Challenges Collecting Real-Time Survey Data Using Smartphones

Marie Nitschke, Tara Piché

University of Wisconsin Survey Center University of Wisconsin-Madison

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Overview

- WiscAid Time Use study
 - Study design
 - Development considerations
- Introduction to PACO
 - Administrator & user walkthrough
- Software pros & cons
 - Features
 - Implementation/technical issues
- Alternative software options



Time Use Study

Sponsor

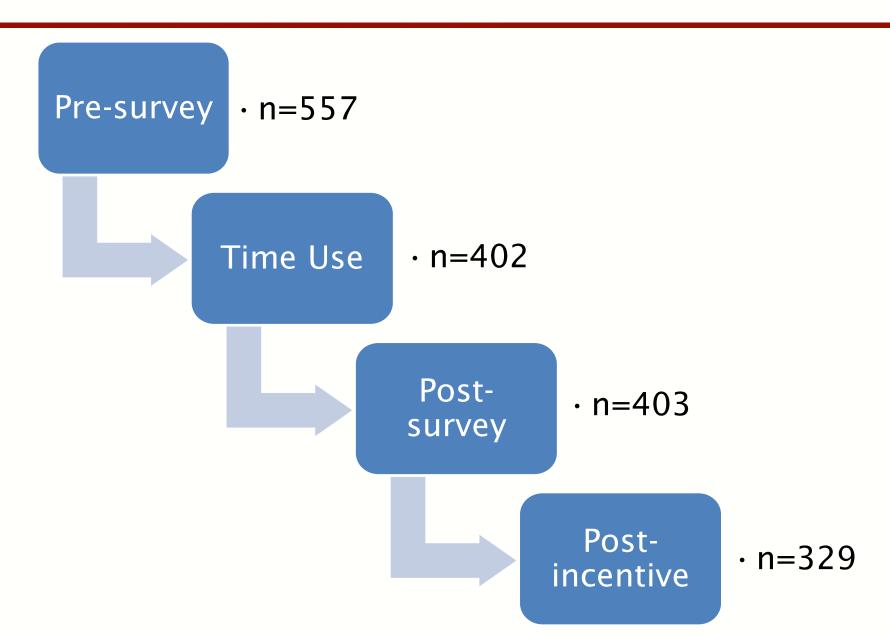




- Purpose
 - Collect real-time data about time use from undergraduates receiving financial aid
- Method
 - Ecological Momentary Assessment
 - Experience Sampling Method (ESM)



Study protocol



Development Considerations



Text (SMS)

