Merge partial rankings into a global order
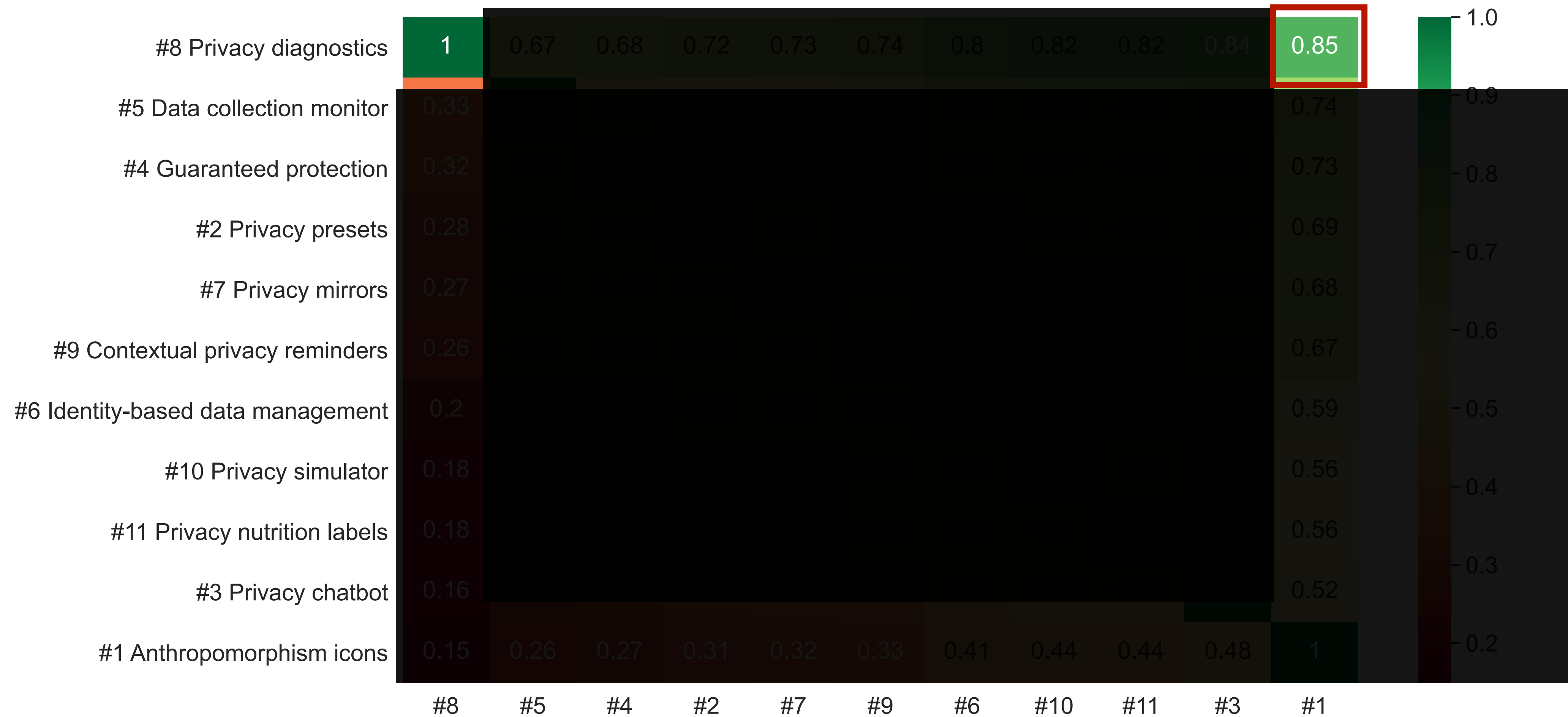
Users prefer simple