Application

Requires phone plan

No data plan required

Skip patterns difficult

More question formats

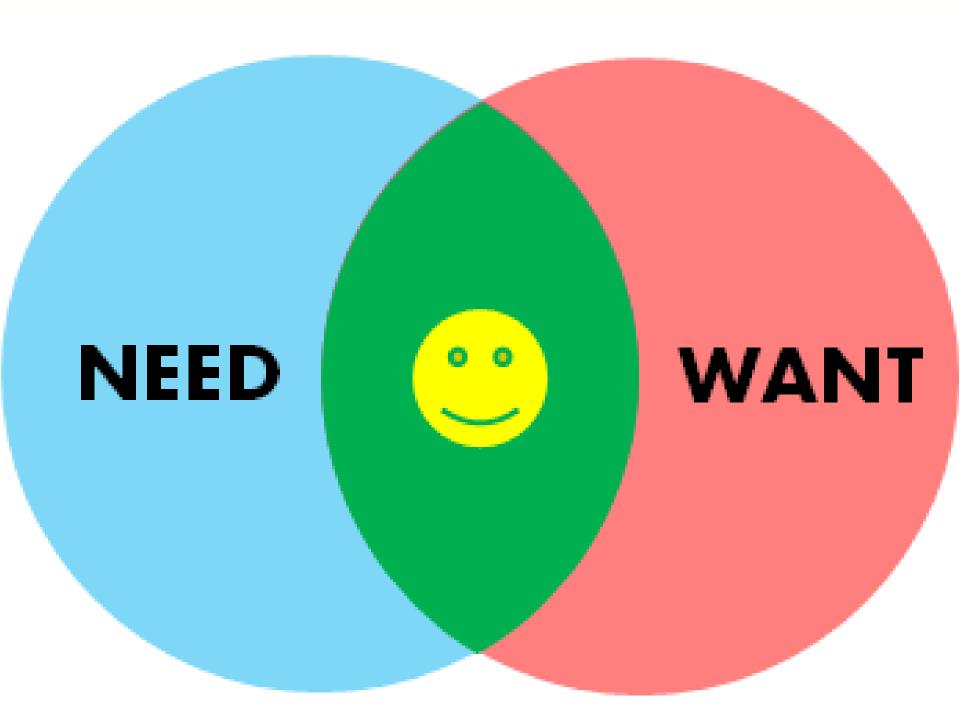
Limited question formats

Higher quality interface

Analyzing data

 Greater technical complexity





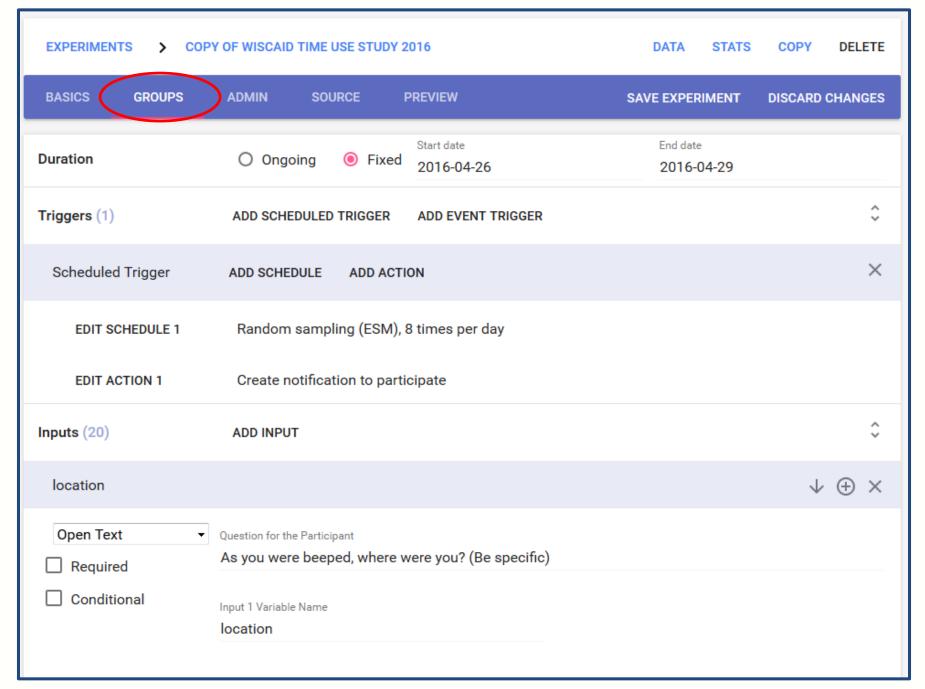
Software needs

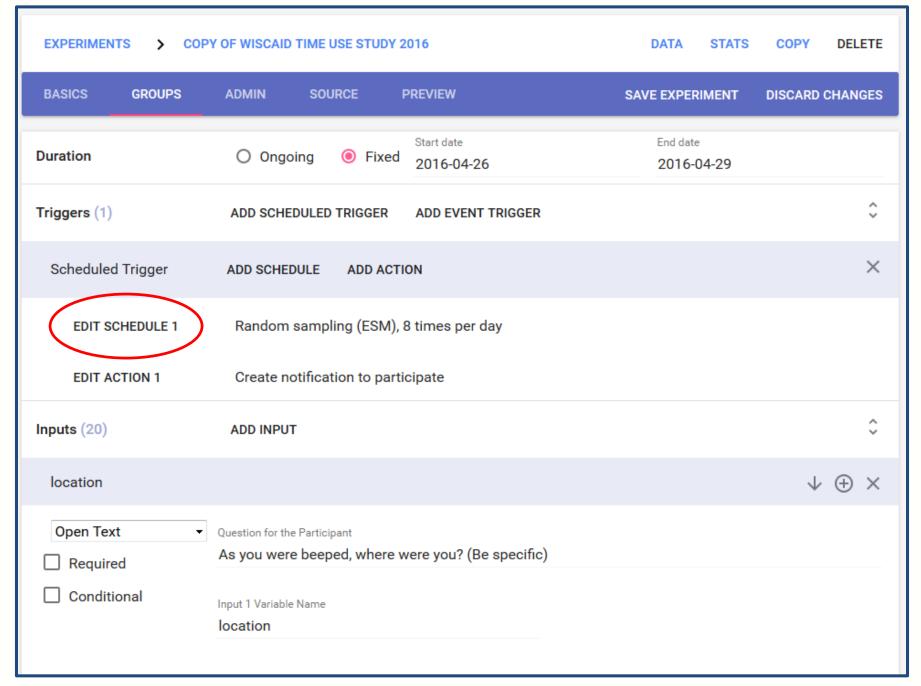
- Low cost
- User-friendly
- Developed
 - iOS and Android compatible