solutions that can offer more controls
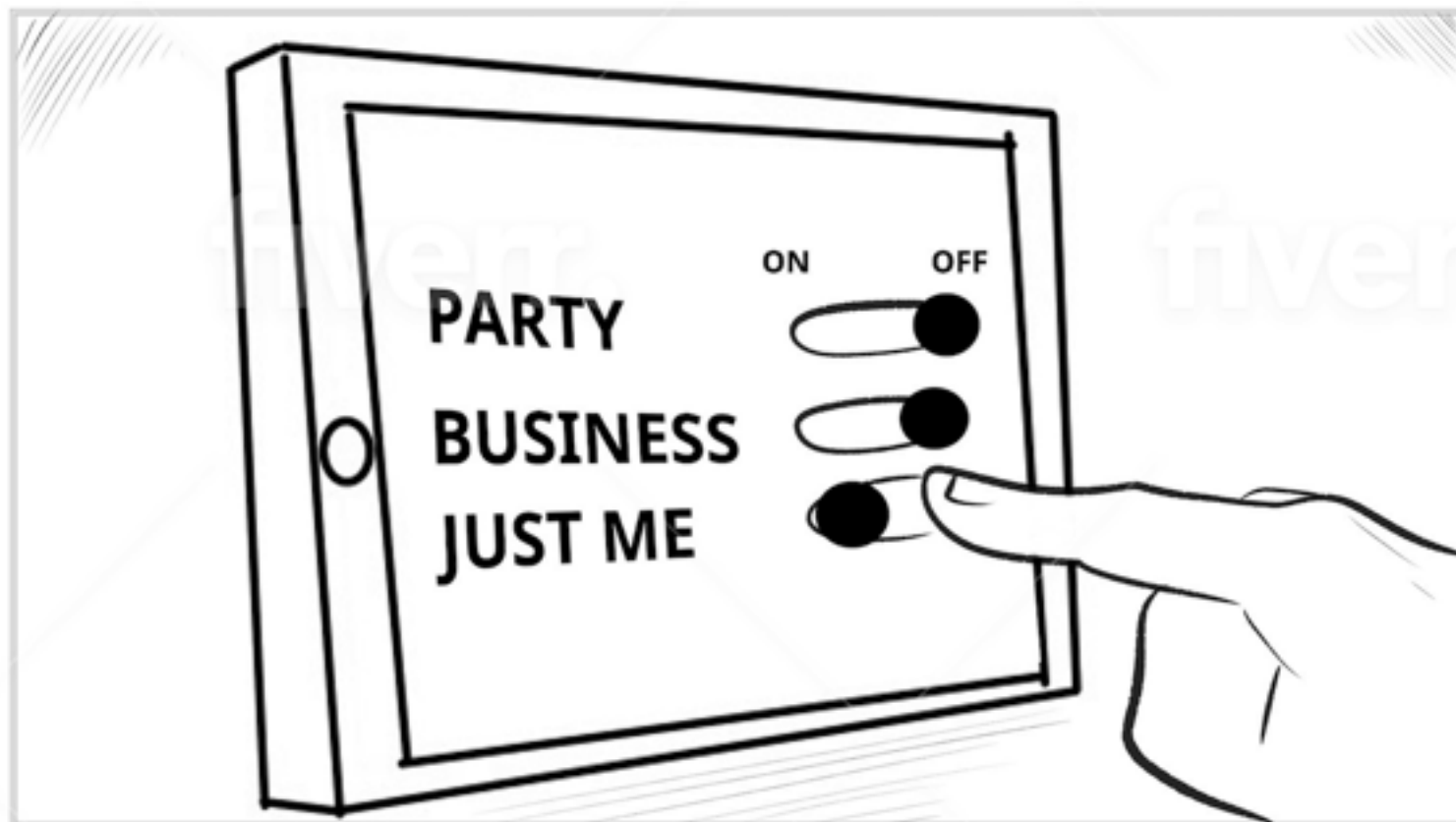