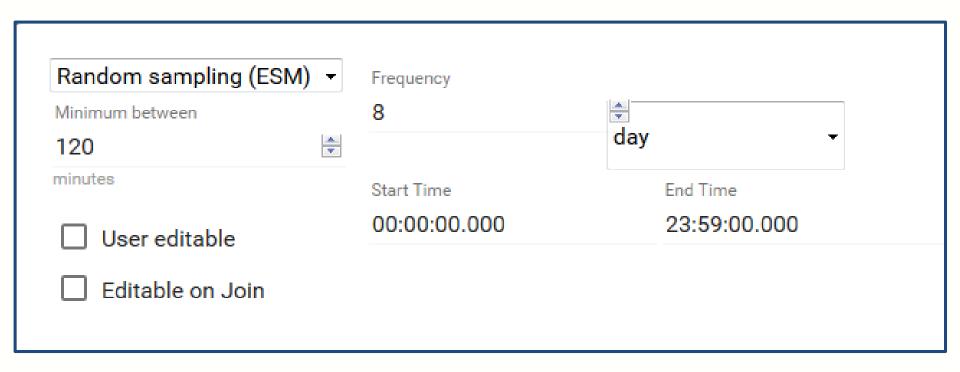


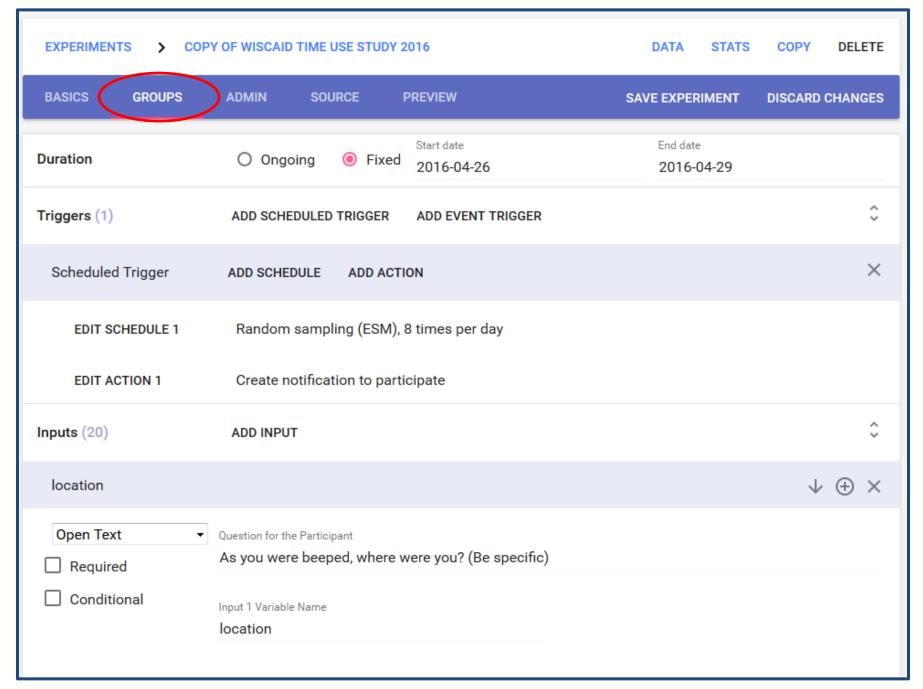


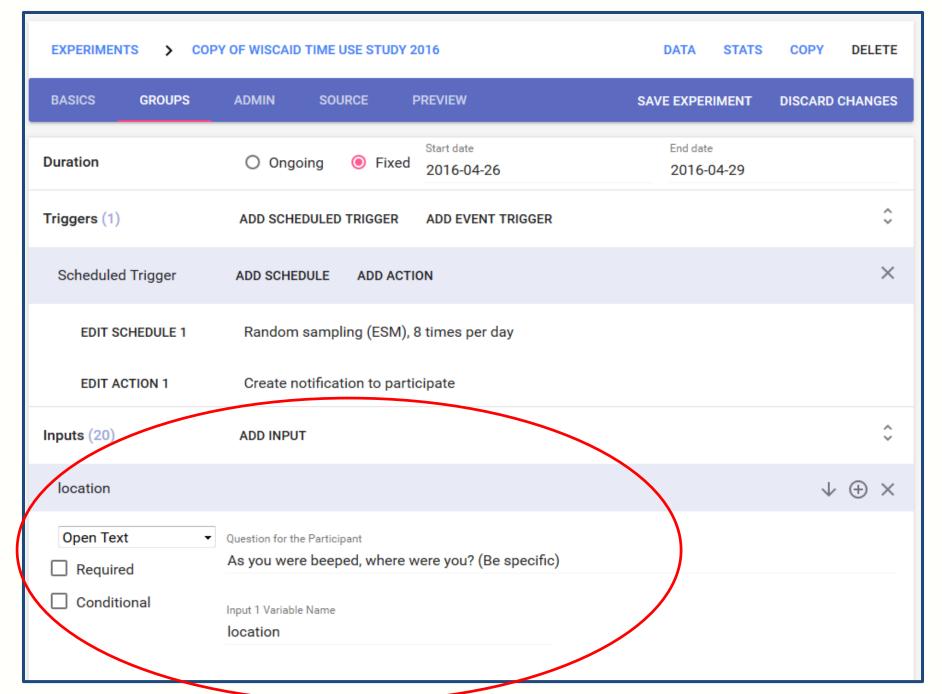
		ADMINISTERED		JOINED	INVITED	NEW EXPERIMENT
Copy of Wisc	Aid Time Use	Study 2016 ad	ministered l	by University of	f Wisconsin Survey Cer	nter & Admin
EDIT	СОРУ	DELETE	STATS	VIEW DATA	ANON DATA	
WiscAid Time Use Study 2016 administered by University of Wisconsin Survey Center & Admi						
EDIT	СОРУ	DELETE	STATS	VIEW DATA	ANON DATA	
WiscAid Time Use Study (November)						& Admin
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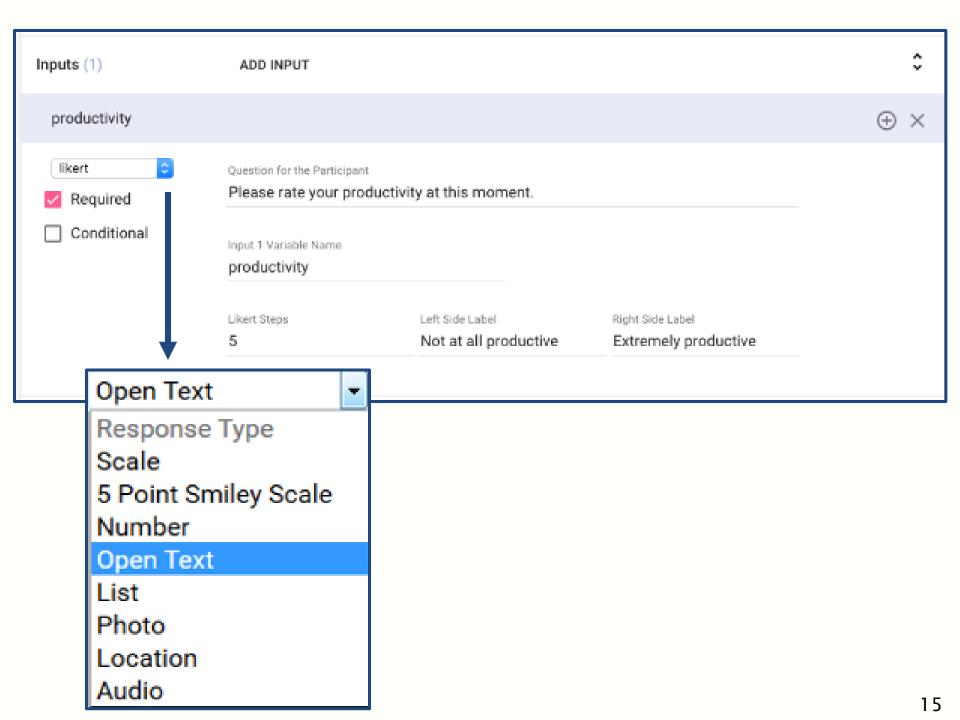