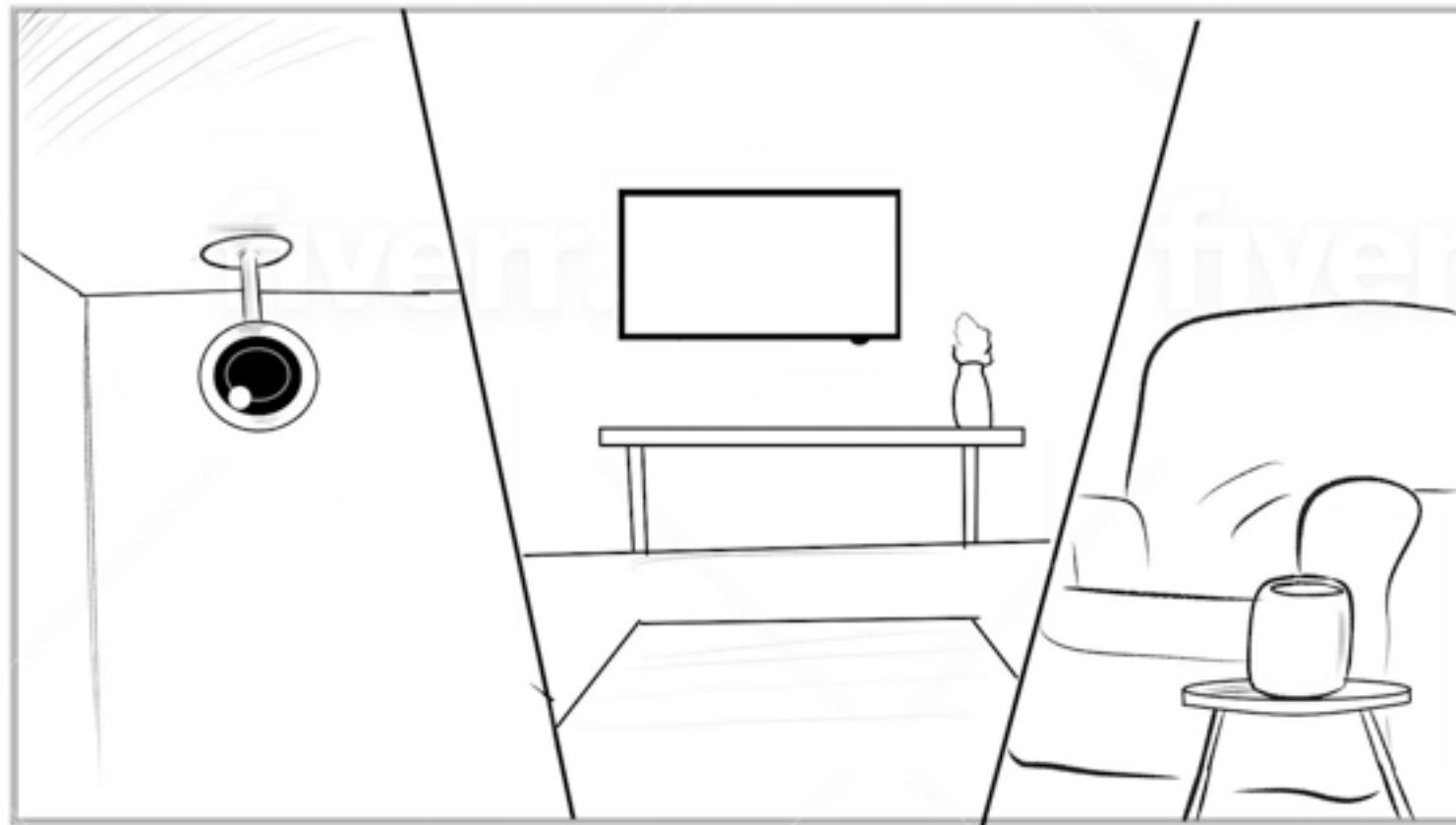
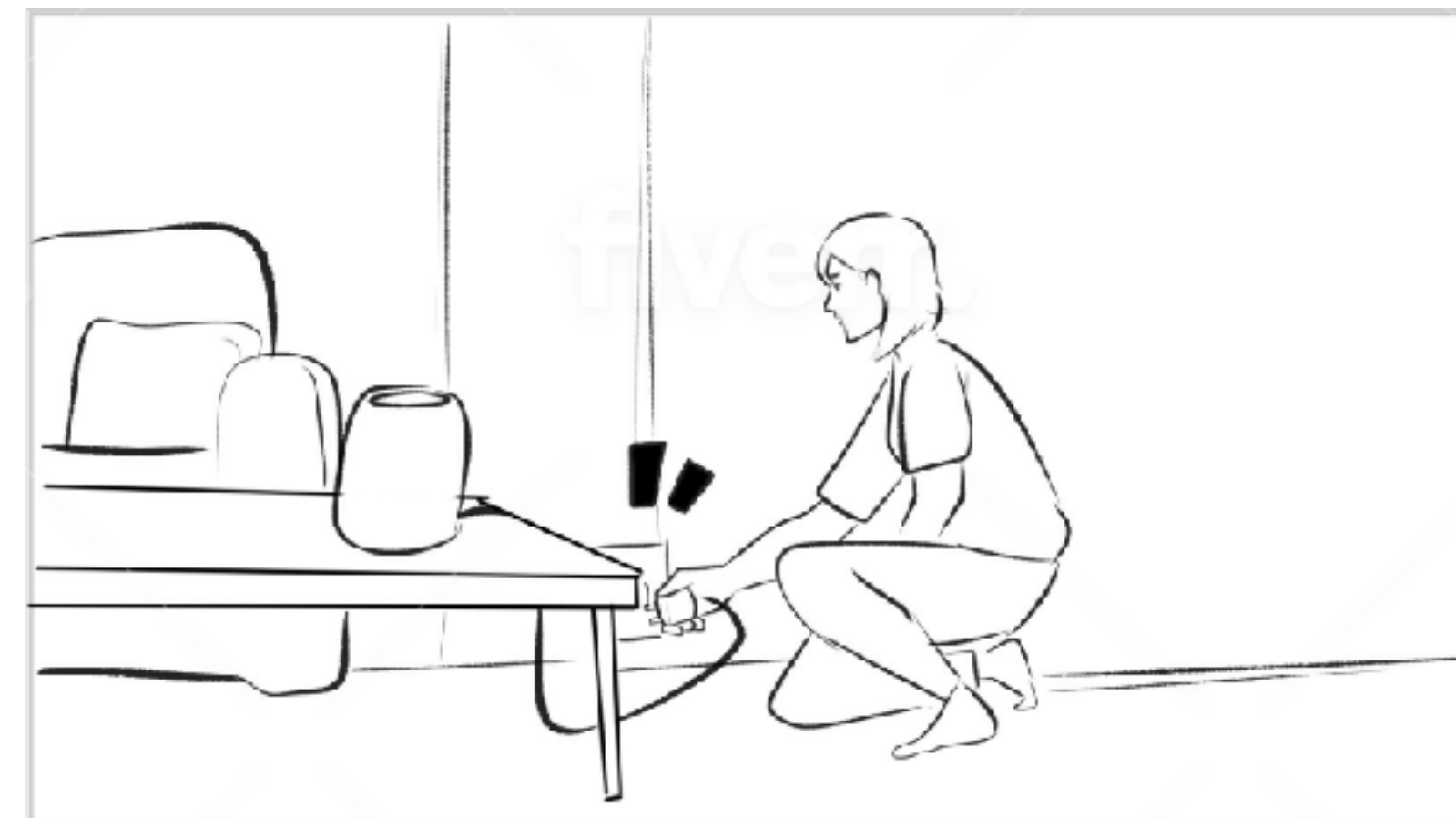# A solutions that can do not offer controls