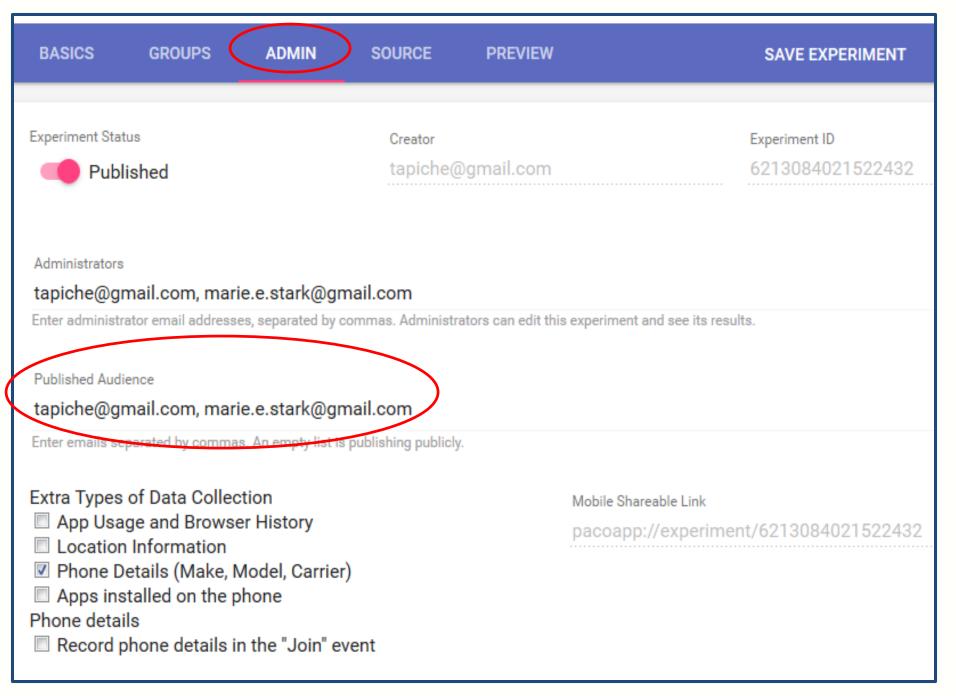


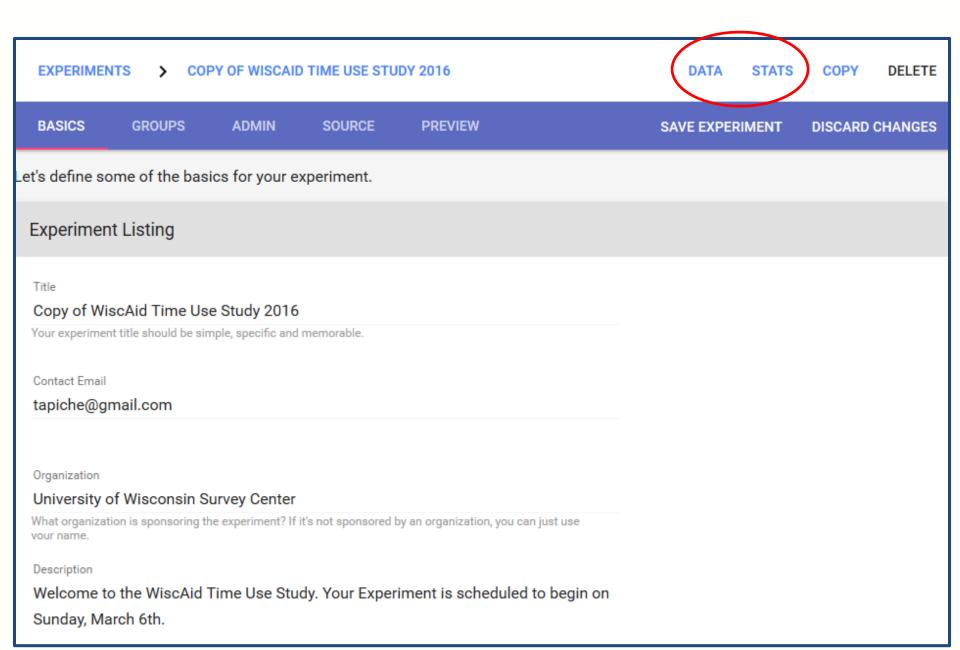




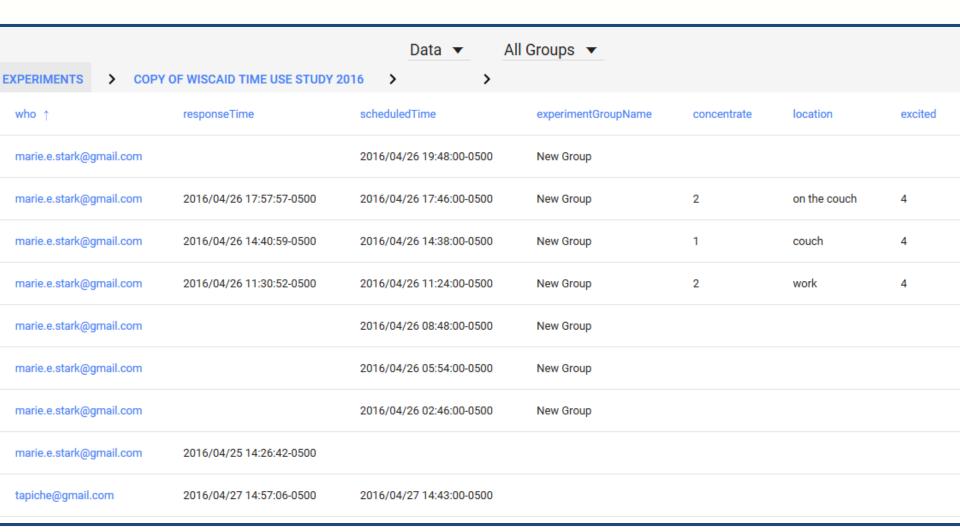




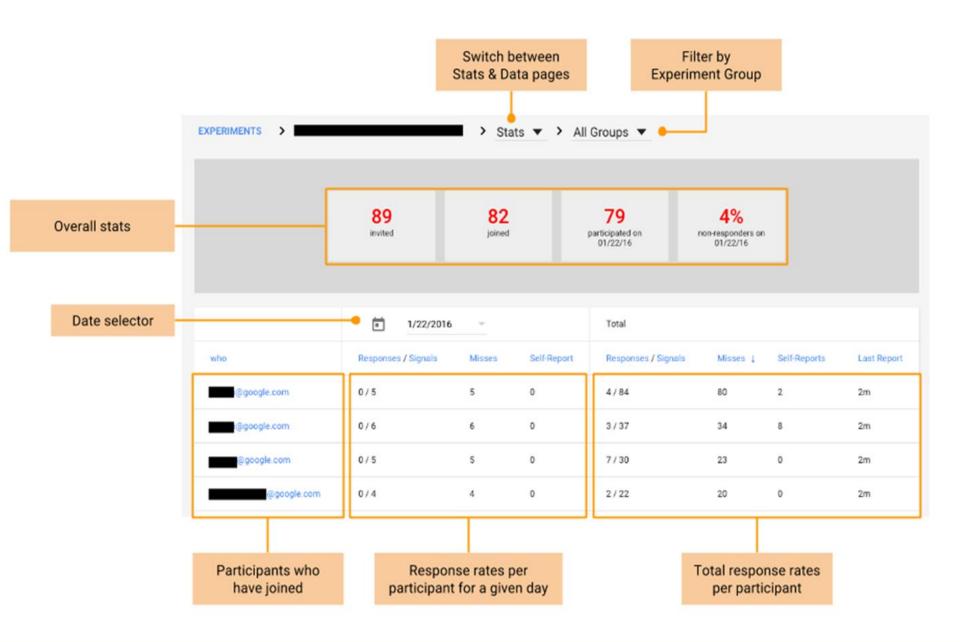


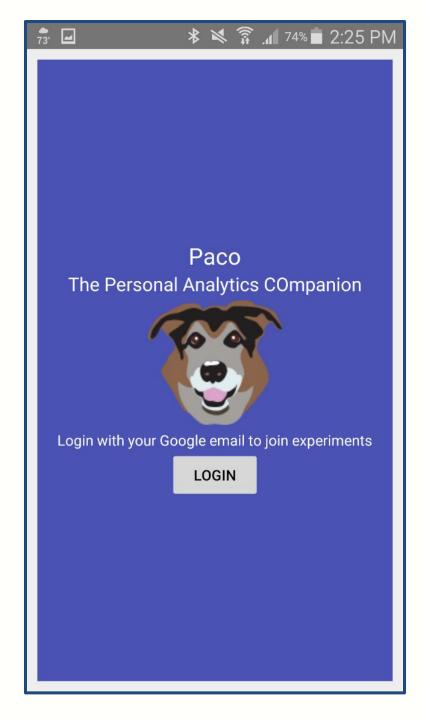


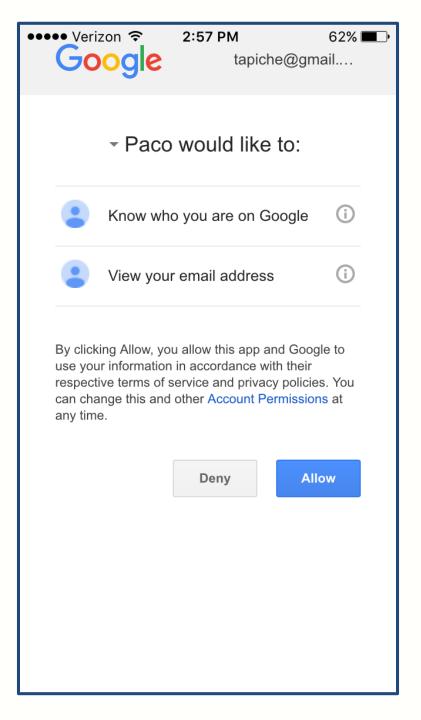
Data View

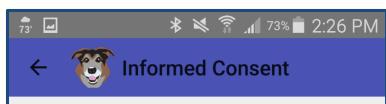


Stat View









You Agree to Share Information with the Experimenters

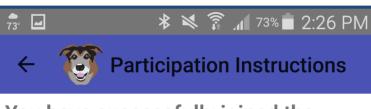
By joining this experiment, you will be sharing your responses with the creator and administrators of this experiment, and they may use that information for research, product development, or other purposes. Please read the privacy policy or data handling statement they have provided below to decide whether you want to participate in this experiment.

Types of Data Collected

User responses to experiment form

Experimenter's Informed Consent Statement

I CONSENT



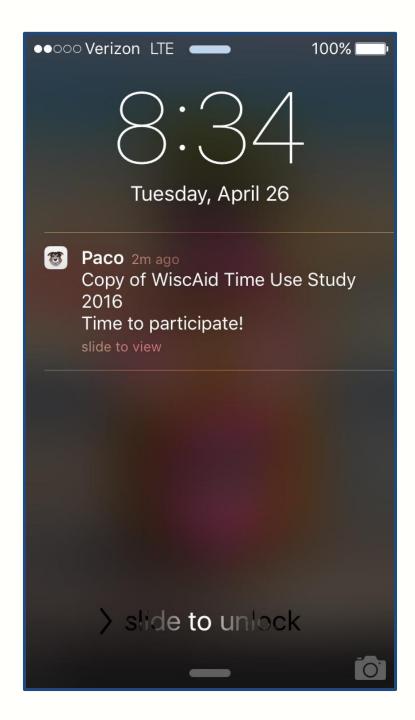
You have successfully joined the experiment!

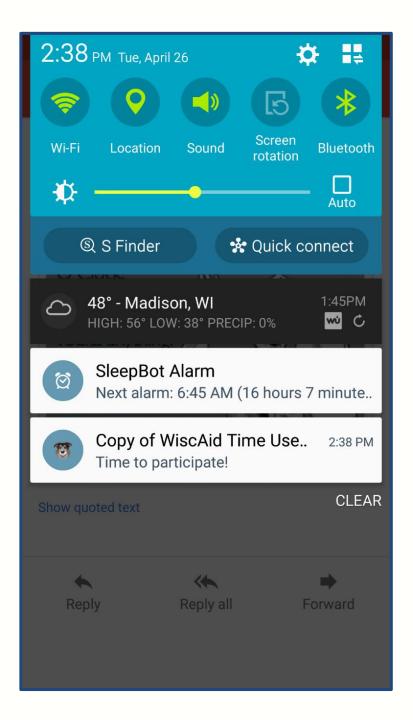
No need to do anything else for now.

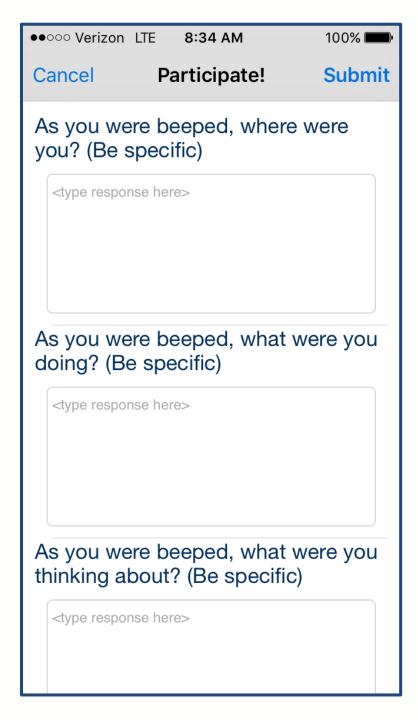
Paco will send you a notification when it is time to participate.

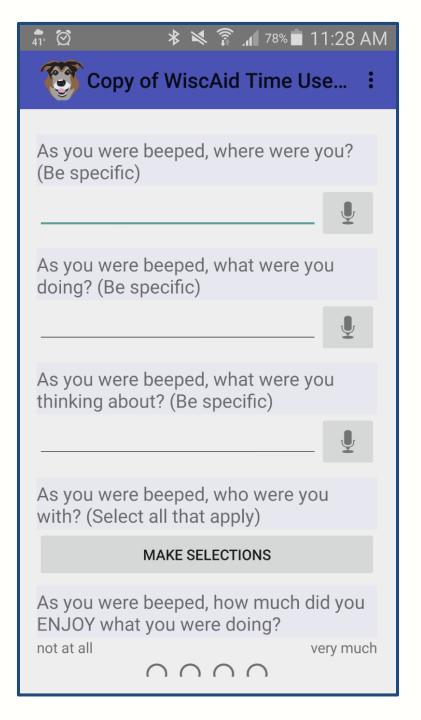
Be sure your ringer/buzzer is on so you will hear the notification.