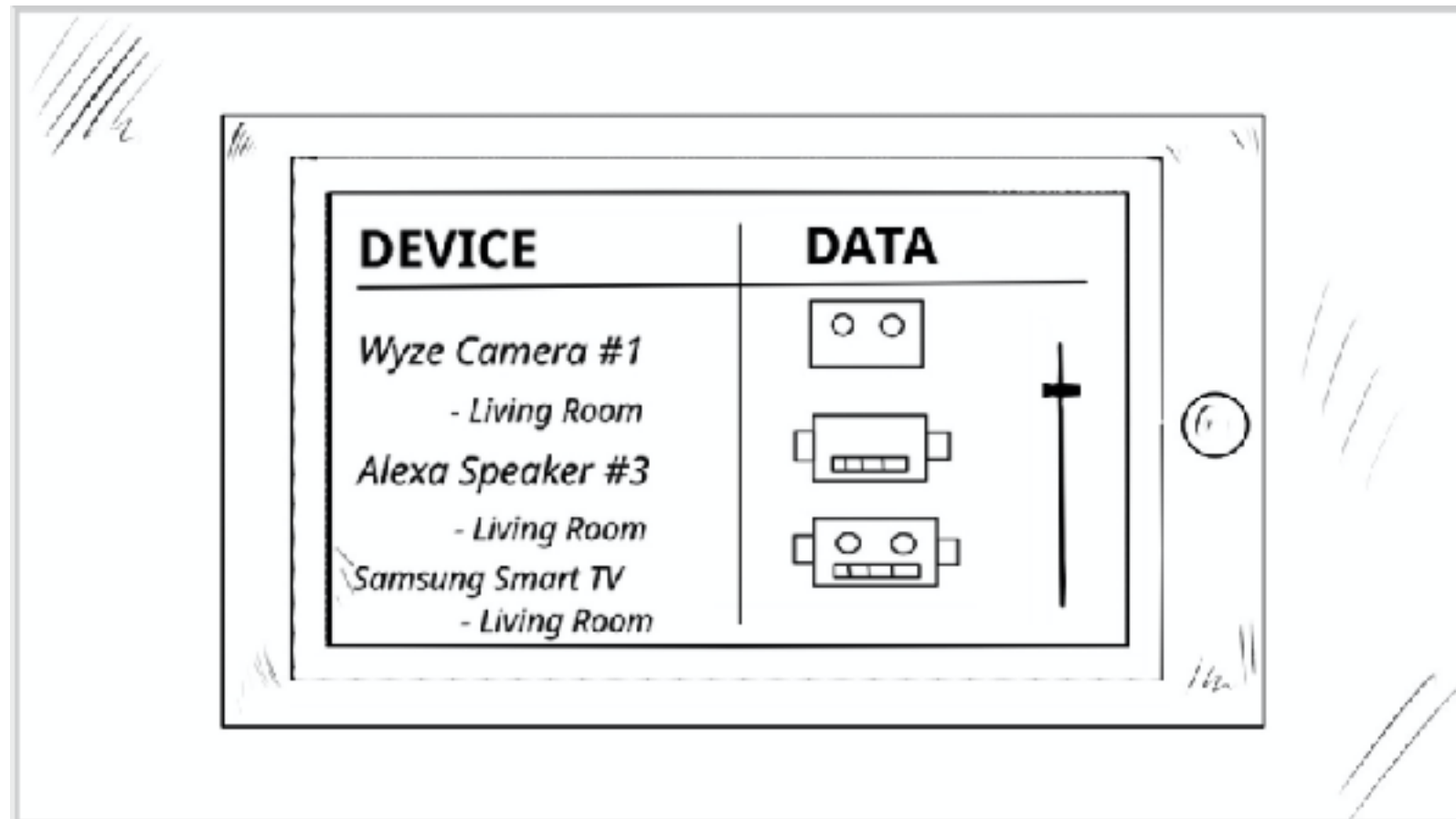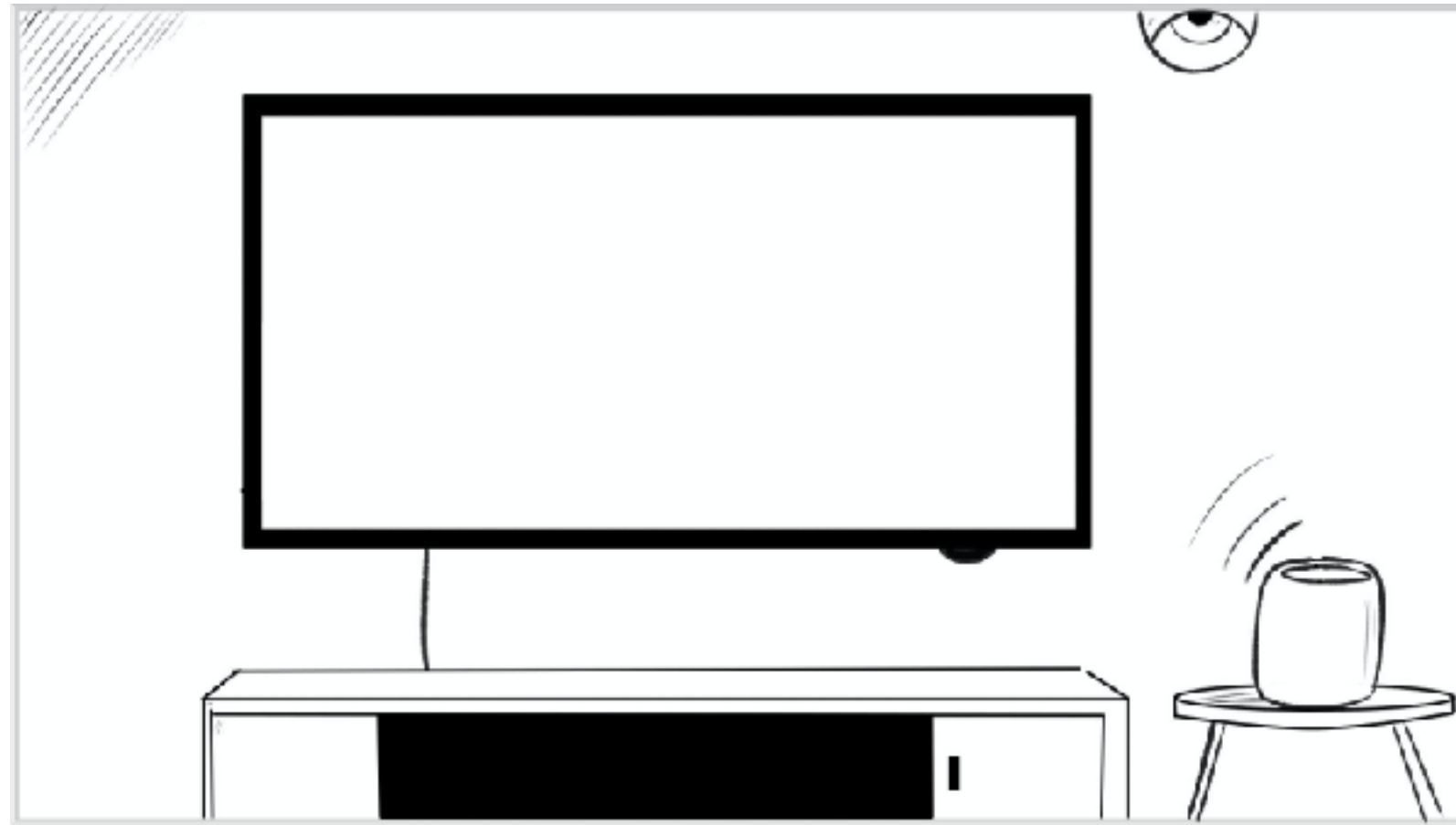
Users prefer proactive and preventative solutions

Recap

SH-PPB

→ **Current practices**

→ **Opportunities**
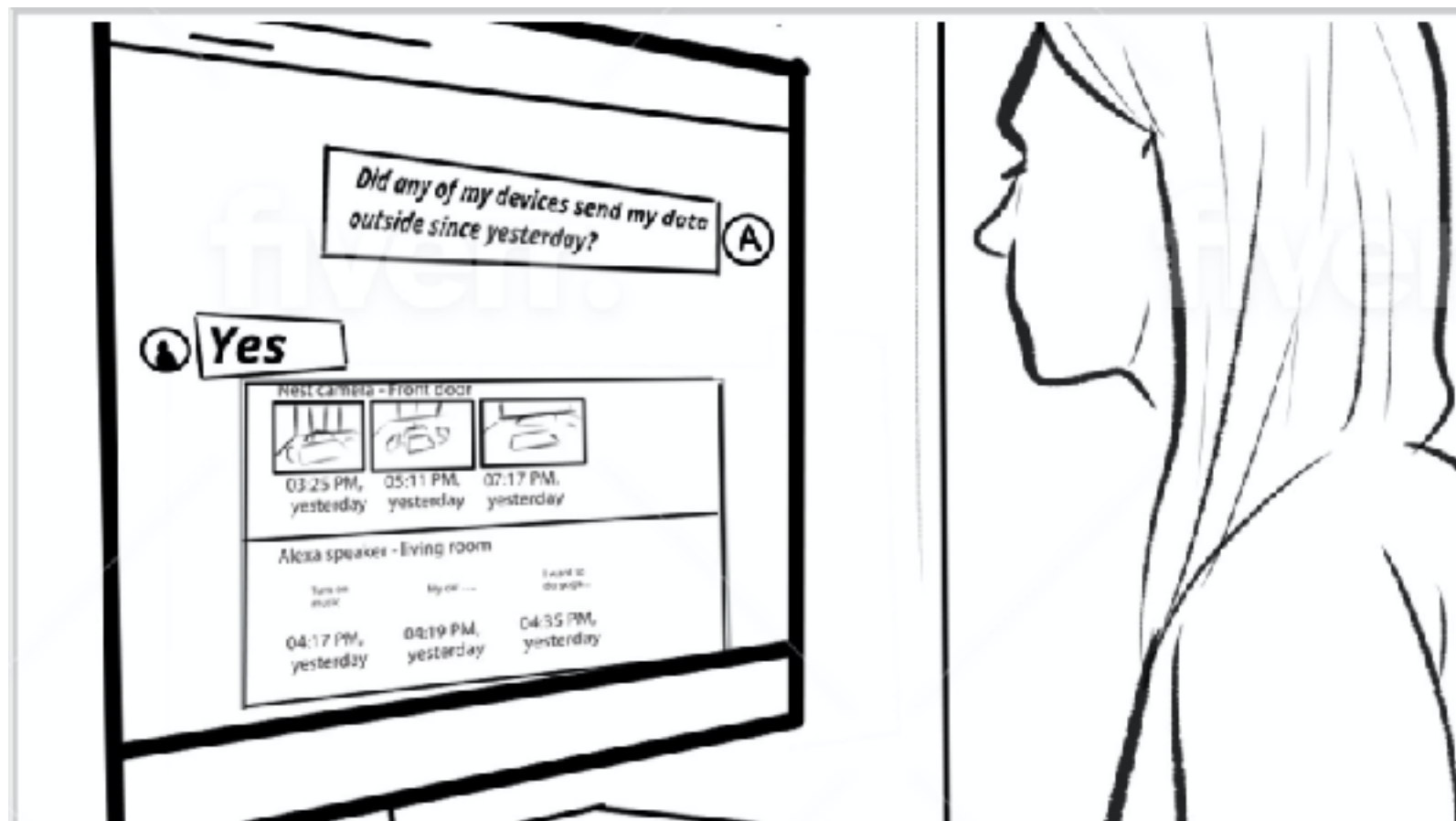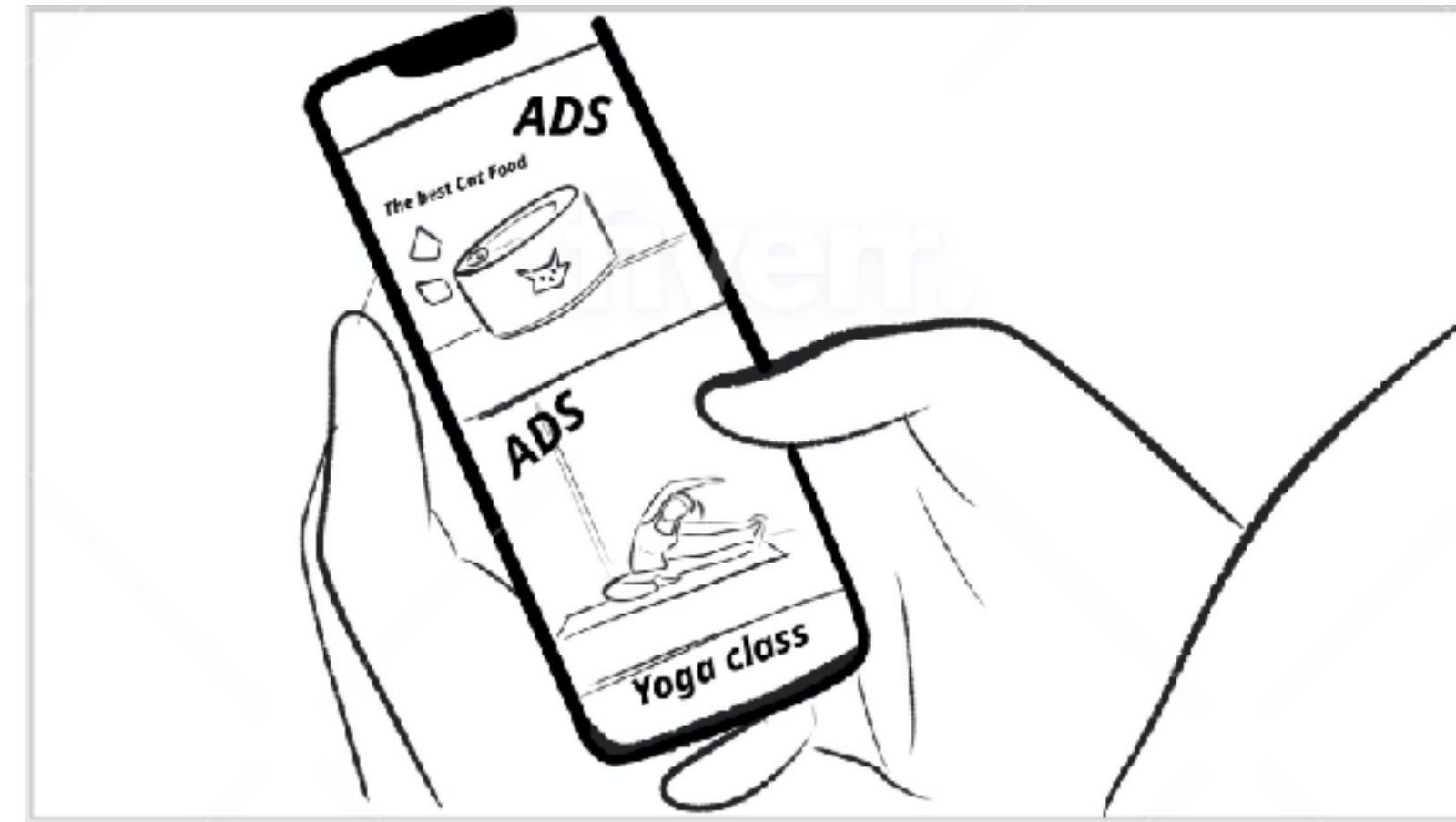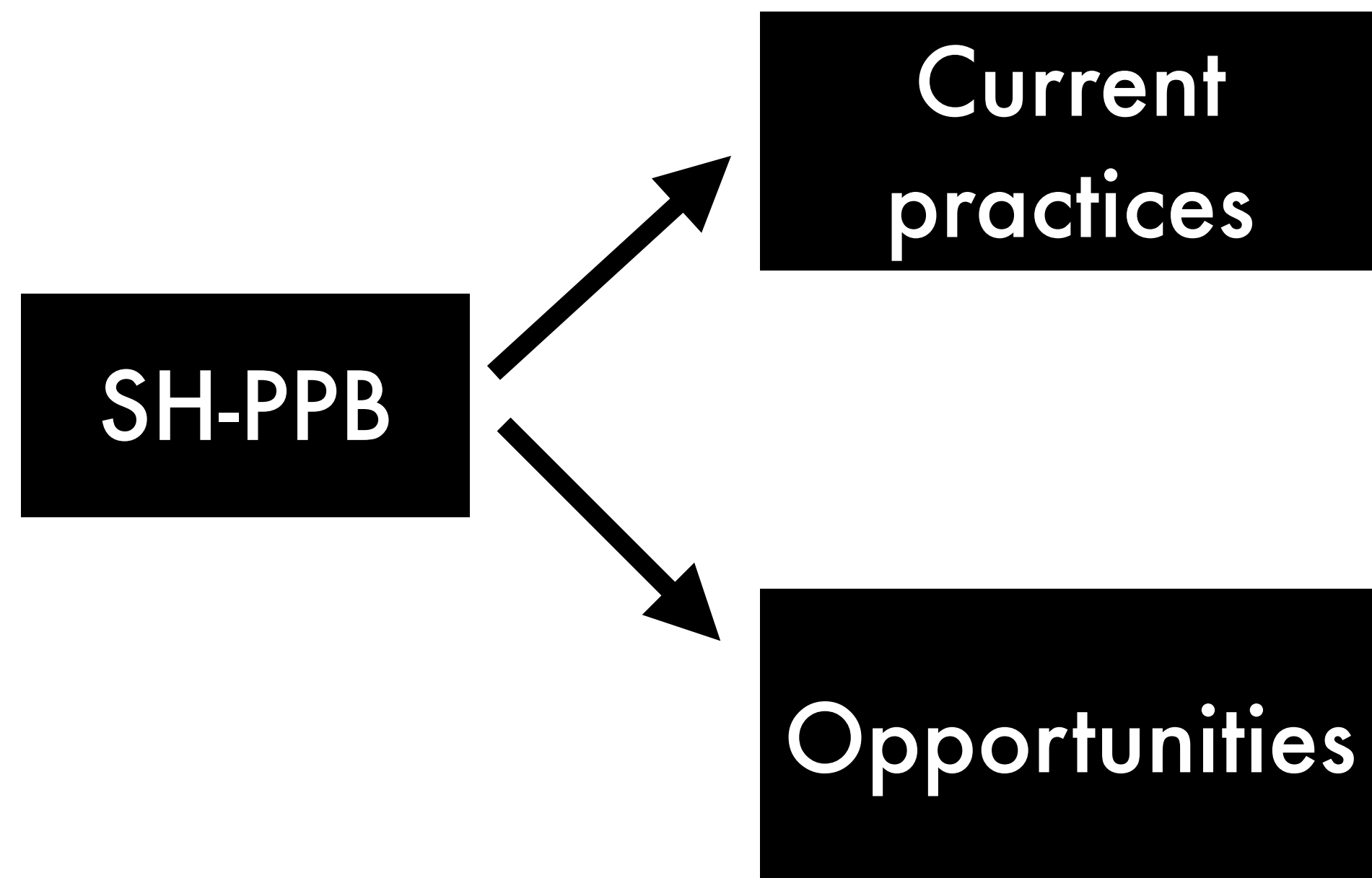
33 unique SH-PPBs

71% SH-PPBs leverage physical control

Privacy diagnostics is most preferred.
(1) Simple, (2) proactive, (3) preventative solutions that can **(4) offer more control**