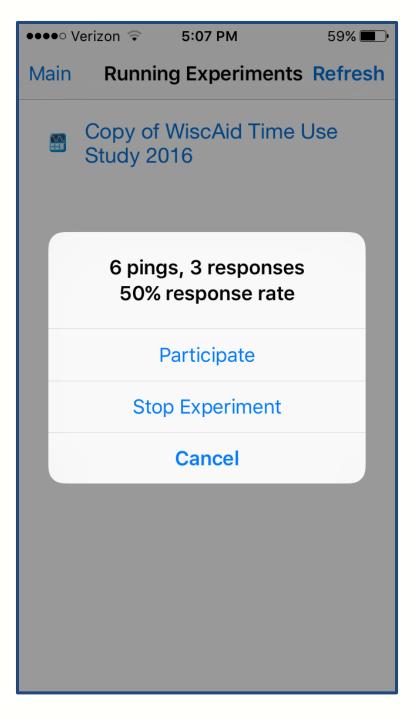
DONE











PACO Pros & Cons

- Features
 - Open-source
 - Usability
 - Data
- Alternative apps and options

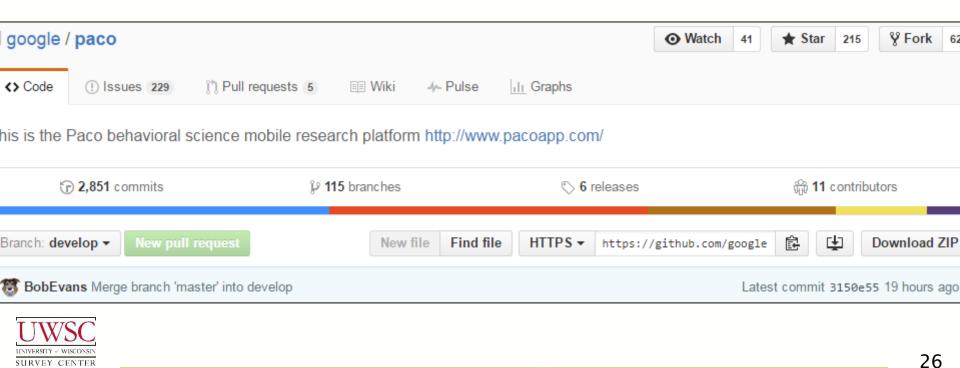




Pros Cons

- Free, Googlebased
- Open-source/ Collaborative

- Technical support
 - PACO team
 - Respondents
- · Small development team



Usability



Pros

- Project set-up
 - Simple, customizable inputs
 - Timing/alerts

Cons

- Sample management
 - Enrolling respondents
 - Follow-up

User Manual

```
Introduction
   What is Paco?
   How Paco Works
   A Note about iOS
Creating a Paco Experiment
   Overview
   Defining Your Experiment
       Triggers and Actions
          Schedule and Random Triggers
          Event Triggers
          Actions
       Inputs and Experiment Groups
          Inputs
          Experiment Groups
       Using Advanced Data Collection Features
   Controlling Access to Your Experiment
   Informed Consent
Study Management
   Recruiting Participants
   Onboarding Participants
   Monitoring Participation
   Download Results for All Participants
   Analyzing Results
Troubleshooting
   No Pings
   Missing Data
FA0s
   About Experiential Sampling Methodology (ESM)
   Do participants need a Google email?
```



Data



- Paradata
- Data export
- Missing data
 - Syncing errors



Alternative apps/services

- Custom App Development
- Qualtrics SMS
- iHabbit
- Mobile Market Research
- iSURVEY/droidSURVEY
- Ondevice Research

How satisfied were you with our service today? (Standard messaging rates apply. Text "STOP" to opt out of this survey.)

- 1-Very Dissatisfied
- 2-Dissatisfied
- 3-Neutral
- 4-Satisfied
- 5-Very Satisfied



Lessons learned

- Field considerations for PACO
 - Pilot to train respondents & staff
 - Software updates
 - Importing Gmail addresses
 - Troubleshooting with respondents
 - Guides/tutorials
 - Managing data for progress monitoring
 - Expect some missing data due to bugs/errors



Thank You!

For copies of this presentation or more information, contact:

Marie Nitschke mnitschke@ssc.wisc.edu

Tara Piché tpiche@ssc.wisc.edu

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